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ASTRONÓMICO NACIONAL

Edición CXXXIX

2020

INSTITUTO DE ASTRONOMÍA
UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

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Instituto de Astronomía
Impreso y hecho en México

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MAPA DE ESTRELLAS PARA EL AÑO 2020

Prefacio, 2020

En el Anuario del Observatorio Astronómico Nacional se publican efemérides astronómicas del Sol, la Luna, planetas y estrellas, sucesos astronómicos como eclipses, ocultaciones y conjunciones; datos astronómicos generales, así como parámetros geométricos y físicos de los planetas y sus satélites.

Para el cálculo de las efemérides y los instantes en que ocurren los sucesos astronómicos, se toma el meridiano efemérico 90° al oeste del meridiano efemérico de Greenwich, y la diferencia entre el tiempo de las efemérides y el Universal se estima en $\Delta T = 69.0$ s. Los instantes para los fenómenos astronómicos y las horas del paso por el meridiano 90° W.G., deberán corregirse por el horario de verano que corresponda al lugar geográfico y la época del año. De acuerdo al Decreto Presidencial sobre Husos Horarios (Ver Hora legal en la República mexicana).

Todos los cálculos de las efemérides astronómicas son referidos al Ecuador y Eclíptica de la época J2000.0, de acuerdo a las resoluciones tomadas por la Unión Astronómica Internacional (UAI) en 1976. Nuestros cálculos se fundamentan en los parámetros astronómicos y elementos orbitales medios, utilizados para otros anuarios astronómicos, como: *Astronomical Almanac*, *EUA*, *National Almanac of Royal Greenwich Observatory*, *Inglaterra*, *Jet Propulsion Laboratory*, *EUA* y *Service des Calculs Bureau des Longitudes*, Francia.

En esta edición, los cálculos son referidos a los fundamentos recomendados por la Unión Astronómica Internacional (2000) para la precesión y nutación, los sistemas de referencia celeste intermedio y el ángulo de rotación de la Tierra CIP, CIO, ICRS, CIRS. La relación entre los orígenes se da a partir de la longitud cero del origen intermedio terrestre y el origen de equinoccio verdadero y del origen del intermedio celeste (CIO), los cuales difieren por el ángulo de rotación de la Tierra (ERA). El ecuador verdadero y el intermedio son coplanares, cuyo polo es el intermedio celeste (CIP)

De acuerdo a las recomendaciones del grupo Working Group on Nomenclature for Fundamental Astronomy de la IAU, las efemérides para los planetas, el Sol y la Luna, se obtuvieron en función de la efemérides JPL Planetary and Lunar Ephemeris DE431/LE431. Para las estrellas se tomaron de los parámetros astronómicos del catálogo The Hipparcos and Tycho Catalog, ESA Hipparcos Space Astrometry Mission, a partir del cual se determinaron las posiciones medias de estrellas y posiciones aparentes de estrellas brillantes.

Para el cálculo de las declinaciones magnéticas se utilizó la décima generación del modelo del campo magnético terrestre adoptado por la “International Association of Geomagnetic and Aeronomy”. Los cálculos corresponden a las determinaciones, teóricas y observadas, para la República Mexicana del Departamento de Geomagnetismo y Exploración del Instituto de Geofísica de la Universidad Nacional Autónoma de México.

Se incluye un mapa de estrellas referidas al año 2019. En el apartado de nomenclatura de estrellas se incluyen los nombres comunes de estrellas a demás de los número de los catálogos Hipparco (NH) y los números asignados en el Bright Star Catalog de la Universidad de Yale (NBSC). En la tabla de posiciones medias se presentan las coordenadas ascensión recta en unidades (h, m, s), y declinación ($^{\circ}$, $'$, $''$), y en decimales de grado ($^{\circ}$). Debemos señalar que en el futuro próximo las tablas de efemérides se darán en decimales de grado.

Todos los cálculos se efectuaron en los sistemas de cómputo del departamento de Astrofísica Computacional del Instituto de Astronomía, de la Universidad Nacional Autónoma de México.

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Instituto de Astronomía
Universidad Nacional Autónoma de México
Ciudad Universitaria
Apartado postal 70-264
México, D.F., 04510*

Día Juliano, 2020

A las 0^h del meridiano 90° W.G.

| d | ds | dj | d | ds | dj | d | ds | dj | d | ds | dj |
|----------------|-----|------------|--------------|-----|------------|-------------|-----|------------|--------------|-----|------------|
| Enero | | | 21 | vie | 2458900.75 | 11 | sab | 2458950.75 | Junio | | |
| 1 | mie | 2458849.75 | 22 | sab | 2458901.75 | 12 | dom | 2458951.75 | 1 | lun | 2459001.75 |
| 2 | jue | 2458850.75 | 23 | dom | 2458902.75 | 13 | lun | 2458952.75 | 2 | mar | 2459002.75 |
| 3 | vie | 2458851.75 | 24 | lun | 2458903.75 | 14 | mar | 2458953.75 | 3 | mie | 2459003.75 |
| 4 | sab | 2458852.75 | 25 | mar | 2458904.75 | 15 | mie | 2458954.75 | 4 | jue | 2459004.75 |
| 5 | dom | 2458853.75 | 26 | mie | 2458905.75 | 16 | jue | 2458955.75 | 5 | vie | 2459005.75 |
| 6 | lun | 2458854.75 | 27 | jue | 2458906.75 | 17 | vie | 2458956.75 | 6 | sab | 2459006.75 |
| 7 | mar | 2458855.75 | 28 | vie | 2458907.75 | 18 | sab | 2458957.75 | 7 | dom | 2459007.75 |
| 8 | mie | 2458856.75 | 29 | sab | 2458908.75 | 19 | dom | 2458958.75 | 8 | lun | 2459008.75 |
| 9 | jue | 2458857.75 | Marzo | | | 20 | lun | 2458959.75 | 9 | mar | 2459009.75 |
| 10 | vie | 2458858.75 | 1 | dom | 2458909.75 | 21 | mar | 2458960.75 | 10 | mie | 2459010.75 |
| 11 | sab | 2458859.75 | 2 | lun | 2458910.75 | 22 | mie | 2458961.75 | 11 | jue | 2459011.75 |
| 12 | dom | 2458860.75 | 3 | mar | 2458911.75 | 23 | jue | 2458962.75 | 12 | vie | 2459012.75 |
| 13 | lun | 2458861.75 | 4 | mie | 2458912.75 | 24 | vie | 2458963.75 | 13 | sab | 2459013.75 |
| 14 | mar | 2458862.75 | 5 | jue | 2458913.75 | 25 | sab | 2458964.75 | 14 | dom | 2459014.75 |
| 15 | mie | 2458863.75 | 6 | vie | 2458914.75 | 26 | dom | 2458965.75 | 15 | lun | 2459015.75 |
| 16 | jue | 2458864.75 | 7 | sab | 2458915.75 | 27 | lun | 2458966.75 | 16 | mar | 2459016.75 |
| 17 | vie | 2458865.75 | 8 | dom | 2458916.75 | 28 | mar | 2458967.75 | 17 | mie | 2459017.75 |
| 18 | sab | 2458866.75 | 9 | lun | 2458917.75 | 29 | mie | 2458968.75 | 18 | jue | 2459018.75 |
| 19 | dom | 2458867.75 | 10 | mar | 2458918.75 | 30 | jue | 2458969.75 | 19 | vie | 2459019.75 |
| 20 | lun | 2458868.75 | 11 | mie | 2458919.75 | Mayo | | | 20 | sab | 2459020.75 |
| 21 | mar | 2458869.75 | 12 | jue | 2458920.75 | 1 | vie | 2458970.75 | 21 | dom | 2459021.75 |
| 22 | mie | 2458870.75 | 13 | vie | 2458921.75 | 2 | sab | 2458971.75 | 22 | lun | 2459022.75 |
| 23 | jue | 2458871.75 | 14 | sab | 2458922.75 | 3 | dom | 2458972.75 | 23 | mar | 2459023.75 |
| 24 | vie | 2458872.75 | 15 | dom | 2458923.75 | 4 | lun | 2458973.75 | 24 | mie | 2459024.75 |
| 25 | sab | 2458873.75 | 16 | lun | 2458924.75 | 5 | mar | 2458974.75 | 25 | jue | 2459025.75 |
| 26 | dom | 2458874.75 | 17 | mar | 2458925.75 | 6 | mie | 2458975.75 | 26 | vie | 2459026.75 |
| 27 | lun | 2458875.75 | 18 | mie | 2458926.75 | 7 | jue | 2458976.75 | 27 | sab | 2459027.75 |
| 28 | mar | 2458876.75 | 19 | jue | 2458927.75 | 8 | vie | 2458977.75 | 28 | dom | 2459028.75 |
| 29 | mie | 2458877.75 | 20 | vie | 2458928.75 | 9 | sab | 2458978.75 | 29 | lun | 2459029.75 |
| 30 | jue | 2458878.75 | 21 | sab | 2458929.75 | 10 | dom | 2458979.75 | 30 | mar | 2459030.75 |
| 31 | vie | 2458879.75 | 22 | dom | 2458930.75 | 11 | lun | 2458980.75 | Julio | | |
| Febrero | | | 23 | lun | 2458931.75 | 12 | mar | 2458981.75 | 1 | mie | 2459031.75 |
| 1 | sab | 2458880.75 | 24 | mar | 2458932.75 | 13 | mie | 2458982.75 | 2 | jue | 2459032.75 |
| 2 | dom | 2458881.75 | 25 | mie | 2458933.75 | 14 | jue | 2458983.75 | 3 | vie | 2459033.75 |
| 3 | lun | 2458882.75 | 26 | jue | 2458934.75 | 15 | vie | 2458984.75 | 4 | sab | 2459034.75 |
| 4 | mar | 2458883.75 | 27 | vie | 2458935.75 | 16 | sab | 2458985.75 | 5 | dom | 2459035.75 |
| 5 | mie | 2458884.75 | 28 | sab | 2458936.75 | 17 | dom | 2458986.75 | 6 | lun | 2459036.75 |
| 6 | jue | 2458885.75 | 29 | dom | 2458937.75 | 18 | lun | 2458987.75 | 7 | mar | 2459037.75 |
| 7 | vie | 2458886.75 | 30 | lun | 2458938.75 | 19 | mar | 2458988.75 | 8 | mie | 2459038.75 |
| 8 | sab | 2458887.75 | 31 | mar | 2458939.75 | 20 | mie | 2458989.75 | 9 | jue | 2459039.75 |
| 9 | dom | 2458888.75 | Abril | | | 21 | jue | 2458990.75 | 10 | vie | 2459040.75 |
| 10 | lun | 2458889.75 | 1 | mie | 2458940.75 | 22 | vie | 2458991.75 | 11 | sab | 2459041.75 |
| 11 | mar | 2458890.75 | 2 | jue | 2458941.75 | 23 | sab | 2458992.75 | 12 | dom | 2459042.75 |
| 12 | mie | 2458891.75 | 3 | vie | 2458942.75 | 24 | dom | 2458993.75 | 13 | lun | 2459043.75 |
| 13 | jue | 2458892.75 | 4 | sab | 2458943.75 | 25 | lun | 2458994.75 | 14 | mar | 2459044.75 |
| 14 | vie | 2458893.75 | 5 | dom | 2458944.75 | 26 | mar | 2458995.75 | 15 | mie | 2459045.75 |
| 15 | sab | 2458894.75 | 6 | lun | 2458945.75 | 27 | mie | 2458996.75 | 16 | jue | 2459046.75 |
| 16 | dom | 2458895.75 | 7 | mar | 2458946.75 | 28 | jue | 2458997.75 | 17 | vie | 2459047.75 |
| 17 | lun | 2458896.75 | 8 | mie | 2458947.75 | 29 | vie | 2458998.75 | 18 | sab | 2459048.75 |
| 18 | mar | 2458897.75 | 9 | jue | 2458948.75 | 30 | sab | 2458999.75 | 19 | dom | 2459049.75 |
| 19 | mie | 2458898.75 | 10 | vie | 2458949.75 | 31 | dom | 2459000.75 | 20 | lun | 2459050.75 |
| 20 | jue | 2458899.75 | | | | | | | 21 | mar | 2459051.75 |

| d | ds | dj | d | ds | dj | d | ds | dj | d | ds | dj |
|---------------|-----|------------|-------------------|-----|------------|------------------|-----|------------|------------------|------|------------|
| 22 | mie | 2459052.75 | | | | 11 | dom | 2459133.75 | 21 | sab | 2459174.75 |
| 23 | jue | 2459053.75 | | | | 12 | lun | 2459134.75 | 22 | dom | 2459175.75 |
| 24 | vie | 2459054.75 | | | | 13 | mar | 2459135.75 | 23 | lun | 2459176.75 |
| 25 | sab | 2459055.75 | | | | 14 | mie | 2459136.75 | 24 | mar | 2459177.75 |
| 26 | dom | 2459056.75 | | | | 15 | jue | 2459137.75 | 25 | mie | 2459178.75 |
| 27 | lun | 2459057.75 | | | | 16 | vie | 2459138.75 | 26 | jue | 2459179.75 |
| 28 | mar | 2459058.75 | | | | 17 | sab | 2459139.75 | 27 | vie | 2459180.75 |
| 29 | mie | 2459059.75 | | | | 18 | dom | 2459140.75 | 28 | sab | 2459181.75 |
| 30 | jue | 2459060.75 | | | | 19 | lun | 2459141.75 | 29 | dom | 2459182.75 |
| 31 | vie | 2459061.75 | | | | 20 | mar | 2459142.75 | 30 | lun | 2459183.75 |
| Agosto | | | Septiembre | | | Noviembre | | | Diciembre | | |
| 1 | sab | 2459062.75 | 1 | mar | 2459093.75 | 1 | dom | 2459154.75 | 1 | mar | 2459184.75 |
| 2 | dom | 2459063.75 | 2 | mie | 2459094.75 | 2 | lun | 2459155.75 | 2 | mie | 2459185.75 |
| 3 | lun | 2459064.75 | 3 | jue | 2459095.75 | 3 | mar | 2459156.75 | 3 | jue | 2459186.75 |
| 4 | mar | 2459065.75 | 4 | vie | 2459096.75 | 4 | mie | 2459157.75 | 4 | vie | 2459187.75 |
| 5 | mie | 2459066.75 | 5 | sab | 2459097.75 | 5 | jue | 2459158.75 | 5 | sab | 2459188.75 |
| 6 | jue | 2459067.75 | 6 | dom | 2459098.75 | 6 | vie | 2459159.75 | 6 | dom | 2459189.75 |
| 7 | vie | 2459068.75 | 7 | lun | 2459099.75 | 7 | sab | 2459160.75 | 7 | lun | 2459190.75 |
| 8 | sab | 2459069.75 | 8 | mar | 2459100.75 | 8 | dom | 2459161.75 | 8 | mar | 2459191.75 |
| 9 | dom | 2459070.75 | 9 | mie | 2459101.75 | 9 | lun | 2459162.75 | 9 | mie | 2459192.75 |
| 10 | lun | 2459071.75 | 10 | jue | 2459102.75 | 10 | mar | 2459163.75 | 10 | jue | 2459193.75 |
| 11 | mar | 2459072.75 | 11 | vie | 2459103.75 | 11 | mie | 2459164.75 | 11 | vie | 2459194.75 |
| 12 | mie | 2459073.75 | 12 | sab | 2459104.75 | 12 | jue | 2459165.75 | 12 | sab | 2459195.75 |
| 13 | jue | 2459074.75 | 13 | dom | 2459105.75 | 13 | vie | 2459166.75 | 13 | dom | 2459196.75 |
| 14 | vie | 2459075.75 | 14 | lun | 2459106.75 | 14 | sab | 2459167.75 | 14 | lun | 2459197.75 |
| 15 | sab | 2459076.75 | 15 | mar | 2459107.75 | 15 | dom | 2459168.75 | 15 | mar | 2459198.75 |
| 16 | dom | 2459077.75 | 16 | mie | 2459108.75 | 16 | lun | 2459169.75 | 16 | mie | 2459199.75 |
| 17 | lun | 2459078.75 | 17 | jue | 2459109.75 | 17 | mar | 2459170.75 | 17 | jue | 2459200.75 |
| 18 | mar | 2459079.75 | 18 | vie | 2459110.75 | 18 | mie | 2459171.75 | 18 | vie | 2459201.75 |
| 19 | mie | 2459080.75 | 19 | sab | 2459111.75 | 19 | jue | 2459172.75 | 19 | sab | 2459202.75 |
| 20 | jue | 2459081.75 | 20 | dom | 2459112.75 | 20 | vie | 2459173.75 | 20 | dom | 2459203.75 |
| 21 | vie | 2459082.75 | 21 | lun | 2459113.75 | | | | 21 | lun | 2459204.75 |
| 22 | sab | 2459083.75 | 22 | mar | 2459114.75 | | | | 22 | mar | 2459205.75 |
| 23 | dom | 2459084.75 | 23 | mie | 2459115.75 | | | | 23 | mie | 2459206.75 |
| 24 | lun | 2459085.75 | 24 | jue | 2459116.75 | | | | 24 | jue | 2459207.75 |
| 25 | mar | 2459086.75 | 25 | vie | 2459117.75 | | | | 25 | vie | 2459208.75 |
| 26 | mie | 2459087.75 | 26 | sab | 2459118.75 | | | | 26 | sab | 2459209.75 |
| 27 | jue | 2459088.75 | 27 | dom | 2459119.75 | | | | 27 | dom | 2459210.75 |
| 28 | vie | 2459089.75 | 28 | lun | 2459120.75 | | | | 28 | lun | 2459211.75 |
| 29 | sab | 2459090.75 | 29 | mar | 2459121.75 | | | | 29 | mar | 2459212.75 |
| 30 | dom | 2459091.75 | 30 | mie | 2459122.75 | | | | 30 | mier | 2459213.75 |
| 31 | lun | 2459092.75 | | | | | | | 31 | jue | 2459214.75 |
| | | | Octubre | | | | | | | | |
| | | | 1 | jue | 2459123.75 | | | | | | |
| | | | 2 | vie | 2459124.75 | | | | | | |
| | | | 3 | sab | 2459125.75 | | | | | | |
| | | | 4 | dom | 2459126.75 | | | | | | |
| | | | 5 | lun | 2459127.75 | | | | | | |
| | | | 6 | mar | 2459128.75 | | | | | | |
| | | | 7 | mie | 2459129.75 | | | | | | |
| | | | 8 | jue | 2459130.75 | | | | | | |
| | | | 9 | vie | 2459131.75 | | | | | | |
| | | | 10 | sab | 2459132.75 | | | | | | |

Eras y ciclos cronológicos: 2020

Calendario Gregoriano

Cómputo

| | |
|--------------------------------------|-----|
| Letra Dominical | ED |
| Epacta. | 5 |
| Ciclo lunar (Número de Oro). | VII |
| Indicción Romana. | 13 |
| Ciclo solar | 13 |

Eras

El año 2020, es el vigésimo del siglo XXI de la Era Cristiana.

El 14 de enero del año 2020, corresponde al 1 de enero del año 6733 del Período Juliano.

El 1 de enero del año 2020 del Calendario Juliano, corresponde al 14 de enero.

El año 2020 corresponde al 2795 de las olimpiadas.

| Año | Era | Inicia |
|------|-----------|---------------|
| 2773 | Romana | enero 14 |
| 2680 | Japonesa | enero 1 |
| 5781 | Judía | septiembre 18 |
| 2332 | Griega | septiembre 14 |
| 1442 | Hégira | agosto 19 |
| 7529 | Bizantina | septiembre 14 |
| | China | enero 25 |

Fiestas y aniversarios para el año 2020

| | |
|--|----------------------------|
| Año Nuevo | miércoles 1 de enero |
| Epifanía | lunes 6 de enero |
| Proclamación de la Constitución de 1917 | miércoles 5 de febrero |
| Septuagésima | domingo 9 de febrero |
| Quincuagésima | domingo 23 de febrero |
| Diza de la Bandera | lunes 24 de febrero |
| Carnaval | martes 25 de febrero |
| Miércoles de ceniza | miércoles 26 de febrero |
| Aniversario del Natalicio de Benito Juárez | sábado 21 de marzo |
| Domingo de Ramos | domingo 5 de abril |
| Viernes Santo | viernes 10 de abril |
| Pascua | domingo 12 de abril |
| Día del Trabajo | viernes 1 de mayo |
| Aniversario de la Batalla de Puebla | martes 5 de mayo |
| Ascensión | jueves 21 de mayo |
| Pentecostés | domingo 31 de mayo |
| Trinidad | domingo 7 de junio |
| Corpus Cristi | jueves 11 de junio |
| Domingo de Corpus | domingo 14 de junio |
| San Pedro y San Pablo | lunes 29 de junio |
| Aniversario de la Muerte de Benito Juárez | sábado 18 de julio |
| Aniversario de la Muerte de Miguel Hidalgo | jueves 30 de julio |
| Año nuevo Islámico | jueves 20 de agosto |
| Aniversario de la Independencia de México | miércoles 16 de septiembre |
| Año nuevo Judío | sábado 19 de septiembre |
| Yom Kipur | lunes 28 de septiembre |
| Día de la Raza | lunes 12 de octubre |
| Conmemoración de los Difuntos | lunes 2 de noviembre |
| Aniversario de la Revolución Mexicana | viernes 20 de noviembre |
| Adviento | domingo 29 de noviembre |
| Navidad | viernes 25 de diciembre |

Estaciones del año, 2020

Hora del meridiano 90° W.G.

| mes | día | h | m | longitud $\lambda(^{\circ})$ | Constelación |
|-------------------------|----------|----------|----------|---------------------------------|--------------|
| <u>Invierno</u> | | | | | |
| Enero | 18 | 1 | 41 | 300 | Capricornio |
| Febrero | 18 | 7 | 41 | 330 | Acuario |
| <u>Primavera</u> | | | | | |
| Marzo | 19 | 21 | 50 | 0 | Piscis |
| Abril | 21 | 14 | 22 | 30 | Aries |
| Mayo | 22 | 11 | 55 | 60 | Tauro |
| <u>Verano</u> | | | | | |
| Junio | 20 | 15 | 44 | 90 | Géminis |
| Julio | 19 | 22 | 7 | 120 | Cáncer |
| Agosto | 20 | 3 | 26 | 150 | Leo |
| <u>Otoño</u> | | | | | |
| Septiembre | 22 | 7 | 31 | 180 | Virgo |
| Octubre | 24 | 21 | 32 | 210 | Libra |
| Noviembre | 23 | 16 | 16 | 240 | Escorpión |
| <u>Invierno</u> | | | | | |
| Diciembre | 21 | 4 | 2 | 270 | Sagitario |

Hora sidereal, 2020

A las 0^h del meridiano 90° W.G.

| d | dj | h | m | s | d | dj | h | m | s | d | dj | h | m | s |
|------------|------------|---|----|-------|------------|------------|----|----|-------|------------|------------|----|----|-------|
| Ene | | | | | 17 | 2458896.75 | 9 | 46 | 45.50 | 4 | 2458943.75 | 12 | 52 | 3.50 |
| 1 | 2458849.75 | 6 | 41 | 27.36 | 18 | 2458897.75 | 9 | 50 | 42.06 | 5 | 2458944.75 | 12 | 56 | 0.05 |
| 2 | 2458850.75 | 6 | 45 | 23.91 | 19 | 2458898.75 | 9 | 54 | 38.62 | 6 | 2458945.75 | 12 | 59 | 56.60 |
| 3 | 2458851.75 | 6 | 49 | 20.47 | 20 | 2458899.75 | 9 | 58 | 35.17 | 7 | 2458946.75 | 13 | 3 | 53.15 |
| 4 | 2458852.75 | 6 | 53 | 17.02 | 21 | 2458900.75 | 10 | 2 | 31.73 | 8 | 2458947.75 | 13 | 7 | 49.70 |
| 5 | 2458853.75 | 6 | 57 | 13.57 | 22 | 2458901.75 | 10 | 6 | 28.29 | 9 | 2458948.75 | 13 | 11 | 46.25 |
| 6 | 2458854.75 | 7 | 1 | 10.13 | 23 | 2458902.75 | 10 | 10 | 24.84 | 10 | 2458949.75 | 13 | 15 | 42.80 |
| 7 | 2458855.75 | 7 | 5 | 6.69 | 24 | 2458903.75 | 10 | 14 | 21.39 | 11 | 2458950.75 | 13 | 19 | 39.36 |
| 8 | 2458856.75 | 7 | 9 | 3.25 | 25 | 2458904.75 | 10 | 18 | 17.94 | 12 | 2458951.75 | 13 | 23 | 35.91 |
| 9 | 2458857.75 | 7 | 12 | 59.81 | 26 | 2458905.75 | 10 | 22 | 14.49 | 13 | 2458952.75 | 13 | 27 | 32.47 |
| 10 | 2458858.75 | 7 | 16 | 56.38 | 27 | 2458906.75 | 10 | 26 | 11.03 | 14 | 2458953.75 | 13 | 31 | 29.03 |
| 11 | 2458859.75 | 7 | 20 | 52.94 | 28 | 2458907.75 | 10 | 30 | 7.58 | 15 | 2458954.75 | 13 | 35 | 25.60 |
| 12 | 2458860.75 | 7 | 24 | 49.50 | 29 | 2458908.75 | 10 | 34 | 4.13 | 16 | 2458955.75 | 13 | 39 | 22.15 |
| 13 | 2458861.75 | 7 | 28 | 46.06 | Mar | | | | | 17 | 2458956.75 | 13 | 43 | 18.70 |
| 14 | 2458862.75 | 7 | 32 | 42.62 | 1 | 2458909.75 | 10 | 38 | 0.68 | 18 | 2458957.75 | 13 | 47 | 15.26 |
| 15 | 2458863.75 | 7 | 36 | 39.17 | 2 | 2458910.75 | 10 | 41 | 57.24 | 19 | 2458958.75 | 13 | 51 | 11.81 |
| 16 | 2458864.75 | 7 | 40 | 35.72 | 3 | 2458911.75 | 10 | 45 | 53.80 | 20 | 2458959.75 | 13 | 55 | 8.35 |
| 17 | 2458865.75 | 7 | 44 | 32.27 | 4 | 2458912.75 | 10 | 49 | 50.35 | 21 | 2458960.75 | 13 | 59 | 4.89 |
| 18 | 2458866.75 | 7 | 48 | 28.83 | 5 | 2458913.75 | 10 | 53 | 46.91 | 22 | 2458961.75 | 14 | 3 | 1.44 |
| 19 | 2458867.75 | 7 | 52 | 25.38 | 6 | 2458914.75 | 10 | 57 | 43.47 | 23 | 2458962.75 | 14 | 6 | 57.99 |
| 20 | 2458868.75 | 7 | 56 | 21.94 | 7 | 2458915.75 | 11 | 1 | 40.03 | 24 | 2458963.75 | 14 | 10 | 54.55 |
| 21 | 2458869.75 | 8 | 0 | 18.50 | 8 | 2458916.75 | 11 | 5 | 36.58 | 25 | 2458964.75 | 14 | 14 | 51.11 |
| 22 | 2458870.75 | 8 | 4 | 15.06 | 9 | 2458917.75 | 11 | 9 | 33.13 | 26 | 2458965.75 | 14 | 18 | 47.66 |
| 23 | 2458871.75 | 8 | 8 | 11.63 | 10 | 2458918.75 | 11 | 13 | 29.68 | 27 | 2458966.75 | 14 | 22 | 44.22 |
| 24 | 2458872.75 | 8 | 12 | 8.19 | 11 | 2458919.75 | 11 | 17 | 26.23 | 28 | 2458967.75 | 14 | 26 | 40.77 |
| 25 | 2458873.75 | 8 | 16 | 4.74 | 12 | 2458920.75 | 11 | 21 | 22.78 | 29 | 2458968.75 | 14 | 30 | 37.34 |
| 26 | 2458874.75 | 8 | 20 | 1.30 | 13 | 2458921.75 | 11 | 25 | 19.32 | 30 | 2458969.75 | 14 | 34 | 33.90 |
| 27 | 2458875.75 | 8 | 23 | 57.86 | 14 | 2458922.75 | 11 | 29 | 15.88 | May | | | | |
| 28 | 2458876.75 | 8 | 27 | 54.41 | 15 | 2458923.75 | 11 | 33 | 12.43 | 1 | 2458970.75 | 14 | 38 | 30.46 |
| 29 | 2458877.75 | 8 | 31 | 50.96 | 16 | 2458924.75 | 11 | 37 | 8.99 | 2 | 2458971.75 | 14 | 42 | 27.01 |
| 30 | 2458878.75 | 8 | 35 | 47.51 | 17 | 2458925.75 | 11 | 41 | 5.55 | 3 | 2458972.75 | 14 | 46 | 23.57 |
| 31 | 2458879.75 | 8 | 39 | 44.06 | 18 | 2458926.75 | 11 | 45 | 2.11 | 4 | 2458973.75 | 14 | 50 | 20.12 |
| Feb | | | | | 19 | 2458927.75 | 11 | 48 | 58.67 | 5 | 2458974.75 | 14 | 54 | 16.66 |
| 1 | 2458880.75 | 8 | 43 | 40.61 | 20 | 2458928.75 | 11 | 52 | 55.21 | 6 | 2458975.75 | 14 | 58 | 13.21 |
| 2 | 2458881.75 | 8 | 47 | 37.16 | 21 | 2458929.75 | 11 | 56 | 51.77 | 7 | 2458976.75 | 15 | 2 | 9.76 |
| 3 | 2458882.75 | 8 | 51 | 33.72 | 22 | 2458930.75 | 12 | 0 | 48.32 | 8 | 2458977.75 | 15 | 6 | 6.32 |
| 4 | 2458883.75 | 8 | 55 | 30.28 | 23 | 2458931.75 | 12 | 4 | 44.87 | 9 | 2458978.75 | 15 | 10 | 2.89 |
| 5 | 2458884.75 | 8 | 59 | 26.83 | 24 | 2458932.75 | 12 | 8 | 41.41 | 10 | 2458979.75 | 15 | 13 | 59.45 |
| 6 | 2458885.75 | 9 | 3 | 23.40 | 25 | 2458933.75 | 12 | 12 | 37.96 | 11 | 2458980.75 | 15 | 17 | 56.01 |
| 7 | 2458886.75 | 9 | 7 | 19.96 | 26 | 2458934.75 | 12 | 16 | 34.51 | 12 | 2458981.75 | 15 | 21 | 52.57 |
| 8 | 2458887.75 | 9 | 11 | 16.52 | 27 | 2458935.75 | 12 | 20 | 31.06 | 13 | 2458982.75 | 15 | 25 | 49.13 |
| 9 | 2458888.75 | 9 | 15 | 13.08 | 28 | 2458936.75 | 12 | 24 | 27.60 | 14 | 2458983.75 | 15 | 29 | 45.69 |
| 10 | 2458889.75 | 9 | 19 | 9.64 | 29 | 2458937.75 | 12 | 28 | 24.16 | 15 | 2458984.75 | 15 | 33 | 42.24 |
| 11 | 2458890.75 | 9 | 23 | 6.18 | 30 | 2458938.75 | 12 | 32 | 20.72 | 16 | 2458985.75 | 15 | 37 | 38.79 |
| 12 | 2458891.75 | 9 | 27 | 2.73 | 31 | 2458939.75 | 12 | 36 | 17.27 | 17 | 2458986.75 | 15 | 41 | 35.34 |
| 13 | 2458892.75 | 9 | 30 | 59.28 | Abr | | | | | 18 | 2458987.75 | 15 | 45 | 31.89 |
| 14 | 2458893.75 | 9 | 34 | 55.83 | 1 | 2458940.75 | 12 | 40 | 13.83 | 19 | 2458988.75 | 15 | 49 | 28.45 |
| 15 | 2458894.75 | 9 | 38 | 52.39 | 2 | 2458941.75 | 12 | 44 | 10.39 | 20 | 2458989.75 | 15 | 53 | 24.99 |
| 16 | 2458895.75 | 9 | 42 | 48.94 | 3 | 2458942.75 | 12 | 48 | 6.95 | 21 | 2458990.75 | 15 | 57 | 21.55 |
| | | | | | | | | | | 22 | 2458991.75 | 16 | 1 | 18.10 |

Hora sidereal, 2020

A las 0^h del meridiano 90° W.G.

| d | dj | h | m | s | d | dj | h | m | s | d | dj | h | m | s |
|------------|------------|----|----|-------|------------|------------|----|----|-------|------------|------------|----|----|-------|
| 23 | 2458992.75 | 16 | 5 | 14.66 | 9 | 2459039.75 | 19 | 10 | 32.90 | 27 | 2459088.75 | 22 | 23 | 44.11 |
| 24 | 2458993.75 | 16 | 9 | 11.22 | 10 | 2459040.75 | 19 | 14 | 29.45 | 28 | 2459089.75 | 22 | 27 | 40.67 |
| 25 | 2458994.75 | 16 | 13 | 7.79 | 11 | 2459041.75 | 19 | 18 | 26.00 | 29 | 2459090.75 | 22 | 31 | 37.23 |
| 26 | 2458995.75 | 16 | 17 | 4.36 | 12 | 2459042.75 | 19 | 22 | 22.55 | 30 | 2459091.75 | 22 | 35 | 33.79 |
| 27 | 2458996.75 | 16 | 21 | 0.92 | 13 | 2459043.75 | 19 | 26 | 19.11 | 31 | 2459092.75 | 22 | 39 | 30.34 |
| 28 | 2458997.75 | 16 | 24 | 57.47 | 14 | 2459044.75 | 19 | 30 | 15.66 | Sep | | | | |
| 29 | 2458998.75 | 16 | 28 | 54.03 | 15 | 2459045.75 | 19 | 34 | 12.21 | 1 | 2459093.75 | 22 | 43 | 26.89 |
| 30 | 2458999.75 | 16 | 32 | 50.59 | 16 | 2459046.75 | 19 | 38 | 8.77 | 2 | 2459094.75 | 22 | 47 | 23.44 |
| 31 | 2459000.75 | 16 | 36 | 47.14 | 17 | 2459047.75 | 19 | 42 | 5.33 | 3 | 2459095.75 | 22 | 51 | 19.99 |
| Jun | | | | | 18 | 2459048.75 | 19 | 46 | 1.89 | 4 | 2459096.75 | 22 | 55 | 16.54 |
| 1 | 2459001.75 | 16 | 40 | 43.69 | 19 | 2459049.75 | 19 | 49 | 58.45 | 5 | 2459097.75 | 22 | 59 | 13.08 |
| 2 | 2459002.75 | 16 | 44 | 40.24 | 20 | 2459050.75 | 19 | 53 | 55.02 | 6 | 2459098.75 | 23 | 3 | 9.63 |
| 3 | 2459003.75 | 16 | 48 | 36.79 | 21 | 2459051.75 | 19 | 57 | 51.58 | 7 | 2459099.75 | 23 | 7 | 6.18 |
| 4 | 2459004.75 | 16 | 52 | 33.35 | 22 | 2459052.75 | 20 | 1 | 48.14 | 8 | 2459100.75 | 23 | 11 | 2.73 |
| 5 | 2459005.75 | 16 | 56 | 29.91 | 23 | 2459053.75 | 20 | 5 | 44.69 | 9 | 2459101.75 | 23 | 14 | 59.29 |
| 6 | 2459006.75 | 17 | 0 | 26.47 | 24 | 2459054.75 | 20 | 9 | 41.25 | 10 | 2459102.75 | 23 | 18 | 55.84 |
| 7 | 2459007.75 | 17 | 4 | 23.04 | 25 | 2459055.75 | 20 | 13 | 37.80 | 11 | 2459103.75 | 23 | 22 | 52.40 |
| 8 | 2459008.75 | 17 | 8 | 19.61 | 26 | 2459056.75 | 20 | 17 | 34.35 | 12 | 2459104.75 | 23 | 26 | 48.96 |
| 9 | 2459009.75 | 17 | 12 | 16.17 | 27 | 2459057.75 | 20 | 21 | 30.90 | 13 | 2459105.75 | 23 | 30 | 45.52 |
| 10 | 2459010.75 | 17 | 16 | 12.73 | 28 | 2459058.75 | 20 | 25 | 27.45 | 14 | 2459106.75 | 23 | 34 | 42.08 |
| 11 | 2459011.75 | 17 | 20 | 9.29 | 29 | 2459059.75 | 20 | 29 | 24.01 | 15 | 2459107.75 | 23 | 38 | 38.63 |
| 12 | 2459012.75 | 17 | 24 | 5.84 | 30 | 2459060.75 | 20 | 33 | 20.57 | 16 | 2459108.75 | 23 | 42 | 35.18 |
| 13 | 2459013.75 | 17 | 28 | 2.39 | 31 | 2459061.75 | 20 | 37 | 17.13 | 17 | 2459109.75 | 23 | 46 | 31.73 |
| 14 | 2459014.75 | 17 | 31 | 58.94 | Ago | | | | | 18 | 2459110.75 | 23 | 50 | 28.28 |
| 15 | 2459015.75 | 17 | 35 | 55.49 | 1 | 2459062.75 | 20 | 41 | 13.69 | 19 | 2459111.75 | 23 | 54 | 24.82 |
| 16 | 2459016.75 | 17 | 39 | 52.05 | 2 | 2459063.75 | 20 | 45 | 10.26 | 20 | 2459112.75 | 23 | 58 | 21.37 |
| 17 | 2459017.75 | 17 | 43 | 48.60 | 3 | 2459064.75 | 20 | 49 | 6.82 | 21 | 2459113.75 | 0 | 2 | 17.93 |
| 18 | 2459018.75 | 17 | 47 | 45.16 | 4 | 2459065.75 | 20 | 53 | 3.37 | 22 | 2459114.75 | 0 | 6 | 14.48 |
| 19 | 2459019.75 | 17 | 51 | 41.72 | 5 | 2459066.75 | 20 | 56 | 59.93 | 23 | 2459115.75 | 0 | 10 | 11.04 |
| 20 | 2459020.75 | 17 | 55 | 38.27 | 6 | 2459067.75 | 21 | 0 | 56.48 | 24 | 2459116.75 | 0 | 14 | 7.60 |
| 21 | 2459021.75 | 17 | 59 | 34.84 | 7 | 2459068.75 | 21 | 4 | 53.03 | 25 | 2459117.75 | 0 | 18 | 4.16 |
| 22 | 2459022.75 | 18 | 3 | 31.40 | 8 | 2459069.75 | 21 | 8 | 49.57 | 26 | 2459118.75 | 0 | 22 | 0.72 |
| 23 | 2459023.75 | 18 | 7 | 27.97 | 9 | 2459070.75 | 21 | 12 | 46.12 | 27 | 2459119.75 | 0 | 25 | 57.27 |
| 24 | 2459024.75 | 18 | 11 | 24.53 | 10 | 2459071.75 | 21 | 16 | 42.67 | 28 | 2459120.75 | 0 | 29 | 53.82 |
| 25 | 2459025.75 | 18 | 15 | 21.09 | 11 | 2459072.75 | 21 | 20 | 39.23 | 29 | 2459121.75 | 0 | 33 | 50.37 |
| 26 | 2459026.75 | 18 | 19 | 17.65 | 12 | 2459073.75 | 21 | 24 | 35.78 | 30 | 2459122.75 | 0 | 37 | 46.92 |
| 27 | 2459027.75 | 18 | 23 | 14.20 | 13 | 2459074.75 | 21 | 28 | 32.34 | Oct | | | | |
| 28 | 2459028.75 | 18 | 27 | 10.75 | 14 | 2459075.75 | 21 | 32 | 28.90 | 1 | 2459123.75 | 0 | 41 | 43.47 |
| 29 | 2459029.75 | 18 | 31 | 7.30 | 15 | 2459076.75 | 21 | 36 | 25.46 | 2 | 2459124.75 | 0 | 45 | 40.01 |
| 30 | 2459030.75 | 18 | 35 | 3.85 | 16 | 2459077.75 | 21 | 40 | 22.02 | 3 | 2459125.75 | 0 | 49 | 36.56 |
| Jul | | | | | 17 | 2459078.75 | 21 | 44 | 18.58 | 4 | 2459126.75 | 0 | 53 | 33.11 |
| 1 | 2459031.75 | 18 | 39 | 0.41 | 18 | 2459079.75 | 21 | 48 | 15.14 | 5 | 2459127.75 | 0 | 57 | 29.66 |
| 2 | 2459032.75 | 18 | 42 | 56.97 | 19 | 2459080.75 | 21 | 52 | 11.69 | 6 | 2459128.75 | 1 | 1 | 26.21 |
| 3 | 2459033.75 | 18 | 46 | 53.53 | 20 | 2459081.75 | 21 | 56 | 8.24 | 7 | 2459129.75 | 1 | 5 | 22.77 |
| 4 | 2459034.75 | 18 | 50 | 50.10 | 21 | 2459082.75 | 22 | 0 | 4.79 | 8 | 2459130.75 | 1 | 9 | 19.33 |
| 5 | 2459035.75 | 18 | 54 | 46.66 | 22 | 2459083.75 | 22 | 4 | 1.34 | 9 | 2459131.75 | 1 | 13 | 15.88 |
| 6 | 2459036.75 | 18 | 58 | 43.23 | 23 | 2459084.75 | 22 | 7 | 57.89 | 10 | 2459132.75 | 1 | 17 | 12.44 |
| 7 | 2459037.75 | 19 | 2 | 39.79 | 24 | 2459085.75 | 22 | 11 | 54.44 | 11 | 2459133.75 | 1 | 21 | 9.00 |
| 8 | 2459038.75 | 19 | 6 | 36.34 | 25 | 2459086.75 | 22 | 15 | 50.99 | 12 | 2459134.75 | 1 | 25 | 5.56 |
| | | | | | 26 | 2459087.75 | 22 | 19 | 47.55 | | | | | |

Hora sideral, 2020

A las 0^h del meridiano 90° W.G.

| d | dj | h | m | s | d | dj | h | m | s | d | dj | h | m | s |
|------------|------------|---|----|-------|------------|------------|---|----|-------|------------|------------|---|----|-------|
| 13 | 2459135.75 | 1 | 29 | 2.11 | 10 | 2459163.75 | 3 | 19 | 25.64 | 8 | 2459191.75 | 5 | 9 | 49.24 |
| 14 | 2459136.75 | 1 | 32 | 58.66 | 11 | 2459164.75 | 3 | 23 | 22.19 | 9 | 2459192.75 | 5 | 13 | 45.79 |
| 15 | 2459137.75 | 1 | 36 | 55.21 | 12 | 2459165.75 | 3 | 27 | 18.74 | 10 | 2459193.75 | 5 | 17 | 42.34 |
| 16 | 2459138.75 | 1 | 40 | 51.76 | 13 | 2459166.75 | 3 | 31 | 15.29 | 11 | 2459194.75 | 5 | 21 | 38.89 |
| 17 | 2459139.75 | 1 | 44 | 48.30 | 14 | 2459167.75 | 3 | 35 | 11.84 | 12 | 2459195.75 | 5 | 25 | 35.45 |
| 18 | 2459140.75 | 1 | 48 | 44.85 | 15 | 2459168.75 | 3 | 39 | 8.40 | 13 | 2459196.75 | 5 | 29 | 32.01 |
| 19 | 2459141.75 | 1 | 52 | 41.41 | 16 | 2459169.75 | 3 | 43 | 4.96 | 14 | 2459197.75 | 5 | 33 | 28.58 |
| 20 | 2459142.75 | 1 | 56 | 37.97 | 17 | 2459170.75 | 3 | 47 | 1.52 | 15 | 2459198.75 | 5 | 37 | 25.15 |
| 21 | 2459143.75 | 2 | 0 | 34.53 | 18 | 2459171.75 | 3 | 50 | 58.09 | 16 | 2459199.75 | 5 | 41 | 21.71 |
| 22 | 2459144.75 | 2 | 4 | 31.09 | 19 | 2459172.75 | 3 | 54 | 54.65 | 17 | 2459200.75 | 5 | 45 | 18.28 |
| 23 | 2459145.75 | 2 | 8 | 27.66 | 20 | 2459173.75 | 3 | 58 | 51.22 | 18 | 2459201.75 | 5 | 49 | 14.84 |
| 24 | 2459146.75 | 2 | 12 | 24.21 | 21 | 2459174.75 | 4 | 2 | 47.77 | 19 | 2459202.75 | 5 | 53 | 11.40 |
| 25 | 2459147.75 | 2 | 16 | 20.76 | 22 | 2459175.75 | 4 | 6 | 44.33 | 20 | 2459203.75 | 5 | 57 | 7.95 |
| 26 | 2459148.75 | 2 | 20 | 17.32 | 23 | 2459176.75 | 4 | 10 | 40.88 | 21 | 2459204.75 | 6 | 1 | 4.51 |
| 27 | 2459149.75 | 2 | 24 | 13.87 | 24 | 2459177.75 | 4 | 14 | 37.43 | 22 | 2459205.75 | 6 | 5 | 1.06 |
| 28 | 2459150.75 | 2 | 28 | 10.42 | 25 | 2459178.75 | 4 | 18 | 33.98 | 23 | 2459206.75 | 6 | 8 | 57.61 |
| 29 | 2459151.75 | 2 | 32 | 6.96 | 26 | 2459179.75 | 4 | 22 | 30.53 | 24 | 2459207.75 | 6 | 12 | 54.16 |
| 30 | 2459152.75 | 2 | 36 | 3.51 | 27 | 2459180.75 | 4 | 26 | 27.09 | 25 | 2459208.75 | 6 | 16 | 50.72 |
| 31 | 2459153.75 | 2 | 40 | 0.07 | 28 | 2459181.75 | 4 | 30 | 23.64 | 26 | 2459209.75 | 6 | 20 | 47.27 |
| Nov | | | | | 29 | 2459182.75 | 4 | 34 | 20.20 | 27 | 2459210.75 | 6 | 24 | 43.83 |
| 1 | 2459154.75 | 2 | 43 | 56.62 | 30 | 2459183.75 | 4 | 38 | 16.76 | 28 | 2459211.75 | 6 | 28 | 40.40 |
| 2 | 2459155.75 | 2 | 47 | 53.17 | Dic | | | | | 29 | 2459212.75 | 6 | 32 | 36.96 |
| 3 | 2459156.75 | 2 | 51 | 49.73 | 1 | 2459184.75 | 4 | 42 | 13.32 | 30 | 2459213.75 | 6 | 36 | 33.52 |
| 4 | 2459157.75 | 2 | 55 | 46.29 | 2 | 2459185.75 | 4 | 46 | 9.88 | 31 | 2459214.75 | 6 | 40 | 30.09 |
| 5 | 2459158.75 | 2 | 59 | 42.85 | 3 | 2459186.75 | 4 | 50 | 6.44 | Ene | | | | |
| 6 | 2459159.75 | 3 | 3 | 39.41 | 4 | 2459187.75 | 4 | 54 | 3.01 | 1 | 2459215.75 | 6 | 44 | 26.65 |
| 7 | 2459160.75 | 3 | 7 | 35.97 | 5 | 2459188.75 | 4 | 57 | 59.57 | 2 | 2459216.75 | 6 | 48 | 23.21 |
| 8 | 2459161.75 | 3 | 11 | 32.53 | 6 | 2459189.75 | 5 | 1 | 56.13 | | | | | |
| 9 | 2459162.75 | 3 | 15 | 29.09 | 7 | 2459190.75 | 5 | 5 | 52.69 | | | | | |

Sol, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | a m | s | vh s | δ ° | “ | ” | dis UA | h | hp m | s | |
|-----|-----|------------|----|--------|-------|---------|--------|----|-------|-----------|---------|---------|----|------|
| ene | 1 | 2458849.75 | 18 | 44 | 39.61 | 11.0 | -23 | 2 | 21.98 | 12.3 | 0.98329 | 12 | 3 | 12.2 |
| ene | 2 | 2458850.75 | 18 | 49 | 4.52 | 11.0 | -22 | 57 | 25.62 | 13.5 | 0.98327 | 12 | 3 | 40.6 |
| ene | 3 | 2458851.75 | 18 | 53 | 29.09 | 11.0 | -22 | 52 | 1.78 | 14.6 | 0.98326 | 12 | 4 | 8.6 |
| ene | 4 | 2458852.75 | 18 | 57 | 53.28 | 11.0 | -22 | 46 | 10.61 | 15.8 | 0.98325 | 12 | 4 | 36.3 |
| ene | 5 | 2458853.75 | 19 | 2 | 17.06 | 11.0 | -22 | 39 | 52.30 | 16.9 | 0.98324 | 12 | 5 | 3.5 |
| ene | 6 | 2458854.75 | 19 | 6 | 40.40 | 11.0 | -22 | 33 | 7.04 | 18.0 | 0.98325 | 12 | 5 | 30.3 |
| ene | 7 | 2458855.75 | 19 | 11 | 3.28 | 10.9 | -22 | 25 | 55.03 | 19.1 | 0.98325 | 12 | 5 | 56.6 |
| ene | 8 | 2458856.75 | 19 | 15 | 25.66 | 10.9 | -22 | 18 | 16.52 | 20.2 | 0.98327 | 12 | 6 | 22.4 |
| ene | 9 | 2458857.75 | 19 | 19 | 47.54 | 10.9 | -22 | 10 | 11.71 | 21.3 | 0.98329 | 12 | 6 | 47.7 |
| ene | 10 | 2458858.75 | 19 | 24 | 8.89 | 10.9 | -22 | 1 | 40.88 | 22.4 | 0.98332 | 12 | 7 | 12.5 |
| ene | 11 | 2458859.75 | 19 | 28 | 29.67 | 10.8 | -21 | 52 | 44.26 | 23.4 | 0.98335 | 12 | 7 | 36.7 |
| ene | 12 | 2458860.75 | 19 | 32 | 49.89 | 10.8 | -21 | 43 | 22.11 | 24.5 | 0.98339 | 12 | 8 | 0.4 |
| ene | 13 | 2458861.75 | 19 | 37 | 9.50 | 10.8 | -21 | 33 | 34.69 | 25.5 | 0.98344 | 12 | 8 | 23.4 |
| ene | 14 | 2458862.75 | 19 | 41 | 28.51 | 10.8 | -21 | 23 | 22.26 | 26.5 | 0.98349 | 12 | 8 | 45.9 |
| ene | 15 | 2458863.75 | 19 | 45 | 46.88 | 10.7 | -21 | 12 | 45.09 | 27.6 | 0.98355 | 12 | 9 | 7.7 |
| ene | 16 | 2458864.75 | 19 | 50 | 4.62 | 10.7 | -21 | 1 | 43.46 | 28.6 | 0.98361 | 12 | 9 | 28.9 |
| ene | 17 | 2458865.75 | 19 | 54 | 21.70 | 10.7 | -20 | 50 | 17.66 | 29.6 | 0.98369 | 12 | 9 | 49.4 |
| ene | 18 | 2458866.75 | 19 | 58 | 38.11 | 10.7 | -20 | 38 | 27.99 | 30.6 | 0.98376 | 12 | 10 | 9.3 |
| ene | 19 | 2458867.75 | 20 | 2 | 53.83 | 10.6 | -20 | 26 | 14.79 | 31.5 | 0.98384 | 12 | 10 | 28.4 |
| ene | 20 | 2458868.75 | 20 | 7 | 8.85 | 10.6 | -20 | 13 | 38.38 | 32.5 | 0.98393 | 12 | 10 | 46.9 |
| ene | 21 | 2458869.75 | 20 | 11 | 23.15 | 10.6 | -20 | 0 | 39.12 | 33.4 | 0.98401 | 12 | 11 | 4.6 |
| ene | 22 | 2458870.75 | 20 | 15 | 36.71 | 10.5 | -19 | 47 | 17.35 | 34.3 | 0.98411 | 12 | 11 | 21.6 |
| ene | 23 | 2458871.75 | 20 | 19 | 49.51 | 10.5 | -19 | 33 | 33.45 | 35.2 | 0.98420 | 12 | 11 | 37.9 |
| ene | 24 | 2458872.75 | 20 | 24 | 1.55 | 10.5 | -19 | 19 | 27.78 | 36.1 | 0.98430 | 12 | 11 | 53.4 |
| ene | 25 | 2458873.75 | 20 | 28 | 12.81 | 10.4 | -19 | 5 | 0.71 | 37.0 | 0.98441 | 12 | 12 | 8.1 |
| ene | 26 | 2458874.75 | 20 | 32 | 23.26 | 10.4 | -18 | 50 | 12.63 | 37.9 | 0.98451 | 12 | 12 | 22.0 |
| ene | 27 | 2458875.75 | 20 | 36 | 32.91 | 10.4 | -18 | 35 | 3.91 | 38.7 | 0.98462 | 12 | 12 | 35.1 |
| ene | 28 | 2458876.75 | 20 | 40 | 41.75 | 10.3 | -18 | 19 | 34.94 | 39.5 | 0.98474 | 12 | 12 | 47.3 |
| ene | 29 | 2458877.75 | 20 | 44 | 49.76 | 10.3 | -18 | 3 | 46.13 | 40.3 | 0.98486 | 12 | 12 | 58.8 |
| ene | 30 | 2458878.75 | 20 | 48 | 56.94 | 10.3 | -17 | 47 | 37.85 | 41.1 | 0.98498 | 12 | 13 | 9.4 |
| ene | 31 | 2458879.75 | 20 | 53 | 3.29 | 10.2 | -17 | 31 | 10.53 | 41.9 | 0.98510 | 12 | 13 | 19.2 |
| feb | 1 | 2458880.75 | 20 | 57 | 8.81 | 10.2 | -17 | 14 | 24.56 | 42.7 | 0.98523 | 12 | 13 | 28.2 |
| feb | 2 | 2458881.75 | 21 | 1 | 13.50 | 10.2 | -16 | 57 | 20.36 | 43.4 | 0.98537 | 12 | 13 | 36.3 |
| feb | 3 | 2458882.75 | 21 | 5 | 17.35 | 10.1 | -16 | 39 | 58.35 | 44.1 | 0.98550 | 12 | 13 | 43.6 |
| feb | 4 | 2458883.75 | 21 | 9 | 20.37 | 10.1 | -16 | 22 | 18.93 | 44.8 | 0.98565 | 12 | 13 | 50.1 |
| feb | 5 | 2458884.75 | 21 | 13 | 22.57 | 10.1 | -16 | 4 | 22.54 | 45.5 | 0.98579 | 12 | 13 | 55.7 |
| feb | 6 | 2458885.75 | 21 | 17 | 23.94 | 10.0 | -15 | 46 | 9.59 | 46.2 | 0.98595 | 12 | 14 | 0.5 |
| feb | 7 | 2458886.75 | 21 | 21 | 24.49 | 10.0 | -15 | 27 | 40.51 | 46.9 | 0.98611 | 12 | 14 | 4.5 |
| feb | 8 | 2458887.75 | 21 | 25 | 24.24 | 10.0 | -15 | 8 | 55.71 | 47.5 | 0.98627 | 12 | 14 | 7.7 |
| feb | 9 | 2458888.75 | 21 | 29 | 23.18 | 9.9 | -14 | 49 | 55.60 | 48.1 | 0.98644 | 12 | 14 | 10.1 |
| feb | 10 | 2458889.75 | 21 | 33 | 21.33 | 9.9 | -14 | 30 | 40.57 | 48.7 | 0.98661 | 12 | 14 | 11.7 |
| feb | 11 | 2458890.75 | 21 | 37 | 18.71 | 9.9 | -14 | 11 | 11.01 | 49.3 | 0.98680 | 12 | 14 | 12.5 |
| feb | 12 | 2458891.75 | 21 | 41 | 15.32 | 9.8 | -13 | 51 | 27.30 | 49.9 | 0.98698 | 12 | 14 | 12.6 |
| feb | 13 | 2458892.75 | 21 | 45 | 11.19 | 9.8 | -13 | 31 | 29.82 | 50.5 | 0.98717 | 12 | 14 | 11.9 |
| feb | 14 | 2458893.75 | 21 | 49 | 6.32 | 9.8 | -13 | 11 | 18.97 | 51.0 | 0.98737 | 12 | 14 | 10.5 |
| feb | 15 | 2458894.75 | 21 | 53 | 0.74 | 9.7 | -12 | 50 | 55.14 | 51.5 | 0.98757 | 12 | 14 | 8.4 |

Sol, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α | | vh s | ° | δ | " | vh " | dis UA | hp | | |
|-----|-----|------------|----|----------|-------|---------|-----|----------|-------|---------|-----------|----|----|------|
| | | | | m | s | | | | | | | h | m | s |
| feb | 16 | 2458895.75 | 21 | 56 | 54.45 | 9.7 | -12 | 30 | 18.74 | 52.0 | 0.98777 | 12 | 14 | 5.5 |
| feb | 17 | 2458896.75 | 22 | 0 | 47.47 | 9.7 | -12 | 9 | 30.18 | 52.5 | 0.98798 | 12 | 14 | 2.0 |
| feb | 18 | 2458897.75 | 22 | 4 | 39.80 | 9.7 | -11 | 48 | 29.90 | 53.0 | 0.98819 | 12 | 13 | 57.7 |
| feb | 19 | 2458898.75 | 22 | 8 | 31.46 | 9.6 | -11 | 27 | 18.31 | 53.4 | 0.98841 | 12 | 13 | 52.8 |
| feb | 20 | 2458899.75 | 22 | 12 | 22.45 | 9.6 | -11 | 5 | 55.84 | 53.9 | 0.98862 | 12 | 13 | 47.3 |
| feb | 21 | 2458900.75 | 22 | 16 | 12.79 | 9.6 | -10 | 44 | 22.90 | 54.3 | 0.98884 | 12 | 13 | 41.1 |
| feb | 22 | 2458901.75 | 22 | 20 | 2.48 | 9.5 | -10 | 22 | 39.93 | 54.7 | 0.98906 | 12 | 13 | 34.2 |
| feb | 23 | 2458902.75 | 22 | 23 | 51.54 | 9.5 | -10 | 0 | 47.34 | 55.1 | 0.98928 | 12 | 13 | 26.7 |
| feb | 24 | 2458903.75 | 22 | 27 | 39.97 | 9.5 | -9 | 38 | 45.56 | 55.4 | 0.98951 | 12 | 13 | 18.6 |
| feb | 25 | 2458904.75 | 22 | 31 | 27.80 | 9.5 | -9 | 16 | 35.00 | 55.8 | 0.98974 | 12 | 13 | 9.9 |
| feb | 26 | 2458905.75 | 22 | 35 | 15.04 | 9.4 | -8 | 54 | 16.07 | 56.1 | 0.98997 | 12 | 13 | 0.6 |
| feb | 27 | 2458906.75 | 22 | 39 | 1.69 | 9.4 | -8 | 31 | 49.20 | 56.4 | 0.99020 | 12 | 12 | 50.7 |
| feb | 28 | 2458907.75 | 22 | 42 | 47.79 | 9.4 | -8 | 9 | 14.81 | 56.7 | 0.99043 | 12 | 12 | 40.2 |
| feb | 29 | 2458908.75 | 22 | 46 | 33.34 | 9.4 | -7 | 46 | 33.29 | 57.0 | 0.99066 | 12 | 12 | 29.2 |
| mar | 1 | 2458909.75 | 22 | 50 | 18.35 | 9.4 | -7 | 23 | 45.07 | 57.3 | 0.99090 | 12 | 12 | 17.7 |
| mar | 2 | 2458910.75 | 22 | 54 | 2.86 | 9.3 | -7 | 0 | 50.55 | 57.5 | 0.99114 | 12 | 12 | 5.6 |
| mar | 3 | 2458911.75 | 22 | 57 | 46.87 | 9.3 | -6 | 37 | 50.16 | 57.7 | 0.99138 | 12 | 11 | 53.1 |
| mar | 4 | 2458912.75 | 23 | 1 | 30.40 | 9.3 | -6 | 14 | 44.28 | 58.0 | 0.99163 | 12 | 11 | 40.1 |
| mar | 5 | 2458913.75 | 23 | 5 | 13.48 | 9.3 | -5 | 51 | 33.33 | 58.2 | 0.99187 | 12 | 11 | 26.6 |
| mar | 6 | 2458914.75 | 23 | 8 | 56.11 | 9.3 | -5 | 28 | 17.72 | 58.3 | 0.99212 | 12 | 11 | 12.6 |
| mar | 7 | 2458915.75 | 23 | 12 | 38.33 | 9.2 | -5 | 4 | 57.82 | 58.5 | 0.99238 | 12 | 10 | 58.3 |
| mar | 8 | 2458916.75 | 23 | 16 | 20.14 | 9.2 | -4 | 41 | 34.02 | 58.6 | 0.99263 | 12 | 10 | 43.6 |
| mar | 9 | 2458917.75 | 23 | 20 | 1.58 | 9.2 | -4 | 18 | 6.68 | 58.8 | 0.99289 | 12 | 10 | 28.4 |
| mar | 10 | 2458918.75 | 23 | 23 | 42.67 | 9.2 | -3 | 54 | 36.16 | 58.9 | 0.99316 | 12 | 10 | 13.0 |
| mar | 11 | 2458919.75 | 23 | 27 | 23.44 | 9.2 | -3 | 31 | 2.79 | 59.0 | 0.99343 | 12 | 9 | 57.2 |
| mar | 12 | 2458920.75 | 23 | 31 | 3.91 | 9.2 | -3 | 7 | 26.89 | 59.1 | 0.99370 | 12 | 9 | 41.1 |
| mar | 13 | 2458921.75 | 23 | 34 | 44.12 | 9.2 | -2 | 43 | 48.81 | 59.2 | 0.99397 | 12 | 9 | 24.8 |
| mar | 14 | 2458922.75 | 23 | 38 | 24.07 | 9.2 | -2 | 20 | 8.90 | 59.2 | 0.99425 | 12 | 9 | 8.2 |
| mar | 15 | 2458923.75 | 23 | 42 | 3.81 | 9.1 | -1 | 56 | 27.50 | 59.3 | 0.99453 | 12 | 8 | 51.4 |
| mar | 16 | 2458924.75 | 23 | 45 | 43.34 | 9.1 | -1 | 32 | 44.98 | 59.3 | 0.99481 | 12 | 8 | 34.4 |
| mar | 17 | 2458925.75 | 23 | 49 | 22.69 | 9.1 | -1 | 9 | 1.72 | 59.3 | 0.99509 | 12 | 8 | 17.1 |
| mar | 18 | 2458926.75 | 23 | 53 | 1.88 | 9.1 | -0 | 45 | 18.09 | 59.3 | 0.99537 | 12 | 7 | 59.8 |
| mar | 19 | 2458927.75 | 23 | 56 | 40.91 | 9.1 | -0 | 21 | 34.47 | 59.3 | 0.99566 | 12 | 7 | 42.2 |
| mar | 20 | 2458928.75 | 0 | 0 | 19.82 | 9.1 | +0 | 2 | 8.77 | 59.3 | 0.99594 | 12 | 7 | 24.6 |
| mar | 21 | 2458929.75 | 0 | 3 | 58.61 | 9.1 | +0 | 25 | 51.26 | 59.2 | 0.99623 | 12 | 7 | 6.8 |
| mar | 22 | 2458930.75 | 0 | 7 | 37.30 | 9.1 | +0 | 49 | 32.61 | 59.2 | 0.99651 | 12 | 6 | 49.0 |
| mar | 23 | 2458931.75 | 0 | 11 | 15.92 | 9.1 | +1 | 13 | 12.46 | 59.1 | 0.99680 | 12 | 6 | 31.1 |
| mar | 24 | 2458932.75 | 0 | 14 | 54.49 | 9.1 | +1 | 36 | 50.43 | 59.0 | 0.99708 | 12 | 6 | 13.1 |
| mar | 25 | 2458933.75 | 0 | 18 | 33.01 | 9.1 | +2 | 0 | 26.15 | 58.9 | 0.99737 | 12 | 5 | 55.0 |
| mar | 26 | 2458934.75 | 0 | 22 | 11.51 | 9.1 | +2 | 23 | 59.25 | 58.8 | 0.99765 | 12 | 5 | 37.0 |
| mar | 27 | 2458935.75 | 0 | 25 | 50.00 | 9.1 | +2 | 47 | 29.36 | 58.6 | 0.99794 | 12 | 5 | 18.9 |
| mar | 28 | 2458936.75 | 0 | 29 | 28.51 | 9.1 | +3 | 10 | 56.10 | 58.5 | 0.99822 | 12 | 5 | 0.9 |
| mar | 29 | 2458937.75 | 0 | 33 | 7.05 | 9.1 | +3 | 34 | 19.12 | 58.3 | 0.99850 | 12 | 4 | 42.9 |
| mar | 30 | 2458938.75 | 0 | 36 | 45.63 | 9.1 | +3 | 57 | 38.02 | 58.1 | 0.99878 | 12 | 4 | 24.9 |
| mar | 31 | 2458939.75 | 0 | 40 | 24.28 | 9.1 | +4 | 20 | 52.46 | 57.9 | 0.99907 | 12 | 4 | 7.0 |
| abr | 1 | 2458940.75 | 0 | 44 | 3.02 | 9.1 | +4 | 44 | 2.06 | 57.7 | 0.99935 | 12 | 3 | 49.2 |

Sol, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | α | | | vh s | δ ° | “ ” | | | dis UA | hp | | |
|-----|-----|------------|----------|----|-------|---------|---------------|-----|-------|------|-----------|----|----|------|
| | | | h | m | s | | | ° | ′ | ″ | | h | m | s |
| abr | 2 | 2458941.75 | 0 | 47 | 41.85 | 9.1 | +5 | 7 | 6.44 | 57.5 | 0.99963 | 12 | 3 | 31.5 |
| abr | 3 | 2458942.75 | 0 | 51 | 20.81 | 9.1 | +5 | 30 | 5.26 | 57.2 | 0.99991 | 12 | 3 | 13.9 |
| abr | 4 | 2458943.75 | 0 | 54 | 59.89 | 9.1 | +5 | 52 | 58.16 | 56.9 | 1.00019 | 12 | 2 | 56.4 |
| abr | 5 | 2458944.75 | 0 | 58 | 39.13 | 9.1 | +6 | 15 | 44.78 | 56.7 | 1.00048 | 12 | 2 | 39.1 |
| abr | 6 | 2458945.75 | 1 | 2 | 18.55 | 9.2 | +6 | 38 | 24.79 | 56.4 | 1.00076 | 12 | 2 | 21.9 |
| abr | 7 | 2458946.75 | 1 | 5 | 58.17 | 9.2 | +7 | 0 | 57.87 | 56.1 | 1.00104 | 12 | 2 | 5.0 |
| abr | 8 | 2458947.75 | 1 | 9 | 38.01 | 9.2 | +7 | 23 | 23.74 | 55.8 | 1.00133 | 12 | 1 | 48.3 |
| abr | 9 | 2458948.75 | 1 | 13 | 18.10 | 9.2 | +7 | 45 | 42.08 | 55.4 | 1.00162 | 12 | 1 | 31.9 |
| abr | 10 | 2458949.75 | 1 | 16 | 58.46 | 9.2 | +8 | 7 | 52.60 | 55.1 | 1.00191 | 12 | 1 | 15.7 |
| abr | 11 | 2458950.75 | 1 | 20 | 39.12 | 9.2 | +8 | 29 | 55.01 | 54.7 | 1.00220 | 12 | 0 | 59.8 |
| abr | 12 | 2458951.75 | 1 | 24 | 20.09 | 9.2 | +8 | 51 | 48.99 | 54.4 | 1.00248 | 12 | 0 | 44.2 |
| abr | 13 | 2458952.75 | 1 | 28 | 1.39 | 9.2 | +9 | 13 | 34.20 | 54.0 | 1.00277 | 12 | 0 | 28.9 |
| abr | 14 | 2458953.75 | 1 | 31 | 43.04 | 9.3 | +9 | 35 | 10.33 | 53.6 | 1.00306 | 12 | 0 | 14.0 |
| abr | 15 | 2458954.75 | 1 | 35 | 25.05 | 9.3 | +9 | 56 | 37.02 | 53.2 | 1.00335 | 11 | 59 | 59.5 |
| abr | 16 | 2458955.75 | 1 | 39 | 7.43 | 9.3 | +10 | 17 | 53.94 | 52.8 | 1.00364 | 11 | 59 | 45.3 |
| abr | 17 | 2458956.75 | 1 | 42 | 50.20 | 9.3 | +10 | 39 | 0.74 | 52.3 | 1.00392 | 11 | 59 | 31.5 |
| abr | 18 | 2458957.75 | 1 | 46 | 33.37 | 9.3 | +10 | 59 | 57.09 | 51.9 | 1.00421 | 11 | 59 | 18.1 |
| abr | 19 | 2458958.75 | 1 | 50 | 16.96 | 9.3 | +11 | 20 | 42.63 | 51.4 | 1.00449 | 11 | 59 | 5.2 |
| abr | 20 | 2458959.75 | 1 | 54 | 0.97 | 9.4 | +11 | 41 | 17.02 | 51.0 | 1.00477 | 11 | 58 | 52.6 |
| abr | 21 | 2458960.75 | 1 | 57 | 45.42 | 9.4 | +12 | 1 | 39.93 | 50.5 | 1.00505 | 11 | 58 | 40.5 |
| abr | 22 | 2458961.75 | 2 | 1 | 30.31 | 9.4 | +12 | 21 | 51.00 | 50.0 | 1.00532 | 11 | 58 | 28.9 |
| abr | 23 | 2458962.75 | 2 | 5 | 15.67 | 9.4 | +12 | 41 | 49.89 | 49.4 | 1.00559 | 11 | 58 | 17.7 |
| abr | 24 | 2458963.75 | 2 | 9 | 1.49 | 9.4 | +13 | 1 | 36.27 | 48.9 | 1.00586 | 11 | 58 | 6.9 |
| abr | 25 | 2458964.75 | 2 | 12 | 47.79 | 9.4 | +13 | 21 | 9.78 | 48.3 | 1.00612 | 11 | 57 | 56.7 |
| abr | 26 | 2458965.75 | 2 | 16 | 34.58 | 9.5 | +13 | 40 | 30.09 | 47.8 | 1.00639 | 11 | 57 | 46.9 |
| abr | 27 | 2458966.75 | 2 | 20 | 21.85 | 9.5 | +13 | 59 | 36.85 | 47.2 | 1.00665 | 11 | 57 | 37.6 |
| abr | 28 | 2458967.75 | 2 | 24 | 9.62 | 9.5 | +14 | 18 | 29.72 | 46.6 | 1.00690 | 11 | 57 | 28.9 |
| abr | 29 | 2458968.75 | 2 | 27 | 57.89 | 9.5 | +14 | 37 | 8.36 | 46.0 | 1.00716 | 11 | 57 | 20.6 |
| abr | 30 | 2458969.75 | 2 | 31 | 46.67 | 9.6 | +14 | 55 | 32.43 | 45.4 | 1.00741 | 11 | 57 | 12.8 |
| may | 1 | 2458970.75 | 2 | 35 | 35.96 | 9.6 | +15 | 13 | 41.59 | 44.7 | 1.00766 | 11 | 57 | 5.5 |
| may | 2 | 2458971.75 | 2 | 39 | 25.77 | 9.6 | +15 | 31 | 35.51 | 44.1 | 1.00790 | 11 | 56 | 58.8 |
| may | 3 | 2458972.75 | 2 | 43 | 16.10 | 9.6 | +15 | 49 | 13.87 | 43.4 | 1.00815 | 11 | 56 | 52.5 |
| may | 4 | 2458973.75 | 2 | 47 | 6.96 | 9.6 | +16 | 6 | 36.36 | 42.8 | 1.00839 | 11 | 56 | 46.8 |
| may | 5 | 2458974.75 | 2 | 50 | 58.36 | 9.7 | +16 | 23 | 42.68 | 42.1 | 1.00863 | 11 | 56 | 41.7 |
| may | 6 | 2458975.75 | 2 | 54 | 50.31 | 9.7 | +16 | 40 | 32.56 | 41.4 | 1.00887 | 11 | 56 | 37.1 |
| may | 7 | 2458976.75 | 2 | 58 | 42.83 | 9.7 | +16 | 57 | 5.74 | 40.7 | 1.00911 | 11 | 56 | 33.1 |
| may | 8 | 2458977.75 | 3 | 2 | 35.92 | 9.7 | +17 | 13 | 21.94 | 40.0 | 1.00935 | 11 | 56 | 29.6 |
| may | 9 | 2458978.75 | 3 | 6 | 29.58 | 9.8 | +17 | 29 | 20.92 | 39.2 | 1.00958 | 11 | 56 | 26.7 |
| may | 10 | 2458979.75 | 3 | 10 | 23.83 | 9.8 | +17 | 45 | 2.39 | 38.5 | 1.00982 | 11 | 56 | 24.4 |
| may | 11 | 2458980.75 | 3 | 14 | 18.66 | 9.8 | +18 | 0 | 26.08 | 37.7 | 1.01005 | 11 | 56 | 22.6 |
| may | 12 | 2458981.75 | 3 | 18 | 14.08 | 9.8 | +18 | 15 | 31.71 | 37.0 | 1.01028 | 11 | 56 | 21.5 |
| may | 13 | 2458982.75 | 3 | 22 | 10.08 | 9.9 | +18 | 30 | 18.99 | 36.2 | 1.01051 | 11 | 56 | 21.0 |
| may | 14 | 2458983.75 | 3 | 26 | 6.67 | 9.9 | +18 | 44 | 47.63 | 35.4 | 1.01074 | 11 | 56 | 21.0 |
| may | 15 | 2458984.75 | 3 | 30 | 3.84 | 9.9 | +18 | 58 | 57.35 | 34.6 | 1.01096 | 11 | 56 | 21.6 |
| may | 16 | 2458985.75 | 3 | 34 | 1.59 | 9.9 | +19 | 12 | 47.87 | 33.8 | 1.01118 | 11 | 56 | 22.8 |
| may | 17 | 2458986.75 | 3 | 37 | 59.92 | 10.0 | +19 | 26 | 18.91 | 33.0 | 1.01140 | 11 | 56 | 24.6 |

Sol, 2020

Efe­mé­ri­des a las 0^h del me­ri­diano 90° W.G.

| mes | día | dj | h | α m | s | vh s | ° | δ " | “ | ” | dis UA | h | hp m | s |
|-----|-----|------------|---|--------|-------|---------|-----|--------|-------|-------|-----------|----|---------|------|
| may | 18 | 2458987.75 | 3 | 41 | 58.81 | 10.0 | +19 | 39 | 30.19 | 32.1 | 1.01161 | 11 | 56 | 26.9 |
| may | 19 | 2458988.75 | 3 | 45 | 58.28 | 10.0 | +19 | 52 | 21.44 | 31.3 | 1.01182 | 11 | 56 | 29.8 |
| may | 20 | 2458989.75 | 3 | 49 | 58.29 | 10.0 | +20 | 4 | 52.40 | 30.4 | 1.01202 | 11 | 56 | 33.3 |
| may | 21 | 2458990.75 | 3 | 53 | 58.86 | 10.0 | +20 | 17 | 2.80 | 29.6 | 1.01222 | 11 | 56 | 37.3 |
| may | 22 | 2458991.75 | 3 | 57 | 59.96 | 10.1 | +20 | 28 | 52.40 | 28.7 | 1.01241 | 11 | 56 | 41.9 |
| may | 23 | 2458992.75 | 4 | 2 | 1.58 | 10.1 | +20 | 40 | 20.93 | 27.8 | 1.01260 | 11 | 56 | 46.9 |
| may | 24 | 2458993.75 | 4 | 6 | 3.72 | 10.1 | +20 | 51 | 28.15 | 26.9 | 1.01279 | 11 | 56 | 52.5 |
| may | 25 | 2458994.75 | 4 | 10 | 6.35 | 10.1 | +21 | 2 | 13.82 | 26.0 | 1.01297 | 11 | 56 | 58.6 |
| may | 26 | 2458995.75 | 4 | 14 | 9.46 | 10.1 | +21 | 12 | 37.70 | 25.1 | 1.01314 | 11 | 57 | 5.1 |
| may | 27 | 2458996.75 | 4 | 18 | 13.04 | 10.2 | +21 | 22 | 39.55 | 24.1 | 1.01331 | 11 | 57 | 12.1 |
| may | 28 | 2458997.75 | 4 | 22 | 17.05 | 10.2 | +21 | 32 | 19.14 | 23.2 | 1.01347 | 11 | 57 | 19.6 |
| may | 29 | 2458998.75 | 4 | 26 | 21.50 | 10.2 | +21 | 41 | 36.26 | 22.3 | 1.01363 | 11 | 57 | 27.5 |
| may | 30 | 2458999.75 | 4 | 30 | 26.36 | 10.2 | +21 | 50 | 30.70 | 21.3 | 1.01379 | 11 | 57 | 35.8 |
| may | 31 | 2459000.75 | 4 | 34 | 31.61 | 10.2 | +21 | 59 | 2.25 | 20.4 | 1.01394 | 11 | 57 | 44.5 |
| jun | 1 | 2459001.75 | 4 | 38 | 37.25 | 10.3 | +22 | 7 | 10.74 | 19.4 | 1.01409 | 11 | 57 | 53.6 |
| jun | 2 | 2459002.75 | 4 | 42 | 43.25 | 10.3 | +22 | 14 | 55.99 | 18.4 | 1.01423 | 11 | 58 | 3.0 |
| jun | 3 | 2459003.75 | 4 | 46 | 49.61 | 10.3 | +22 | 22 | 17.87 | 17.4 | 1.01438 | 11 | 58 | 12.8 |
| jun | 4 | 2459004.75 | 4 | 50 | 56.32 | 10.3 | +22 | 29 | 16.23 | 16.4 | 1.01452 | 11 | 58 | 23.0 |
| jun | 5 | 2459005.75 | 4 | 55 | 3.36 | 10.3 | +22 | 35 | 50.96 | 15.5 | 1.01465 | 11 | 58 | 33.5 |
| jun | 6 | 2459006.75 | 4 | 59 | 10.71 | 10.3 | +22 | 42 | 1.95 | 14.5 | 1.01478 | 11 | 58 | 44.2 |
| jun | 7 | 2459007.75 | 5 | 3 | 18.37 | 10.3 | +22 | 47 | 49.08 | 13.5 | 1.01492 | 11 | 58 | 55.3 |
| jun | 8 | 2459008.75 | 5 | 7 | 26.30 | 10.3 | +22 | 53 | 12.24 | 12.5 | 1.01504 | 11 | 59 | 6.7 |
| jun | 9 | 2459009.75 | 5 | 11 | 34.50 | 10.4 | +22 | 58 | 11.31 | 11.5 | 1.01517 | 11 | 59 | 18.3 |
| jun | 10 | 2459010.75 | 5 | 15 | 42.95 | 10.4 | +23 | 2 | 46.18 | 10.4 | 1.01529 | 11 | 59 | 30.2 |
| jun | 11 | 2459011.75 | 5 | 19 | 51.62 | 10.4 | +23 | 6 | 56.76 | 9.4 | 1.01541 | 11 | 59 | 42.3 |
| jun | 12 | 2459012.75 | 5 | 24 | 0.50 | 10.4 | +23 | 10 | 42.94 | 8.4 | 1.01552 | 11 | 59 | 54.7 |
| jun | 13 | 2459013.75 | 5 | 28 | 9.57 | 10.4 | +23 | 14 | 4.65 | 7.4 | 1.01563 | 12 | 0 | 7.2 |
| jun | 14 | 2459014.75 | 5 | 32 | 18.80 | 10.4 | +23 | 17 | 1.80 | 6.4 | 1.01573 | 12 | 0 | 19.9 |
| jun | 15 | 2459015.75 | 5 | 36 | 28.18 | 10.4 | +23 | 19 | 34.32 | 5.3 | 1.01583 | 12 | 0 | 32.7 |
| jun | 16 | 2459016.75 | 5 | 40 | 37.67 | 10.4 | +23 | 21 | 42.16 | 4.3 | 1.01593 | 12 | 0 | 45.6 |
| jun | 17 | 2459017.75 | 5 | 44 | 47.26 | 10.4 | +23 | 23 | 25.28 | 3.3 | 1.01602 | 12 | 0 | 58.7 |
| jun | 18 | 2459018.75 | 5 | 48 | 56.92 | 10.4 | +23 | 24 | 43.64 | 2.2 | 1.01610 | 12 | 1 | 11.8 |
| jun | 19 | 2459019.75 | 5 | 53 | 6.63 | 10.4 | +23 | 25 | 37.21 | 1.2 | 1.01618 | 12 | 1 | 24.9 |
| jun | 20 | 2459020.75 | 5 | 57 | 16.35 | 10.4 | +23 | 26 | 5.98 | 0.2 | 1.01625 | 12 | 1 | 38.1 |
| jun | 21 | 2459021.75 | 6 | 1 | 26.07 | 10.4 | +23 | 26 | 9.95 | -0.9 | 1.01632 | 12 | 1 | 51.2 |
| jun | 22 | 2459022.75 | 6 | 5 | 35.74 | 10.4 | +23 | 25 | 49.13 | -1.9 | 1.01638 | 12 | 2 | 4.3 |
| jun | 23 | 2459023.75 | 6 | 9 | 45.35 | 10.4 | +23 | 25 | 3.52 | -2.9 | 1.01644 | 12 | 2 | 17.4 |
| jun | 24 | 2459024.75 | 6 | 13 | 54.86 | 10.4 | +23 | 23 | 53.14 | -4.0 | 1.01649 | 12 | 2 | 30.3 |
| jun | 25 | 2459025.75 | 6 | 18 | 4.24 | 10.4 | +23 | 22 | 18.04 | -5.0 | 1.01653 | 12 | 2 | 43.1 |
| jun | 26 | 2459026.75 | 6 | 22 | 13.46 | 10.4 | +23 | 20 | 18.23 | -6.0 | 1.01657 | 12 | 2 | 55.8 |
| jun | 27 | 2459027.75 | 6 | 26 | 22.51 | 10.4 | +23 | 17 | 53.78 | -7.0 | 1.01660 | 12 | 3 | 8.3 |
| jun | 28 | 2459028.75 | 6 | 30 | 31.35 | 10.4 | +23 | 15 | 4.75 | -8.1 | 1.01662 | 12 | 3 | 20.6 |
| jun | 29 | 2459029.75 | 6 | 34 | 39.96 | 10.3 | +23 | 11 | 51.20 | -9.1 | 1.01665 | 12 | 3 | 32.7 |
| jun | 30 | 2459030.75 | 6 | 38 | 48.33 | 10.3 | +23 | 8 | 13.25 | -10.1 | 1.01666 | 12 | 3 | 44.5 |
| jul | 1 | 2459031.75 | 6 | 42 | 56.44 | 10.3 | +23 | 4 | 10.99 | -11.1 | 1.01668 | 12 | 3 | 56.0 |
| jul | 2 | 2459032.75 | 6 | 47 | 4.26 | 10.3 | +22 | 59 | 44.55 | -12.1 | 1.01669 | 12 | 4 | 7.3 |

Sol, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | α | | | vh s | δ ° | “ ” | | dis UA | hp | | | |
|-----|-----|------------|----------|----|-------|---------|---------------|-----|-------|-----------|---------|----|---|------|
| | | | h | m | s | | | ° | ’ | | h | m | s | |
| jul | 3 | 2459033.75 | 6 | 51 | 11.79 | 10.3 | +22 | 54 | 54.06 | -13.1 | 1.01669 | 12 | 4 | 18.3 |
| jul | 4 | 2459034.75 | 6 | 55 | 18.99 | 10.3 | +22 | 49 | 39.66 | -14.1 | 1.01669 | 12 | 4 | 28.9 |
| jul | 5 | 2459035.75 | 6 | 59 | 25.86 | 10.3 | +22 | 44 | 1.49 | -15.1 | 1.01669 | 12 | 4 | 39.2 |
| jul | 6 | 2459036.75 | 7 | 3 | 32.38 | 10.3 | +22 | 37 | 59.68 | -16.1 | 1.01669 | 12 | 4 | 49.2 |
| jul | 7 | 2459037.75 | 7 | 7 | 38.54 | 10.2 | +22 | 31 | 34.38 | -17.0 | 1.01668 | 12 | 4 | 58.8 |
| jul | 8 | 2459038.75 | 7 | 11 | 44.31 | 10.2 | +22 | 24 | 45.74 | -18.0 | 1.01667 | 12 | 5 | 8.0 |
| jul | 9 | 2459039.75 | 7 | 15 | 49.69 | 10.2 | +22 | 17 | 33.90 | -19.0 | 1.01666 | 12 | 5 | 16.8 |
| jul | 10 | 2459040.75 | 7 | 19 | 54.66 | 10.2 | +22 | 9 | 59.02 | -19.9 | 1.01664 | 12 | 5 | 25.2 |
| jul | 11 | 2459041.75 | 7 | 23 | 59.20 | 10.2 | +22 | 2 | 1.27 | -20.9 | 1.01661 | 12 | 5 | 33.2 |
| jul | 12 | 2459042.75 | 7 | 28 | 3.31 | 10.2 | +21 | 53 | 40.83 | -21.8 | 1.01659 | 12 | 5 | 40.8 |
| jul | 13 | 2459043.75 | 7 | 32 | 6.97 | 10.1 | +21 | 44 | 57.87 | -22.7 | 1.01655 | 12 | 5 | 47.9 |
| jul | 14 | 2459044.75 | 7 | 36 | 10.16 | 10.1 | +21 | 35 | 52.60 | -23.6 | 1.01652 | 12 | 5 | 54.5 |
| jul | 15 | 2459045.75 | 7 | 40 | 12.88 | 10.1 | +21 | 26 | 25.20 | -24.6 | 1.01648 | 12 | 6 | 0.7 |
| jul | 16 | 2459046.75 | 7 | 44 | 15.10 | 10.1 | +21 | 16 | 35.90 | -25.5 | 1.01643 | 12 | 6 | 6.3 |
| jul | 17 | 2459047.75 | 7 | 48 | 16.83 | 10.1 | +21 | 6 | 24.90 | -26.4 | 1.01638 | 12 | 6 | 11.5 |
| jul | 18 | 2459048.75 | 7 | 52 | 18.03 | 10.0 | +20 | 55 | 52.45 | -27.2 | 1.01632 | 12 | 6 | 16.1 |
| jul | 19 | 2459049.75 | 7 | 56 | 18.71 | 10.0 | +20 | 44 | 58.78 | -28.1 | 1.01626 | 12 | 6 | 20.3 |
| jul | 20 | 2459050.75 | 8 | 0 | 18.83 | 10.0 | +20 | 33 | 44.12 | -29.0 | 1.01619 | 12 | 6 | 23.8 |
| jul | 21 | 2459051.75 | 8 | 4 | 18.40 | 10.0 | +20 | 22 | 8.73 | -29.8 | 1.01611 | 12 | 6 | 26.8 |
| jul | 22 | 2459052.75 | 8 | 8 | 17.39 | 9.9 | +20 | 10 | 12.87 | -30.7 | 1.01603 | 12 | 6 | 29.3 |
| jul | 23 | 2459053.75 | 8 | 12 | 15.78 | 9.9 | +19 | 57 | 56.78 | -31.5 | 1.01594 | 12 | 6 | 31.1 |
| jul | 24 | 2459054.75 | 8 | 16 | 13.58 | 9.9 | +19 | 45 | 20.73 | -32.3 | 1.01585 | 12 | 6 | 32.3 |
| jul | 25 | 2459055.75 | 8 | 20 | 10.77 | 9.9 | +19 | 32 | 24.97 | -33.1 | 1.01575 | 12 | 6 | 33.0 |
| jul | 26 | 2459056.75 | 8 | 24 | 7.34 | 9.8 | +19 | 19 | 9.79 | -33.9 | 1.01564 | 12 | 6 | 33.0 |
| jul | 27 | 2459057.75 | 8 | 28 | 3.30 | 9.8 | +19 | 5 | 35.45 | -34.7 | 1.01553 | 12 | 6 | 32.4 |
| jul | 28 | 2459058.75 | 8 | 31 | 58.63 | 9.8 | +18 | 51 | 42.24 | -35.5 | 1.01542 | 12 | 6 | 31.2 |
| jul | 29 | 2459059.75 | 8 | 35 | 53.34 | 9.8 | +18 | 37 | 30.46 | -36.3 | 1.01530 | 12 | 6 | 29.3 |
| jul | 30 | 2459060.75 | 8 | 39 | 47.43 | 9.7 | +18 | 23 | 0.41 | -37.0 | 1.01518 | 12 | 6 | 26.9 |
| jul | 31 | 2459061.75 | 8 | 43 | 40.90 | 9.7 | +18 | 8 | 12.45 | -37.7 | 1.01505 | 12 | 6 | 23.8 |
| ago | 1 | 2459062.75 | 8 | 47 | 33.74 | 9.7 | +17 | 53 | 7.54 | -38.5 | 1.01492 | 12 | 6 | 20.0 |
| ago | 2 | 2459063.75 | 8 | 51 | 25.91 | 9.7 | +17 | 37 | 43.83 | -39.2 | 1.01479 | 12 | 6 | 15.7 |
| ago | 3 | 2459064.75 | 8 | 55 | 17.53 | 9.6 | +17 | 22 | 3.35 | -39.9 | 1.01466 | 12 | 6 | 10.7 |
| ago | 4 | 2459065.75 | 8 | 59 | 8.54 | 9.6 | +17 | 6 | 6.19 | -40.6 | 1.01452 | 12 | 6 | 5.2 |
| ago | 5 | 2459066.75 | 9 | 2 | 58.94 | 9.6 | +16 | 49 | 52.50 | -41.2 | 1.01438 | 12 | 5 | 59.0 |
| ago | 6 | 2459067.75 | 9 | 6 | 48.75 | 9.6 | +16 | 33 | 22.55 | -41.9 | 1.01423 | 12 | 5 | 52.3 |
| ago | 7 | 2459068.75 | 9 | 10 | 37.97 | 9.5 | +16 | 16 | 36.59 | -42.6 | 1.01409 | 12 | 5 | 44.9 |
| ago | 8 | 2459069.75 | 9 | 14 | 26.62 | 9.5 | +15 | 59 | 34.92 | -43.2 | 1.01394 | 12 | 5 | 37.0 |
| ago | 9 | 2459070.75 | 9 | 18 | 14.69 | 9.5 | +15 | 42 | 17.82 | -43.8 | 1.01379 | 12 | 5 | 28.6 |
| ago | 10 | 2459071.75 | 9 | 22 | 2.21 | 9.5 | +15 | 24 | 45.59 | -44.5 | 1.01363 | 12 | 5 | 19.5 |
| ago | 11 | 2459072.75 | 9 | 25 | 49.17 | 9.4 | +15 | 6 | 58.50 | -45.1 | 1.01347 | 12 | 5 | 9.9 |
| ago | 12 | 2459073.75 | 9 | 29 | 35.59 | 9.4 | +14 | 48 | 56.87 | -45.7 | 1.01331 | 12 | 4 | 59.8 |
| ago | 13 | 2459074.75 | 9 | 33 | 21.48 | 9.4 | +14 | 30 | 41.00 | -46.2 | 1.01314 | 12 | 4 | 49.1 |
| ago | 14 | 2459075.75 | 9 | 37 | 6.84 | 9.4 | +14 | 12 | 11.20 | -46.8 | 1.01297 | 12 | 4 | 37.9 |
| ago | 15 | 2459076.75 | 9 | 40 | 51.68 | 9.3 | +13 | 53 | 27.78 | -47.4 | 1.01279 | 12 | 4 | 26.2 |
| ago | 16 | 2459077.75 | 9 | 44 | 36.01 | 9.3 | +13 | 34 | 31.06 | -47.9 | 1.01261 | 12 | 4 | 14.0 |
| ago | 17 | 2459078.75 | 9 | 48 | 19.83 | 9.3 | +13 | 15 | 21.37 | -48.4 | 1.01242 | 12 | 4 | 1.3 |

Sol, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | α | | | vh s | ° | δ " | vh | | dis UA | hp | | |
|-----|-----|------------|----------|----|-------|---------|-----|---------------|-------|-------|-----------|----|----|------|
| | | | h | m | s | | | | " | " | | h | m | s |
| ago | 18 | 2459079.75 | 9 | 52 | 3.16 | 9.3 | +12 | 55 | 59.04 | -48.9 | 1.01223 | 12 | 3 | 48.0 |
| ago | 19 | 2459080.75 | 9 | 55 | 45.98 | 9.3 | +12 | 36 | 24.39 | -49.4 | 1.01204 | 12 | 3 | 34.3 |
| ago | 20 | 2459081.75 | 9 | 59 | 28.32 | 9.2 | +12 | 16 | 37.76 | -49.9 | 1.01184 | 12 | 3 | 20.1 |
| ago | 21 | 2459082.75 | 10 | 3 | 10.18 | 9.2 | +11 | 56 | 39.49 | -50.4 | 1.01163 | 12 | 3 | 5.4 |
| ago | 22 | 2459083.75 | 10 | 6 | 51.57 | 9.2 | +11 | 36 | 29.89 | -50.9 | 1.01142 | 12 | 2 | 50.2 |
| ago | 23 | 2459084.75 | 10 | 10 | 32.50 | 9.2 | +11 | 16 | 9.31 | -51.3 | 1.01120 | 12 | 2 | 34.6 |
| ago | 24 | 2459085.75 | 10 | 14 | 12.99 | 9.2 | +10 | 55 | 38.07 | -51.7 | 1.01099 | 12 | 2 | 18.6 |
| ago | 25 | 2459086.75 | 10 | 17 | 53.04 | 9.2 | +10 | 34 | 56.53 | -52.1 | 1.01076 | 12 | 2 | 2.1 |
| ago | 26 | 2459087.75 | 10 | 21 | 32.68 | 9.1 | +10 | 14 | 5.01 | -52.5 | 1.01054 | 12 | 1 | 45.1 |
| ago | 27 | 2459088.75 | 10 | 25 | 11.91 | 9.1 | +9 | 53 | 3.85 | -52.9 | 1.01031 | 12 | 1 | 27.8 |
| ago | 28 | 2459089.75 | 10 | 28 | 50.75 | 9.1 | +9 | 31 | 53.39 | -53.3 | 1.01008 | 12 | 1 | 10.1 |
| ago | 29 | 2459090.75 | 10 | 32 | 29.22 | 9.1 | +9 | 10 | 33.95 | -53.7 | 1.00984 | 12 | 0 | 52.0 |
| ago | 30 | 2459091.75 | 10 | 36 | 7.33 | 9.1 | +8 | 49 | 5.85 | -54.0 | 1.00961 | 12 | 0 | 33.5 |
| ago | 31 | 2459092.75 | 10 | 39 | 45.11 | 9.1 | +8 | 27 | 29.39 | -54.4 | 1.00937 | 12 | 0 | 14.8 |
| sep | 1 | 2459093.75 | 10 | 43 | 22.58 | 9.0 | +8 | 5 | 44.89 | -54.7 | 1.00913 | 11 | 59 | 55.7 |
| sep | 2 | 2459094.75 | 10 | 46 | 59.75 | 9.0 | +7 | 43 | 52.64 | -55.0 | 1.00889 | 11 | 59 | 36.3 |
| sep | 3 | 2459095.75 | 10 | 50 | 36.64 | 9.0 | +7 | 21 | 52.94 | -55.3 | 1.00865 | 11 | 59 | 16.7 |
| sep | 4 | 2459096.75 | 10 | 54 | 13.29 | 9.0 | +6 | 59 | 46.09 | -55.6 | 1.00840 | 11 | 58 | 56.7 |
| sep | 5 | 2459097.75 | 10 | 57 | 49.70 | 9.0 | +6 | 37 | 32.40 | -55.8 | 1.00816 | 11 | 58 | 36.6 |
| sep | 6 | 2459098.75 | 11 | 1 | 25.91 | 9.0 | +6 | 15 | 12.15 | -56.1 | 1.00791 | 11 | 58 | 16.3 |
| sep | 7 | 2459099.75 | 11 | 5 | 1.92 | 9.0 | +5 | 52 | 45.65 | -56.4 | 1.00767 | 11 | 57 | 55.7 |
| sep | 8 | 2459100.75 | 11 | 8 | 37.78 | 9.0 | +5 | 30 | 13.21 | -56.6 | 1.00742 | 11 | 57 | 35.0 |
| sep | 9 | 2459101.75 | 11 | 12 | 13.48 | 9.0 | +5 | 7 | 35.15 | -56.8 | 1.00717 | 11 | 57 | 14.2 |
| sep | 10 | 2459102.75 | 11 | 15 | 49.06 | 9.0 | +4 | 44 | 51.77 | -57.0 | 1.00691 | 11 | 56 | 53.2 |
| sep | 11 | 2459103.75 | 11 | 19 | 24.53 | 9.0 | +4 | 22 | 3.39 | -57.2 | 1.00666 | 11 | 56 | 32.1 |
| sep | 12 | 2459104.75 | 11 | 22 | 59.91 | 9.0 | +3 | 59 | 10.34 | -57.4 | 1.00640 | 11 | 56 | 11.0 |
| sep | 13 | 2459105.75 | 11 | 26 | 35.23 | 9.0 | +3 | 36 | 12.95 | -57.6 | 1.00614 | 11 | 55 | 49.7 |
| sep | 14 | 2459106.75 | 11 | 30 | 10.49 | 9.0 | +3 | 13 | 11.56 | -57.7 | 1.00588 | 11 | 55 | 28.4 |
| sep | 15 | 2459107.75 | 11 | 33 | 45.71 | 9.0 | +2 | 50 | 6.52 | -57.8 | 1.00562 | 11 | 55 | 7.1 |
| sep | 16 | 2459108.75 | 11 | 37 | 20.90 | 9.0 | +2 | 26 | 58.16 | -58.0 | 1.00535 | 11 | 54 | 45.7 |
| sep | 17 | 2459109.75 | 11 | 40 | 56.10 | 9.0 | +2 | 3 | 46.85 | -58.1 | 1.00508 | 11 | 54 | 24.4 |
| sep | 18 | 2459110.75 | 11 | 44 | 31.30 | 9.0 | +1 | 40 | 32.94 | -58.2 | 1.00480 | 11 | 54 | 3.0 |
| sep | 19 | 2459111.75 | 11 | 48 | 6.53 | 9.0 | +1 | 17 | 16.78 | -58.3 | 1.00453 | 11 | 53 | 41.7 |
| sep | 20 | 2459112.75 | 11 | 51 | 41.80 | 9.0 | +0 | 53 | 58.74 | -58.3 | 1.00425 | 11 | 53 | 20.4 |
| sep | 21 | 2459113.75 | 11 | 55 | 17.14 | 9.0 | +0 | 30 | 39.16 | -58.4 | 1.00396 | 11 | 52 | 59.2 |
| sep | 22 | 2459114.75 | 11 | 58 | 52.56 | 9.0 | +0 | 7 | 18.43 | -58.4 | 1.00368 | 11 | 52 | 38.1 |
| sep | 23 | 2459115.75 | 12 | 2 | 28.08 | 9.0 | -0 | 16 | 3.10 | -58.4 | 1.00339 | 11 | 52 | 17.0 |
| sep | 24 | 2459116.75 | 12 | 6 | 3.71 | 9.0 | -0 | 39 | 25.07 | -58.4 | 1.00311 | 11 | 51 | 56.1 |
| sep | 25 | 2459117.75 | 12 | 9 | 39.48 | 9.0 | -1 | 2 | 47.11 | -58.4 | 1.00282 | 11 | 51 | 35.3 |
| sep | 26 | 2459118.75 | 12 | 13 | 15.41 | 9.0 | -1 | 26 | 8.89 | -58.4 | 1.00253 | 11 | 51 | 14.7 |
| sep | 27 | 2459119.75 | 12 | 16 | 51.51 | 9.0 | -1 | 49 | 30.04 | -58.3 | 1.00224 | 11 | 50 | 54.2 |
| sep | 28 | 2459120.75 | 12 | 20 | 27.81 | 9.0 | -2 | 12 | 50.25 | -58.3 | 1.00195 | 11 | 50 | 34.0 |
| sep | 29 | 2459121.75 | 12 | 24 | 4.34 | 9.0 | -2 | 36 | 9.17 | -58.2 | 1.00166 | 11 | 50 | 14.0 |
| sep | 30 | 2459122.75 | 12 | 27 | 41.12 | 9.0 | -2 | 59 | 26.48 | -58.1 | 1.00137 | 11 | 49 | 54.2 |
| oct | 1 | 2459123.75 | 12 | 31 | 18.17 | 9.1 | -3 | 22 | 41.84 | -58.0 | 1.00108 | 11 | 49 | 34.7 |
| oct | 2 | 2459124.75 | 12 | 34 | 55.51 | 9.1 | -3 | 45 | 54.94 | -57.9 | 1.00080 | 11 | 49 | 15.5 |

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Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α | | vh s | δ | | vh | | dis UA | hp | | |
|-----|-----|------------|----|----------|-------|---------|----------|----|-------|-------|-----------|----|----|------|
| | | | | m | s | | ° | ' | " | " | | h | m | s |
| oct | 3 | 2459125.75 | 12 | 38 | 33.17 | 9.1 | -4 | 9 | 5.44 | -57.8 | 1.00051 | 11 | 48 | 56.6 |
| oct | 4 | 2459126.75 | 12 | 42 | 11.18 | 9.1 | -4 | 32 | 13.01 | -57.7 | 1.00023 | 11 | 48 | 38.1 |
| oct | 5 | 2459127.75 | 12 | 45 | 49.56 | 9.1 | -4 | 55 | 17.32 | -57.5 | 0.99994 | 11 | 48 | 19.9 |
| oct | 6 | 2459128.75 | 12 | 49 | 28.33 | 9.1 | -5 | 18 | 18.03 | -57.4 | 0.99966 | 11 | 48 | 2.1 |
| oct | 7 | 2459129.75 | 12 | 53 | 7.50 | 9.2 | -5 | 41 | 14.80 | -57.2 | 0.99938 | 11 | 47 | 44.7 |
| oct | 8 | 2459130.75 | 12 | 56 | 47.12 | 9.2 | -6 | 4 | 7.28 | -57.0 | 0.99909 | 11 | 47 | 27.8 |
| oct | 9 | 2459131.75 | 13 | 0 | 27.18 | 9.2 | -6 | 26 | 55.12 | -56.8 | 0.99881 | 11 | 47 | 11.3 |
| oct | 10 | 2459132.75 | 13 | 4 | 7.72 | 9.2 | -6 | 49 | 37.95 | -56.6 | 0.99853 | 11 | 46 | 55.3 |
| oct | 11 | 2459133.75 | 13 | 7 | 48.76 | 9.2 | -7 | 12 | 15.41 | -56.3 | 0.99825 | 11 | 46 | 39.8 |
| oct | 12 | 2459134.75 | 13 | 11 | 30.30 | 9.3 | -7 | 34 | 47.13 | -56.1 | 0.99797 | 11 | 46 | 24.7 |
| oct | 13 | 2459135.75 | 13 | 15 | 12.37 | 9.3 | -7 | 57 | 12.71 | -55.8 | 0.99769 | 11 | 46 | 10.3 |
| oct | 14 | 2459136.75 | 13 | 18 | 54.98 | 9.3 | -8 | 19 | 31.77 | -55.5 | 0.99741 | 11 | 45 | 56.3 |
| oct | 15 | 2459137.75 | 13 | 22 | 38.15 | 9.3 | -8 | 41 | 43.92 | -55.2 | 0.99713 | 11 | 45 | 42.9 |
| oct | 16 | 2459138.75 | 13 | 26 | 21.89 | 9.3 | -9 | 3 | 48.74 | -54.9 | 0.99685 | 11 | 45 | 30.1 |
| oct | 17 | 2459139.75 | 13 | 30 | 6.22 | 9.4 | -9 | 25 | 45.85 | -54.5 | 0.99656 | 11 | 45 | 17.9 |
| oct | 18 | 2459140.75 | 13 | 33 | 51.16 | 9.4 | -9 | 47 | 34.83 | -54.2 | 0.99628 | 11 | 45 | 6.3 |
| oct | 19 | 2459141.75 | 13 | 37 | 36.71 | 9.4 | -10 | 9 | 15.26 | -53.8 | 0.99600 | 11 | 44 | 55.3 |
| oct | 20 | 2459142.75 | 13 | 41 | 22.89 | 9.5 | -10 | 30 | 46.74 | -53.4 | 0.99571 | 11 | 44 | 44.9 |
| oct | 21 | 2459143.75 | 13 | 45 | 9.70 | 9.5 | -10 | 52 | 8.83 | -53.0 | 0.99543 | 11 | 44 | 35.2 |
| oct | 22 | 2459144.75 | 13 | 48 | 57.17 | 9.5 | -11 | 13 | 21.11 | -52.6 | 0.99515 | 11 | 44 | 26.1 |
| oct | 23 | 2459145.75 | 13 | 52 | 45.30 | 9.5 | -11 | 34 | 23.19 | -52.1 | 0.99486 | 11 | 44 | 17.6 |
| oct | 24 | 2459146.75 | 13 | 56 | 34.10 | 9.6 | -11 | 55 | 14.64 | -51.7 | 0.99458 | 11 | 44 | 9.9 |
| oct | 25 | 2459147.75 | 14 | 0 | 23.59 | 9.6 | -12 | 15 | 55.07 | -51.2 | 0.99430 | 11 | 44 | 2.8 |
| oct | 26 | 2459148.75 | 14 | 4 | 13.79 | 9.6 | -12 | 36 | 24.08 | -50.7 | 0.99403 | 11 | 43 | 56.5 |
| oct | 27 | 2459149.75 | 14 | 8 | 4.70 | 9.7 | -12 | 56 | 41.28 | -50.2 | 0.99375 | 11 | 43 | 50.8 |
| oct | 28 | 2459150.75 | 14 | 11 | 56.36 | 9.7 | -13 | 16 | 46.29 | -49.7 | 0.99348 | 11 | 43 | 45.9 |
| oct | 29 | 2459151.75 | 14 | 15 | 48.76 | 9.7 | -13 | 36 | 38.73 | -49.1 | 0.99321 | 11 | 43 | 41.8 |
| oct | 30 | 2459152.75 | 14 | 19 | 41.93 | 9.7 | -13 | 56 | 18.22 | -48.6 | 0.99295 | 11 | 43 | 38.4 |
| oct | 31 | 2459153.75 | 14 | 23 | 35.88 | 9.8 | -14 | 15 | 44.36 | -48.0 | 0.99268 | 11 | 43 | 35.8 |
| nov | 1 | 2459154.75 | 14 | 27 | 30.63 | 9.8 | -14 | 34 | 56.79 | -47.4 | 0.99242 | 11 | 43 | 34.0 |
| nov | 2 | 2459155.75 | 14 | 31 | 26.18 | 9.8 | -14 | 53 | 55.13 | -46.8 | 0.99217 | 11 | 43 | 33.0 |
| nov | 3 | 2459156.75 | 14 | 35 | 22.55 | 9.9 | -15 | 12 | 38.99 | -46.2 | 0.99191 | 11 | 43 | 32.8 |
| nov | 4 | 2459157.75 | 14 | 39 | 19.75 | 9.9 | -15 | 31 | 7.99 | -45.6 | 0.99166 | 11 | 43 | 33.5 |
| nov | 5 | 2459158.75 | 14 | 43 | 17.79 | 10.0 | -15 | 49 | 21.73 | -44.9 | 0.99142 | 11 | 43 | 34.9 |
| nov | 6 | 2459159.75 | 14 | 47 | 16.68 | 10.0 | -16 | 7 | 19.84 | -44.3 | 0.99118 | 11 | 43 | 37.3 |
| nov | 7 | 2459160.75 | 14 | 51 | 16.41 | 10.0 | -16 | 25 | 1.91 | -43.6 | 0.99094 | 11 | 43 | 40.4 |
| nov | 8 | 2459161.75 | 14 | 55 | 17.01 | 10.1 | -16 | 42 | 27.54 | -42.9 | 0.99070 | 11 | 43 | 44.5 |
| nov | 9 | 2459162.75 | 14 | 59 | 18.46 | 10.1 | -16 | 59 | 36.33 | -42.1 | 0.99047 | 11 | 43 | 49.4 |
| nov | 10 | 2459163.75 | 15 | 3 | 20.78 | 10.1 | -17 | 16 | 27.88 | -41.4 | 0.99024 | 11 | 43 | 55.1 |
| nov | 11 | 2459164.75 | 15 | 7 | 23.96 | 10.2 | -17 | 33 | 1.77 | -40.7 | 0.99001 | 11 | 44 | 1.8 |
| nov | 12 | 2459165.75 | 15 | 11 | 28.01 | 10.2 | -17 | 49 | 17.59 | -39.9 | 0.98978 | 11 | 44 | 9.3 |
| nov | 13 | 2459166.75 | 15 | 15 | 32.93 | 10.2 | -18 | 5 | 14.94 | -39.1 | 0.98956 | 11 | 44 | 17.6 |
| nov | 14 | 2459167.75 | 15 | 19 | 38.71 | 10.3 | -18 | 20 | 53.40 | -38.3 | 0.98934 | 11 | 44 | 26.9 |
| nov | 15 | 2459168.75 | 15 | 23 | 45.35 | 10.3 | -18 | 36 | 12.58 | -37.5 | 0.98911 | 11 | 44 | 37.0 |
| nov | 16 | 2459169.75 | 15 | 27 | 52.83 | 10.3 | -18 | 51 | 12.07 | -36.6 | 0.98890 | 11 | 44 | 47.9 |
| nov | 17 | 2459170.75 | 15 | 32 | 1.15 | 10.4 | -19 | 5 | 51.45 | -35.8 | 0.98868 | 11 | 44 | 59.6 |

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Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α | | vh | ° | δ | vh | | dis UA | hp | | |
|-----|-----|------------|----|----------|-------|------|-----|----------|-------|-------|-----------|----|----|------|
| | | | | m | s | s | | | " | " | | h | m | s |
| nov | 18 | 2459171.75 | 15 | 36 | 10.29 | 10.4 | -19 | 20 | 10.34 | -34.9 | 0.98846 | 11 | 45 | 12.2 |
| nov | 19 | 2459172.75 | 15 | 40 | 20.25 | 10.4 | -19 | 34 | 8.32 | -34.0 | 0.98825 | 11 | 45 | 25.6 |
| nov | 20 | 2459173.75 | 15 | 44 | 31.00 | 10.5 | -19 | 47 | 45.00 | -33.1 | 0.98804 | 11 | 45 | 39.8 |
| nov | 21 | 2459174.75 | 15 | 48 | 42.54 | 10.5 | -20 | 0 | 60.00 | -32.2 | 0.98783 | 11 | 45 | 54.8 |
| nov | 22 | 2459175.75 | 15 | 52 | 54.85 | 10.5 | -20 | 13 | 52.95 | -31.3 | 0.98763 | 11 | 46 | 10.5 |
| nov | 23 | 2459176.75 | 15 | 57 | 7.94 | 10.6 | -20 | 26 | 23.50 | -30.3 | 0.98743 | 11 | 46 | 27.1 |
| nov | 24 | 2459177.75 | 16 | 1 | 21.77 | 10.6 | -20 | 38 | 31.31 | -29.4 | 0.98723 | 11 | 46 | 44.3 |
| nov | 25 | 2459178.75 | 16 | 5 | 36.36 | 10.6 | -20 | 50 | 16.05 | -28.4 | 0.98704 | 11 | 47 | 2.4 |
| nov | 26 | 2459179.75 | 16 | 9 | 51.67 | 10.7 | -21 | 1 | 37.38 | -27.4 | 0.98685 | 11 | 47 | 21.1 |
| nov | 27 | 2459180.75 | 16 | 14 | 7.71 | 10.7 | -21 | 12 | 35.02 | -26.4 | 0.98667 | 11 | 47 | 40.6 |
| nov | 28 | 2459181.75 | 16 | 18 | 24.45 | 10.7 | -21 | 23 | 8.65 | -25.4 | 0.98649 | 11 | 48 | 0.8 |
| nov | 29 | 2459182.75 | 16 | 22 | 41.89 | 10.8 | -21 | 33 | 17.98 | -24.4 | 0.98632 | 11 | 48 | 21.7 |
| nov | 30 | 2459183.75 | 16 | 26 | 60.00 | 10.8 | -21 | 43 | 2.74 | -23.3 | 0.98615 | 11 | 48 | 43.2 |
| dic | 1 | 2459184.75 | 16 | 31 | 18.77 | 10.8 | -21 | 52 | 22.65 | -22.3 | 0.98599 | 11 | 49 | 5.5 |
| dic | 2 | 2459185.75 | 16 | 35 | 38.18 | 10.8 | -22 | 1 | 17.44 | -21.2 | 0.98583 | 11 | 49 | 28.3 |
| dic | 3 | 2459186.75 | 16 | 39 | 58.21 | 10.9 | -22 | 9 | 46.86 | -20.2 | 0.98568 | 11 | 49 | 51.8 |
| dic | 4 | 2459187.75 | 16 | 44 | 18.85 | 10.9 | -22 | 17 | 50.66 | -19.1 | 0.98554 | 11 | 50 | 15.8 |
| dic | 5 | 2459188.75 | 16 | 48 | 40.06 | 10.9 | -22 | 25 | 28.58 | -18.0 | 0.98540 | 11 | 50 | 40.5 |
| dic | 6 | 2459189.75 | 16 | 53 | 1.82 | 10.9 | -22 | 32 | 40.39 | -16.9 | 0.98526 | 11 | 51 | 5.7 |
| dic | 7 | 2459190.75 | 16 | 57 | 24.12 | 11.0 | -22 | 39 | 25.85 | -15.8 | 0.98513 | 11 | 51 | 31.4 |
| dic | 8 | 2459191.75 | 17 | 1 | 46.93 | 11.0 | -22 | 45 | 44.73 | -14.7 | 0.98501 | 11 | 51 | 57.7 |
| dic | 9 | 2459192.75 | 17 | 6 | 10.21 | 11.0 | -22 | 51 | 36.83 | -13.5 | 0.98489 | 11 | 52 | 24.4 |
| dic | 10 | 2459193.75 | 17 | 10 | 33.95 | 11.0 | -22 | 57 | 1.93 | -12.4 | 0.98477 | 11 | 52 | 51.6 |
| dic | 11 | 2459194.75 | 17 | 14 | 58.11 | 11.0 | -23 | 1 | 59.86 | -11.3 | 0.98466 | 11 | 53 | 19.2 |
| dic | 12 | 2459195.75 | 17 | 19 | 22.67 | 11.0 | -23 | 6 | 30.44 | -10.1 | 0.98455 | 11 | 53 | 47.2 |
| dic | 13 | 2459196.75 | 17 | 23 | 47.59 | 11.1 | -23 | 10 | 33.51 | -9.0 | 0.98445 | 11 | 54 | 15.6 |
| dic | 14 | 2459197.75 | 17 | 28 | 12.82 | 11.1 | -23 | 14 | 8.93 | -7.8 | 0.98434 | 11 | 54 | 44.2 |
| dic | 15 | 2459198.75 | 17 | 32 | 38.34 | 11.1 | -23 | 17 | 16.57 | -6.7 | 0.98424 | 11 | 55 | 13.2 |
| dic | 16 | 2459199.75 | 17 | 37 | 4.10 | 11.1 | -23 | 19 | 56.32 | -5.5 | 0.98415 | 11 | 55 | 42.4 |
| dic | 17 | 2459200.75 | 17 | 41 | 30.07 | 11.1 | -23 | 22 | 8.05 | -4.3 | 0.98406 | 11 | 56 | 11.8 |
| dic | 18 | 2459201.75 | 17 | 45 | 56.19 | 11.1 | -23 | 23 | 51.68 | -3.1 | 0.98397 | 11 | 56 | 41.4 |
| dic | 19 | 2459202.75 | 17 | 50 | 22.44 | 11.1 | -23 | 25 | 7.13 | -2.0 | 0.98388 | 11 | 57 | 11.0 |
| dic | 20 | 2459203.75 | 17 | 54 | 48.77 | 11.1 | -23 | 25 | 54.33 | -0.8 | 0.98380 | 11 | 57 | 40.8 |
| dic | 21 | 2459204.75 | 17 | 59 | 15.16 | 11.1 | -23 | 26 | 13.26 | 0.4 | 0.98373 | 11 | 58 | 10.7 |
| dic | 22 | 2459205.75 | 18 | 3 | 41.58 | 11.1 | -23 | 26 | 3.89 | 1.6 | 0.98366 | 11 | 58 | 40.5 |
| dic | 23 | 2459206.75 | 18 | 8 | 7.98 | 11.1 | -23 | 25 | 26.23 | 2.7 | 0.98359 | 11 | 59 | 10.4 |
| dic | 24 | 2459207.75 | 18 | 12 | 34.33 | 11.1 | -23 | 24 | 20.28 | 3.9 | 0.98353 | 11 | 59 | 40.2 |
| dic | 25 | 2459208.75 | 18 | 17 | 0.61 | 11.1 | -23 | 22 | 46.10 | 5.1 | 0.98348 | 12 | 0 | 9.9 |
| dic | 26 | 2459209.75 | 18 | 21 | 26.78 | 11.1 | -23 | 20 | 43.72 | 6.3 | 0.98343 | 12 | 0 | 39.5 |
| dic | 27 | 2459210.75 | 18 | 25 | 52.80 | 11.1 | -23 | 18 | 13.23 | 7.4 | 0.98338 | 12 | 1 | 9.0 |
| dic | 28 | 2459211.75 | 18 | 30 | 18.66 | 11.1 | -23 | 15 | 14.69 | 8.6 | 0.98335 | 12 | 1 | 38.3 |
| dic | 29 | 2459212.75 | 18 | 34 | 44.32 | 11.1 | -23 | 11 | 48.21 | 9.8 | 0.98332 | 12 | 2 | 7.4 |
| dic | 30 | 2459213.75 | 18 | 39 | 9.75 | 11.0 | -23 | 7 | 53.90 | 10.9 | 0.98329 | 12 | 2 | 36.2 |
| dic | 31 | 2459214.75 | 18 | 43 | 34.91 | 11.0 | -23 | 3 | 31.87 | 10.9 | 0.98327 | 12 | 3 | 6.6 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | δ ° | " | dis DT | | | fase | hp h | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|-------|------|------|---------|------|
| ene | 1 | 2458849.75 | 23 | 27 | 52.62 | -8 | 53 | 47.77 | 63.37 | 14.8 | 54.3 | 30.0 | 17.2 |
| ene | 2 | 2458850.75 | 0 | 11 | 58.12 | -4 | 25 | 0.74 | 63.44 | 14.8 | 54.2 | 39.0 | 17.8 |
| ene | 3 | 2458851.75 | 0 | 55 | 32.60 | +0 | 13 | 31.47 | 63.29 | 14.8 | 54.3 | 48.4 | 18.5 |
| ene | 4 | 2458852.75 | 1 | 39 | 29.30 | +4 | 53 | 43.15 | 62.95 | 14.9 | 54.5 | 58.0 | 19.2 |
| ene | 5 | 2458853.75 | 2 | 24 | 42.70 | +9 | 26 | 56.75 | 62.42 | 15.0 | 55.0 | 67.3 | 19.9 |
| ene | 6 | 2458854.75 | 3 | 12 | 5.81 | +13 | 43 | 1.37 | 61.73 | 15.1 | 55.5 | 76.2 | 20.6 |
| ene | 7 | 2458855.75 | 4 | 2 | 24.88 | +17 | 29 | 22.19 | 60.95 | 15.3 | 56.2 | 84.2 | 21.4 |
| ene | 8 | 2458856.75 | 4 | 56 | 9.62 | +20 | 30 | 48.45 | 60.12 | 15.5 | 57.0 | 91.0 | 22.2 |
| ene | 9 | 2458857.75 | 5 | 53 | 19.67 | +22 | 30 | 36.07 | 59.31 | 15.7 | 57.8 | 96.2 | 23.1 |
| ene | 10 | 2458858.75 | 6 | 53 | 13.16 | +23 | 13 | 18.30 | 58.60 | 15.9 | 58.5 | 99.3 | 0.0 |
| ene | 11 | 2458859.75 | 7 | 54 | 28.71 | +22 | 28 | 57.93 | 58.02 | 16.1 | 59.1 | 99.9 | 1.0 |
| ene | 12 | 2458860.75 | 8 | 55 | 28.12 | +20 | 16 | 48.09 | 57.61 | 16.2 | 59.6 | 98.0 | 1.9 |
| ene | 13 | 2458861.75 | 9 | 54 | 49.91 | +16 | 46 | 4.95 | 57.41 | 16.3 | 59.9 | 93.3 | 2.8 |
| ene | 14 | 2458862.75 | 10 | 51 | 52.94 | +12 | 13 | 42.96 | 57.39 | 16.3 | 59.9 | 86.3 | 3.7 |
| ene | 15 | 2458863.75 | 11 | 46 | 39.07 | +7 | 0 | 17.97 | 57.53 | 16.3 | 59.8 | 77.2 | 4.6 |
| ene | 16 | 2458864.75 | 12 | 39 | 41.44 | +1 | 26 | 47.62 | 57.81 | 16.2 | 59.5 | 66.7 | 5.4 |
| ene | 17 | 2458865.75 | 13 | 31 | 49.30 | -4 | 7 | 14.60 | 58.18 | 16.1 | 59.2 | 55.4 | 6.2 |
| ene | 18 | 2458866.75 | 14 | 23 | 55.22 | -9 | 24 | 5.50 | 58.61 | 16.0 | 58.8 | 44.1 | 7.0 |
| ene | 19 | 2458867.75 | 15 | 16 | 44.76 | -14 | 7 | 38.08 | 59.08 | 15.9 | 58.3 | 33.2 | 7.8 |
| ene | 20 | 2458868.75 | 16 | 10 | 47.33 | -18 | 3 | 14.55 | 59.57 | 15.8 | 57.8 | 23.3 | 8.6 |
| ene | 21 | 2458869.75 | 17 | 6 | 7.67 | -20 | 58 | 14.17 | 60.07 | 15.6 | 57.4 | 14.8 | 9.5 |
| ene | 22 | 2458870.75 | 18 | 2 | 21.19 | -22 | 43 | 6.93 | 60.59 | 15.5 | 56.9 | 8.1 | 10.4 |
| ene | 23 | 2458871.75 | 18 | 58 | 37.68 | -23 | 13 | 8.86 | 61.11 | 15.4 | 56.4 | 3.4 | 11.2 |
| ene | 24 | 2458872.75 | 19 | 53 | 55.23 | -22 | 29 | 24.88 | 61.64 | 15.2 | 55.9 | 0.7 | 12.1 |
| ene | 25 | 2458873.75 | 20 | 47 | 19.40 | -20 | 38 | 32.04 | 62.15 | 15.1 | 55.4 | 0.0 | 12.9 |
| ene | 26 | 2458874.75 | 21 | 38 | 17.91 | -17 | 51 | 1.85 | 62.62 | 15.0 | 55.0 | 1.4 | 13.7 |
| ene | 27 | 2458875.75 | 22 | 26 | 45.23 | -14 | 19 | 10.43 | 63.03 | 14.9 | 54.6 | 4.6 | 14.4 |
| ene | 28 | 2458876.75 | 23 | 12 | 58.86 | -10 | 15 | 8.15 | 63.34 | 14.8 | 54.3 | 9.5 | 15.1 |
| ene | 29 | 2458877.75 | 23 | 57 | 32.18 | -5 | 49 | 58.39 | 63.53 | 14.8 | 54.1 | 15.8 | 15.8 |
| ene | 30 | 2458878.75 | 0 | 41 | 8.22 | -1 | 13 | 23.24 | 63.55 | 14.7 | 54.1 | 23.3 | 16.5 |
| ene | 31 | 2458879.75 | 1 | 24 | 35.43 | +3 | 25 | 56.28 | 63.40 | 14.8 | 54.2 | 31.7 | 17.1 |
| feb | 1 | 2458880.75 | 2 | 8 | 45.30 | +7 | 59 | 38.13 | 63.05 | 14.8 | 54.5 | 40.9 | 17.8 |
| feb | 2 | 2458881.75 | 2 | 54 | 30.32 | +12 | 18 | 45.81 | 62.50 | 14.9 | 54.9 | 50.5 | 18.5 |
| feb | 3 | 2458882.75 | 3 | 42 | 40.82 | +16 | 12 | 52.25 | 61.79 | 15.1 | 55.5 | 60.2 | 19.2 |
| feb | 4 | 2458883.75 | 4 | 33 | 58.61 | +19 | 29 | 16.72 | 60.93 | 15.3 | 56.2 | 69.8 | 20.0 |
| feb | 5 | 2458884.75 | 5 | 28 | 46.28 | +21 | 53 | 2.86 | 60.00 | 15.6 | 57.1 | 78.9 | 20.9 |
| feb | 6 | 2458885.75 | 6 | 26 | 53.79 | +23 | 8 | 17.07 | 59.05 | 15.8 | 58.0 | 86.9 | 21.8 |
| feb | 7 | 2458886.75 | 7 | 27 | 29.94 | +23 | 1 | 13.69 | 58.16 | 16.1 | 58.9 | 93.5 | 22.7 |
| feb | 8 | 2458887.75 | 8 | 29 | 9.54 | +21 | 24 | 31.03 | 57.40 | 16.3 | 59.7 | 98.0 | 23.7 |
| feb | 9 | 2458888.75 | 9 | 30 | 19.57 | +18 | 20 | 36.81 | 56.86 | 16.4 | 60.3 | 99.9 | 0.6 |
| feb | 10 | 2458889.75 | 10 | 29 | 50.67 | +14 | 2 | 18.01 | 56.56 | 16.6 | 60.7 | 99.1 | 1.6 |
| feb | 11 | 2458890.75 | 11 | 27 | 14.57 | +8 | 50 | 0.11 | 56.53 | 16.6 | 60.8 | 95.3 | 2.5 |
| feb | 12 | 2458891.75 | 12 | 22 | 41.84 | +3 | 7 | 39.33 | 56.76 | 16.5 | 60.6 | 88.8 | 3.3 |
| feb | 13 | 2458892.75 | 13 | 16 | 48.32 | -2 | 40 | 54.07 | 57.19 | 16.4 | 60.2 | 80.1 | 4.2 |
| feb | 14 | 2458893.75 | 14 | 10 | 19.95 | -8 | 14 | 6.63 | 57.79 | 16.2 | 59.6 | 69.9 | 5.0 |
| feb | 15 | 2458894.75 | 15 | 4 | 0.23 | -13 | 13 | 30.76 | 58.47 | 16.1 | 59.0 | 58.9 | 5.8 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | dia | dj | h | α m | s | δ ° | " | dis DT | fase | hp h | | | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|-------|---------|------|------|------|
| feb | 16 | 2458895.75 | 15 | 58 | 20.12 | -17 | 23 | 50.49 | 59.20 | 15.9 | 58.2 | 47.7 | 6.7 |
| feb | 17 | 2458896.75 | 16 | 53 | 30.14 | -20 | 33 | 2.79 | 59.93 | 15.7 | 57.5 | 37.0 | 7.5 |
| feb | 18 | 2458897.75 | 17 | 49 | 15.91 | -22 | 32 | 40.47 | 60.61 | 15.5 | 56.9 | 27.1 | 8.4 |
| feb | 19 | 2458898.75 | 18 | 45 | 0.38 | -23 | 18 | 34.10 | 61.25 | 15.3 | 56.3 | 18.4 | 9.2 |
| feb | 20 | 2458899.75 | 19 | 39 | 53.92 | -22 | 51 | 24.35 | 61.82 | 15.2 | 55.7 | 11.3 | 10.1 |
| feb | 21 | 2458900.75 | 20 | 33 | 9.41 | -21 | 16 | 31.86 | 62.32 | 15.1 | 55.3 | 5.8 | 10.9 |
| feb | 22 | 2458901.75 | 21 | 24 | 15.39 | -18 | 42 | 55.12 | 62.76 | 14.9 | 54.9 | 2.0 | 11.7 |
| feb | 23 | 2458902.75 | 22 | 13 | 1.99 | -15 | 21 | 37.95 | 63.12 | 14.9 | 54.5 | 0.2 | 12.4 |
| feb | 24 | 2458903.75 | 22 | 59 | 39.75 | -11 | 24 | 21.03 | 63.41 | 14.8 | 54.3 | 0.3 | 13.2 |
| feb | 25 | 2458904.75 | 23 | 44 | 34.55 | -7 | 2 | 21.76 | 63.61 | 14.7 | 54.1 | 2.1 | 13.8 |
| feb | 26 | 2458905.75 | 0 | 28 | 22.19 | -2 | 26 | 5.98 | 63.70 | 14.7 | 54.0 | 5.7 | 14.5 |
| feb | 27 | 2458906.75 | 1 | 11 | 44.39 | +2 | 14 | 52.23 | 63.66 | 14.7 | 54.0 | 10.9 | 15.2 |
| feb | 28 | 2458907.75 | 1 | 55 | 26.19 | +6 | 51 | 30.96 | 63.48 | 14.7 | 54.1 | 17.5 | 15.8 |
| feb | 29 | 2458908.75 | 2 | 40 | 14.08 | +11 | 14 | 47.87 | 63.14 | 14.8 | 54.4 | 25.3 | 16.5 |
| mar | 1 | 2458909.75 | 3 | 26 | 53.84 | +15 | 15 | 1.19 | 62.62 | 14.9 | 54.8 | 34.0 | 17.2 |
| mar | 2 | 2458910.75 | 4 | 16 | 6.38 | +18 | 41 | 11.87 | 61.94 | 15.1 | 55.4 | 43.5 | 18.0 |
| mar | 3 | 2458911.75 | 5 | 8 | 20.79 | +21 | 20 | 44.12 | 61.11 | 15.3 | 56.1 | 53.5 | 18.8 |
| mar | 4 | 2458912.75 | 6 | 3 | 44.47 | +22 | 59 | 50.49 | 60.18 | 15.5 | 56.9 | 63.6 | 19.6 |
| mar | 5 | 2458913.75 | 7 | 1 | 53.98 | +23 | 25 | 6.98 | 59.18 | 15.8 | 57.9 | 73.5 | 20.5 |
| mar | 6 | 2458914.75 | 8 | 1 | 53.74 | +22 | 26 | 25.80 | 58.20 | 16.0 | 58.8 | 82.6 | 21.5 |
| mar | 7 | 2458915.75 | 9 | 2 | 28.94 | +20 | 0 | 17.17 | 57.32 | 16.3 | 59.8 | 90.4 | 22.4 |
| mar | 8 | 2458916.75 | 10 | 2 | 29.46 | +16 | 12 | 10.06 | 56.61 | 16.5 | 60.6 | 96.2 | 23.3 |
| mar | 9 | 2458917.75 | 11 | 1 | 11.57 | +11 | 16 | 38.38 | 56.15 | 16.7 | 61.1 | 99.5 | 0.3 |
| mar | 10 | 2458918.75 | 11 | 58 | 25.94 | +5 | 35 | 17.65 | 55.99 | 16.7 | 61.4 | 99.7 | 1.1 |
| mar | 11 | 2458919.75 | 12 | 54 | 31.76 | -0 | 26 | 29.81 | 56.14 | 16.7 | 61.3 | 96.9 | 2.0 |
| mar | 12 | 2458920.75 | 13 | 50 | 3.75 | -6 | 22 | 53.91 | 56.56 | 16.6 | 60.9 | 91.3 | 2.9 |
| mar | 13 | 2458921.75 | 14 | 45 | 38.45 | -11 | 50 | 13.58 | 57.23 | 16.4 | 60.3 | 83.3 | 3.7 |
| mar | 14 | 2458922.75 | 15 | 41 | 42.08 | -16 | 28 | 40.42 | 58.04 | 16.2 | 59.4 | 73.6 | 4.6 |
| mar | 15 | 2458923.75 | 16 | 38 | 21.41 | -20 | 3 | 16.20 | 58.95 | 15.9 | 58.5 | 63.1 | 5.5 |
| mar | 16 | 2458924.75 | 17 | 35 | 19.21 | -22 | 24 | 26.08 | 59.86 | 15.7 | 57.6 | 52.3 | 6.4 |
| mar | 17 | 2458925.75 | 18 | 31 | 57.28 | -23 | 28 | 13.71 | 60.73 | 15.5 | 56.8 | 41.8 | 7.2 |
| mar | 18 | 2458926.75 | 19 | 27 | 27.46 | -23 | 16 | 9.82 | 61.51 | 15.3 | 56.1 | 31.9 | 8.1 |
| mar | 19 | 2458927.75 | 20 | 21 | 6.39 | -21 | 54 | 19.35 | 62.18 | 15.1 | 55.4 | 22.9 | 8.9 |
| mar | 20 | 2458928.75 | 21 | 12 | 27.23 | -19 | 31 | 56.03 | 62.73 | 15.0 | 54.9 | 15.2 | 9.7 |
| mar | 21 | 2458929.75 | 22 | 1 | 24.14 | -16 | 19 | 48.97 | 63.15 | 14.8 | 54.5 | 9.0 | 10.5 |
| mar | 22 | 2458930.75 | 22 | 48 | 10.10 | -12 | 29 | 9.07 | 63.46 | 14.8 | 54.2 | 4.3 | 11.2 |
| mar | 23 | 2458931.75 | 23 | 33 | 11.66 | -8 | 10 | 47.09 | 63.66 | 14.7 | 54.0 | 1.3 | 11.9 |
| mar | 24 | 2458932.75 | 0 | 17 | 3.74 | -3 | 34 | 58.93 | 63.76 | 14.7 | 53.9 | 0.0 | 12.5 |
| mar | 25 | 2458933.75 | 1 | 0 | 25.83 | +1 | 8 | 29.44 | 63.75 | 14.7 | 53.9 | 0.6 | 13.2 |
| mar | 26 | 2458934.75 | 1 | 43 | 59.50 | +5 | 50 | 7.45 | 63.63 | 14.7 | 54.0 | 2.9 | 13.9 |
| mar | 27 | 2458935.75 | 2 | 28 | 26.76 | +10 | 20 | 18.91 | 63.40 | 14.8 | 54.2 | 7.0 | 14.5 |
| mar | 28 | 2458936.75 | 3 | 14 | 27.94 | +14 | 29 | 0.55 | 63.05 | 14.8 | 54.5 | 12.6 | 15.2 |
| mar | 29 | 2458937.75 | 4 | 2 | 38.54 | +18 | 5 | 22.45 | 62.57 | 14.9 | 54.8 | 19.7 | 16.0 |
| mar | 30 | 2458938.75 | 4 | 53 | 23.92 | +20 | 57 | 41.90 | 61.96 | 15.1 | 55.4 | 28.1 | 16.7 |
| mar | 31 | 2458939.75 | 5 | 46 | 52.32 | +22 | 53 | 43.47 | 61.22 | 15.2 | 56.0 | 37.4 | 17.6 |
| abr | 1 | 2458940.75 | 6 | 42 | 48.34 | +23 | 41 | 42.04 | 60.38 | 15.5 | 56.7 | 47.5 | 18.4 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ' | δ " | ' | dis DT | ' | ' | fase | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|------|------|-------|---------|
| abr | 2 | 2458941.75 | 7 | 40 | 31.85 | +23 | 12 | 12.09 | 59.47 | 15.7 | 57.6 | 58.1 | 19.3 |
| abr | 3 | 2458942.75 | 8 | 39 | 6.29 | +21 | 20 | 20.34 | 58.53 | 15.9 | 58.5 | 68.6 | 20.2 |
| abr | 4 | 2458943.75 | 9 | 37 | 35.50 | +18 | 7 | 35.45 | 57.64 | 16.2 | 59.4 | 78.6 | 21.2 |
| abr | 5 | 2458944.75 | 10 | 35 | 21.15 | +13 | 42 | 36.51 | 56.87 | 16.4 | 60.3 | 87.3 | 22.1 |
| abr | 6 | 2458945.75 | 11 | 32 | 12.06 | +8 | 20 | 51.32 | 56.30 | 16.6 | 60.9 | 94.2 | 22.9 |
| abr | 7 | 2458946.75 | 12 | 28 | 22.78 | +2 | 23 | 22.05 | 56.00 | 16.7 | 61.3 | 98.6 | 23.8 |
| abr | 8 | 2458947.75 | 13 | 24 | 24.63 | -3 | 45 | 5.31 | 56.00 | 16.7 | 61.4 | 100.0 | 0.7 |
| abr | 9 | 2458948.75 | 14 | 20 | 53.36 | -9 | 38 | 21.02 | 56.30 | 16.7 | 61.2 | 98.3 | 1.5 |
| abr | 10 | 2458949.75 | 15 | 18 | 15.90 | -14 | 51 | 30.82 | 56.88 | 16.5 | 60.6 | 93.7 | 2.4 |
| abr | 11 | 2458950.75 | 16 | 16 | 38.14 | -19 | 3 | 34.61 | 57.67 | 16.3 | 59.8 | 86.7 | 3.3 |
| abr | 12 | 2458951.75 | 17 | 15 | 37.33 | -21 | 59 | 42.13 | 58.61 | 16.1 | 58.9 | 77.9 | 4.3 |
| abr | 13 | 2458952.75 | 18 | 14 | 24.09 | -23 | 32 | 39.55 | 59.59 | 15.8 | 57.9 | 68.1 | 5.2 |
| abr | 14 | 2458953.75 | 19 | 11 | 56.08 | -23 | 42 | 56.31 | 60.56 | 15.5 | 57.0 | 57.8 | 6.1 |
| abr | 15 | 2458954.75 | 20 | 7 | 17.84 | -22 | 37 | 21.32 | 61.45 | 15.3 | 56.1 | 47.5 | 6.9 |
| abr | 16 | 2458955.75 | 20 | 59 | 56.29 | -20 | 26 | 39.09 | 62.21 | 15.1 | 55.4 | 37.6 | 7.7 |
| abr | 17 | 2458956.75 | 21 | 49 | 45.49 | -17 | 23 | 2.87 | 62.82 | 14.9 | 54.8 | 28.4 | 8.5 |
| abr | 18 | 2458957.75 | 22 | 37 | 2.27 | -13 | 38 | 32.62 | 63.27 | 14.8 | 54.4 | 20.2 | 9.2 |
| abr | 19 | 2458958.75 | 23 | 22 | 18.49 | -9 | 24 | 9.32 | 63.56 | 14.8 | 54.1 | 13.1 | 9.9 |
| abr | 20 | 2458959.75 | 0 | 6 | 14.12 | -4 | 49 | 53.88 | 63.71 | 14.7 | 54.0 | 7.4 | 10.6 |
| abr | 21 | 2458960.75 | 0 | 49 | 32.58 | -0 | 5 | 8.87 | 63.71 | 14.7 | 54.0 | 3.2 | 11.2 |
| abr | 22 | 2458961.75 | 1 | 32 | 58.06 | +4 | 40 | 50.73 | 63.60 | 14.7 | 54.0 | 0.7 | 11.9 |
| abr | 23 | 2458962.75 | 2 | 17 | 13.79 | +9 | 18 | 27.82 | 63.39 | 14.8 | 54.2 | 0.0 | 12.6 |
| abr | 24 | 2458963.75 | 3 | 2 | 59.96 | +13 | 37 | 19.74 | 63.09 | 14.8 | 54.4 | 1.1 | 13.3 |
| abr | 25 | 2458964.75 | 3 | 50 | 50.53 | +17 | 26 | 6.91 | 62.70 | 14.9 | 54.7 | 4.1 | 14.0 |
| abr | 26 | 2458965.75 | 4 | 41 | 8.05 | +20 | 32 | 39.68 | 62.23 | 15.0 | 55.1 | 8.8 | 14.8 |
| abr | 27 | 2458966.75 | 5 | 33 | 57.18 | +22 | 44 | 35.76 | 61.68 | 15.2 | 55.6 | 15.2 | 15.6 |
| abr | 28 | 2458967.75 | 6 | 28 | 59.42 | +23 | 50 | 32.90 | 61.05 | 15.3 | 56.2 | 23.1 | 16.4 |
| abr | 29 | 2458968.75 | 7 | 25 | 33.45 | +23 | 41 | 50.97 | 60.35 | 15.5 | 56.8 | 32.3 | 17.3 |
| abr | 30 | 2458969.75 | 8 | 22 | 44.39 | +22 | 14 | 14.51 | 59.60 | 15.7 | 57.5 | 42.5 | 18.2 |
| may | 1 | 2458970.75 | 9 | 19 | 40.18 | +19 | 28 | 56.90 | 58.83 | 15.9 | 58.3 | 53.4 | 19.1 |
| may | 2 | 2458971.75 | 10 | 15 | 47.31 | +15 | 32 | 47.25 | 58.07 | 16.1 | 59.0 | 64.4 | 20.0 |
| may | 3 | 2458972.75 | 11 | 10 | 58.96 | +10 | 37 | 36.52 | 57.39 | 16.3 | 59.8 | 75.0 | 20.8 |
| may | 4 | 2458973.75 | 12 | 5 | 33.73 | +4 | 59 | 35.07 | 56.84 | 16.4 | 60.4 | 84.5 | 21.7 |
| may | 5 | 2458974.75 | 13 | 0 | 8.04 | -1 | 1 | 22.54 | 56.49 | 16.6 | 60.8 | 92.2 | 22.5 |
| may | 6 | 2458975.75 | 13 | 55 | 25.73 | -7 | 2 | 18.88 | 56.39 | 16.6 | 61.0 | 97.5 | 23.4 |
| may | 7 | 2458976.75 | 14 | 52 | 5.59 | -12 | 38 | 28.30 | 56.56 | 16.6 | 60.9 | 99.9 | 0.2 |
| may | 8 | 2458977.75 | 15 | 50 | 27.45 | -17 | 25 | 29.81 | 57.00 | 16.5 | 60.5 | 99.3 | 1.1 |
| may | 9 | 2458978.75 | 16 | 50 | 18.97 | -21 | 2 | 33.22 | 57.67 | 16.3 | 59.8 | 95.9 | 2.1 |
| may | 10 | 2458979.75 | 17 | 50 | 50.14 | -23 | 15 | 40.60 | 58.51 | 16.1 | 59.0 | 90.1 | 3.0 |
| may | 11 | 2458980.75 | 18 | 50 | 43.51 | -24 | 0 | 5.61 | 59.44 | 15.8 | 58.1 | 82.5 | 3.9 |
| may | 12 | 2458981.75 | 19 | 48 | 38.89 | -23 | 20 | 10.93 | 60.40 | 15.6 | 57.1 | 73.7 | 4.8 |
| may | 13 | 2458982.75 | 20 | 43 | 39.28 | -21 | 26 | 58.23 | 61.30 | 15.3 | 56.3 | 64.1 | 5.7 |
| may | 14 | 2458983.75 | 21 | 35 | 23.30 | -18 | 34 | 31.53 | 62.10 | 15.1 | 55.5 | 54.1 | 6.5 |
| may | 15 | 2458984.75 | 22 | 24 | 2.20 | -14 | 56 | 57.08 | 62.74 | 15.0 | 54.9 | 44.3 | 7.2 |
| may | 16 | 2458985.75 | 23 | 10 | 9.28 | -10 | 46 | 48.56 | 63.21 | 14.8 | 54.5 | 34.9 | 7.9 |
| may | 17 | 2458986.75 | 23 | 54 | 29.38 | -6 | 14 | 49.41 | 63.49 | 14.8 | 54.2 | 26.1 | 8.6 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | dia | dj | h | α m | s | δ ° | " | dis DT | fase | hp h | | | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|-------|---------|------|------|------|
| may | 18 | 2458987.75 | 0 | 37 | 51.93 | -1 | 30 | 20.33 | 63.58 | 14.7 | 54.1 | 18.3 | 9.3 |
| may | 19 | 2458988.75 | 1 | 21 | 7.16 | +3 | 17 | 53.72 | 63.52 | 14.7 | 54.1 | 11.5 | 9.9 |
| may | 20 | 2458989.75 | 2 | 5 | 4.03 | +8 | 0 | 54.56 | 63.31 | 14.8 | 54.2 | 6.2 | 10.6 |
| may | 21 | 2458990.75 | 2 | 50 | 28.26 | +12 | 28 | 48.43 | 62.99 | 14.8 | 54.5 | 2.4 | 11.3 |
| may | 22 | 2458991.75 | 3 | 37 | 59.05 | +16 | 30 | 18.90 | 62.58 | 14.9 | 54.8 | 0.3 | 12.0 |
| may | 23 | 2458992.75 | 4 | 28 | 3.52 | +19 | 52 | 46.16 | 62.12 | 15.1 | 55.2 | 0.2 | 12.8 |
| may | 24 | 2458993.75 | 5 | 20 | 49.08 | +22 | 22 | 47.55 | 61.61 | 15.2 | 55.7 | 2.0 | 13.6 |
| may | 25 | 2458994.75 | 6 | 15 | 56.50 | +23 | 47 | 47.51 | 61.07 | 15.3 | 56.2 | 5.8 | 14.4 |
| may | 26 | 2458995.75 | 7 | 12 | 39.11 | +23 | 58 | 7.56 | 60.52 | 15.4 | 56.7 | 11.5 | 15.3 |
| may | 27 | 2458996.75 | 8 | 9 | 53.02 | +22 | 49 | 13.04 | 59.96 | 15.6 | 57.2 | 19.1 | 16.2 |
| may | 28 | 2458997.75 | 9 | 6 | 36.31 | +20 | 22 | 39.21 | 59.40 | 15.7 | 57.8 | 28.2 | 17.1 |
| may | 29 | 2458998.75 | 10 | 2 | 8.06 | +16 | 45 | 47.75 | 58.84 | 15.9 | 58.3 | 38.5 | 18.0 |
| may | 30 | 2458999.75 | 10 | 56 | 17.97 | +12 | 10 | 24.80 | 58.31 | 16.0 | 58.8 | 49.7 | 18.8 |
| may | 31 | 2459000.75 | 11 | 49 | 24.79 | +6 | 51 | 16.55 | 57.84 | 16.2 | 59.3 | 61.0 | 19.6 |
| jun | 1 | 2459001.75 | 12 | 42 | 8.35 | +1 | 5 | 21.62 | 57.46 | 16.3 | 59.8 | 72.0 | 20.4 |
| jun | 2 | 2459002.75 | 13 | 35 | 19.42 | -4 | 48 | 20.22 | 57.21 | 16.4 | 60.0 | 81.9 | 21.2 |
| jun | 3 | 2459003.75 | 14 | 29 | 49.01 | -10 | 28 | 50.33 | 57.13 | 16.4 | 60.2 | 90.1 | 22.1 |
| jun | 4 | 2459004.75 | 15 | 26 | 15.91 | -15 | 33 | 46.23 | 57.25 | 16.4 | 60.1 | 96.0 | 23.0 |
| jun | 5 | 2459005.75 | 16 | 24 | 52.02 | -19 | 41 | 6.76 | 57.59 | 16.3 | 59.8 | 99.3 | 23.9 |
| jun | 6 | 2459006.75 | 17 | 25 | 9.36 | -22 | 32 | 18.42 | 58.12 | 16.2 | 59.3 | 99.9 | 0.8 |
| jun | 7 | 2459007.75 | 18 | 25 | 58.52 | -23 | 55 | 58.25 | 58.81 | 16.0 | 58.6 | 97.8 | 1.8 |
| jun | 8 | 2459008.75 | 19 | 25 | 46.63 | -23 | 50 | 24.69 | 59.61 | 15.8 | 57.9 | 93.4 | 2.7 |
| jun | 9 | 2459009.75 | 20 | 23 | 8.97 | -22 | 23 | 14.29 | 60.47 | 15.6 | 57.0 | 87.1 | 3.6 |
| jun | 10 | 2459010.75 | 21 | 17 | 14.91 | -19 | 48 | 9.90 | 61.30 | 15.3 | 56.3 | 79.3 | 4.4 |
| jun | 11 | 2459011.75 | 22 | 7 | 54.99 | -16 | 20 | 57.51 | 62.05 | 15.1 | 55.6 | 70.6 | 5.2 |
| jun | 12 | 2459012.75 | 22 | 55 | 32.38 | -12 | 16 | 26.41 | 62.67 | 15.0 | 55.0 | 61.2 | 5.9 |
| jun | 13 | 2459013.75 | 23 | 40 | 49.64 | -7 | 47 | 12.25 | 63.11 | 14.9 | 54.5 | 51.6 | 6.6 |
| jun | 14 | 2459014.75 | 0 | 24 | 38.32 | -3 | 3 | 38.46 | 63.37 | 14.8 | 54.3 | 42.1 | 7.3 |
| jun | 15 | 2459015.75 | 1 | 7 | 52.84 | +1 | 45 | 20.18 | 63.42 | 14.8 | 54.2 | 32.9 | 7.9 |
| jun | 16 | 2459016.75 | 1 | 51 | 27.52 | +6 | 31 | 17.94 | 63.29 | 14.8 | 54.3 | 24.3 | 8.6 |
| jun | 17 | 2459017.75 | 2 | 36 | 14.58 | +11 | 5 | 18.60 | 62.99 | 14.8 | 54.5 | 16.6 | 9.3 |
| jun | 18 | 2459018.75 | 3 | 23 | 1.52 | +15 | 17 | 5.01 | 62.56 | 14.9 | 54.9 | 10.1 | 10.0 |
| jun | 19 | 2459019.75 | 4 | 12 | 25.87 | +18 | 54 | 30.14 | 62.03 | 15.1 | 55.3 | 4.9 | 10.7 |
| jun | 20 | 2459020.75 | 5 | 4 | 46.93 | +21 | 43 | 49.97 | 61.45 | 15.2 | 55.8 | 1.5 | 11.5 |
| jun | 21 | 2459021.75 | 5 | 59 | 55.93 | +23 | 30 | 58.68 | 60.84 | 15.4 | 56.4 | 0.0 | 12.4 |
| jun | 22 | 2459022.75 | 6 | 57 | 10.42 | +24 | 3 | 53.46 | 60.26 | 15.5 | 56.9 | 0.7 | 13.3 |
| jun | 23 | 2459023.75 | 7 | 55 | 20.50 | +23 | 15 | 31.52 | 59.72 | 15.7 | 57.4 | 3.6 | 14.2 |
| jun | 24 | 2459024.75 | 8 | 53 | 9.11 | +21 | 5 | 57.32 | 59.24 | 15.8 | 57.9 | 8.7 | 15.1 |
| jun | 25 | 2459025.75 | 9 | 49 | 36.94 | +17 | 42 | 30.79 | 58.83 | 15.9 | 58.3 | 15.9 | 16.0 |
| jun | 26 | 2459026.75 | 10 | 44 | 18.38 | +13 | 18 | 3.69 | 58.49 | 16.0 | 58.7 | 24.9 | 16.8 |
| jun | 27 | 2459027.75 | 11 | 37 | 22.87 | +8 | 8 | 36.70 | 58.22 | 16.1 | 59.0 | 35.3 | 17.6 |
| jun | 28 | 2459028.75 | 12 | 29 | 26.40 | +2 | 31 | 32.90 | 58.01 | 16.1 | 59.2 | 46.6 | 18.4 |
| jun | 29 | 2459029.75 | 13 | 21 | 20.29 | -3 | 15 | 8.87 | 57.89 | 16.2 | 59.4 | 58.1 | 19.2 |
| jun | 30 | 2459030.75 | 14 | 14 | 0.41 | -8 | 52 | 54.50 | 57.85 | 16.2 | 59.4 | 69.2 | 20.0 |
| jul | 1 | 2459031.75 | 15 | 8 | 16.53 | -14 | 2 | 26.12 | 57.93 | 16.2 | 59.4 | 79.3 | 20.9 |
| jul | 2 | 2459032.75 | 16 | 4 | 39.76 | -18 | 24 | 6.94 | 58.12 | 16.1 | 59.2 | 87.8 | 21.8 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | δ ° | " | dis DT | · | · | fase | hp h | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|-------|------|------|---------|------|
| jul | 3 | 2459033.75 | 17 | 3 | 8.71 | -21 | 39 | 35.91 | 58.45 | 16.1 | 58.9 | 94.3 | 22.7 |
| jul | 4 | 2459034.75 | 18 | 3 | 0.37 | -23 | 34 | 39.76 | 58.90 | 15.9 | 58.5 | 98.3 | 23.6 |
| jul | 5 | 2459035.75 | 19 | 2 | 55.47 | -24 | 2 | 26.81 | 59.48 | 15.8 | 58.0 | 100.0 | 0.5 |
| jul | 6 | 2459036.75 | 20 | 1 | 22.43 | -23 | 5 | 11.79 | 60.14 | 15.6 | 57.3 | 99.2 | 1.4 |
| jul | 7 | 2459037.75 | 20 | 57 | 8.16 | -20 | 53 | 10.13 | 60.85 | 15.4 | 56.7 | 96.2 | 2.3 |
| | | | | | | | | | | | | | |
| jul | 8 | 2459038.75 | 21 | 49 | 37.31 | -17 | 41 | 17.44 | 61.55 | 15.3 | 56.0 | 91.2 | 3.1 |
| jul | 9 | 2459039.75 | 22 | 38 | 52.85 | -13 | 45 | 29.83 | 62.20 | 15.1 | 55.4 | 84.7 | 3.9 |
| jul | 10 | 2459040.75 | 23 | 25 | 25.33 | -9 | 20 | 17.59 | 62.74 | 15.0 | 54.9 | 77.0 | 4.6 |
| jul | 11 | 2459041.75 | 0 | 10 | 0.73 | -4 | 37 | 51.67 | 63.13 | 14.9 | 54.5 | 68.3 | 5.3 |
| jul | 12 | 2459042.75 | 0 | 53 | 31.86 | +0 | 11 | 44.03 | 63.33 | 14.8 | 54.3 | 59.1 | 5.9 |
| | | | | | | | | | | | | | |
| jul | 13 | 2459043.75 | 1 | 36 | 53.75 | +4 | 59 | 45.19 | 63.35 | 14.8 | 54.2 | 49.7 | 6.6 |
| jul | 14 | 2459044.75 | 2 | 21 | 1.19 | +9 | 37 | 46.43 | 63.16 | 14.8 | 54.4 | 40.2 | 7.2 |
| jul | 15 | 2459045.75 | 3 | 6 | 46.67 | +13 | 56 | 39.82 | 62.78 | 14.9 | 54.7 | 31.0 | 7.9 |
| jul | 16 | 2459046.75 | 3 | 54 | 56.59 | +17 | 45 | 43.81 | 62.25 | 15.0 | 55.1 | 22.5 | 8.7 |
| jul | 17 | 2459047.75 | 4 | 46 | 4.21 | +20 | 52 | 18.45 | 61.60 | 15.2 | 55.7 | 14.8 | 9.5 |
| | | | | | | | | | | | | | |
| jul | 18 | 2459048.75 | 5 | 40 | 19.39 | +23 | 2 | 13.81 | 60.87 | 15.3 | 56.3 | 8.3 | 10.3 |
| jul | 19 | 2459049.75 | 6 | 37 | 18.24 | +24 | 1 | 36.96 | 60.14 | 15.5 | 57.0 | 3.5 | 11.2 |
| jul | 20 | 2459050.75 | 7 | 36 | 1.15 | +23 | 39 | 55.29 | 59.44 | 15.7 | 57.7 | 0.7 | 12.1 |
| jul | 21 | 2459051.75 | 8 | 35 | 6.37 | +21 | 53 | 13.76 | 58.84 | 15.9 | 58.3 | 0.1 | 13.0 |
| jul | 22 | 2459052.75 | 9 | 33 | 16.42 | +18 | 46 | 2.47 | 58.35 | 16.0 | 58.8 | 2.0 | 13.9 |
| | | | | | | | | | | | | | |
| jul | 23 | 2459053.75 | 10 | 29 | 42.60 | +14 | 30 | 33.70 | 58.01 | 16.1 | 59.2 | 6.5 | 14.8 |
| jul | 24 | 2459054.75 | 11 | 24 | 14.71 | +9 | 24 | 8.05 | 57.82 | 16.2 | 59.4 | 13.3 | 15.6 |
| jul | 25 | 2459055.75 | 12 | 17 | 15.88 | +3 | 46 | 23.11 | 57.76 | 16.2 | 59.5 | 22.1 | 16.5 |
| jul | 26 | 2459056.75 | 13 | 9 | 30.61 | -2 | 2 | 45.75 | 57.82 | 16.2 | 59.5 | 32.5 | 17.3 |
| jul | 27 | 2459057.75 | 14 | 1 | 52.51 | -7 | 43 | 57.72 | 57.98 | 16.2 | 59.4 | 43.7 | 18.1 |
| | | | | | | | | | | | | | |
| jul | 28 | 2459058.75 | 14 | 55 | 13.30 | -12 | 58 | 35.42 | 58.22 | 16.1 | 59.1 | 55.2 | 18.9 |
| jul | 29 | 2459059.75 | 15 | 50 | 11.65 | -17 | 28 | 47.06 | 58.53 | 16.0 | 58.8 | 66.3 | 19.7 |
| jul | 30 | 2459060.75 | 16 | 47 | 1.37 | -20 | 58 | 2.67 | 58.89 | 15.9 | 58.5 | 76.4 | 20.6 |
| jul | 31 | 2459061.75 | 17 | 45 | 21.35 | -23 | 12 | 48.51 | 59.32 | 15.8 | 58.1 | 85.1 | 21.5 |
| ago | 1 | 2459062.75 | 18 | 44 | 14.73 | -24 | 4 | 48.07 | 59.80 | 15.7 | 57.6 | 92.0 | 22.4 |
| | | | | | | | | | | | | | |
| ago | 2 | 2459063.75 | 19 | 42 | 23.10 | -23 | 33 | 1.49 | 60.32 | 15.6 | 57.1 | 96.8 | 23.4 |
| ago | 3 | 2459064.75 | 20 | 38 | 31.82 | -21 | 44 | 2.19 | 60.89 | 15.4 | 56.6 | 99.5 | 0.2 |
| ago | 4 | 2459065.75 | 21 | 31 | 52.43 | -18 | 50 | 5.44 | 61.47 | 15.3 | 56.1 | 99.9 | 1.0 |
| ago | 5 | 2459066.75 | 22 | 22 | 11.05 | -15 | 6 | 8.92 | 62.03 | 15.1 | 55.5 | 98.3 | 1.8 |
| ago | 6 | 2459067.75 | 23 | 9 | 43.58 | -10 | 47 | 12.80 | 62.55 | 15.0 | 55.1 | 94.7 | 2.5 |
| | | | | | | | | | | | | | |
| ago | 7 | 2459068.75 | 23 | 55 | 5.47 | -6 | 6 | 45.59 | 62.98 | 14.9 | 54.7 | 89.5 | 3.2 |
| ago | 8 | 2459069.75 | 0 | 39 | 2.62 | -1 | 16 | 16.66 | 63.28 | 14.8 | 54.4 | 82.8 | 3.9 |
| ago | 9 | 2459070.75 | 1 | 22 | 25.54 | +3 | 34 | 25.81 | 63.43 | 14.8 | 54.2 | 75.1 | 4.6 |
| ago | 10 | 2459071.75 | 2 | 6 | 6.25 | +8 | 16 | 32.18 | 63.40 | 14.8 | 54.2 | 66.5 | 5.2 |
| ago | 11 | 2459072.75 | 2 | 50 | 56.19 | +12 | 41 | 18.74 | 63.17 | 14.8 | 54.4 | 57.3 | 5.9 |
| | | | | | | | | | | | | | |
| ago | 12 | 2459073.75 | 3 | 37 | 43.72 | +16 | 39 | 13.74 | 62.74 | 14.9 | 54.7 | 47.7 | 6.6 |
| ago | 13 | 2459074.75 | 4 | 27 | 9.23 | +19 | 59 | 15.95 | 62.15 | 15.0 | 55.2 | 38.1 | 7.4 |
| ago | 14 | 2459075.75 | 5 | 19 | 37.02 | +22 | 28 | 43.61 | 61.40 | 15.2 | 55.8 | 28.8 | 8.2 |
| ago | 15 | 2459076.75 | 6 | 15 | 5.01 | +23 | 54 | 1.14 | 60.57 | 15.4 | 56.6 | 20.1 | 9.0 |
| ago | 16 | 2459077.75 | 7 | 12 | 57.21 | +24 | 2 | 46.08 | 59.69 | 15.6 | 57.4 | 12.3 | 9.9 |
| | | | | | | | | | | | | | |
| ago | 17 | 2459078.75 | 8 | 12 | 7.21 | +22 | 46 | 57.11 | 58.85 | 15.9 | 58.2 | 6.1 | 10.9 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | dia | dj | h | α m | s | δ ° | " | dis DT | fase | hp h | | | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|-------|---------|------|-------|------|
| ago | 18 | 2459079.75 | 9 | 11 | 16.58 | +20 | 5 | 54.46 | 58.11 | 16.1 | 59.0 | 1.9 | 11.8 |
| ago | 19 | 2459080.75 | 10 | 9 | 20.85 | +16 | 7 | 36.64 | 57.53 | 16.2 | 59.6 | 0.0 | 12.7 |
| ago | 20 | 2459081.75 | 11 | 5 | 47.97 | +11 | 7 | 37.60 | 57.16 | 16.4 | 60.1 | 0.9 | 13.6 |
| ago | 21 | 2459082.75 | 12 | 0 | 41.65 | +5 | 26 | 30.83 | 57.00 | 16.4 | 60.3 | 4.7 | 14.4 |
| ago | 22 | 2459083.75 | 12 | 54 | 32.77 | -0 | 33 | 2.53 | 57.06 | 16.4 | 60.3 | 11.0 | 15.2 |
| ago | 23 | 2459084.75 | 13 | 48 | 6.70 | -6 | 28 | 25.41 | 57.31 | 16.4 | 60.1 | 19.5 | 16.1 |
| ago | 24 | 2459085.75 | 14 | 42 | 10.82 | -11 | 58 | 24.33 | 57.72 | 16.3 | 59.7 | 29.6 | 16.9 |
| ago | 25 | 2459086.75 | 15 | 37 | 22.84 | -16 | 43 | 51.80 | 58.22 | 16.1 | 59.2 | 40.6 | 17.8 |
| ago | 26 | 2459087.75 | 16 | 33 | 59.59 | -20 | 28 | 22.80 | 58.79 | 16.0 | 58.6 | 51.9 | 18.6 |
| ago | 27 | 2459088.75 | 17 | 31 | 48.08 | -22 | 59 | 12.65 | 59.38 | 15.8 | 58.0 | 62.8 | 19.5 |
| ago | 28 | 2459089.75 | 18 | 30 | 4.03 | -24 | 8 | 41.99 | 59.97 | 15.7 | 57.5 | 72.9 | 20.4 |
| ago | 29 | 2459090.75 | 19 | 27 | 42.24 | -23 | 55 | 31.52 | 60.56 | 15.5 | 56.9 | 81.8 | 21.3 |
| ago | 30 | 2459091.75 | 20 | 23 | 36.87 | -22 | 24 | 52.76 | 61.12 | 15.4 | 56.4 | 89.1 | 22.2 |
| ago | 31 | 2459092.75 | 21 | 17 | 1.23 | -19 | 47 | 9.97 | 61.65 | 15.2 | 55.9 | 94.6 | 23.0 |
| sep | 1 | 2459093.75 | 22 | 7 | 37.39 | -16 | 15 | 46.68 | 62.15 | 15.1 | 55.4 | 98.3 | 23.8 |
| sep | 2 | 2459094.75 | 22 | 55 | 34.41 | -12 | 4 | 53.79 | 62.60 | 15.0 | 55.0 | 99.9 | 0.5 |
| sep | 3 | 2459095.75 | 23 | 41 | 20.61 | -7 | 28 | 0.89 | 62.99 | 14.9 | 54.6 | 99.6 | 1.2 |
| sep | 4 | 2459096.75 | 0 | 25 | 35.42 | -2 | 37 | 16.18 | 63.31 | 14.8 | 54.4 | 97.4 | 1.9 |
| sep | 5 | 2459097.75 | 1 | 9 | 3.67 | +2 | 16 | 36.43 | 63.51 | 14.8 | 54.2 | 93.4 | 2.6 |
| sep | 6 | 2459098.75 | 1 | 52 | 32.18 | +7 | 3 | 55.88 | 63.59 | 14.7 | 54.1 | 88.0 | 3.2 |
| sep | 7 | 2459099.75 | 2 | 36 | 47.70 | +11 | 35 | 30.76 | 63.51 | 14.7 | 54.1 | 81.2 | 3.9 |
| sep | 8 | 2459100.75 | 3 | 22 | 34.84 | +15 | 42 | 0.38 | 63.26 | 14.8 | 54.3 | 73.3 | 4.6 |
| sep | 9 | 2459101.75 | 4 | 10 | 32.73 | +19 | 13 | 19.42 | 62.83 | 14.9 | 54.6 | 64.5 | 5.3 |
| sep | 10 | 2459102.75 | 5 | 1 | 9.36 | +21 | 58 | 17.38 | 62.22 | 15.0 | 55.1 | 55.0 | 6.1 |
| sep | 11 | 2459103.75 | 5 | 54 | 33.81 | +23 | 44 | 52.81 | 61.45 | 15.2 | 55.8 | 45.1 | 6.9 |
| sep | 12 | 2459104.75 | 6 | 50 | 29.06 | +24 | 21 | 20.28 | 60.56 | 15.4 | 56.5 | 35.2 | 7.8 |
| sep | 13 | 2459105.75 | 7 | 48 | 10.66 | +23 | 38 | 15.69 | 59.61 | 15.7 | 57.4 | 25.5 | 8.7 |
| sep | 14 | 2459106.75 | 8 | 46 | 36.47 | +21 | 31 | 10.69 | 58.65 | 15.9 | 58.4 | 16.7 | 9.6 |
| sep | 15 | 2459107.75 | 9 | 44 | 45.84 | +18 | 2 | 36.92 | 57.77 | 16.2 | 59.3 | 9.1 | 10.5 |
| sep | 16 | 2459108.75 | 10 | 41 | 58.65 | +13 | 22 | 47.78 | 57.05 | 16.4 | 60.1 | 3.5 | 11.4 |
| sep | 17 | 2459109.75 | 11 | 38 | 4.95 | +7 | 48 | 49.66 | 56.55 | 16.5 | 60.7 | 0.5 | 12.3 |
| sep | 18 | 2459110.75 | 12 | 33 | 22.62 | +1 | 42 | 51.04 | 56.31 | 16.6 | 61.0 | 0.3 | 13.1 |
| sep | 19 | 2459111.75 | 13 | 28 | 27.57 | -4 | 30 | 15.36 | 56.36 | 16.6 | 61.0 | 3.1 | 14.0 |
| sep | 20 | 2459112.75 | 14 | 24 | 1.30 | -10 | 25 | 12.30 | 56.68 | 16.6 | 60.8 | 8.8 | 14.8 |
| sep | 21 | 2459113.75 | 15 | 20 | 37.79 | -15 | 38 | 25.04 | 57.21 | 16.4 | 60.2 | 16.7 | 15.7 |
| sep | 22 | 2459114.75 | 16 | 18 | 30.85 | -19 | 49 | 52.01 | 57.90 | 16.2 | 59.6 | 26.4 | 16.6 |
| sep | 23 | 2459115.75 | 17 | 17 | 24.65 | -22 | 44 | 43.99 | 58.68 | 16.0 | 58.8 | 36.9 | 17.5 |
| sep | 24 | 2459116.75 | 18 | 16 | 32.61 | -24 | 14 | 48.19 | 59.49 | 15.8 | 58.0 | 47.9 | 18.4 |
| sep | 25 | 2459117.75 | 19 | 14 | 48.89 | -24 | 19 | 10.53 | 60.28 | 15.6 | 57.2 | 58.6 | 19.3 |
| sep | 26 | 2459118.75 | 20 | 11 | 9.22 | -23 | 3 | 41.73 | 61.01 | 15.4 | 56.5 | 68.6 | 20.2 |
| sep | 27 | 2459119.75 | 21 | 4 | 50.01 | -20 | 39 | 5.42 | 61.66 | 15.2 | 55.9 | 77.7 | 21.0 |
| sep | 28 | 2459120.75 | 21 | 55 | 36.62 | -17 | 18 | 34.04 | 62.23 | 15.1 | 55.4 | 85.5 | 21.8 |
| sep | 29 | 2459121.75 | 22 | 43 | 40.51 | -13 | 15 | 48.08 | 62.70 | 15.0 | 54.9 | 91.7 | 22.6 |
| sep | 30 | 2459122.75 | 23 | 29 | 31.07 | -8 | 43 | 45.43 | 63.09 | 14.9 | 54.6 | 96.3 | 23.3 |
| oct | 1 | 2459123.75 | 0 | 13 | 47.57 | -3 | 54 | 17.27 | 63.38 | 14.8 | 54.3 | 99.1 | 23.9 |
| oct | 2 | 2459124.75 | 0 | 57 | 13.54 | +1 | 1 | 47.19 | 63.59 | 14.7 | 54.1 | 100.0 | 0.6 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ' | δ " | ' | dis DT | ' | " | fase | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|------|------|------|---------|
| oct | 3 | 2459125.75 | 1 | 40 | 33.49 | +5 | 54 | 22.18 | 63.69 | 14.7 | 54.0 | 99.1 | 1.2 |
| oct | 4 | 2459126.75 | 2 | 24 | 30.90 | +10 | 33 | 41.80 | 63.69 | 14.7 | 54.0 | 96.5 | 1.9 |
| oct | 5 | 2459127.75 | 3 | 9 | 46.40 | +14 | 49 | 55.76 | 63.56 | 14.7 | 54.0 | 92.2 | 2.6 |
| oct | 6 | 2459128.75 | 3 | 56 | 54.91 | +18 | 32 | 50.54 | 63.29 | 14.8 | 54.2 | 86.4 | 3.3 |
| oct | 7 | 2459129.75 | 4 | 46 | 21.25 | +21 | 31 | 41.86 | 62.88 | 14.9 | 54.6 | 79.2 | 4.1 |
| oct | 8 | 2459130.75 | 5 | 38 | 14.33 | +23 | 35 | 28.45 | 62.31 | 15.0 | 55.0 | 70.9 | 4.9 |
| oct | 9 | 2459131.75 | 6 | 32 | 22.00 | +24 | 33 | 40.29 | 61.59 | 15.2 | 55.6 | 61.6 | 5.7 |
| oct | 10 | 2459132.75 | 7 | 28 | 10.21 | +24 | 17 | 40.59 | 60.74 | 15.4 | 56.4 | 51.6 | 6.6 |
| oct | 11 | 2459133.75 | 8 | 24 | 50.17 | +22 | 42 | 26.11 | 59.81 | 15.6 | 57.2 | 41.2 | 7.5 |
| oct | 12 | 2459134.75 | 9 | 21 | 32.58 | +19 | 47 | 53.85 | 58.83 | 15.9 | 58.2 | 30.8 | 8.3 |
| oct | 13 | 2459135.75 | 10 | 17 | 43.15 | +15 | 39 | 47.61 | 57.89 | 16.1 | 59.2 | 21.0 | 9.2 |
| oct | 14 | 2459136.75 | 11 | 13 | 12.10 | +10 | 29 | 43.83 | 57.06 | 16.4 | 60.0 | 12.3 | 10.1 |
| oct | 15 | 2459137.75 | 12 | 8 | 14.81 | +4 | 34 | 49.97 | 56.42 | 16.6 | 60.8 | 5.5 | 10.9 |
| oct | 16 | 2459138.75 | 13 | 3 | 25.43 | -1 | 42 | 57.18 | 56.04 | 16.7 | 61.3 | 1.3 | 11.8 |
| oct | 17 | 2459139.75 | 13 | 59 | 26.38 | -7 | 58 | 5.94 | 55.97 | 16.7 | 61.4 | 0.0 | 12.6 |
| oct | 18 | 2459140.75 | 14 | 56 | 55.21 | -13 | 43 | 31.09 | 56.21 | 16.7 | 61.3 | 1.8 | 13.5 |
| oct | 19 | 2459141.75 | 15 | 56 | 9.41 | -18 | 33 | 26.59 | 56.72 | 16.6 | 60.8 | 6.5 | 14.5 |
| oct | 20 | 2459142.75 | 16 | 56 | 52.45 | -22 | 6 | 49.43 | 57.46 | 16.4 | 60.0 | 13.6 | 15.4 |
| oct | 21 | 2459143.75 | 17 | 58 | 8.99 | -24 | 10 | 32.55 | 58.34 | 16.1 | 59.2 | 22.5 | 16.4 |
| oct | 22 | 2459144.75 | 18 | 58 | 37.07 | -24 | 41 | 15.92 | 59.29 | 15.9 | 58.2 | 32.5 | 17.3 |
| oct | 23 | 2459145.75 | 19 | 56 | 55.12 | -23 | 44 | 53.12 | 60.22 | 15.6 | 57.3 | 42.9 | 18.2 |
| oct | 24 | 2459146.75 | 20 | 52 | 7.98 | -21 | 33 | 40.85 | 61.10 | 15.4 | 56.5 | 53.4 | 19.1 |
| oct | 25 | 2459147.75 | 21 | 43 | 57.73 | -18 | 22 | 40.66 | 61.87 | 15.2 | 55.7 | 63.4 | 19.9 |
| oct | 26 | 2459148.75 | 22 | 32 | 38.77 | -14 | 26 | 47.68 | 62.50 | 15.0 | 55.1 | 72.7 | 20.6 |
| oct | 27 | 2459149.75 | 23 | 18 | 46.20 | -9 | 59 | 27.00 | 63.00 | 14.9 | 54.7 | 80.9 | 21.3 |
| oct | 28 | 2459150.75 | 0 | 3 | 5.21 | -5 | 12 | 20.57 | 63.36 | 14.8 | 54.3 | 87.9 | 22.0 |
| oct | 29 | 2459151.75 | 0 | 46 | 24.22 | -0 | 15 | 52.12 | 63.59 | 14.7 | 54.1 | 93.4 | 22.6 |
| oct | 30 | 2459152.75 | 1 | 29 | 31.27 | +4 | 40 | 14.66 | 63.70 | 14.7 | 54.0 | 97.3 | 23.3 |
| oct | 31 | 2459153.75 | 2 | 13 | 12.07 | +9 | 26 | 20.70 | 63.71 | 14.7 | 54.0 | 99.5 | 24.0 |
| nov | 1 | 2459154.75 | 2 | 58 | 8.11 | +13 | 52 | 22.92 | 63.61 | 14.7 | 54.0 | 99.9 | 0.6 |
| nov | 2 | 2459155.75 | 3 | 44 | 53.89 | +17 | 47 | 40.17 | 63.41 | 14.8 | 54.2 | 98.6 | 1.3 |
| nov | 3 | 2459156.75 | 4 | 33 | 52.56 | +21 | 0 | 57.21 | 63.11 | 14.8 | 54.4 | 95.4 | 2.1 |
| nov | 4 | 2459157.75 | 5 | 25 | 10.26 | +23 | 20 | 54.80 | 62.71 | 14.9 | 54.7 | 90.6 | 2.9 |
| nov | 5 | 2459158.75 | 6 | 18 | 31.67 | +24 | 37 | 10.31 | 62.20 | 15.0 | 55.1 | 84.2 | 3.7 |
| nov | 6 | 2459159.75 | 7 | 13 | 20.32 | +24 | 41 | 40.78 | 61.58 | 15.2 | 55.7 | 76.3 | 4.6 |
| nov | 7 | 2459160.75 | 8 | 8 | 46.73 | +23 | 30 | 5.60 | 60.85 | 15.3 | 56.3 | 67.2 | 5.4 |
| nov | 8 | 2459161.75 | 9 | 4 | 2.98 | +21 | 2 | 36.80 | 60.04 | 15.6 | 57.1 | 57.1 | 6.3 |
| nov | 9 | 2459162.75 | 9 | 58 | 37.49 | +17 | 24 | 3.18 | 59.17 | 15.8 | 57.9 | 46.4 | 7.1 |
| nov | 10 | 2459163.75 | 10 | 52 | 23.47 | +12 | 43 | 24.27 | 58.30 | 16.0 | 58.8 | 35.5 | 7.9 |
| nov | 11 | 2459164.75 | 11 | 45 | 39.48 | +7 | 13 | 27.85 | 57.49 | 16.2 | 59.6 | 25.0 | 8.8 |
| nov | 12 | 2459165.75 | 12 | 39 | 4.01 | +1 | 10 | 49.63 | 56.81 | 16.4 | 60.4 | 15.5 | 9.6 |
| nov | 13 | 2459166.75 | 13 | 33 | 27.04 | -5 | 3 | 53.87 | 56.33 | 16.6 | 60.9 | 7.8 | 10.4 |
| nov | 14 | 2459167.75 | 14 | 29 | 39.06 | -11 | 6 | 15.01 | 56.11 | 16.7 | 61.2 | 2.5 | 11.3 |
| nov | 15 | 2459168.75 | 15 | 28 | 16.12 | -16 | 29 | 14.64 | 56.19 | 16.7 | 61.2 | 0.1 | 12.2 |
| nov | 16 | 2459169.75 | 16 | 29 | 21.31 | -20 | 46 | 27.33 | 56.57 | 16.6 | 60.9 | 0.8 | 13.2 |
| nov | 17 | 2459170.75 | 17 | 32 | 9.32 | -23 | 36 | 42.28 | 57.21 | 16.4 | 60.3 | 4.3 | 14.1 |

Luna, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | dia | dj | h | α m | s | δ ° | " | dis DT | fase | hp h | | | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|-------|---------|------|-------|------|
| nov | 18 | 2459171.75 | 18 | 35 | 8.31 | -24 | 48 | 50.06 | 58.04 | 16.2 | 59.5 | 10.3 | 15.1 |
| nov | 19 | 2459172.75 | 19 | 36 | 27.69 | -24 | 23 | 58.30 | 59.00 | 15.9 | 58.5 | 18.1 | 16.1 |
| nov | 20 | 2459173.75 | 20 | 34 | 38.07 | -22 | 33 | 38.87 | 59.99 | 15.7 | 57.5 | 27.3 | 17.0 |
| nov | 21 | 2459174.75 | 21 | 28 | 56.69 | -19 | 34 | 58.18 | 60.94 | 15.4 | 56.6 | 37.1 | 17.8 |
| nov | 22 | 2459175.75 | 22 | 19 | 27.35 | -15 | 45 | 48.82 | 61.79 | 15.2 | 55.8 | 47.2 | 18.6 |
| nov | 23 | 2459176.75 | 23 | 6 | 45.35 | -11 | 22 | 0.64 | 62.50 | 15.0 | 55.1 | 57.2 | 19.3 |
| nov | 24 | 2459177.75 | 23 | 51 | 41.50 | -6 | 36 | 34.86 | 63.04 | 14.9 | 54.6 | 66.7 | 20.0 |
| nov | 25 | 2459178.75 | 0 | 35 | 11.53 | -1 | 40 | 13.41 | 63.41 | 14.8 | 54.3 | 75.4 | 20.7 |
| nov | 26 | 2459179.75 | 1 | 18 | 10.73 | +3 | 17 | 44.15 | 63.60 | 14.7 | 54.1 | 83.0 | 21.3 |
| nov | 27 | 2459180.75 | 2 | 1 | 31.54 | +8 | 8 | 20.87 | 63.64 | 14.7 | 54.0 | 89.5 | 22.0 |
| nov | 28 | 2459181.75 | 2 | 46 | 1.83 | +12 | 42 | 11.95 | 63.54 | 14.7 | 54.1 | 94.6 | 22.7 |
| nov | 29 | 2459182.75 | 3 | 32 | 22.25 | +16 | 48 | 52.47 | 63.33 | 14.8 | 54.2 | 98.1 | 23.4 |
| nov | 30 | 2459183.75 | 4 | 21 | 1.47 | +20 | 16 | 49.69 | 63.03 | 14.8 | 54.5 | 99.8 | 0.1 |
| dic | 1 | 2459184.75 | 5 | 12 | 9.62 | +22 | 53 | 53.54 | 62.66 | 14.9 | 54.8 | 99.7 | 0.9 |
| dic | 2 | 2459185.75 | 6 | 5 | 32.07 | +24 | 28 | 30.60 | 62.23 | 15.0 | 55.1 | 97.7 | 1.7 |
| dic | 3 | 2459186.75 | 7 | 0 | 28.17 | +24 | 51 | 34.64 | 61.75 | 15.1 | 55.6 | 93.9 | 2.6 |
| dic | 4 | 2459187.75 | 7 | 55 | 59.69 | +23 | 58 | 17.52 | 61.21 | 15.3 | 56.0 | 88.1 | 3.4 |
| dic | 5 | 2459188.75 | 8 | 51 | 7.91 | +21 | 49 | 11.67 | 60.62 | 15.4 | 56.6 | 80.7 | 4.3 |
| dic | 6 | 2459189.75 | 9 | 45 | 11.75 | +18 | 29 | 54.90 | 59.99 | 15.6 | 57.1 | 71.8 | 5.1 |
| dic | 7 | 2459190.75 | 10 | 37 | 58.39 | +14 | 10 | 0.22 | 59.33 | 15.7 | 57.8 | 61.6 | 5.9 |
| dic | 8 | 2459191.75 | 11 | 29 | 43.91 | +9 | 1 | 41.05 | 58.66 | 15.9 | 58.4 | 50.7 | 6.7 |
| dic | 9 | 2459192.75 | 12 | 21 | 7.44 | +3 | 19 | 13.76 | 58.02 | 16.1 | 59.1 | 39.4 | 7.5 |
| dic | 10 | 2459193.75 | 13 | 13 | 2.94 | -2 | 40 | 52.05 | 57.45 | 16.3 | 59.7 | 28.5 | 8.3 |
| dic | 11 | 2459194.75 | 14 | 6 | 30.32 | -8 | 39 | 17.28 | 57.02 | 16.4 | 60.2 | 18.5 | 9.1 |
| dic | 12 | 2459195.75 | 15 | 2 | 24.15 | -14 | 13 | 30.62 | 56.76 | 16.5 | 60.5 | 10.2 | 10.0 |
| dic | 13 | 2459196.75 | 16 | 1 | 17.13 | -18 | 58 | 36.67 | 56.74 | 16.5 | 60.6 | 4.1 | 10.9 |
| dic | 14 | 2459197.75 | 17 | 2 | 59.68 | -22 | 30 | 9.83 | 56.96 | 16.5 | 60.4 | 0.7 | 11.9 |
| dic | 15 | 2459198.75 | 18 | 6 | 25.51 | -24 | 29 | 17.01 | 57.43 | 16.4 | 60.0 | 0.1 | 12.9 |
| dic | 16 | 2459199.75 | 19 | 9 | 41.30 | -24 | 47 | 54.99 | 58.11 | 16.2 | 59.4 | 2.3 | 13.9 |
| dic | 17 | 2459200.75 | 20 | 10 | 45.55 | -23 | 31 | 0.18 | 58.95 | 15.9 | 58.5 | 7.0 | 14.8 |
| dic | 18 | 2459201.75 | 21 | 8 | 12.71 | -20 | 53 | 41.99 | 59.86 | 15.7 | 57.7 | 13.6 | 15.7 |
| dic | 19 | 2459202.75 | 22 | 1 | 33.09 | -17 | 15 | 40.11 | 60.78 | 15.5 | 56.8 | 21.7 | 16.5 |
| dic | 20 | 2459203.75 | 22 | 51 | 4.49 | -12 | 56 | 3.21 | 61.63 | 15.2 | 56.0 | 30.8 | 17.3 |
| dic | 21 | 2459204.75 | 23 | 37 | 32.89 | -8 | 10 | 57.21 | 62.37 | 15.1 | 55.3 | 40.4 | 18.0 |
| dic | 22 | 2459205.75 | 0 | 21 | 56.12 | -3 | 13 | 4.56 | 62.93 | 14.9 | 54.7 | 50.1 | 18.7 |
| dic | 23 | 2459206.75 | 1 | 5 | 14.50 | +1 | 47 | 26.87 | 63.31 | 14.8 | 54.4 | 59.7 | 19.3 |
| dic | 24 | 2459207.75 | 1 | 48 | 26.68 | +6 | 41 | 51.84 | 63.49 | 14.8 | 54.2 | 68.8 | 20.0 |
| dic | 25 | 2459208.75 | 2 | 32 | 27.56 | +11 | 21 | 36.79 | 63.48 | 14.8 | 54.1 | 77.2 | 20.7 |
| dic | 26 | 2459209.75 | 3 | 18 | 6.30 | +15 | 37 | 21.54 | 63.30 | 14.8 | 54.3 | 84.6 | 21.4 |
| dic | 27 | 2459210.75 | 4 | 6 | 2.14 | +19 | 18 | 23.34 | 62.98 | 14.8 | 54.5 | 90.8 | 22.1 |
| dic | 28 | 2459211.75 | 4 | 56 | 37.60 | +22 | 12 | 36.51 | 62.55 | 14.9 | 54.9 | 95.6 | 22.9 |
| dic | 29 | 2459212.75 | 5 | 49 | 58.26 | +24 | 0 | 36.40 | 62.42 | 15.1 | 55.3 | 98.7 | 13.1 |
| dic | 30 | 2459213.75 | 6 | 47 | 42.90 | +23 | 4 | 49.38 | 61.69 | 15.2 | 55.8 | 100.0 | 0.6 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| ene | 1 | 2458849.75 | 18 | 21 | 1.40 | -24 | 38 | 37.20 | 1.4346 | 11.7 |
| ene | 2 | 2458850.75 | 18 | 27 | 58.75 | -24 | 39 | 40.45 | 1.4365 | 11.7 |
| ene | 3 | 2458851.75 | 18 | 34 | 57.48 | -24 | 39 | 20.93 | 1.4378 | 11.8 |
| ene | 4 | 2458852.75 | 18 | 41 | 57.48 | -24 | 37 | 37.57 | 1.4386 | 11.8 |
| ene | 5 | 2458853.75 | 18 | 48 | 58.66 | -24 | 34 | 29.37 | 1.4388 | 11.9 |
| ene | 6 | 2458854.75 | 18 | 56 | 0.92 | -24 | 29 | 55.35 | 1.4385 | 11.9 |
| ene | 7 | 2458855.75 | 19 | 3 | 4.13 | -24 | 23 | 54.58 | 1.4376 | 12.0 |
| ene | 8 | 2458856.75 | 19 | 10 | 8.20 | -24 | 16 | 26.16 | 1.4362 | 12.0 |
| ene | 9 | 2458857.75 | 19 | 17 | 13.00 | -24 | 7 | 29.27 | 1.4341 | 12.1 |
| ene | 10 | 2458858.75 | 19 | 24 | 18.42 | -23 | 57 | 3.09 | 1.4315 | 12.1 |
| ene | 11 | 2458859.75 | 19 | 31 | 24.32 | -23 | 45 | 6.89 | 1.4283 | 12.2 |
| ene | 12 | 2458860.75 | 19 | 38 | 30.58 | -23 | 31 | 39.98 | 1.4244 | 12.2 |
| ene | 13 | 2458861.75 | 19 | 45 | 37.06 | -23 | 16 | 41.75 | 1.4200 | 12.3 |
| ene | 14 | 2458862.75 | 19 | 52 | 43.61 | -23 | 0 | 11.65 | 1.4149 | 12.3 |
| ene | 15 | 2458863.75 | 19 | 59 | 50.09 | -22 | 42 | 9.22 | 1.4091 | 12.4 |
| ene | 16 | 2458864.75 | 20 | 6 | 56.33 | -22 | 22 | 34.08 | 1.4026 | 12.4 |
| ene | 17 | 2458865.75 | 20 | 14 | 2.16 | -22 | 1 | 26.01 | 1.3955 | 12.5 |
| ene | 18 | 2458866.75 | 20 | 21 | 7.37 | -21 | 38 | 44.92 | 1.3876 | 12.5 |
| ene | 19 | 2458867.75 | 20 | 28 | 11.77 | -21 | 14 | 30.87 | 1.3790 | 12.6 |
| ene | 20 | 2458868.75 | 20 | 35 | 15.10 | -20 | 48 | 44.16 | 1.3696 | 12.6 |
| ene | 21 | 2458869.75 | 20 | 42 | 17.12 | -20 | 21 | 25.30 | 1.3594 | 12.7 |
| ene | 22 | 2458870.75 | 20 | 49 | 17.51 | -19 | 52 | 35.09 | 1.3484 | 12.8 |
| ene | 23 | 2458871.75 | 20 | 56 | 15.96 | -19 | 22 | 14.63 | 1.3365 | 12.8 |
| ene | 24 | 2458872.75 | 21 | 3 | 12.06 | -18 | 50 | 25.44 | 1.3237 | 12.9 |
| ene | 25 | 2458873.75 | 21 | 10 | 5.41 | -18 | 17 | 9.46 | 1.3100 | 12.9 |
| ene | 26 | 2458874.75 | 21 | 16 | 55.49 | -17 | 42 | 29.20 | 1.2954 | 12.9 |
| ene | 27 | 2458875.75 | 21 | 23 | 41.74 | -17 | 6 | 27.77 | 1.2798 | 13.0 |
| ene | 28 | 2458876.75 | 21 | 30 | 23.52 | -16 | 29 | 9.05 | 1.2632 | 13.0 |
| ene | 29 | 2458877.75 | 21 | 37 | 0.08 | -15 | 50 | 37.76 | 1.2456 | 13.1 |
| ene | 30 | 2458878.75 | 21 | 43 | 30.57 | -15 | 10 | 59.63 | 1.2270 | 13.1 |
| ene | 31 | 2458879.75 | 21 | 49 | 54.01 | -14 | 30 | 21.53 | 1.2073 | 13.2 |
| feb | 1 | 2458880.75 | 21 | 56 | 9.28 | -13 | 48 | 51.63 | 1.1865 | 13.2 |
| feb | 2 | 2458881.75 | 22 | 2 | 15.11 | -13 | 6 | 39.57 | 1.1647 | 13.2 |
| feb | 3 | 2458882.75 | 22 | 8 | 10.06 | -12 | 23 | 56.60 | 1.1419 | 13.3 |
| feb | 4 | 2458883.75 | 22 | 13 | 52.53 | -11 | 40 | 55.70 | 1.1181 | 13.3 |
| feb | 5 | 2458884.75 | 22 | 19 | 20.73 | -10 | 57 | 51.75 | 1.0933 | 13.3 |
| feb | 6 | 2458885.75 | 22 | 24 | 32.69 | -10 | 15 | 1.58 | 1.0677 | 13.4 |
| feb | 7 | 2458886.75 | 22 | 29 | 26.28 | -9 | 32 | 43.96 | 1.0413 | 13.4 |
| feb | 8 | 2458887.75 | 22 | 33 | 59.21 | -8 | 51 | 19.57 | 1.0142 | 13.4 |
| feb | 9 | 2458888.75 | 22 | 38 | 9.09 | -8 | 11 | 10.87 | 0.9866 | 13.4 |
| feb | 10 | 2458889.75 | 22 | 41 | 53.47 | -7 | 32 | 41.82 | 0.9586 | 13.4 |
| feb | 11 | 2458890.75 | 22 | 45 | 9.87 | -6 | 56 | 17.53 | 0.9305 | 13.4 |
| feb | 12 | 2458891.75 | 22 | 47 | 55.91 | -6 | 22 | 23.85 | 0.9025 | 13.3 |
| feb | 13 | 2458892.75 | 22 | 50 | 9.37 | -5 | 51 | 26.73 | 0.8747 | 13.3 |
| feb | 14 | 2458893.75 | 22 | 51 | 48.27 | -5 | 23 | 51.59 | 0.8474 | 13.3 |
| feb | 15 | 2458894.75 | 22 | 52 | 51.02 | -5 | 0 | 2.54 | 0.8208 | 13.2 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 22 | 53 | 16.55 | -4 | 40 | 21.51 | 0.7952 | 13.2 |
| feb | 17 | 2458896.75 | 22 | 53 | 4.37 | -4 | 25 | 7.28 | 0.7709 | 13.1 |
| feb | 18 | 2458897.75 | 22 | 52 | 14.72 | -4 | 14 | 34.53 | 0.7480 | 13.0 |
| feb | 19 | 2458898.75 | 22 | 50 | 48.69 | -4 | 8 | 52.81 | 0.7268 | 12.9 |
| feb | 20 | 2458899.75 | 22 | 48 | 48.24 | -4 | 8 | 5.66 | 0.7074 | 12.8 |
| feb | 21 | 2458900.75 | 22 | 46 | 16.24 | -4 | 12 | 9.81 | 0.6900 | 12.7 |
| feb | 22 | 2458901.75 | 22 | 43 | 16.46 | -4 | 20 | 54.72 | 0.6747 | 12.6 |
| feb | 23 | 2458902.75 | 22 | 39 | 53.50 | -4 | 34 | 2.49 | 0.6616 | 12.5 |
| feb | 24 | 2458903.75 | 22 | 36 | 12.60 | -4 | 51 | 8.22 | 0.6508 | 12.4 |
| feb | 25 | 2458904.75 | 22 | 32 | 19.48 | -5 | 11 | 40.92 | 0.6423 | 12.2 |
| feb | 26 | 2458905.75 | 22 | 28 | 20.08 | -5 | 35 | 4.85 | 0.6359 | 12.1 |
| feb | 27 | 2458906.75 | 22 | 24 | 20.33 | -6 | 0 | 41.22 | 0.6318 | 12.0 |
| feb | 28 | 2458907.75 | 22 | 20 | 25.89 | -6 | 27 | 50.06 | 0.6298 | 11.8 |
| feb | 29 | 2458908.75 | 22 | 16 | 41.94 | -6 | 55 | 52.06 | 0.6298 | 11.7 |
| mar | 1 | 2458909.75 | 22 | 13 | 12.99 | -7 | 24 | 10.17 | 0.6317 | 11.6 |
| mar | 2 | 2458910.75 | 22 | 10 | 2.83 | -7 | 52 | 10.85 | 0.6353 | 11.5 |
| mar | 3 | 2458911.75 | 22 | 7 | 14.42 | -8 | 19 | 24.85 | 0.6405 | 11.4 |
| mar | 4 | 2458912.75 | 22 | 4 | 49.96 | -8 | 45 | 27.65 | 0.6471 | 11.2 |
| mar | 5 | 2458913.75 | 22 | 2 | 50.89 | -9 | 9 | 59.40 | 0.6550 | 11.2 |
| mar | 6 | 2458914.75 | 22 | 1 | 18.01 | -9 | 32 | 44.73 | 0.6640 | 11.1 |
| mar | 7 | 2458915.75 | 22 | 0 | 11.54 | -9 | 53 | 32.24 | 0.6741 | 11.0 |
| mar | 8 | 2458916.75 | 21 | 59 | 31.26 | -10 | 12 | 13.97 | 0.6849 | 10.9 |
| mar | 9 | 2458917.75 | 21 | 59 | 16.58 | -10 | 28 | 44.82 | 0.6966 | 10.8 |
| mar | 10 | 2458918.75 | 21 | 59 | 26.66 | -10 | 43 | 2.01 | 0.7088 | 10.8 |
| mar | 11 | 2458919.75 | 22 | 0 | 0.43 | -10 | 55 | 4.55 | 0.7216 | 10.7 |
| mar | 12 | 2458920.75 | 22 | 0 | 56.75 | -11 | 4 | 52.87 | 0.7349 | 10.7 |
| mar | 13 | 2458921.75 | 22 | 2 | 14.35 | -11 | 12 | 28.43 | 0.7485 | 10.6 |
| mar | 14 | 2458922.75 | 22 | 3 | 51.98 | -11 | 17 | 53.42 | 0.7624 | 10.6 |
| mar | 15 | 2458923.75 | 22 | 5 | 48.35 | -11 | 21 | 10.54 | 0.7766 | 10.5 |
| mar | 16 | 2458924.75 | 22 | 8 | 2.22 | -11 | 22 | 22.83 | 0.7910 | 10.5 |
| mar | 17 | 2458925.75 | 22 | 10 | 32.39 | -11 | 21 | 33.49 | 0.8055 | 10.5 |
| mar | 18 | 2458926.75 | 22 | 13 | 17.71 | -11 | 18 | 45.79 | 0.8201 | 10.5 |
| mar | 19 | 2458927.75 | 22 | 16 | 17.11 | -11 | 14 | 3.02 | 0.8348 | 10.5 |
| mar | 20 | 2458928.75 | 22 | 19 | 29.58 | -11 | 7 | 28.41 | 0.8495 | 10.4 |
| mar | 21 | 2458929.75 | 22 | 22 | 54.18 | -10 | 59 | 5.09 | 0.8642 | 10.4 |
| mar | 22 | 2458930.75 | 22 | 26 | 30.03 | -10 | 48 | 56.08 | 0.8789 | 10.4 |
| mar | 23 | 2458931.75 | 22 | 30 | 16.36 | -10 | 37 | 4.31 | 0.8936 | 10.4 |
| mar | 24 | 2458932.75 | 22 | 34 | 12.41 | -10 | 23 | 32.53 | 0.9083 | 10.4 |
| mar | 25 | 2458933.75 | 22 | 38 | 17.53 | -10 | 8 | 23.39 | 0.9229 | 10.4 |
| mar | 26 | 2458934.75 | 22 | 42 | 31.12 | -9 | 51 | 39.43 | 0.9374 | 10.4 |
| mar | 27 | 2458935.75 | 22 | 46 | 52.63 | -9 | 33 | 23.02 | 0.9519 | 10.4 |
| mar | 28 | 2458936.75 | 22 | 51 | 21.56 | -9 | 13 | 36.46 | 0.9662 | 10.4 |
| mar | 29 | 2458937.75 | 22 | 55 | 57.48 | -8 | 52 | 21.91 | 0.9805 | 10.5 |
| mar | 30 | 2458938.75 | 23 | 0 | 40.00 | -8 | 29 | 41.44 | 0.9947 | 10.5 |
| mar | 31 | 2458939.75 | 23 | 5 | 28.77 | -8 | 5 | 37.04 | 1.0087 | 10.5 |
| abr | 1 | 2458940.75 | 23 | 10 | 23.48 | -7 | 40 | 10.57 | 1.0227 | 10.5 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 23 | 15 | 23.89 | -7 | 13 | 23.86 | 1.0365 | 10.5 |
| abr | 3 | 2458942.75 | 23 | 20 | 29.75 | -6 | 45 | 18.64 | 1.0502 | 10.5 |
| abr | 4 | 2458943.75 | 23 | 25 | 40.88 | -6 | 15 | 56.59 | 1.0638 | 10.6 |
| abr | 5 | 2458944.75 | 23 | 30 | 57.14 | -5 | 45 | 19.31 | 1.0773 | 10.6 |
| abr | 6 | 2458945.75 | 23 | 36 | 18.40 | -5 | 13 | 28.36 | 1.0906 | 10.6 |
| abr | 7 | 2458946.75 | 23 | 41 | 44.58 | -4 | 40 | 25.26 | 1.1038 | 10.6 |
| abr | 8 | 2458947.75 | 23 | 47 | 15.63 | -4 | 6 | 11.50 | 1.1168 | 10.7 |
| abr | 9 | 2458948.75 | 23 | 52 | 51.51 | -3 | 30 | 48.55 | 1.1297 | 10.7 |
| abr | 10 | 2458949.75 | 23 | 58 | 32.23 | -2 | 54 | 17.89 | 1.1424 | 10.7 |
| abr | 11 | 2458950.75 | 0 | 4 | 17.80 | -2 | 16 | 41.03 | 1.1549 | 10.7 |
| abr | 12 | 2458951.75 | 0 | 10 | 8.28 | -1 | 37 | 59.51 | 1.1672 | 10.8 |
| abr | 13 | 2458952.75 | 0 | 16 | 3.73 | -0 | 58 | 14.93 | 1.1793 | 10.8 |
| abr | 14 | 2458953.75 | 0 | 22 | 4.24 | -0 | 17 | 28.93 | 1.1912 | 10.8 |
| abr | 15 | 2458954.75 | 0 | 28 | 9.93 | +0 | 24 | 16.74 | 1.2028 | 10.9 |
| abr | 16 | 2458955.75 | 0 | 34 | 20.92 | +1 | 7 | 0.26 | 1.2142 | 10.9 |
| abr | 17 | 2458956.75 | 0 | 40 | 37.38 | +1 | 50 | 39.68 | 1.2253 | 11.0 |
| abr | 18 | 2458957.75 | 0 | 46 | 59.48 | +2 | 35 | 12.87 | 1.2360 | 11.0 |
| abr | 19 | 2458958.75 | 0 | 53 | 27.41 | +3 | 20 | 37.56 | 1.2464 | 11.0 |
| abr | 20 | 2458959.75 | 1 | 0 | 1.38 | +4 | 6 | 51.22 | 1.2564 | 11.1 |
| abr | 21 | 2458960.75 | 1 | 6 | 41.59 | +4 | 53 | 51.07 | 1.2660 | 11.1 |
| abr | 22 | 2458961.75 | 1 | 13 | 28.28 | +5 | 41 | 34.00 | 1.2751 | 11.2 |
| abr | 23 | 2458962.75 | 1 | 20 | 21.67 | +6 | 29 | 56.57 | 1.2837 | 11.2 |
| abr | 24 | 2458963.75 | 1 | 27 | 22.00 | +7 | 18 | 54.87 | 1.2917 | 11.3 |
| abr | 25 | 2458964.75 | 1 | 34 | 29.47 | +8 | 8 | 24.53 | 1.2991 | 11.3 |
| abr | 26 | 2458965.75 | 1 | 41 | 44.30 | +8 | 58 | 20.62 | 1.3058 | 11.4 |
| abr | 27 | 2458966.75 | 1 | 49 | 6.67 | +9 | 48 | 37.60 | 1.3118 | 11.4 |
| abr | 28 | 2458967.75 | 1 | 56 | 36.71 | +10 | 39 | 9.21 | 1.3169 | 11.5 |
| abr | 29 | 2458968.75 | 2 | 4 | 14.52 | +11 | 29 | 48.49 | 1.3212 | 11.6 |
| abr | 30 | 2458969.75 | 2 | 12 | 0.15 | +12 | 20 | 27.64 | 1.3244 | 11.6 |
| may | 1 | 2458970.75 | 2 | 19 | 53.54 | +13 | 10 | 58.07 | 1.3267 | 11.7 |
| may | 2 | 2458971.75 | 2 | 27 | 54.58 | +14 | 1 | 10.33 | 1.3278 | 11.8 |
| may | 3 | 2458972.75 | 2 | 36 | 3.03 | +14 | 50 | 54.17 | 1.3277 | 11.8 |
| may | 4 | 2458973.75 | 2 | 44 | 18.54 | +15 | 39 | 58.57 | 1.3263 | 11.9 |
| may | 5 | 2458974.75 | 2 | 52 | 40.68 | +16 | 28 | 12.12 | 1.3236 | 12.0 |
| may | 6 | 2458975.75 | 3 | 1 | 8.76 | +17 | 15 | 22.43 | 1.3196 | 12.0 |
| may | 7 | 2458976.75 | 3 | 9 | 42.10 | +18 | 1 | 17.33 | 1.3141 | 12.1 |
| may | 8 | 2458977.75 | 3 | 18 | 19.78 | +18 | 45 | 44.45 | 1.3072 | 12.2 |
| may | 9 | 2458978.75 | 3 | 27 | 0.81 | +19 | 28 | 31.75 | 1.2989 | 12.3 |
| may | 10 | 2458979.75 | 3 | 35 | 44.06 | +20 | 9 | 27.72 | 1.2892 | 12.4 |
| may | 11 | 2458980.75 | 3 | 44 | 28.32 | +20 | 48 | 21.76 | 1.2781 | 12.4 |
| may | 12 | 2458981.75 | 3 | 53 | 12.33 | +21 | 25 | 4.40 | 1.2657 | 12.5 |
| may | 13 | 2458982.75 | 4 | 1 | 54.77 | +21 | 59 | 27.54 | 1.2520 | 12.6 |
| may | 14 | 2458983.75 | 4 | 10 | 34.35 | +22 | 31 | 24.60 | 1.2372 | 12.7 |
| may | 15 | 2458984.75 | 4 | 19 | 9.78 | +23 | 0 | 50.63 | 1.2214 | 12.8 |
| may | 16 | 2458985.75 | 4 | 27 | 39.82 | +23 | 27 | 42.32 | 1.2045 | 12.8 |
| may | 17 | 2458986.75 | 4 | 36 | 3.31 | +23 | 51 | 57.94 | 1.1869 | 12.9 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 4 | 44 | 19.13 | +24 | 13 | 37.27 | 1.1684 | 13.0 |
| may | 19 | 2458988.75 | 4 | 52 | 26.29 | +24 | 32 | 41.41 | 1.1494 | 13.0 |
| may | 20 | 2458989.75 | 5 | 0 | 23.87 | +24 | 49 | 12.70 | 1.1298 | 13.1 |
| may | 21 | 2458990.75 | 5 | 8 | 11.02 | +25 | 3 | 14.44 | 1.1099 | 13.2 |
| may | 22 | 2458991.75 | 5 | 15 | 47.00 | +25 | 14 | 50.82 | 1.0896 | 13.2 |
| may | 23 | 2458992.75 | 5 | 23 | 11.14 | +25 | 24 | 6.67 | 1.0691 | 13.3 |
| may | 24 | 2458993.75 | 5 | 30 | 22.82 | +25 | 31 | 7.37 | 1.0484 | 13.4 |
| may | 25 | 2458994.75 | 5 | 37 | 21.50 | +25 | 35 | 58.71 | 1.0276 | 13.4 |
| may | 26 | 2458995.75 | 5 | 44 | 6.67 | +25 | 38 | 46.72 | 1.0069 | 13.5 |
| may | 27 | 2458996.75 | 5 | 50 | 37.90 | +25 | 39 | 37.64 | 0.9862 | 13.5 |
| may | 28 | 2458997.75 | 5 | 56 | 54.74 | +25 | 38 | 37.85 | 0.9656 | 13.5 |
| may | 29 | 2458998.75 | 6 | 2 | 56.83 | +25 | 35 | 53.73 | 0.9451 | 13.6 |
| may | 30 | 2458999.75 | 6 | 8 | 43.77 | +25 | 31 | 31.71 | 0.9249 | 13.6 |
| may | 31 | 2459000.75 | 6 | 14 | 15.21 | +25 | 25 | 38.17 | 0.9049 | 13.6 |
| jun | 1 | 2459001.75 | 6 | 19 | 30.82 | +25 | 18 | 19.45 | 0.8852 | 13.6 |
| jun | 2 | 2459002.75 | 6 | 24 | 30.26 | +25 | 9 | 41.84 | 0.8658 | 13.7 |
| jun | 3 | 2459003.75 | 6 | 29 | 13.18 | +24 | 59 | 51.54 | 0.8468 | 13.7 |
| jun | 4 | 2459004.75 | 6 | 33 | 39.27 | +24 | 48 | 54.67 | 0.8281 | 13.7 |
| jun | 5 | 2459005.75 | 6 | 37 | 48.19 | +24 | 36 | 57.30 | 0.8098 | 13.7 |
| jun | 6 | 2459006.75 | 6 | 41 | 39.61 | +24 | 24 | 5.38 | 0.7919 | 13.7 |
| jun | 7 | 2459007.75 | 6 | 45 | 13.19 | +24 | 10 | 24.80 | 0.7745 | 13.7 |
| jun | 8 | 2459008.75 | 6 | 48 | 28.62 | +23 | 56 | 1.36 | 0.7575 | 13.7 |
| jun | 9 | 2459009.75 | 6 | 51 | 25.56 | +23 | 41 | 0.79 | 0.7411 | 13.7 |
| jun | 10 | 2459010.75 | 6 | 54 | 3.72 | +23 | 25 | 28.73 | 0.7251 | 13.6 |
| jun | 11 | 2459011.75 | 6 | 56 | 22.79 | +23 | 9 | 30.79 | 0.7097 | 13.6 |
| jun | 12 | 2459012.75 | 6 | 58 | 22.53 | +22 | 53 | 12.51 | 0.6949 | 13.6 |
| jun | 13 | 2459013.75 | 7 | 0 | 2.70 | +22 | 36 | 39.42 | 0.6807 | 13.5 |
| jun | 14 | 2459014.75 | 7 | 1 | 23.13 | +22 | 19 | 56.98 | 0.6670 | 13.5 |
| jun | 15 | 2459015.75 | 7 | 2 | 23.70 | +22 | 3 | 10.64 | 0.6541 | 13.4 |
| jun | 16 | 2459016.75 | 7 | 3 | 4.39 | +21 | 46 | 25.83 | 0.6418 | 13.4 |
| jun | 17 | 2459017.75 | 7 | 3 | 25.27 | +21 | 29 | 47.94 | 0.6302 | 13.3 |
| jun | 18 | 2459018.75 | 7 | 3 | 26.51 | +21 | 13 | 22.37 | 0.6194 | 13.3 |
| jun | 19 | 2459019.75 | 7 | 3 | 8.45 | +20 | 57 | 14.46 | 0.6094 | 13.2 |
| jun | 20 | 2459020.75 | 7 | 2 | 31.56 | +20 | 41 | 29.57 | 0.6001 | 13.1 |
| jun | 21 | 2459021.75 | 7 | 1 | 36.51 | +20 | 26 | 13.00 | 0.5918 | 13.0 |
| jun | 22 | 2459022.75 | 7 | 0 | 24.14 | +20 | 11 | 30.00 | 0.5843 | 12.9 |
| jun | 23 | 2459023.75 | 6 | 58 | 55.53 | +19 | 57 | 25.78 | 0.5778 | 12.9 |
| jun | 24 | 2459024.75 | 6 | 57 | 11.97 | +19 | 44 | 5.45 | 0.5722 | 12.8 |
| jun | 25 | 2459025.75 | 6 | 55 | 14.97 | +19 | 31 | 33.99 | 0.5676 | 12.7 |
| jun | 26 | 2459026.75 | 6 | 53 | 6.26 | +19 | 19 | 56.23 | 0.5641 | 12.6 |
| jun | 27 | 2459027.75 | 6 | 50 | 47.81 | +19 | 9 | 16.82 | 0.5616 | 12.5 |
| jun | 28 | 2459028.75 | 6 | 48 | 21.77 | +18 | 59 | 40.10 | 0.5602 | 12.4 |
| jun | 29 | 2459029.75 | 6 | 45 | 50.44 | +18 | 51 | 10.14 | 0.5599 | 12.2 |
| jun | 30 | 2459030.75 | 6 | 43 | 16.26 | +18 | 43 | 50.56 | 0.5608 | 12.1 |
| jul | 1 | 2459031.75 | 6 | 40 | 41.76 | +18 | 37 | 44.55 | 0.5629 | 12.0 |
| jul | 2 | 2459032.75 | 6 | 38 | 9.50 | +18 | 32 | 54.72 | 0.5661 | 11.9 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 6 | 35 | 42.01 | +18 | 29 | 23.03 | 0.5705 | 11.8 |
| jul | 4 | 2459034.75 | 6 | 33 | 21.79 | +18 | 27 | 10.75 | 0.5760 | 11.7 |
| jul | 5 | 2459035.75 | 6 | 31 | 11.19 | +18 | 26 | 18.36 | 0.5828 | 11.6 |
| jul | 6 | 2459036.75 | 6 | 29 | 12.47 | +18 | 26 | 45.52 | 0.5907 | 11.5 |
| jul | 7 | 2459037.75 | 6 | 27 | 27.65 | +18 | 28 | 31.07 | 0.5998 | 11.4 |
| jul | 8 | 2459038.75 | 6 | 25 | 58.61 | +18 | 31 | 32.99 | 0.6100 | 11.3 |
| jul | 9 | 2459039.75 | 6 | 24 | 46.98 | +18 | 35 | 48.41 | 0.6214 | 11.2 |
| jul | 10 | 2459040.75 | 6 | 23 | 54.18 | +18 | 41 | 13.68 | 0.6338 | 11.2 |
| jul | 11 | 2459041.75 | 6 | 23 | 21.44 | +18 | 47 | 44.37 | 0.6473 | 11.1 |
| jul | 12 | 2459042.75 | 6 | 23 | 9.76 | +18 | 55 | 15.31 | 0.6619 | 11.0 |
| jul | 13 | 2459043.75 | 6 | 23 | 19.97 | +19 | 3 | 40.66 | 0.6775 | 11.0 |
| jul | 14 | 2459044.75 | 6 | 23 | 52.72 | +19 | 12 | 53.96 | 0.6940 | 10.9 |
| jul | 15 | 2459045.75 | 6 | 24 | 48.50 | +19 | 22 | 48.14 | 0.7115 | 10.8 |
| jul | 16 | 2459046.75 | 6 | 26 | 7.68 | +19 | 33 | 15.60 | 0.7300 | 10.8 |
| jul | 17 | 2459047.75 | 6 | 27 | 50.48 | +19 | 44 | 8.25 | 0.7493 | 10.8 |
| jul | 18 | 2459048.75 | 6 | 29 | 57.05 | +19 | 55 | 17.50 | 0.7694 | 10.7 |
| jul | 19 | 2459049.75 | 6 | 32 | 27.45 | +20 | 6 | 34.32 | 0.7903 | 10.7 |
| jul | 20 | 2459050.75 | 6 | 35 | 21.63 | +20 | 17 | 49.25 | 0.8119 | 10.7 |
| jul | 21 | 2459051.75 | 6 | 38 | 39.51 | +20 | 28 | 52.44 | 0.8342 | 10.7 |
| jul | 22 | 2459052.75 | 6 | 42 | 20.92 | +20 | 39 | 33.63 | 0.8571 | 10.7 |
| jul | 23 | 2459053.75 | 6 | 46 | 25.61 | +20 | 49 | 42.18 | 0.8806 | 10.7 |
| jul | 24 | 2459054.75 | 6 | 50 | 53.31 | +20 | 59 | 7.16 | 0.9046 | 10.7 |
| jul | 25 | 2459055.75 | 6 | 55 | 43.63 | +21 | 7 | 37.34 | 0.9289 | 10.7 |
| jul | 26 | 2459056.75 | 7 | 0 | 56.11 | +21 | 15 | 1.28 | 0.9536 | 10.7 |
| jul | 27 | 2459057.75 | 7 | 6 | 30.19 | +21 | 21 | 7.43 | 0.9785 | 10.7 |
| jul | 28 | 2459058.75 | 7 | 12 | 25.20 | +21 | 25 | 44.24 | 1.0035 | 10.8 |
| jul | 29 | 2459059.75 | 7 | 18 | 40.34 | +21 | 28 | 40.33 | 1.0285 | 10.8 |
| jul | 30 | 2459060.75 | 7 | 25 | 14.68 | +21 | 29 | 44.66 | 1.0533 | 10.9 |
| jul | 31 | 2459061.75 | 7 | 32 | 7.10 | +21 | 28 | 46.75 | 1.0780 | 10.9 |
| ago | 1 | 2459062.75 | 7 | 39 | 16.36 | +21 | 25 | 36.93 | 1.1022 | 11.0 |
| ago | 2 | 2459063.75 | 7 | 46 | 41.04 | +21 | 20 | 6.58 | 1.1259 | 11.0 |
| ago | 3 | 2459064.75 | 7 | 54 | 19.58 | +21 | 12 | 8.45 | 1.1489 | 11.1 |
| ago | 4 | 2459065.75 | 8 | 2 | 10.28 | +21 | 1 | 36.83 | 1.1711 | 11.2 |
| ago | 5 | 2459066.75 | 8 | 10 | 11.32 | +20 | 48 | 27.80 | 1.1925 | 11.2 |
| ago | 6 | 2459067.75 | 8 | 18 | 20.84 | +20 | 32 | 39.36 | 1.2128 | 11.3 |
| ago | 7 | 2459068.75 | 8 | 26 | 36.92 | +20 | 14 | 11.48 | 1.2319 | 11.4 |
| ago | 8 | 2459069.75 | 8 | 34 | 57.65 | +19 | 53 | 6.11 | 1.2499 | 11.4 |
| ago | 9 | 2459070.75 | 8 | 43 | 21.20 | +19 | 29 | 27.07 | 1.2665 | 11.5 |
| ago | 10 | 2459071.75 | 8 | 51 | 45.80 | +19 | 3 | 19.85 | 1.2819 | 11.6 |
| ago | 11 | 2459072.75 | 9 | 0 | 9.83 | +18 | 34 | 51.37 | 1.2958 | 11.7 |
| ago | 12 | 2459073.75 | 9 | 8 | 31.83 | +18 | 4 | 9.75 | 1.3085 | 11.7 |
| ago | 13 | 2459074.75 | 9 | 16 | 50.49 | +17 | 31 | 23.93 | 1.3197 | 11.8 |
| ago | 14 | 2459075.75 | 9 | 25 | 4.71 | +16 | 56 | 43.45 | 1.3297 | 11.9 |
| ago | 15 | 2459076.75 | 9 | 33 | 13.55 | +16 | 20 | 18.16 | 1.3383 | 11.9 |
| ago | 16 | 2459077.75 | 9 | 41 | 16.27 | +15 | 42 | 17.97 | 1.3457 | 12.0 |
| ago | 17 | 2459078.75 | 9 | 49 | 12.27 | +15 | 2 | 52.64 | 1.3519 | 12.1 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 9 | 57 | 1.12 | +14 | 22 | 11.63 | 1.3570 | 12.1 |
| ago | 19 | 2459080.75 | 10 | 4 | 42.52 | +13 | 40 | 24.05 | 1.3610 | 12.2 |
| ago | 20 | 2459081.75 | 10 | 12 | 16.26 | +12 | 57 | 38.50 | 1.3639 | 12.3 |
| ago | 21 | 2459082.75 | 10 | 19 | 42.27 | +12 | 14 | 3.06 | 1.3659 | 12.3 |
| ago | 22 | 2459083.75 | 10 | 27 | 0.55 | +11 | 29 | 45.22 | 1.3669 | 12.4 |
| ago | 23 | 2459084.75 | 10 | 34 | 11.15 | +10 | 44 | 51.93 | 1.3672 | 12.4 |
| ago | 24 | 2459085.75 | 10 | 41 | 14.19 | +9 | 59 | 29.59 | 1.3666 | 12.5 |
| ago | 25 | 2459086.75 | 10 | 48 | 9.83 | +9 | 13 | 44.10 | 1.3652 | 12.5 |
| ago | 26 | 2459087.75 | 10 | 54 | 58.27 | +8 | 27 | 40.86 | 1.3632 | 12.6 |
| ago | 27 | 2459088.75 | 11 | 1 | 39.70 | +7 | 41 | 24.81 | 1.3605 | 12.6 |
| ago | 28 | 2459089.75 | 11 | 8 | 14.37 | +6 | 55 | 0.46 | 1.3571 | 12.7 |
| ago | 29 | 2459090.75 | 11 | 14 | 42.50 | +6 | 8 | 31.94 | 1.3532 | 12.7 |
| ago | 30 | 2459091.75 | 11 | 21 | 4.33 | +5 | 22 | 3.03 | 1.3487 | 12.8 |
| ago | 31 | 2459092.75 | 11 | 27 | 20.13 | +4 | 35 | 37.18 | 1.3437 | 12.8 |
| sep | 1 | 2459093.75 | 11 | 33 | 30.11 | +3 | 49 | 17.57 | 1.3382 | 12.8 |
| sep | 2 | 2459094.75 | 11 | 39 | 34.52 | +3 | 3 | 7.12 | 1.3323 | 12.9 |
| sep | 3 | 2459095.75 | 11 | 45 | 33.59 | +2 | 17 | 8.51 | 1.3259 | 12.9 |
| sep | 4 | 2459096.75 | 11 | 51 | 27.53 | +1 | 31 | 24.26 | 1.3190 | 12.9 |
| sep | 5 | 2459097.75 | 11 | 57 | 16.56 | +0 | 45 | 56.68 | 1.3117 | 13.0 |
| sep | 6 | 2459098.75 | 12 | 3 | 0.87 | +0 | 0 | 47.97 | 1.3040 | 13.0 |
| sep | 7 | 2459099.75 | 12 | 8 | 40.63 | -0 | 43 | 59.81 | 1.2959 | 13.0 |
| sep | 8 | 2459100.75 | 12 | 14 | 16.02 | -1 | 28 | 24.70 | 1.2875 | 13.1 |
| sep | 9 | 2459101.75 | 12 | 19 | 47.19 | -2 | 12 | 24.82 | 1.2787 | 13.1 |
| sep | 10 | 2459102.75 | 12 | 25 | 14.26 | -2 | 55 | 58.37 | 1.2695 | 13.1 |
| sep | 11 | 2459103.75 | 12 | 30 | 37.37 | -3 | 39 | 3.59 | 1.2599 | 13.1 |
| sep | 12 | 2459104.75 | 12 | 35 | 56.60 | -4 | 21 | 38.75 | 1.2500 | 13.2 |
| sep | 13 | 2459105.75 | 12 | 41 | 12.03 | -5 | 3 | 42.15 | 1.2397 | 13.2 |
| sep | 14 | 2459106.75 | 12 | 46 | 23.72 | -5 | 45 | 12.08 | 1.2291 | 13.2 |
| sep | 15 | 2459107.75 | 12 | 51 | 31.71 | -6 | 26 | 6.84 | 1.2182 | 13.2 |
| sep | 16 | 2459108.75 | 12 | 56 | 36.00 | -7 | 6 | 24.70 | 1.2069 | 13.2 |
| sep | 17 | 2459109.75 | 13 | 1 | 36.59 | -7 | 46 | 3.87 | 1.1953 | 13.3 |
| sep | 18 | 2459110.75 | 13 | 6 | 33.44 | -8 | 25 | 2.55 | 1.1833 | 13.3 |
| sep | 19 | 2459111.75 | 13 | 11 | 26.49 | -9 | 3 | 18.85 | 1.1710 | 13.3 |
| sep | 20 | 2459112.75 | 13 | 16 | 15.63 | -9 | 40 | 50.81 | 1.1584 | 13.3 |
| sep | 21 | 2459113.75 | 13 | 21 | 0.74 | -10 | 17 | 36.37 | 1.1454 | 13.3 |
| sep | 22 | 2459114.75 | 13 | 25 | 41.65 | -10 | 53 | 33.35 | 1.1321 | 13.3 |
| sep | 23 | 2459115.75 | 13 | 30 | 18.15 | -11 | 28 | 39.43 | 1.1184 | 13.3 |
| sep | 24 | 2459116.75 | 13 | 34 | 50.00 | -12 | 2 | 52.13 | 1.1044 | 13.3 |
| sep | 25 | 2459117.75 | 13 | 39 | 16.90 | -12 | 36 | 8.81 | 1.0901 | 13.4 |
| sep | 26 | 2459118.75 | 13 | 43 | 38.49 | -13 | 8 | 26.63 | 1.0755 | 13.4 |
| sep | 27 | 2459119.75 | 13 | 47 | 54.39 | -13 | 39 | 42.50 | 1.0605 | 13.4 |
| sep | 28 | 2459120.75 | 13 | 52 | 4.13 | -14 | 9 | 53.08 | 1.0452 | 13.4 |
| sep | 29 | 2459121.75 | 13 | 56 | 7.17 | -14 | 38 | 54.75 | 1.0296 | 13.4 |
| sep | 30 | 2459122.75 | 14 | 0 | 2.91 | -15 | 6 | 43.50 | 1.0136 | 13.4 |
| oct | 1 | 2459123.75 | 14 | 3 | 50.65 | -15 | 33 | 14.99 | 0.9974 | 13.4 |
| oct | 2 | 2459124.75 | 14 | 7 | 29.63 | -15 | 58 | 24.38 | 0.9809 | 13.4 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 14 | 10 | 58.96 | -16 | 22 | 6.35 | 0.9641 | 13.4 |
| oct | 4 | 2459126.75 | 14 | 14 | 17.65 | -16 | 44 | 15.00 | 0.9471 | 13.3 |
| oct | 5 | 2459127.75 | 14 | 17 | 24.61 | -17 | 4 | 43.76 | 0.9299 | 13.3 |
| oct | 6 | 2459128.75 | 14 | 20 | 18.62 | -17 | 23 | 25.34 | 0.9125 | 13.3 |
| oct | 7 | 2459129.75 | 14 | 22 | 58.32 | -17 | 40 | 11.61 | 0.8949 | 13.3 |
| oct | 8 | 2459130.75 | 14 | 25 | 22.25 | -17 | 54 | 53.55 | 0.8772 | 13.3 |
| oct | 9 | 2459131.75 | 14 | 27 | 28.79 | -18 | 7 | 21.11 | 0.8595 | 13.2 |
| oct | 10 | 2459132.75 | 14 | 29 | 16.22 | -18 | 17 | 23.18 | 0.8417 | 13.2 |
| oct | 11 | 2459133.75 | 14 | 30 | 42.71 | -18 | 24 | 47.53 | 0.8241 | 13.2 |
| oct | 12 | 2459134.75 | 14 | 31 | 46.37 | -18 | 29 | 20.81 | 0.8067 | 13.1 |
| oct | 13 | 2459135.75 | 14 | 32 | 25.25 | -18 | 30 | 48.63 | 0.7895 | 13.1 |
| oct | 14 | 2459136.75 | 14 | 32 | 37.44 | -18 | 28 | 55.74 | 0.7728 | 13.0 |
| oct | 15 | 2459137.75 | 14 | 32 | 21.18 | -18 | 23 | 26.40 | 0.7566 | 12.9 |
| oct | 16 | 2459138.75 | 14 | 31 | 34.89 | -18 | 14 | 4.97 | 0.7411 | 12.8 |
| oct | 17 | 2459139.75 | 14 | 30 | 17.41 | -18 | 0 | 36.76 | 0.7265 | 12.8 |
| oct | 18 | 2459140.75 | 14 | 28 | 28.12 | -17 | 42 | 49.32 | 0.7130 | 12.7 |
| oct | 19 | 2459141.75 | 14 | 26 | 7.14 | -17 | 20 | 33.97 | 0.7009 | 12.6 |
| oct | 20 | 2459142.75 | 14 | 23 | 15.55 | -16 | 53 | 47.87 | 0.6903 | 12.4 |
| oct | 21 | 2459143.75 | 14 | 19 | 55.57 | -16 | 22 | 36.21 | 0.6815 | 12.3 |
| oct | 22 | 2459144.75 | 14 | 16 | 10.70 | -15 | 47 | 14.46 | 0.6748 | 12.2 |
| oct | 23 | 2459145.75 | 14 | 12 | 5.79 | -15 | 8 | 10.26 | 0.6703 | 12.1 |
| oct | 24 | 2459146.75 | 14 | 7 | 46.95 | -14 | 26 | 4.49 | 0.6684 | 11.9 |
| oct | 25 | 2459147.75 | 14 | 3 | 21.40 | -13 | 41 | 50.95 | 0.6692 | 11.8 |
| oct | 26 | 2459148.75 | 13 | 58 | 57.10 | -12 | 56 | 34.53 | 0.6728 | 11.6 |
| oct | 27 | 2459149.75 | 13 | 54 | 42.27 | -12 | 11 | 27.66 | 0.6793 | 11.5 |
| oct | 28 | 2459150.75 | 13 | 50 | 44.96 | -11 | 27 | 45.61 | 0.6887 | 11.4 |
| oct | 29 | 2459151.75 | 13 | 47 | 12.46 | -10 | 46 | 41.10 | 0.7009 | 11.3 |
| oct | 30 | 2459152.75 | 13 | 44 | 10.99 | -10 | 9 | 19.32 | 0.7158 | 11.1 |
| oct | 31 | 2459153.75 | 13 | 41 | 45.35 | -9 | 36 | 33.96 | 0.7332 | 11.0 |
| nov | 1 | 2459154.75 | 13 | 39 | 58.80 | -9 | 9 | 4.78 | 0.7528 | 10.9 |
| nov | 2 | 2459155.75 | 13 | 38 | 53.13 | -8 | 47 | 16.84 | 0.7744 | 10.8 |
| nov | 3 | 2459156.75 | 13 | 38 | 28.72 | -8 | 31 | 21.11 | 0.7977 | 10.8 |
| nov | 4 | 2459157.75 | 13 | 38 | 44.80 | -8 | 21 | 16.22 | 0.8222 | 10.7 |
| nov | 5 | 2459158.75 | 13 | 39 | 39.69 | -8 | 16 | 50.70 | 0.8478 | 10.7 |
| nov | 6 | 2459159.75 | 13 | 41 | 11.07 | -8 | 17 | 45.49 | 0.8741 | 10.6 |
| nov | 7 | 2459160.75 | 13 | 43 | 16.15 | -8 | 23 | 36.30 | 0.9008 | 10.6 |
| nov | 8 | 2459161.75 | 13 | 45 | 51.98 | -8 | 33 | 55.70 | 0.9277 | 10.6 |
| nov | 9 | 2459162.75 | 13 | 48 | 55.52 | -8 | 48 | 14.82 | 0.9546 | 10.6 |
| nov | 10 | 2459163.75 | 13 | 52 | 23.79 | -9 | 6 | 4.70 | 0.9813 | 10.5 |
| nov | 11 | 2459164.75 | 13 | 56 | 13.98 | -9 | 26 | 57.21 | 1.0075 | 10.5 |
| nov | 12 | 2459165.75 | 14 | 0 | 23.49 | -9 | 50 | 25.75 | 1.0332 | 10.6 |
| nov | 13 | 2459166.75 | 14 | 4 | 49.92 | -10 | 16 | 5.60 | 1.0583 | 10.6 |
| nov | 14 | 2459167.75 | 14 | 9 | 31.16 | -10 | 43 | 34.15 | 1.0827 | 10.6 |
| nov | 15 | 2459168.75 | 14 | 14 | 25.32 | -11 | 12 | 30.94 | 1.1063 | 10.6 |
| nov | 16 | 2459169.75 | 14 | 19 | 30.73 | -11 | 42 | 37.63 | 1.1291 | 10.6 |
| nov | 17 | 2459170.75 | 14 | 24 | 45.97 | -12 | 13 | 37.89 | 1.1510 | 10.6 |

Mercurio, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 14 | 30 | 9.80 | -12 | 45 | 17.23 | 1.1720 | 10.7 |
| nov | 19 | 2459172.75 | 14 | 35 | 41.14 | -13 | 17 | 22.89 | 1.1921 | 10.7 |
| nov | 20 | 2459173.75 | 14 | 41 | 19.10 | -13 | 49 | 43.62 | 1.2114 | 10.7 |
| nov | 21 | 2459174.75 | 14 | 47 | 2.90 | -14 | 22 | 9.54 | 1.2298 | 10.7 |
| nov | 22 | 2459175.75 | 14 | 52 | 51.91 | -14 | 54 | 31.98 | 1.2473 | 10.8 |
| nov | 23 | 2459176.75 | 14 | 58 | 45.57 | -15 | 26 | 43.32 | 1.2639 | 10.8 |
| nov | 24 | 2459177.75 | 15 | 4 | 43.43 | -15 | 58 | 36.84 | 1.2797 | 10.8 |
| nov | 25 | 2459178.75 | 15 | 10 | 45.11 | -16 | 30 | 6.64 | 1.2947 | 10.9 |
| nov | 26 | 2459179.75 | 15 | 16 | 50.30 | -17 | 1 | 7.49 | 1.3089 | 10.9 |
| nov | 27 | 2459180.75 | 15 | 22 | 58.73 | -17 | 31 | 34.76 | 1.3223 | 10.9 |
| nov | 28 | 2459181.75 | 15 | 29 | 10.19 | -18 | 1 | 24.31 | 1.3349 | 11.0 |
| nov | 29 | 2459182.75 | 15 | 35 | 24.50 | -18 | 30 | 32.45 | 1.3467 | 11.0 |
| nov | 30 | 2459183.75 | 15 | 41 | 41.51 | -18 | 58 | 55.87 | 1.3579 | 11.1 |
| dic | 1 | 2459184.75 | 15 | 48 | 1.09 | -19 | 26 | 31.56 | 1.3683 | 11.1 |
| dic | 2 | 2459185.75 | 15 | 54 | 23.16 | -19 | 53 | 16.77 | 1.3780 | 11.1 |
| dic | 3 | 2459186.75 | 16 | 0 | 47.62 | -20 | 19 | 9.01 | 1.3870 | 11.2 |
| dic | 4 | 2459187.75 | 16 | 7 | 14.41 | -20 | 44 | 5.95 | 1.3954 | 11.2 |
| dic | 5 | 2459188.75 | 16 | 13 | 43.46 | -21 | 8 | 5.44 | 1.4031 | 11.3 |
| dic | 6 | 2459189.75 | 16 | 20 | 14.73 | -21 | 31 | 5.47 | 1.4102 | 11.3 |
| dic | 7 | 2459190.75 | 16 | 26 | 48.17 | -21 | 53 | 4.14 | 1.4167 | 11.3 |
| dic | 8 | 2459191.75 | 16 | 33 | 23.75 | -22 | 13 | 59.64 | 1.4225 | 11.4 |
| dic | 9 | 2459192.75 | 16 | 40 | 1.41 | -22 | 33 | 50.27 | 1.4278 | 11.4 |
| dic | 10 | 2459193.75 | 16 | 46 | 41.14 | -22 | 52 | 34.39 | 1.4324 | 11.5 |
| dic | 11 | 2459194.75 | 16 | 53 | 22.88 | -23 | 10 | 10.42 | 1.4365 | 11.5 |
| dic | 12 | 2459195.75 | 17 | 0 | 6.60 | -23 | 26 | 36.85 | 1.4399 | 11.6 |
| dic | 13 | 2459196.75 | 17 | 6 | 52.26 | -23 | 41 | 52.21 | 1.4428 | 11.6 |
| dic | 14 | 2459197.75 | 17 | 13 | 39.81 | -23 | 55 | 55.08 | 1.4451 | 11.7 |
| dic | 15 | 2459198.75 | 17 | 20 | 29.19 | -24 | 8 | 44.06 | 1.4469 | 11.7 |
| dic | 16 | 2459199.75 | 17 | 27 | 20.34 | -24 | 20 | 17.79 | 1.4481 | 11.8 |
| dic | 17 | 2459200.75 | 17 | 34 | 13.19 | -24 | 30 | 34.92 | 1.4487 | 11.8 |
| dic | 18 | 2459201.75 | 17 | 41 | 7.68 | -24 | 39 | 34.13 | 1.4487 | 11.9 |
| dic | 19 | 2459202.75 | 17 | 48 | 3.73 | -24 | 47 | 14.14 | 1.4482 | 11.9 |
| dic | 20 | 2459203.75 | 17 | 55 | 1.26 | -24 | 53 | 33.66 | 1.4471 | 12.0 |
| dic | 21 | 2459204.75 | 18 | 2 | 0.18 | -24 | 58 | 31.45 | 1.4455 | 12.0 |
| dic | 22 | 2459205.75 | 18 | 9 | 0.40 | -25 | 2 | 6.34 | 1.4432 | 12.1 |
| dic | 23 | 2459206.75 | 18 | 16 | 1.81 | -25 | 4 | 17.18 | 1.4404 | 12.1 |
| dic | 24 | 2459207.75 | 18 | 23 | 4.29 | -25 | 5 | 2.84 | 1.4370 | 12.2 |
| dic | 25 | 2459208.75 | 18 | 30 | 7.73 | -25 | 4 | 22.24 | 1.4330 | 12.2 |
| dic | 26 | 2459209.75 | 18 | 37 | 12.00 | -25 | 2 | 14.31 | 1.4284 | 12.3 |
| dic | 27 | 2459210.75 | 18 | 44 | 16.94 | -24 | 58 | 38.08 | 1.4232 | 12.3 |
| dic | 28 | 2459211.75 | 18 | 51 | 22.41 | -24 | 53 | 32.60 | 1.4173 | 12.4 |
| dic | 29 | 2459212.75 | 18 | 58 | 28.22 | -24 | 46 | 56.99 | 1.4109 | 12.4 |
| dic | 30 | 2459213.75 | 19 | 5 | 34.20 | -24 | 38 | 50.46 | 1.4037 | 12.5 |
| dic | 31 | 2459214.75 | 19 | 12 | 40.14 | -24 | 29 | 12.28 | 1.3959 | 12.5 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| ene | 1 | 2458849.75 | 21 | 10 | 58.63 | -18 | 10 | 23.92 | 1.2766 | 14.5 |
| ene | 2 | 2458850.75 | 21 | 15 | 52.94 | -17 | 48 | 0.80 | 1.2710 | 14.5 |
| ene | 3 | 2458851.75 | 21 | 20 | 45.77 | -17 | 25 | 8.98 | 1.2653 | 14.5 |
| ene | 4 | 2458852.75 | 21 | 25 | 37.13 | -17 | 1 | 49.22 | 1.2596 | 14.5 |
| ene | 5 | 2458853.75 | 21 | 30 | 27.03 | -16 | 38 | 2.32 | 1.2538 | 14.6 |
| ene | 6 | 2458854.75 | 21 | 35 | 15.47 | -16 | 13 | 49.08 | 1.2481 | 14.6 |
| ene | 7 | 2458855.75 | 21 | 40 | 2.45 | -15 | 49 | 10.30 | 1.2423 | 14.6 |
| ene | 8 | 2458856.75 | 21 | 44 | 47.99 | -15 | 24 | 6.77 | 1.2364 | 14.6 |
| ene | 9 | 2458857.75 | 21 | 49 | 32.11 | -14 | 58 | 39.30 | 1.2306 | 14.6 |
| ene | 10 | 2458858.75 | 21 | 54 | 14.81 | -14 | 32 | 48.69 | 1.2247 | 14.6 |
| ene | 11 | 2458859.75 | 21 | 58 | 56.12 | -14 | 6 | 35.75 | 1.2188 | 14.6 |
| ene | 12 | 2458860.75 | 22 | 3 | 36.05 | -13 | 40 | 1.28 | 1.2128 | 14.6 |
| ene | 13 | 2458861.75 | 22 | 8 | 14.61 | -13 | 13 | 6.05 | 1.2069 | 14.7 |
| ene | 14 | 2458862.75 | 22 | 12 | 51.85 | -12 | 45 | 50.84 | 1.2009 | 14.7 |
| ene | 15 | 2458863.75 | 22 | 17 | 27.78 | -12 | 18 | 16.42 | 1.1948 | 14.7 |
| ene | 16 | 2458864.75 | 22 | 22 | 2.42 | -11 | 50 | 23.54 | 1.1888 | 14.7 |
| ene | 17 | 2458865.75 | 22 | 26 | 35.82 | -11 | 22 | 12.97 | 1.1827 | 14.7 |
| ene | 18 | 2458866.75 | 22 | 31 | 8.00 | -10 | 53 | 45.47 | 1.1766 | 14.7 |
| ene | 19 | 2458867.75 | 22 | 35 | 38.98 | -10 | 25 | 1.81 | 1.1704 | 14.7 |
| ene | 20 | 2458868.75 | 22 | 40 | 8.80 | -9 | 56 | 2.75 | 1.1643 | 14.7 |
| ene | 21 | 2458869.75 | 22 | 44 | 37.48 | -9 | 26 | 49.08 | 1.1581 | 14.7 |
| ene | 22 | 2458870.75 | 22 | 49 | 5.06 | -8 | 57 | 21.56 | 1.1519 | 14.7 |
| ene | 23 | 2458871.75 | 22 | 53 | 31.55 | -8 | 27 | 40.98 | 1.1456 | 14.8 |
| ene | 24 | 2458872.75 | 22 | 57 | 56.98 | -7 | 57 | 48.11 | 1.1393 | 14.8 |
| ene | 25 | 2458873.75 | 23 | 2 | 21.39 | -7 | 27 | 43.73 | 1.1330 | 14.8 |
| ene | 26 | 2458874.75 | 23 | 6 | 44.79 | -6 | 57 | 28.60 | 1.1267 | 14.8 |
| ene | 27 | 2458875.75 | 23 | 11 | 7.22 | -6 | 27 | 3.50 | 1.1203 | 14.8 |
| ene | 28 | 2458876.75 | 23 | 15 | 28.71 | -5 | 56 | 29.18 | 1.1139 | 14.8 |
| ene | 29 | 2458877.75 | 23 | 19 | 49.28 | -5 | 25 | 46.40 | 1.1075 | 14.8 |
| ene | 30 | 2458878.75 | 23 | 24 | 8.96 | -4 | 54 | 55.92 | 1.1010 | 14.8 |
| ene | 31 | 2458879.75 | 23 | 28 | 27.79 | -4 | 23 | 58.49 | 1.0945 | 14.8 |
| feb | 1 | 2458880.75 | 23 | 32 | 45.80 | -3 | 52 | 54.86 | 1.0880 | 14.8 |
| feb | 2 | 2458881.75 | 23 | 37 | 3.00 | -3 | 21 | 45.77 | 1.0814 | 14.8 |
| feb | 3 | 2458882.75 | 23 | 41 | 19.45 | -2 | 50 | 31.98 | 1.0748 | 14.8 |
| feb | 4 | 2458883.75 | 23 | 45 | 35.15 | -2 | 19 | 14.21 | 1.0682 | 14.8 |
| feb | 5 | 2458884.75 | 23 | 49 | 50.16 | -1 | 47 | 53.22 | 1.0616 | 14.8 |
| feb | 6 | 2458885.75 | 23 | 54 | 4.48 | -1 | 16 | 29.74 | 1.0549 | 14.8 |
| feb | 7 | 2458886.75 | 23 | 58 | 18.16 | -0 | 45 | 4.51 | 1.0482 | 14.8 |
| feb | 8 | 2458887.75 | 0 | 2 | 31.21 | -0 | 13 | 38.25 | 1.0415 | 14.9 |
| feb | 9 | 2458888.75 | 0 | 6 | 43.68 | +0 | 17 | 48.30 | 1.0348 | 14.9 |
| feb | 10 | 2458889.75 | 0 | 10 | 55.58 | +0 | 49 | 14.46 | 1.0280 | 14.9 |
| feb | 11 | 2458890.75 | 0 | 15 | 6.96 | +1 | 20 | 39.54 | 1.0212 | 14.9 |
| feb | 12 | 2458891.75 | 0 | 19 | 17.85 | +1 | 52 | 2.85 | 1.0144 | 14.9 |
| feb | 13 | 2458892.75 | 0 | 23 | 28.28 | +2 | 23 | 23.75 | 1.0075 | 14.9 |
| feb | 14 | 2458893.75 | 0 | 27 | 38.28 | +2 | 54 | 41.58 | 1.0006 | 14.9 |
| feb | 15 | 2458894.75 | 0 | 31 | 47.89 | +3 | 25 | 55.68 | 0.9937 | 14.9 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 0 | 35 | 57.13 | +3 | 57 | 5.40 | 0.9868 | 14.9 |
| feb | 17 | 2458896.75 | 0 | 40 | 6.04 | +4 | 28 | 10.07 | 0.9798 | 14.9 |
| feb | 18 | 2458897.75 | 0 | 44 | 14.63 | +4 | 59 | 9.02 | 0.9729 | 14.9 |
| feb | 19 | 2458898.75 | 0 | 48 | 22.93 | +5 | 30 | 1.58 | 0.9658 | 14.9 |
| feb | 20 | 2458899.75 | 0 | 52 | 30.97 | +6 | 0 | 47.06 | 0.9588 | 14.9 |
| feb | 21 | 2458900.75 | 0 | 56 | 38.75 | +6 | 31 | 24.80 | 0.9518 | 14.9 |
| feb | 22 | 2458901.75 | 1 | 0 | 46.29 | +7 | 1 | 54.12 | 0.9447 | 14.9 |
| feb | 23 | 2458902.75 | 1 | 4 | 53.62 | +7 | 32 | 14.35 | 0.9376 | 14.9 |
| feb | 24 | 2458903.75 | 1 | 9 | 0.75 | +8 | 2 | 24.81 | 0.9304 | 14.9 |
| feb | 25 | 2458904.75 | 1 | 13 | 7.69 | +8 | 32 | 24.84 | 0.9232 | 14.9 |
| feb | 26 | 2458905.75 | 1 | 17 | 14.45 | +9 | 2 | 13.77 | 0.9161 | 14.9 |
| feb | 27 | 2458906.75 | 1 | 21 | 21.04 | +9 | 31 | 50.93 | 0.9088 | 14.9 |
| feb | 28 | 2458907.75 | 1 | 25 | 27.48 | +10 | 1 | 15.67 | 0.9016 | 14.9 |
| feb | 29 | 2458908.75 | 1 | 29 | 33.77 | +10 | 30 | 27.32 | 0.8943 | 14.9 |
| mar | 1 | 2458909.75 | 1 | 33 | 39.91 | +10 | 59 | 25.22 | 0.8870 | 14.9 |
| mar | 2 | 2458910.75 | 1 | 37 | 45.91 | +11 | 28 | 8.73 | 0.8797 | 14.9 |
| mar | 3 | 2458911.75 | 1 | 41 | 51.77 | +11 | 56 | 37.18 | 0.8724 | 14.9 |
| mar | 4 | 2458912.75 | 1 | 45 | 57.47 | +12 | 24 | 49.94 | 0.8650 | 14.9 |
| mar | 5 | 2458913.75 | 1 | 50 | 3.03 | +12 | 52 | 46.34 | 0.8576 | 14.9 |
| mar | 6 | 2458914.75 | 1 | 54 | 8.42 | +13 | 20 | 25.75 | 0.8502 | 14.9 |
| mar | 7 | 2458915.75 | 1 | 58 | 13.65 | +13 | 47 | 47.52 | 0.8428 | 14.9 |
| mar | 8 | 2458916.75 | 2 | 2 | 18.70 | +14 | 14 | 51.03 | 0.8354 | 14.9 |
| mar | 9 | 2458917.75 | 2 | 6 | 23.56 | +14 | 41 | 35.67 | 0.8279 | 14.9 |
| mar | 10 | 2458918.75 | 2 | 10 | 28.22 | +15 | 8 | 0.85 | 0.8204 | 14.9 |
| mar | 11 | 2458919.75 | 2 | 14 | 32.68 | +15 | 34 | 6.00 | 0.8129 | 15.0 |
| mar | 12 | 2458920.75 | 2 | 18 | 36.92 | +15 | 59 | 50.59 | 0.8054 | 15.0 |
| mar | 13 | 2458921.75 | 2 | 22 | 40.92 | +16 | 25 | 14.10 | 0.7978 | 15.0 |
| mar | 14 | 2458922.75 | 2 | 26 | 44.68 | +16 | 50 | 16.01 | 0.7903 | 15.0 |
| mar | 15 | 2458923.75 | 2 | 30 | 48.16 | +17 | 14 | 55.82 | 0.7827 | 15.0 |
| mar | 16 | 2458924.75 | 2 | 34 | 51.35 | +17 | 39 | 13.01 | 0.7751 | 15.0 |
| mar | 17 | 2458925.75 | 2 | 38 | 54.21 | +18 | 3 | 7.09 | 0.7675 | 15.0 |
| mar | 18 | 2458926.75 | 2 | 42 | 56.70 | +18 | 26 | 37.54 | 0.7599 | 15.0 |
| mar | 19 | 2458927.75 | 2 | 46 | 58.79 | +18 | 49 | 43.88 | 0.7523 | 15.0 |
| mar | 20 | 2458928.75 | 2 | 51 | 0.43 | +19 | 12 | 25.61 | 0.7446 | 15.0 |
| mar | 21 | 2458929.75 | 2 | 55 | 1.58 | +19 | 34 | 42.27 | 0.7370 | 15.0 |
| mar | 22 | 2458930.75 | 2 | 59 | 2.18 | +19 | 56 | 33.38 | 0.7293 | 15.0 |
| mar | 23 | 2458931.75 | 3 | 3 | 2.17 | +20 | 17 | 58.49 | 0.7216 | 15.0 |
| mar | 24 | 2458932.75 | 3 | 7 | 1.50 | +20 | 38 | 57.17 | 0.7140 | 15.0 |
| mar | 25 | 2458933.75 | 3 | 11 | 0.09 | +20 | 59 | 28.98 | 0.7063 | 15.0 |
| mar | 26 | 2458934.75 | 3 | 14 | 57.89 | +21 | 19 | 33.51 | 0.6985 | 15.0 |
| mar | 27 | 2458935.75 | 3 | 18 | 54.80 | +21 | 39 | 10.37 | 0.6908 | 15.0 |
| mar | 28 | 2458936.75 | 3 | 22 | 50.75 | +21 | 58 | 19.17 | 0.6831 | 15.0 |
| mar | 29 | 2458937.75 | 3 | 26 | 45.66 | +22 | 16 | 59.54 | 0.6754 | 15.0 |
| mar | 30 | 2458938.75 | 3 | 30 | 39.42 | +22 | 35 | 11.14 | 0.6676 | 15.0 |
| mar | 31 | 2458939.75 | 3 | 34 | 31.94 | +22 | 52 | 53.62 | 0.6599 | 15.0 |
| abr | 1 | 2458940.75 | 3 | 38 | 23.12 | +23 | 10 | 6.67 | 0.6521 | 15.0 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ " | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 3 | 42 | 12.83 | +23 | 26 | 49.99 | 0.6444 | 15.0 |
| abr | 3 | 2458942.75 | 3 | 46 | 0.97 | +23 | 43 | 3.27 | 0.6366 | 15.0 |
| abr | 4 | 2458943.75 | 3 | 49 | 47.41 | +23 | 58 | 46.26 | 0.6289 | 15.0 |
| abr | 5 | 2458944.75 | 3 | 53 | 32.03 | +24 | 13 | 58.70 | 0.6211 | 15.0 |
| abr | 6 | 2458945.75 | 3 | 57 | 14.70 | +24 | 28 | 40.37 | 0.6134 | 15.0 |
| abr | 7 | 2458946.75 | 4 | 0 | 55.28 | +24 | 42 | 51.09 | 0.6057 | 15.0 |
| abr | 8 | 2458947.75 | 4 | 4 | 33.65 | +24 | 56 | 30.70 | 0.5979 | 14.9 |
| abr | 9 | 2458948.75 | 4 | 8 | 9.66 | +25 | 9 | 39.10 | 0.5902 | 14.9 |
| abr | 10 | 2458949.75 | 4 | 11 | 43.18 | +25 | 22 | 16.22 | 0.5825 | 14.9 |
| abr | 11 | 2458950.75 | 4 | 15 | 14.06 | +25 | 34 | 22.01 | 0.5748 | 14.9 |
| abr | 12 | 2458951.75 | 4 | 18 | 42.14 | +25 | 45 | 56.45 | 0.5672 | 14.9 |
| abr | 13 | 2458952.75 | 4 | 22 | 7.26 | +25 | 56 | 59.51 | 0.5595 | 14.9 |
| abr | 14 | 2458953.75 | 4 | 25 | 29.25 | +26 | 7 | 31.19 | 0.5519 | 14.9 |
| abr | 15 | 2458954.75 | 4 | 28 | 47.93 | +26 | 17 | 31.51 | 0.5443 | 14.9 |
| abr | 16 | 2458955.75 | 4 | 32 | 3.12 | +26 | 27 | 0.47 | 0.5367 | 14.9 |
| abr | 17 | 2458956.75 | 4 | 35 | 14.63 | +26 | 35 | 58.10 | 0.5291 | 14.9 |
| abr | 18 | 2458957.75 | 4 | 38 | 22.25 | +26 | 44 | 24.45 | 0.5216 | 14.9 |
| abr | 19 | 2458958.75 | 4 | 41 | 25.78 | +26 | 52 | 19.55 | 0.5141 | 14.8 |
| abr | 20 | 2458959.75 | 4 | 44 | 25.00 | +26 | 59 | 43.47 | 0.5066 | 14.8 |
| abr | 21 | 2458960.75 | 4 | 47 | 19.69 | +27 | 6 | 36.25 | 0.4992 | 14.8 |
| abr | 22 | 2458961.75 | 4 | 50 | 9.61 | +27 | 12 | 57.97 | 0.4918 | 14.8 |
| abr | 23 | 2458962.75 | 4 | 52 | 54.53 | +27 | 18 | 48.66 | 0.4844 | 14.8 |
| abr | 24 | 2458963.75 | 4 | 55 | 34.20 | +27 | 24 | 8.39 | 0.4771 | 14.7 |
| abr | 25 | 2458964.75 | 4 | 58 | 8.35 | +27 | 28 | 57.20 | 0.4699 | 14.7 |
| abr | 26 | 2458965.75 | 5 | 0 | 36.72 | +27 | 33 | 15.12 | 0.4627 | 14.7 |
| abr | 27 | 2458966.75 | 5 | 2 | 59.04 | +27 | 37 | 2.15 | 0.4555 | 14.7 |
| abr | 28 | 2458967.75 | 5 | 5 | 15.03 | +27 | 40 | 18.27 | 0.4484 | 14.6 |
| abr | 29 | 2458968.75 | 5 | 7 | 24.39 | +27 | 43 | 3.43 | 0.4414 | 14.6 |
| abr | 30 | 2458969.75 | 5 | 9 | 26.83 | +27 | 45 | 17.55 | 0.4345 | 14.6 |
| may | 1 | 2458970.75 | 5 | 11 | 22.05 | +27 | 47 | 0.49 | 0.4276 | 14.5 |
| may | 2 | 2458971.75 | 5 | 13 | 9.76 | +27 | 48 | 12.08 | 0.4208 | 14.5 |
| may | 3 | 2458972.75 | 5 | 14 | 49.65 | +27 | 48 | 52.10 | 0.4141 | 14.5 |
| may | 4 | 2458973.75 | 5 | 16 | 21.43 | +27 | 49 | 0.27 | 0.4074 | 14.4 |
| may | 5 | 2458974.75 | 5 | 17 | 44.80 | +27 | 48 | 36.26 | 0.4009 | 14.4 |
| may | 6 | 2458975.75 | 5 | 18 | 59.48 | +27 | 47 | 39.71 | 0.3945 | 14.3 |
| may | 7 | 2458976.75 | 5 | 20 | 5.20 | +27 | 46 | 10.20 | 0.3882 | 14.3 |
| may | 8 | 2458977.75 | 5 | 21 | 1.70 | +27 | 44 | 7.26 | 0.3820 | 14.2 |
| may | 9 | 2458978.75 | 5 | 21 | 48.74 | +27 | 41 | 30.37 | 0.3759 | 14.2 |
| may | 10 | 2458979.75 | 5 | 22 | 26.08 | +27 | 38 | 18.91 | 0.3700 | 14.1 |
| may | 11 | 2458980.75 | 5 | 22 | 53.50 | +27 | 34 | 32.22 | 0.3642 | 14.1 |
| may | 12 | 2458981.75 | 5 | 23 | 10.81 | +27 | 30 | 9.55 | 0.3585 | 14.0 |
| may | 13 | 2458982.75 | 5 | 23 | 17.85 | +27 | 25 | 10.11 | 0.3530 | 14.0 |
| may | 14 | 2458983.75 | 5 | 23 | 14.48 | +27 | 19 | 33.02 | 0.3477 | 13.9 |
| may | 15 | 2458984.75 | 5 | 23 | 0.59 | +27 | 13 | 17.38 | 0.3425 | 13.8 |
| may | 16 | 2458985.75 | 5 | 22 | 36.13 | +27 | 6 | 22.28 | 0.3375 | 13.7 |
| may | 17 | 2458986.75 | 5 | 22 | 1.06 | +26 | 58 | 46.78 | 0.3328 | 13.7 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 5 | 21 | 15.42 | +26 | 50 | 29.98 | 0.3282 | 13.6 |
| may | 19 | 2458988.75 | 5 | 20 | 19.30 | +26 | 41 | 31.05 | 0.3238 | 13.5 |
| may | 20 | 2458989.75 | 5 | 19 | 12.85 | +26 | 31 | 49.23 | 0.3196 | 13.4 |
| may | 21 | 2458990.75 | 5 | 17 | 56.28 | +26 | 21 | 23.90 | 0.3157 | 13.3 |
| may | 22 | 2458991.75 | 5 | 16 | 29.87 | +26 | 10 | 14.61 | 0.3119 | 13.3 |
| may | 23 | 2458992.75 | 5 | 14 | 53.98 | +25 | 58 | 21.14 | 0.3085 | 13.2 |
| may | 24 | 2458993.75 | 5 | 13 | 9.04 | +25 | 45 | 43.53 | 0.3053 | 13.1 |
| may | 25 | 2458994.75 | 5 | 11 | 15.55 | +25 | 32 | 22.13 | 0.3023 | 13.0 |
| may | 26 | 2458995.75 | 5 | 9 | 14.12 | +25 | 18 | 17.69 | 0.2996 | 12.9 |
| may | 27 | 2458996.75 | 5 | 7 | 5.39 | +25 | 3 | 31.33 | 0.2972 | 12.8 |
| may | 28 | 2458997.75 | 5 | 4 | 50.12 | +24 | 48 | 4.63 | 0.2951 | 12.7 |
| may | 29 | 2458998.75 | 5 | 2 | 29.11 | +24 | 31 | 59.69 | 0.2932 | 12.6 |
| may | 30 | 2458999.75 | 5 | 0 | 3.25 | +24 | 15 | 19.10 | 0.2917 | 12.5 |
| may | 31 | 2459000.75 | 4 | 57 | 33.47 | +23 | 58 | 5.96 | 0.2905 | 12.3 |
| jun | 1 | 2459001.75 | 4 | 55 | 0.76 | +23 | 40 | 23.92 | 0.2895 | 12.2 |
| jun | 2 | 2459002.75 | 4 | 52 | 26.15 | +23 | 22 | 17.15 | 0.2889 | 12.1 |
| jun | 3 | 2459003.75 | 4 | 49 | 50.68 | +23 | 3 | 50.25 | 0.2886 | 12.0 |
| jun | 4 | 2459004.75 | 4 | 47 | 15.40 | +22 | 45 | 8.27 | 0.2886 | 11.9 |
| jun | 5 | 2459005.75 | 4 | 44 | 41.38 | +22 | 26 | 16.58 | 0.2889 | 11.8 |
| jun | 6 | 2459006.75 | 4 | 42 | 9.62 | +22 | 7 | 20.78 | 0.2896 | 11.7 |
| jun | 7 | 2459007.75 | 4 | 39 | 41.13 | +21 | 48 | 26.61 | 0.2905 | 11.6 |
| jun | 8 | 2459008.75 | 4 | 37 | 16.83 | +21 | 29 | 39.84 | 0.2918 | 11.5 |
| jun | 9 | 2459009.75 | 4 | 34 | 57.61 | +21 | 11 | 6.17 | 0.2934 | 11.4 |
| jun | 10 | 2459010.75 | 4 | 32 | 44.25 | +20 | 52 | 51.14 | 0.2952 | 11.3 |
| jun | 11 | 2459011.75 | 4 | 30 | 37.50 | +20 | 35 | 0.02 | 0.2974 | 11.2 |
| jun | 12 | 2459012.75 | 4 | 28 | 38.00 | +20 | 17 | 37.79 | 0.2998 | 11.1 |
| jun | 13 | 2459013.75 | 4 | 26 | 46.32 | +20 | 0 | 49.02 | 0.3026 | 11.0 |
| jun | 14 | 2459014.75 | 4 | 25 | 2.94 | +19 | 44 | 37.87 | 0.3055 | 10.9 |
| jun | 15 | 2459015.75 | 4 | 23 | 28.26 | +19 | 29 | 8.00 | 0.3088 | 10.8 |
| jun | 16 | 2459016.75 | 4 | 22 | 2.62 | +19 | 14 | 22.61 | 0.3123 | 10.7 |
| jun | 17 | 2459017.75 | 4 | 20 | 46.26 | +19 | 0 | 24.39 | 0.3160 | 10.6 |
| jun | 18 | 2459018.75 | 4 | 19 | 39.37 | +18 | 47 | 15.52 | 0.3200 | 10.5 |
| jun | 19 | 2459019.75 | 4 | 18 | 42.08 | +18 | 34 | 57.69 | 0.3242 | 10.5 |
| jun | 20 | 2459020.75 | 4 | 17 | 54.43 | +18 | 23 | 32.13 | 0.3286 | 10.4 |
| jun | 21 | 2459021.75 | 4 | 17 | 16.44 | +18 | 12 | 59.63 | 0.3333 | 10.3 |
| jun | 22 | 2459022.75 | 4 | 16 | 48.08 | +18 | 3 | 20.55 | 0.3381 | 10.2 |
| jun | 23 | 2459023.75 | 4 | 16 | 29.28 | +17 | 54 | 34.90 | 0.3431 | 10.2 |
| jun | 24 | 2459024.75 | 4 | 16 | 19.91 | +17 | 46 | 42.33 | 0.3483 | 10.1 |
| jun | 25 | 2459025.75 | 4 | 16 | 19.86 | +17 | 39 | 42.19 | 0.3536 | 10.0 |
| jun | 26 | 2459026.75 | 4 | 16 | 28.96 | +17 | 33 | 33.59 | 0.3591 | 10.0 |
| jun | 27 | 2459027.75 | 4 | 16 | 47.05 | +17 | 28 | 15.42 | 0.3648 | 9.9 |
| jun | 28 | 2459028.75 | 4 | 17 | 13.94 | +17 | 23 | 46.38 | 0.3706 | 9.8 |
| jun | 29 | 2459029.75 | 4 | 17 | 49.44 | +17 | 20 | 4.99 | 0.3765 | 9.8 |
| jun | 30 | 2459030.75 | 4 | 18 | 33.37 | +17 | 17 | 9.68 | 0.3826 | 9.7 |
| jul | 1 | 2459031.75 | 4 | 19 | 25.50 | +17 | 14 | 58.75 | 0.3888 | 9.7 |
| jul | 2 | 2459032.75 | 4 | 20 | 25.64 | +17 | 13 | 30.40 | 0.3952 | 9.6 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 4 | 21 | 33.56 | +17 | 12 | 42.76 | 0.4016 | 9.6 |
| jul | 4 | 2459034.75 | 4 | 22 | 49.07 | +17 | 12 | 33.90 | 0.4081 | 9.5 |
| jul | 5 | 2459035.75 | 4 | 24 | 11.94 | +17 | 13 | 1.80 | 0.4148 | 9.5 |
| jul | 6 | 2459036.75 | 4 | 25 | 41.95 | +17 | 14 | 4.42 | 0.4215 | 9.4 |
| jul | 7 | 2459037.75 | 4 | 27 | 18.89 | +17 | 15 | 39.70 | 0.4283 | 9.4 |
| jul | 8 | 2459038.75 | 4 | 29 | 2.54 | +17 | 17 | 45.54 | 0.4352 | 9.4 |
| jul | 9 | 2459039.75 | 4 | 30 | 52.70 | +17 | 20 | 19.87 | 0.4422 | 9.3 |
| jul | 10 | 2459040.75 | 4 | 32 | 49.16 | +17 | 23 | 20.60 | 0.4493 | 9.3 |
| jul | 11 | 2459041.75 | 4 | 34 | 51.71 | +17 | 26 | 45.68 | 0.4564 | 9.3 |
| jul | 12 | 2459042.75 | 4 | 37 | 0.15 | +17 | 30 | 33.08 | 0.4636 | 9.2 |
| jul | 13 | 2459043.75 | 4 | 39 | 14.30 | +17 | 34 | 40.80 | 0.4708 | 9.2 |
| jul | 14 | 2459044.75 | 4 | 41 | 33.96 | +17 | 39 | 6.89 | 0.4781 | 9.2 |
| jul | 15 | 2459045.75 | 4 | 43 | 58.95 | +17 | 43 | 49.42 | 0.4854 | 9.2 |
| jul | 16 | 2459046.75 | 4 | 46 | 29.10 | +17 | 48 | 46.51 | 0.4928 | 9.1 |
| jul | 17 | 2459047.75 | 4 | 49 | 4.23 | +17 | 53 | 56.33 | 0.5003 | 9.1 |
| jul | 18 | 2459048.75 | 4 | 51 | 44.17 | +17 | 59 | 17.09 | 0.5077 | 9.1 |
| jul | 19 | 2459049.75 | 4 | 54 | 28.77 | +18 | 4 | 47.03 | 0.5152 | 9.1 |
| jul | 20 | 2459050.75 | 4 | 57 | 17.87 | +18 | 10 | 24.46 | 0.5228 | 9.1 |
| jul | 21 | 2459051.75 | 5 | 0 | 11.32 | +18 | 16 | 7.71 | 0.5304 | 9.0 |
| jul | 22 | 2459052.75 | 5 | 3 | 8.96 | +18 | 21 | 55.19 | 0.5380 | 9.0 |
| jul | 23 | 2459053.75 | 5 | 6 | 10.67 | +18 | 27 | 45.31 | 0.5456 | 9.0 |
| jul | 24 | 2459054.75 | 5 | 9 | 16.32 | +18 | 33 | 36.57 | 0.5533 | 9.0 |
| jul | 25 | 2459055.75 | 5 | 12 | 25.78 | +18 | 39 | 27.52 | 0.5610 | 9.0 |
| jul | 26 | 2459056.75 | 5 | 15 | 38.95 | +18 | 45 | 16.74 | 0.5687 | 9.0 |
| jul | 27 | 2459057.75 | 5 | 18 | 55.71 | +18 | 51 | 2.88 | 0.5764 | 9.0 |
| jul | 28 | 2459058.75 | 5 | 22 | 15.95 | +18 | 56 | 44.64 | 0.5842 | 8.9 |
| jul | 29 | 2459059.75 | 5 | 25 | 39.59 | +19 | 2 | 20.74 | 0.5919 | 8.9 |
| jul | 30 | 2459060.75 | 5 | 29 | 6.52 | +19 | 7 | 49.95 | 0.5997 | 8.9 |
| jul | 31 | 2459061.75 | 5 | 32 | 36.66 | +19 | 13 | 11.08 | 0.6075 | 8.9 |
| ago | 1 | 2459062.75 | 5 | 36 | 9.90 | +19 | 18 | 22.95 | 0.6153 | 8.9 |
| ago | 2 | 2459063.75 | 5 | 39 | 46.16 | +19 | 23 | 24.41 | 0.6231 | 8.9 |
| ago | 3 | 2459064.75 | 5 | 43 | 25.35 | +19 | 28 | 14.34 | 0.6309 | 8.9 |
| ago | 4 | 2459065.75 | 5 | 47 | 7.38 | +19 | 32 | 51.65 | 0.6388 | 8.9 |
| ago | 5 | 2459066.75 | 5 | 50 | 52.16 | +19 | 37 | 15.28 | 0.6466 | 8.9 |
| ago | 6 | 2459067.75 | 5 | 54 | 39.62 | +19 | 41 | 24.19 | 0.6545 | 8.9 |
| ago | 7 | 2459068.75 | 5 | 58 | 29.66 | +19 | 45 | 17.40 | 0.6623 | 8.9 |
| ago | 8 | 2459069.75 | 6 | 2 | 22.21 | +19 | 48 | 53.94 | 0.6702 | 8.9 |
| ago | 9 | 2459070.75 | 6 | 6 | 17.18 | +19 | 52 | 12.89 | 0.6780 | 8.9 |
| ago | 10 | 2459071.75 | 6 | 10 | 14.49 | +19 | 55 | 13.35 | 0.6859 | 8.9 |
| ago | 11 | 2459072.75 | 6 | 14 | 14.05 | +19 | 57 | 54.48 | 0.6937 | 8.9 |
| ago | 12 | 2459073.75 | 6 | 18 | 15.79 | +20 | 0 | 15.45 | 0.7015 | 8.9 |
| ago | 13 | 2459074.75 | 6 | 22 | 19.63 | +20 | 2 | 15.47 | 0.7094 | 8.9 |
| ago | 14 | 2459075.75 | 6 | 26 | 25.48 | +20 | 3 | 53.81 | 0.7172 | 8.9 |
| ago | 15 | 2459076.75 | 6 | 30 | 33.26 | +20 | 5 | 9.74 | 0.7250 | 8.9 |
| ago | 16 | 2459077.75 | 6 | 34 | 42.90 | +20 | 6 | 2.58 | 0.7329 | 8.9 |
| ago | 17 | 2459078.75 | 6 | 38 | 54.30 | +20 | 6 | 31.69 | 0.7407 | 8.9 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 6 | 43 | 7.40 | +20 | 6 | 36.46 | 0.7485 | 8.9 |
| ago | 19 | 2459080.75 | 6 | 47 | 22.11 | +20 | 6 | 16.28 | 0.7563 | 8.9 |
| ago | 20 | 2459081.75 | 6 | 51 | 38.35 | +20 | 5 | 30.62 | 0.7640 | 8.9 |
| ago | 21 | 2459082.75 | 6 | 55 | 56.06 | +20 | 4 | 18.95 | 0.7718 | 8.9 |
| ago | 22 | 2459083.75 | 7 | 0 | 15.16 | +20 | 2 | 40.78 | 0.7795 | 8.9 |
| ago | 23 | 2459084.75 | 7 | 4 | 35.58 | +20 | 0 | 35.69 | 0.7873 | 8.9 |
| ago | 24 | 2459085.75 | 7 | 8 | 57.28 | +19 | 58 | 3.25 | 0.7950 | 9.0 |
| ago | 25 | 2459086.75 | 7 | 13 | 20.17 | +19 | 55 | 3.10 | 0.8027 | 9.0 |
| ago | 26 | 2459087.75 | 7 | 17 | 44.21 | +19 | 51 | 34.90 | 0.8104 | 9.0 |
| ago | 27 | 2459088.75 | 7 | 22 | 9.32 | +19 | 47 | 38.32 | 0.8181 | 9.0 |
| ago | 28 | 2459089.75 | 7 | 26 | 35.46 | +19 | 43 | 13.08 | 0.8258 | 9.0 |
| ago | 29 | 2459090.75 | 7 | 31 | 2.56 | +19 | 38 | 18.91 | 0.8335 | 9.0 |
| ago | 30 | 2459091.75 | 7 | 35 | 30.56 | +19 | 32 | 55.55 | 0.8411 | 9.0 |
| ago | 31 | 2459092.75 | 7 | 39 | 59.42 | +19 | 27 | 2.79 | 0.8487 | 9.0 |
| sep | 1 | 2459093.75 | 7 | 44 | 29.06 | +19 | 20 | 40.42 | 0.8564 | 9.0 |
| sep | 2 | 2459094.75 | 7 | 48 | 59.45 | +19 | 13 | 48.28 | 0.8640 | 9.0 |
| sep | 3 | 2459095.75 | 7 | 53 | 30.52 | +19 | 6 | 26.22 | 0.8715 | 9.0 |
| sep | 4 | 2459096.75 | 7 | 58 | 2.22 | +18 | 58 | 34.13 | 0.8791 | 9.0 |
| sep | 5 | 2459097.75 | 8 | 2 | 34.50 | +18 | 50 | 11.93 | 0.8866 | 9.1 |
| sep | 6 | 2459098.75 | 8 | 7 | 7.31 | +18 | 41 | 19.57 | 0.8942 | 9.1 |
| sep | 7 | 2459099.75 | 8 | 11 | 40.60 | +18 | 31 | 57.03 | 0.9017 | 9.1 |
| sep | 8 | 2459100.75 | 8 | 16 | 14.32 | +18 | 22 | 4.32 | 0.9092 | 9.1 |
| sep | 9 | 2459101.75 | 8 | 20 | 48.42 | +18 | 11 | 41.48 | 0.9166 | 9.1 |
| sep | 10 | 2459102.75 | 8 | 25 | 22.84 | +18 | 0 | 48.59 | 0.9241 | 9.1 |
| sep | 11 | 2459103.75 | 8 | 29 | 57.55 | +17 | 49 | 25.73 | 0.9315 | 9.1 |
| sep | 12 | 2459104.75 | 8 | 34 | 32.49 | +17 | 37 | 33.05 | 0.9389 | 9.1 |
| sep | 13 | 2459105.75 | 8 | 39 | 7.62 | +17 | 25 | 10.70 | 0.9462 | 9.1 |
| sep | 14 | 2459106.75 | 8 | 43 | 42.90 | +17 | 12 | 18.85 | 0.9536 | 9.2 |
| sep | 15 | 2459107.75 | 8 | 48 | 18.27 | +16 | 58 | 57.72 | 0.9609 | 9.2 |
| sep | 16 | 2459108.75 | 8 | 52 | 53.70 | +16 | 45 | 7.53 | 0.9682 | 9.2 |
| sep | 17 | 2459109.75 | 8 | 57 | 29.15 | +16 | 30 | 48.53 | 0.9755 | 9.2 |
| sep | 18 | 2459110.75 | 9 | 2 | 4.57 | +16 | 16 | 1.00 | 0.9827 | 9.2 |
| sep | 19 | 2459111.75 | 9 | 6 | 39.95 | +16 | 0 | 45.23 | 0.9899 | 9.2 |
| sep | 20 | 2459112.75 | 9 | 11 | 15.25 | +15 | 45 | 1.53 | 0.9971 | 9.2 |
| sep | 21 | 2459113.75 | 9 | 15 | 50.45 | +15 | 28 | 50.24 | 1.0043 | 9.2 |
| sep | 22 | 2459114.75 | 9 | 20 | 25.51 | +15 | 12 | 11.73 | 1.0114 | 9.2 |
| sep | 23 | 2459115.75 | 9 | 25 | 0.43 | +14 | 55 | 6.36 | 1.0185 | 9.2 |
| sep | 24 | 2459116.75 | 9 | 29 | 35.17 | +14 | 37 | 34.54 | 1.0256 | 9.3 |
| sep | 25 | 2459117.75 | 9 | 34 | 9.73 | +14 | 19 | 36.64 | 1.0327 | 9.3 |
| sep | 26 | 2459118.75 | 9 | 38 | 44.09 | +14 | 1 | 13.09 | 1.0397 | 9.3 |
| sep | 27 | 2459119.75 | 9 | 43 | 18.23 | +13 | 42 | 24.29 | 1.0467 | 9.3 |
| sep | 28 | 2459120.75 | 9 | 47 | 52.15 | +13 | 23 | 10.68 | 1.0537 | 9.3 |
| sep | 29 | 2459121.75 | 9 | 52 | 25.84 | +13 | 3 | 32.68 | 1.0607 | 9.3 |
| sep | 30 | 2459122.75 | 9 | 56 | 59.28 | +12 | 43 | 30.75 | 1.0676 | 9.3 |
| oct | 1 | 2459123.75 | 10 | 1 | 32.48 | +12 | 23 | 5.35 | 1.0745 | 9.3 |
| oct | 2 | 2459124.75 | 10 | 6 | 5.44 | +12 | 2 | 16.96 | 1.0813 | 9.3 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 10 | 10 | 38.14 | +11 | 41 | 6.07 | 1.0882 | 9.4 |
| oct | 4 | 2459126.75 | 10 | 15 | 10.60 | +11 | 19 | 33.20 | 1.0950 | 9.4 |
| oct | 5 | 2459127.75 | 10 | 19 | 42.81 | +10 | 57 | 38.85 | 1.1018 | 9.4 |
| oct | 6 | 2459128.75 | 10 | 24 | 14.77 | +10 | 35 | 23.57 | 1.1085 | 9.4 |
| oct | 7 | 2459129.75 | 10 | 28 | 46.49 | +10 | 12 | 47.91 | 1.1153 | 9.4 |
| oct | 8 | 2459130.75 | 10 | 33 | 17.97 | +9 | 49 | 52.42 | 1.1220 | 9.4 |
| oct | 9 | 2459131.75 | 10 | 37 | 49.21 | +9 | 26 | 37.70 | 1.1286 | 9.4 |
| oct | 10 | 2459132.75 | 10 | 42 | 20.22 | +9 | 3 | 4.32 | 1.1352 | 9.4 |
| oct | 11 | 2459133.75 | 10 | 46 | 51.01 | +8 | 39 | 12.89 | 1.1418 | 9.4 |
| oct | 12 | 2459134.75 | 10 | 51 | 21.57 | +8 | 15 | 4.02 | 1.1484 | 9.4 |
| oct | 13 | 2459135.75 | 10 | 55 | 51.93 | +7 | 50 | 38.34 | 1.1549 | 9.4 |
| oct | 14 | 2459136.75 | 11 | 0 | 22.08 | +7 | 25 | 56.48 | 1.1614 | 9.5 |
| oct | 15 | 2459137.75 | 11 | 4 | 52.05 | +7 | 0 | 59.08 | 1.1679 | 9.5 |
| oct | 16 | 2459138.75 | 11 | 9 | 21.83 | +6 | 35 | 46.77 | 1.1743 | 9.5 |
| oct | 17 | 2459139.75 | 11 | 13 | 51.45 | +6 | 10 | 20.23 | 1.1807 | 9.5 |
| oct | 18 | 2459140.75 | 11 | 18 | 20.93 | +5 | 44 | 40.09 | 1.1871 | 9.5 |
| oct | 19 | 2459141.75 | 11 | 22 | 50.28 | +5 | 18 | 47.03 | 1.1934 | 9.5 |
| oct | 20 | 2459142.75 | 11 | 27 | 19.52 | +4 | 52 | 41.73 | 1.1997 | 9.5 |
| oct | 21 | 2459143.75 | 11 | 31 | 48.66 | +4 | 26 | 24.86 | 1.2060 | 9.5 |
| oct | 22 | 2459144.75 | 11 | 36 | 17.75 | +3 | 59 | 57.11 | 1.2122 | 9.5 |
| oct | 23 | 2459145.75 | 11 | 40 | 46.78 | +3 | 33 | 19.13 | 1.2184 | 9.5 |
| oct | 24 | 2459146.75 | 11 | 45 | 15.80 | +3 | 6 | 31.61 | 1.2245 | 9.5 |
| oct | 25 | 2459147.75 | 11 | 49 | 44.82 | +2 | 39 | 35.21 | 1.2307 | 9.6 |
| oct | 26 | 2459148.75 | 11 | 54 | 13.87 | +2 | 12 | 30.61 | 1.2368 | 9.6 |
| oct | 27 | 2459149.75 | 11 | 58 | 42.99 | +1 | 45 | 18.46 | 1.2428 | 9.6 |
| oct | 28 | 2459150.75 | 12 | 3 | 12.21 | +1 | 17 | 59.44 | 1.2489 | 9.6 |
| oct | 29 | 2459151.75 | 12 | 7 | 41.55 | +0 | 50 | 34.24 | 1.2548 | 9.6 |
| oct | 30 | 2459152.75 | 12 | 12 | 11.05 | +0 | 23 | 3.52 | 1.2608 | 9.6 |
| oct | 31 | 2459153.75 | 12 | 16 | 40.74 | -0 | 4 | 32.02 | 1.2667 | 9.6 |
| nov | 1 | 2459154.75 | 12 | 21 | 10.65 | -0 | 32 | 11.69 | 1.2726 | 9.6 |
| nov | 2 | 2459155.75 | 12 | 25 | 40.82 | -0 | 59 | 54.80 | 1.2785 | 9.6 |
| nov | 3 | 2459156.75 | 12 | 30 | 11.27 | -1 | 27 | 40.64 | 1.2843 | 9.6 |
| nov | 4 | 2459157.75 | 12 | 34 | 42.03 | -1 | 55 | 28.49 | 1.2901 | 9.6 |
| nov | 5 | 2459158.75 | 12 | 39 | 13.15 | -2 | 23 | 17.65 | 1.2958 | 9.7 |
| nov | 6 | 2459159.75 | 12 | 43 | 44.64 | -2 | 51 | 7.37 | 1.3015 | 9.7 |
| nov | 7 | 2459160.75 | 12 | 48 | 16.55 | -3 | 18 | 56.92 | 1.3072 | 9.7 |
| nov | 8 | 2459161.75 | 12 | 52 | 48.90 | -3 | 46 | 45.55 | 1.3128 | 9.7 |
| nov | 9 | 2459162.75 | 12 | 57 | 21.71 | -4 | 14 | 32.53 | 1.3184 | 9.7 |
| nov | 10 | 2459163.75 | 13 | 1 | 55.03 | -4 | 42 | 17.07 | 1.3240 | 9.7 |
| nov | 11 | 2459164.75 | 13 | 6 | 28.88 | -5 | 9 | 58.43 | 1.3295 | 9.7 |
| nov | 12 | 2459165.75 | 13 | 11 | 3.30 | -5 | 37 | 35.84 | 1.3350 | 9.7 |
| nov | 13 | 2459166.75 | 13 | 15 | 38.31 | -6 | 5 | 8.52 | 1.3405 | 9.7 |
| nov | 14 | 2459167.75 | 13 | 20 | 13.94 | -6 | 32 | 35.71 | 1.3459 | 9.8 |
| nov | 15 | 2459168.75 | 13 | 24 | 50.23 | -6 | 59 | 56.62 | 1.3512 | 9.8 |
| nov | 16 | 2459169.75 | 13 | 29 | 27.20 | -7 | 27 | 10.47 | 1.3566 | 9.8 |
| nov | 17 | 2459170.75 | 13 | 34 | 4.88 | -7 | 54 | 16.47 | 1.3619 | 9.8 |

Venus, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 13 | 38 | 43.30 | -8 | 21 | 13.82 | 1.3671 | 9.8 |
| nov | 19 | 2459172.75 | 13 | 43 | 22.48 | -8 | 48 | 1.73 | 1.3723 | 9.8 |
| nov | 20 | 2459173.75 | 13 | 48 | 2.45 | -9 | 14 | 39.40 | 1.3775 | 9.8 |
| nov | 21 | 2459174.75 | 13 | 52 | 43.24 | -9 | 41 | 6.05 | 1.3827 | 9.8 |
| nov | 22 | 2459175.75 | 13 | 57 | 24.89 | -10 | 7 | 20.91 | 1.3878 | 9.8 |
| nov | 23 | 2459176.75 | 14 | 2 | 7.41 | -10 | 33 | 23.17 | 1.3928 | 9.9 |
| nov | 24 | 2459177.75 | 14 | 6 | 50.85 | -10 | 59 | 12.09 | 1.3979 | 9.9 |
| nov | 25 | 2459178.75 | 14 | 11 | 35.22 | -11 | 24 | 46.86 | 1.4028 | 9.9 |
| nov | 26 | 2459179.75 | 14 | 16 | 20.57 | -11 | 50 | 6.72 | 1.4078 | 9.9 |
| nov | 27 | 2459180.75 | 14 | 21 | 6.90 | -12 | 15 | 10.90 | 1.4127 | 9.9 |
| nov | 28 | 2459181.75 | 14 | 25 | 54.26 | -12 | 39 | 58.60 | 1.4176 | 9.9 |
| nov | 29 | 2459182.75 | 14 | 30 | 42.66 | -13 | 4 | 29.05 | 1.4224 | 9.9 |
| nov | 30 | 2459183.75 | 14 | 35 | 32.13 | -13 | 28 | 41.48 | 1.4272 | 10.0 |
| dic | 1 | 2459184.75 | 14 | 40 | 22.69 | -13 | 52 | 35.08 | 1.4320 | 10.0 |
| dic | 2 | 2459185.75 | 14 | 45 | 14.35 | -14 | 16 | 9.09 | 1.4367 | 10.0 |
| dic | 3 | 2459186.75 | 14 | 50 | 7.14 | -14 | 39 | 22.70 | 1.4414 | 10.0 |
| dic | 4 | 2459187.75 | 14 | 55 | 1.07 | -15 | 2 | 15.12 | 1.4461 | 10.0 |
| dic | 5 | 2459188.75 | 14 | 59 | 56.15 | -15 | 24 | 45.56 | 1.4507 | 10.0 |
| dic | 6 | 2459189.75 | 15 | 4 | 52.40 | -15 | 46 | 53.21 | 1.4553 | 10.0 |
| dic | 7 | 2459190.75 | 15 | 9 | 49.82 | -16 | 8 | 37.29 | 1.4598 | 10.1 |
| dic | 8 | 2459191.75 | 15 | 14 | 48.43 | -16 | 29 | 56.99 | 1.4643 | 10.1 |
| dic | 9 | 2459192.75 | 15 | 19 | 48.22 | -16 | 50 | 51.53 | 1.4688 | 10.1 |
| dic | 10 | 2459193.75 | 15 | 24 | 49.21 | -17 | 11 | 20.11 | 1.4732 | 10.1 |
| dic | 11 | 2459194.75 | 15 | 29 | 51.40 | -17 | 31 | 21.95 | 1.4776 | 10.1 |
| dic | 12 | 2459195.75 | 15 | 34 | 54.78 | -17 | 50 | 56.30 | 1.4820 | 10.2 |
| dic | 13 | 2459196.75 | 15 | 39 | 59.36 | -18 | 10 | 2.38 | 1.4863 | 10.2 |
| dic | 14 | 2459197.75 | 15 | 45 | 5.11 | -18 | 28 | 39.43 | 1.4905 | 10.2 |
| dic | 15 | 2459198.75 | 15 | 50 | 12.04 | -18 | 46 | 46.71 | 1.4948 | 10.2 |
| dic | 16 | 2459199.75 | 15 | 55 | 20.12 | -19 | 4 | 23.48 | 1.4989 | 10.2 |
| dic | 17 | 2459200.75 | 16 | 0 | 29.34 | -19 | 21 | 28.98 | 1.5031 | 10.3 |
| dic | 18 | 2459201.75 | 16 | 5 | 39.69 | -19 | 38 | 2.51 | 1.5072 | 10.3 |
| dic | 19 | 2459202.75 | 16 | 10 | 51.14 | -19 | 54 | 3.36 | 1.5113 | 10.3 |
| dic | 20 | 2459203.75 | 16 | 16 | 3.67 | -20 | 9 | 30.84 | 1.5153 | 10.3 |
| dic | 21 | 2459204.75 | 16 | 21 | 17.28 | -20 | 24 | 24.30 | 1.5193 | 10.3 |
| dic | 22 | 2459205.75 | 16 | 26 | 31.92 | -20 | 38 | 43.10 | 1.5232 | 10.4 |
| dic | 23 | 2459206.75 | 16 | 31 | 47.59 | -20 | 52 | 26.60 | 1.5272 | 10.4 |
| dic | 24 | 2459207.75 | 16 | 37 | 4.26 | -21 | 5 | 34.22 | 1.5310 | 10.4 |
| dic | 25 | 2459208.75 | 16 | 42 | 21.88 | -21 | 18 | 5.37 | 1.5349 | 10.4 |
| dic | 26 | 2459209.75 | 16 | 47 | 40.45 | -21 | 29 | 59.49 | 1.5387 | 10.4 |
| dic | 27 | 2459210.75 | 16 | 52 | 59.91 | -21 | 41 | 16.05 | 1.5424 | 10.5 |
| dic | 28 | 2459211.75 | 16 | 58 | 20.23 | -21 | 51 | 54.53 | 1.5462 | 10.5 |
| dic | 29 | 2459212.75 | 17 | 3 | 41.38 | -22 | 1 | 54.44 | 1.5499 | 10.5 |
| dic | 30 | 2459213.75 | 17 | 9 | 3.31 | -22 | 11 | 15.31 | 1.5535 | 10.5 |
| dic | 31 | 2459214.75 | 17 | 14 | 25.98 | -22 | 19 | 56.69 | 1.5571 | 10.6 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| ene | 1 | 2458849.75 | 15 | 45 | 35.93 | -19 | 29 | 4.39 | 2.1826 | 9.1 |
| ene | 2 | 2458850.75 | 15 | 48 | 22.58 | -19 | 38 | 27.56 | 2.1754 | 9.0 |
| ene | 3 | 2458851.75 | 15 | 51 | 9.62 | -19 | 47 | 41.48 | 2.1682 | 9.0 |
| ene | 4 | 2458852.75 | 15 | 53 | 57.06 | -19 | 56 | 46.04 | 2.1609 | 9.0 |
| ene | 5 | 2458853.75 | 15 | 56 | 44.90 | -20 | 5 | 41.15 | 2.1536 | 9.0 |
| ene | 6 | 2458854.75 | 15 | 59 | 33.14 | -20 | 14 | 26.70 | 2.1462 | 9.0 |
| ene | 7 | 2458855.75 | 16 | 2 | 21.78 | -20 | 23 | 2.62 | 2.1389 | 9.0 |
| ene | 8 | 2458856.75 | 16 | 5 | 10.82 | -20 | 31 | 28.80 | 2.1315 | 8.9 |
| ene | 9 | 2458857.75 | 16 | 8 | 0.25 | -20 | 39 | 45.15 | 2.1240 | 8.9 |
| ene | 10 | 2458858.75 | 16 | 10 | 50.08 | -20 | 47 | 51.59 | 2.1166 | 8.9 |
| ene | 11 | 2458859.75 | 16 | 13 | 40.29 | -20 | 55 | 48.02 | 2.1091 | 8.9 |
| ene | 12 | 2458860.75 | 16 | 16 | 30.90 | -21 | 3 | 34.35 | 2.1016 | 8.9 |
| ene | 13 | 2458861.75 | 16 | 19 | 21.89 | -21 | 11 | 10.45 | 2.0941 | 8.8 |
| ene | 14 | 2458862.75 | 16 | 22 | 13.25 | -21 | 18 | 36.24 | 2.0865 | 8.8 |
| ene | 15 | 2458863.75 | 16 | 25 | 5.00 | -21 | 25 | 51.60 | 2.0789 | 8.8 |
| ene | 16 | 2458864.75 | 16 | 27 | 57.11 | -21 | 32 | 56.44 | 2.0713 | 8.8 |
| ene | 17 | 2458865.75 | 16 | 30 | 49.60 | -21 | 39 | 50.66 | 2.0636 | 8.8 |
| ene | 18 | 2458866.75 | 16 | 33 | 42.46 | -21 | 46 | 34.18 | 2.0560 | 8.8 |
| ene | 19 | 2458867.75 | 16 | 36 | 35.67 | -21 | 53 | 6.90 | 2.0483 | 8.7 |
| ene | 20 | 2458868.75 | 16 | 39 | 29.23 | -21 | 59 | 28.74 | 2.0405 | 8.7 |
| ene | 21 | 2458869.75 | 16 | 42 | 23.14 | -22 | 5 | 39.62 | 2.0328 | 8.7 |
| ene | 22 | 2458870.75 | 16 | 45 | 17.38 | -22 | 11 | 39.44 | 2.0250 | 8.7 |
| ene | 23 | 2458871.75 | 16 | 48 | 11.95 | -22 | 17 | 28.11 | 2.0172 | 8.7 |
| ene | 24 | 2458872.75 | 16 | 51 | 6.82 | -22 | 23 | 5.54 | 2.0094 | 8.6 |
| ene | 25 | 2458873.75 | 16 | 54 | 2.00 | -22 | 28 | 31.65 | 2.0016 | 8.6 |
| ene | 26 | 2458874.75 | 16 | 56 | 57.48 | -22 | 33 | 46.35 | 1.9937 | 8.6 |
| ene | 27 | 2458875.75 | 16 | 59 | 53.24 | -22 | 38 | 49.54 | 1.9858 | 8.6 |
| ene | 28 | 2458876.75 | 17 | 2 | 49.29 | -22 | 43 | 41.16 | 1.9779 | 8.6 |
| ene | 29 | 2458877.75 | 17 | 5 | 45.61 | -22 | 48 | 21.13 | 1.9700 | 8.6 |
| ene | 30 | 2458878.75 | 17 | 8 | 42.19 | -22 | 52 | 49.39 | 1.9620 | 8.5 |
| ene | 31 | 2458879.75 | 17 | 11 | 39.04 | -22 | 57 | 5.86 | 1.9541 | 8.5 |
| feb | 1 | 2458880.75 | 17 | 14 | 36.13 | -23 | 1 | 10.49 | 1.9461 | 8.5 |
| feb | 2 | 2458881.75 | 17 | 17 | 33.48 | -23 | 5 | 3.22 | 1.9381 | 8.5 |
| feb | 3 | 2458882.75 | 17 | 20 | 31.07 | -23 | 8 | 44.02 | 1.9301 | 8.5 |
| feb | 4 | 2458883.75 | 17 | 23 | 28.89 | -23 | 12 | 12.82 | 1.9221 | 8.5 |
| feb | 5 | 2458884.75 | 17 | 26 | 26.94 | -23 | 15 | 29.60 | 1.9141 | 8.5 |
| feb | 6 | 2458885.75 | 17 | 29 | 25.21 | -23 | 18 | 34.30 | 1.9060 | 8.4 |
| feb | 7 | 2458886.75 | 17 | 32 | 23.70 | -23 | 21 | 26.90 | 1.8980 | 8.4 |
| feb | 8 | 2458887.75 | 17 | 35 | 22.39 | -23 | 24 | 7.35 | 1.8899 | 8.4 |
| feb | 9 | 2458888.75 | 17 | 38 | 21.27 | -23 | 26 | 35.60 | 1.8818 | 8.4 |
| feb | 10 | 2458889.75 | 17 | 41 | 20.35 | -23 | 28 | 51.60 | 1.8738 | 8.4 |
| feb | 11 | 2458890.75 | 17 | 44 | 19.61 | -23 | 30 | 55.31 | 1.8657 | 8.4 |
| feb | 12 | 2458891.75 | 17 | 47 | 19.04 | -23 | 32 | 46.67 | 1.8576 | 8.3 |
| feb | 13 | 2458892.75 | 17 | 50 | 18.63 | -23 | 34 | 25.66 | 1.8494 | 8.3 |
| feb | 14 | 2458893.75 | 17 | 53 | 18.39 | -23 | 35 | 52.24 | 1.8413 | 8.3 |
| feb | 15 | 2458894.75 | 17 | 56 | 18.30 | -23 | 37 | 6.40 | 1.8332 | 8.3 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 17 | 59 | 18.34 | -23 | 38 | 8.11 | 1.8250 | 8.3 |
| feb | 17 | 2458896.75 | 18 | 2 | 18.51 | -23 | 38 | 57.36 | 1.8169 | 8.3 |
| feb | 18 | 2458897.75 | 18 | 5 | 18.79 | -23 | 39 | 34.14 | 1.8087 | 8.2 |
| feb | 19 | 2458898.75 | 18 | 8 | 19.17 | -23 | 39 | 58.42 | 1.8005 | 8.2 |
| feb | 20 | 2458899.75 | 18 | 11 | 19.63 | -23 | 40 | 10.21 | 1.7924 | 8.2 |
| feb | 21 | 2458900.75 | 18 | 14 | 20.16 | -23 | 40 | 9.47 | 1.7842 | 8.2 |
| feb | 22 | 2458901.75 | 18 | 17 | 20.74 | -23 | 39 | 56.20 | 1.7760 | 8.2 |
| feb | 23 | 2458902.75 | 18 | 20 | 21.37 | -23 | 39 | 30.39 | 1.7678 | 8.2 |
| feb | 24 | 2458903.75 | 18 | 23 | 22.02 | -23 | 38 | 52.04 | 1.7596 | 8.2 |
| feb | 25 | 2458904.75 | 18 | 26 | 22.70 | -23 | 38 | 1.14 | 1.7514 | 8.1 |
| feb | 26 | 2458905.75 | 18 | 29 | 23.39 | -23 | 36 | 57.70 | 1.7432 | 8.1 |
| feb | 27 | 2458906.75 | 18 | 32 | 24.09 | -23 | 35 | 41.74 | 1.7350 | 8.1 |
| feb | 28 | 2458907.75 | 18 | 35 | 24.77 | -23 | 34 | 13.26 | 1.7268 | 8.1 |
| feb | 29 | 2458908.75 | 18 | 38 | 25.44 | -23 | 32 | 32.28 | 1.7186 | 8.1 |
| mar | 1 | 2458909.75 | 18 | 41 | 26.08 | -23 | 30 | 38.84 | 1.7104 | 8.1 |
| mar | 2 | 2458910.75 | 18 | 44 | 26.69 | -23 | 28 | 32.97 | 1.7022 | 8.0 |
| mar | 3 | 2458911.75 | 18 | 47 | 27.25 | -23 | 26 | 14.70 | 1.6939 | 8.0 |
| mar | 4 | 2458912.75 | 18 | 50 | 27.76 | -23 | 23 | 44.06 | 1.6857 | 8.0 |
| mar | 5 | 2458913.75 | 18 | 53 | 28.21 | -23 | 21 | 1.10 | 1.6775 | 8.0 |
| mar | 6 | 2458914.75 | 18 | 56 | 28.59 | -23 | 18 | 5.87 | 1.6693 | 8.0 |
| mar | 7 | 2458915.75 | 18 | 59 | 28.90 | -23 | 14 | 58.39 | 1.6612 | 8.0 |
| mar | 8 | 2458916.75 | 19 | 2 | 29.11 | -23 | 11 | 38.70 | 1.6530 | 7.9 |
| mar | 9 | 2458917.75 | 19 | 5 | 29.24 | -23 | 8 | 6.83 | 1.6448 | 7.9 |
| mar | 10 | 2458918.75 | 19 | 8 | 29.27 | -23 | 4 | 22.82 | 1.6366 | 7.9 |
| mar | 11 | 2458919.75 | 19 | 11 | 29.19 | -23 | 0 | 26.69 | 1.6284 | 7.9 |
| mar | 12 | 2458920.75 | 19 | 14 | 29.00 | -22 | 56 | 18.49 | 1.6203 | 7.9 |
| mar | 13 | 2458921.75 | 19 | 17 | 28.69 | -22 | 51 | 58.28 | 1.6121 | 7.9 |
| mar | 14 | 2458922.75 | 19 | 20 | 28.26 | -22 | 47 | 26.13 | 1.6040 | 7.9 |
| mar | 15 | 2458923.75 | 19 | 23 | 27.68 | -22 | 42 | 42.12 | 1.5958 | 7.8 |
| mar | 16 | 2458924.75 | 19 | 26 | 26.96 | -22 | 37 | 46.30 | 1.5877 | 7.8 |
| mar | 17 | 2458925.75 | 19 | 29 | 26.07 | -22 | 32 | 38.77 | 1.5795 | 7.8 |
| mar | 18 | 2458926.75 | 19 | 32 | 25.00 | -22 | 27 | 19.59 | 1.5714 | 7.8 |
| mar | 19 | 2458927.75 | 19 | 35 | 23.74 | -22 | 21 | 48.84 | 1.5633 | 7.8 |
| mar | 20 | 2458928.75 | 19 | 38 | 22.28 | -22 | 16 | 6.60 | 1.5552 | 7.8 |
| mar | 21 | 2458929.75 | 19 | 41 | 20.61 | -22 | 10 | 12.94 | 1.5470 | 7.7 |
| mar | 22 | 2458930.75 | 19 | 44 | 18.71 | -22 | 4 | 7.94 | 1.5389 | 7.7 |
| mar | 23 | 2458931.75 | 19 | 47 | 16.58 | -21 | 57 | 51.69 | 1.5309 | 7.7 |
| mar | 24 | 2458932.75 | 19 | 50 | 14.21 | -21 | 51 | 24.27 | 1.5228 | 7.7 |
| mar | 25 | 2458933.75 | 19 | 53 | 11.59 | -21 | 44 | 45.78 | 1.5147 | 7.7 |
| mar | 26 | 2458934.75 | 19 | 56 | 8.71 | -21 | 37 | 56.30 | 1.5066 | 7.7 |
| mar | 27 | 2458935.75 | 19 | 59 | 5.57 | -21 | 30 | 55.94 | 1.4986 | 7.6 |
| mar | 28 | 2458936.75 | 20 | 2 | 2.16 | -21 | 23 | 44.81 | 1.4906 | 7.6 |
| mar | 29 | 2458937.75 | 20 | 4 | 58.47 | -21 | 16 | 23.01 | 1.4825 | 7.6 |
| mar | 30 | 2458938.75 | 20 | 7 | 54.51 | -21 | 8 | 50.64 | 1.4745 | 7.6 |
| mar | 31 | 2458939.75 | 20 | 10 | 50.25 | -21 | 1 | 7.83 | 1.4665 | 7.6 |
| abr | 1 | 2458940.75 | 20 | 13 | 45.70 | -20 | 53 | 14.69 | 1.4585 | 7.6 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | δ ° | " | dis UA | hp h | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|---------|-----|
| abr | 2 | 2458941.75 | 20 | 16 | 40.86 | -20 | 45 | 11.32 | 1.4506 | 7.5 |
| abr | 3 | 2458942.75 | 20 | 19 | 35.71 | -20 | 36 | 57.85 | 1.4426 | 7.5 |
| abr | 4 | 2458943.75 | 20 | 22 | 30.26 | -20 | 28 | 34.38 | 1.4347 | 7.5 |
| abr | 5 | 2458944.75 | 20 | 25 | 24.50 | -20 | 20 | 1.01 | 1.4268 | 7.5 |
| abr | 6 | 2458945.75 | 20 | 28 | 18.43 | -20 | 11 | 17.84 | 1.4189 | 7.5 |
| abr | 7 | 2458946.75 | 20 | 31 | 12.04 | -20 | 2 | 24.96 | 1.4110 | 7.5 |
| abr | 8 | 2458947.75 | 20 | 34 | 5.35 | -19 | 53 | 22.48 | 1.4031 | 7.4 |
| abr | 9 | 2458948.75 | 20 | 36 | 58.34 | -19 | 44 | 10.51 | 1.3953 | 7.4 |
| abr | 10 | 2458949.75 | 20 | 39 | 51.02 | -19 | 34 | 49.16 | 1.3874 | 7.4 |
| abr | 11 | 2458950.75 | 20 | 42 | 43.38 | -19 | 25 | 18.57 | 1.3796 | 7.4 |
| abr | 12 | 2458951.75 | 20 | 45 | 35.42 | -19 | 15 | 38.89 | 1.3718 | 7.4 |
| abr | 13 | 2458952.75 | 20 | 48 | 27.11 | -19 | 5 | 50.27 | 1.3640 | 7.3 |
| abr | 14 | 2458953.75 | 20 | 51 | 18.47 | -18 | 55 | 52.84 | 1.3563 | 7.3 |
| abr | 15 | 2458954.75 | 20 | 54 | 9.47 | -18 | 45 | 46.75 | 1.3485 | 7.3 |
| abr | 16 | 2458955.75 | 20 | 57 | 0.12 | -18 | 35 | 32.15 | 1.3408 | 7.3 |
| abr | 17 | 2458956.75 | 20 | 59 | 50.39 | -18 | 25 | 9.18 | 1.3331 | 7.3 |
| abr | 18 | 2458957.75 | 21 | 2 | 40.30 | -18 | 14 | 37.99 | 1.3254 | 7.3 |
| abr | 19 | 2458958.75 | 21 | 5 | 29.82 | -18 | 3 | 58.72 | 1.3177 | 7.2 |
| abr | 20 | 2458959.75 | 21 | 8 | 18.96 | -17 | 53 | 11.51 | 1.3100 | 7.2 |
| abr | 21 | 2458960.75 | 21 | 11 | 7.71 | -17 | 42 | 16.53 | 1.3024 | 7.2 |
| abr | 22 | 2458961.75 | 21 | 13 | 56.07 | -17 | 31 | 13.91 | 1.2948 | 7.2 |
| abr | 23 | 2458962.75 | 21 | 16 | 44.04 | -17 | 20 | 3.82 | 1.2871 | 7.2 |
| abr | 24 | 2458963.75 | 21 | 19 | 31.60 | -17 | 8 | 46.42 | 1.2796 | 7.1 |
| abr | 25 | 2458964.75 | 21 | 22 | 18.77 | -16 | 57 | 21.86 | 1.2720 | 7.1 |
| abr | 26 | 2458965.75 | 21 | 25 | 5.53 | -16 | 45 | 50.30 | 1.2644 | 7.1 |
| abr | 27 | 2458966.75 | 21 | 27 | 51.88 | -16 | 34 | 11.91 | 1.2569 | 7.1 |
| abr | 28 | 2458967.75 | 21 | 30 | 37.82 | -16 | 22 | 26.86 | 1.2494 | 7.1 |
| abr | 29 | 2458968.75 | 21 | 33 | 23.36 | -16 | 10 | 35.29 | 1.2419 | 7.0 |
| abr | 30 | 2458969.75 | 21 | 36 | 8.48 | -15 | 58 | 37.38 | 1.2345 | 7.0 |
| may | 1 | 2458970.75 | 21 | 38 | 53.19 | -15 | 46 | 33.26 | 1.2270 | 7.0 |
| may | 2 | 2458971.75 | 21 | 41 | 37.50 | -15 | 34 | 23.10 | 1.2196 | 7.0 |
| may | 3 | 2458972.75 | 21 | 44 | 21.39 | -15 | 22 | 7.03 | 1.2122 | 7.0 |
| may | 4 | 2458973.75 | 21 | 47 | 4.87 | -15 | 9 | 45.18 | 1.2049 | 6.9 |
| may | 5 | 2458974.75 | 21 | 49 | 47.95 | -14 | 57 | 17.69 | 1.1975 | 6.9 |
| may | 6 | 2458975.75 | 21 | 52 | 30.64 | -14 | 44 | 44.68 | 1.1902 | 6.9 |
| may | 7 | 2458976.75 | 21 | 55 | 12.93 | -14 | 32 | 6.30 | 1.1829 | 6.9 |
| may | 8 | 2458977.75 | 21 | 57 | 54.82 | -14 | 19 | 22.71 | 1.1756 | 6.9 |
| may | 9 | 2458978.75 | 22 | 0 | 36.32 | -14 | 6 | 34.07 | 1.1684 | 6.8 |
| may | 10 | 2458979.75 | 22 | 3 | 17.42 | -13 | 53 | 40.56 | 1.1611 | 6.8 |
| may | 11 | 2458980.75 | 22 | 5 | 58.11 | -13 | 40 | 42.38 | 1.1539 | 6.8 |
| may | 12 | 2458981.75 | 22 | 8 | 38.39 | -13 | 27 | 39.70 | 1.1467 | 6.8 |
| may | 13 | 2458982.75 | 22 | 11 | 18.25 | -13 | 14 | 32.71 | 1.1396 | 6.8 |
| may | 14 | 2458983.75 | 22 | 13 | 57.68 | -13 | 1 | 21.59 | 1.1324 | 6.7 |
| may | 15 | 2458984.75 | 22 | 16 | 36.69 | -12 | 48 | 6.52 | 1.1253 | 6.7 |
| may | 16 | 2458985.75 | 22 | 19 | 15.27 | -12 | 34 | 47.70 | 1.1182 | 6.7 |
| may | 17 | 2458986.75 | 22 | 21 | 53.40 | -12 | 21 | 25.30 | 1.1111 | 6.7 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | $^{\circ}$ | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|------------|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 22 | 24 | 31.09 | -12 | 7 | 59.51 | 1.1041 | 6.6 |
| may | 19 | 2458988.75 | 22 | 27 | 8.34 | -11 | 54 | 30.52 | 1.0970 | 6.6 |
| may | 20 | 2458989.75 | 22 | 29 | 45.14 | -11 | 40 | 58.51 | 1.0900 | 6.6 |
| may | 21 | 2458990.75 | 22 | 32 | 21.48 | -11 | 27 | 23.67 | 1.0830 | 6.6 |
| may | 22 | 2458991.75 | 22 | 34 | 57.37 | -11 | 13 | 46.20 | 1.0761 | 6.6 |
| may | 23 | 2458992.75 | 22 | 37 | 32.79 | -11 | 0 | 6.28 | 1.0691 | 6.5 |
| may | 24 | 2458993.75 | 22 | 40 | 7.76 | -10 | 46 | 24.11 | 1.0622 | 6.5 |
| may | 25 | 2458994.75 | 22 | 42 | 42.25 | -10 | 32 | 39.88 | 1.0553 | 6.5 |
| may | 26 | 2458995.75 | 22 | 45 | 16.28 | -10 | 18 | 53.78 | 1.0484 | 6.5 |
| may | 27 | 2458996.75 | 22 | 47 | 49.84 | -10 | 5 | 5.99 | 1.0416 | 6.4 |
| may | 28 | 2458997.75 | 22 | 50 | 22.92 | -9 | 51 | 16.69 | 1.0347 | 6.4 |
| may | 29 | 2458998.75 | 22 | 52 | 55.52 | -9 | 37 | 26.06 | 1.0279 | 6.4 |
| may | 30 | 2458999.75 | 22 | 55 | 27.65 | -9 | 23 | 34.24 | 1.0212 | 6.4 |
| may | 31 | 2459000.75 | 22 | 57 | 59.31 | -9 | 9 | 41.41 | 1.0144 | 6.4 |
| jun | 1 | 2459001.75 | 23 | 0 | 30.50 | -8 | 55 | 47.69 | 1.0077 | 6.3 |
| jun | 2 | 2459002.75 | 23 | 3 | 1.22 | -8 | 41 | 53.25 | 1.0010 | 6.3 |
| jun | 3 | 2459003.75 | 23 | 5 | 31.47 | -8 | 27 | 58.21 | 0.9943 | 6.3 |
| jun | 4 | 2459004.75 | 23 | 8 | 1.26 | -8 | 14 | 2.73 | 0.9876 | 6.3 |
| jun | 5 | 2459005.75 | 23 | 10 | 30.58 | -8 | 0 | 6.98 | 0.9810 | 6.2 |
| jun | 6 | 2459006.75 | 23 | 12 | 59.43 | -7 | 46 | 11.14 | 0.9744 | 6.2 |
| jun | 7 | 2459007.75 | 23 | 15 | 27.81 | -7 | 32 | 15.40 | 0.9678 | 6.2 |
| jun | 8 | 2459008.75 | 23 | 17 | 55.70 | -7 | 18 | 19.96 | 0.9613 | 6.2 |
| jun | 9 | 2459009.75 | 23 | 20 | 23.09 | -7 | 4 | 25.01 | 0.9547 | 6.1 |
| jun | 10 | 2459010.75 | 23 | 22 | 49.98 | -6 | 50 | 30.76 | 0.9482 | 6.1 |
| jun | 11 | 2459011.75 | 23 | 25 | 16.36 | -6 | 36 | 37.42 | 0.9417 | 6.1 |
| jun | 12 | 2459012.75 | 23 | 27 | 42.21 | -6 | 22 | 45.19 | 0.9352 | 6.1 |
| jun | 13 | 2459013.75 | 23 | 30 | 7.54 | -6 | 8 | 54.27 | 0.9288 | 6.0 |
| jun | 14 | 2459014.75 | 23 | 32 | 32.31 | -5 | 55 | 4.86 | 0.9224 | 6.0 |
| jun | 15 | 2459015.75 | 23 | 34 | 56.54 | -5 | 41 | 17.17 | 0.9160 | 6.0 |
| jun | 16 | 2459016.75 | 23 | 37 | 20.21 | -5 | 27 | 31.41 | 0.9096 | 6.0 |
| jun | 17 | 2459017.75 | 23 | 39 | 43.30 | -5 | 13 | 47.77 | 0.9032 | 5.9 |
| jun | 18 | 2459018.75 | 23 | 42 | 5.81 | -5 | 0 | 6.47 | 0.8969 | 5.9 |
| jun | 19 | 2459019.75 | 23 | 44 | 27.72 | -4 | 46 | 27.70 | 0.8905 | 5.9 |
| jun | 20 | 2459020.75 | 23 | 46 | 49.03 | -4 | 32 | 51.69 | 0.8842 | 5.9 |
| jun | 21 | 2459021.75 | 23 | 49 | 9.72 | -4 | 19 | 18.64 | 0.8780 | 5.8 |
| jun | 22 | 2459022.75 | 23 | 51 | 29.78 | -4 | 5 | 48.74 | 0.8717 | 5.8 |
| jun | 23 | 2459023.75 | 23 | 53 | 49.20 | -3 | 52 | 22.20 | 0.8655 | 5.8 |
| jun | 24 | 2459024.75 | 23 | 56 | 7.97 | -3 | 38 | 59.22 | 0.8593 | 5.7 |
| jun | 25 | 2459025.75 | 23 | 58 | 26.07 | -3 | 25 | 39.97 | 0.8531 | 5.7 |
| jun | 26 | 2459026.75 | 0 | 0 | 43.50 | -3 | 12 | 24.62 | 0.8469 | 5.7 |
| jun | 27 | 2459027.75 | 0 | 3 | 0.26 | -2 | 59 | 13.34 | 0.8408 | 5.7 |
| jun | 28 | 2459028.75 | 0 | 5 | 16.32 | -2 | 46 | 6.26 | 0.8347 | 5.6 |
| jun | 29 | 2459029.75 | 0 | 7 | 31.70 | -2 | 33 | 3.53 | 0.8286 | 5.6 |
| jun | 30 | 2459030.75 | 0 | 9 | 46.38 | -2 | 20 | 5.28 | 0.8225 | 5.6 |
| jul | 1 | 2459031.75 | 0 | 12 | 0.36 | -2 | 7 | 11.65 | 0.8165 | 5.5 |
| jul | 2 | 2459032.75 | 0 | 14 | 13.61 | -1 | 54 | 22.80 | 0.8105 | 5.5 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 0 | 16 | 26.15 | -1 | 41 | 38.87 | 0.8045 | 5.5 |
| jul | 4 | 2459034.75 | 0 | 18 | 37.94 | -1 | 29 | 0.04 | 0.7985 | 5.5 |
| jul | 5 | 2459035.75 | 0 | 20 | 48.97 | -1 | 16 | 26.48 | 0.7926 | 5.4 |
| jul | 6 | 2459036.75 | 0 | 22 | 59.22 | -1 | 3 | 58.41 | 0.7866 | 5.4 |
| jul | 7 | 2459037.75 | 0 | 25 | 8.67 | -0 | 51 | 36.00 | 0.7807 | 5.4 |
| jul | 8 | 2459038.75 | 0 | 27 | 17.30 | -0 | 39 | 19.46 | 0.7749 | 5.3 |
| jul | 9 | 2459039.75 | 0 | 29 | 25.08 | -0 | 27 | 9.00 | 0.7690 | 5.3 |
| jul | 10 | 2459040.75 | 0 | 31 | 31.99 | -0 | 15 | 4.81 | 0.7632 | 5.3 |
| jul | 11 | 2459041.75 | 0 | 33 | 38.02 | -0 | 3 | 7.11 | 0.7573 | 5.3 |
| jul | 12 | 2459042.75 | 0 | 35 | 43.12 | +0 | 8 | 43.91 | 0.7515 | 5.2 |
| jul | 13 | 2459043.75 | 0 | 37 | 47.29 | +0 | 20 | 28.05 | 0.7458 | 5.2 |
| jul | 14 | 2459044.75 | 0 | 39 | 50.48 | +0 | 32 | 5.09 | 0.7400 | 5.2 |
| jul | 15 | 2459045.75 | 0 | 41 | 52.68 | +0 | 43 | 34.83 | 0.7343 | 5.1 |
| jul | 16 | 2459046.75 | 0 | 43 | 53.85 | +0 | 54 | 57.08 | 0.7286 | 5.1 |
| jul | 17 | 2459047.75 | 0 | 45 | 53.96 | +1 | 6 | 11.61 | 0.7229 | 5.1 |
| jul | 18 | 2459048.75 | 0 | 47 | 52.99 | +1 | 17 | 18.24 | 0.7172 | 5.0 |
| jul | 19 | 2459049.75 | 0 | 49 | 50.91 | +1 | 28 | 16.75 | 0.7116 | 5.0 |
| jul | 20 | 2459050.75 | 0 | 51 | 47.67 | +1 | 39 | 6.95 | 0.7060 | 5.0 |
| jul | 21 | 2459051.75 | 0 | 53 | 43.26 | +1 | 49 | 48.64 | 0.7004 | 4.9 |
| jul | 22 | 2459052.75 | 0 | 55 | 37.64 | +2 | 0 | 21.64 | 0.6948 | 4.9 |
| jul | 23 | 2459053.75 | 0 | 57 | 30.77 | +2 | 10 | 45.79 | 0.6893 | 4.9 |
| jul | 24 | 2459054.75 | 0 | 59 | 22.64 | +2 | 21 | 0.94 | 0.6838 | 4.8 |
| jul | 25 | 2459055.75 | 1 | 1 | 13.22 | +2 | 31 | 6.96 | 0.6783 | 4.8 |
| jul | 26 | 2459056.75 | 1 | 3 | 2.48 | +2 | 41 | 3.73 | 0.6728 | 4.8 |
| jul | 27 | 2459057.75 | 1 | 4 | 50.40 | +2 | 50 | 51.16 | 0.6674 | 4.7 |
| jul | 28 | 2459058.75 | 1 | 6 | 36.94 | +3 | 0 | 29.12 | 0.6620 | 4.7 |
| jul | 29 | 2459059.75 | 1 | 8 | 22.09 | +3 | 9 | 57.51 | 0.6566 | 4.6 |
| jul | 30 | 2459060.75 | 1 | 10 | 5.81 | +3 | 19 | 16.20 | 0.6513 | 4.6 |
| jul | 31 | 2459061.75 | 1 | 11 | 48.07 | +3 | 28 | 25.08 | 0.6459 | 4.6 |
| ago | 1 | 2459062.75 | 1 | 13 | 28.82 | +3 | 37 | 23.99 | 0.6406 | 4.5 |
| ago | 2 | 2459063.75 | 1 | 15 | 8.03 | +3 | 46 | 12.78 | 0.6354 | 4.5 |
| ago | 3 | 2459064.75 | 1 | 16 | 45.66 | +3 | 54 | 51.28 | 0.6301 | 4.5 |
| ago | 4 | 2459065.75 | 1 | 18 | 21.66 | +4 | 3 | 19.33 | 0.6249 | 4.4 |
| ago | 5 | 2459066.75 | 1 | 19 | 55.98 | +4 | 11 | 36.74 | 0.6198 | 4.4 |
| ago | 6 | 2459067.75 | 1 | 21 | 28.59 | +4 | 19 | 43.35 | 0.6146 | 4.3 |
| ago | 7 | 2459068.75 | 1 | 22 | 59.42 | +4 | 27 | 38.96 | 0.6095 | 4.3 |
| ago | 8 | 2459069.75 | 1 | 24 | 28.44 | +4 | 35 | 23.40 | 0.6044 | 4.3 |
| ago | 9 | 2459070.75 | 1 | 25 | 55.58 | +4 | 42 | 56.49 | 0.5994 | 4.2 |
| ago | 10 | 2459071.75 | 1 | 27 | 20.80 | +4 | 50 | 18.04 | 0.5943 | 4.2 |
| ago | 11 | 2459072.75 | 1 | 28 | 44.04 | +4 | 57 | 27.88 | 0.5893 | 4.1 |
| ago | 12 | 2459073.75 | 1 | 30 | 5.25 | +5 | 4 | 25.83 | 0.5844 | 4.1 |
| ago | 13 | 2459074.75 | 1 | 31 | 24.37 | +5 | 11 | 11.69 | 0.5795 | 4.0 |
| ago | 14 | 2459075.75 | 1 | 32 | 41.34 | +5 | 17 | 45.31 | 0.5746 | 4.0 |
| ago | 15 | 2459076.75 | 1 | 33 | 56.10 | +5 | 24 | 6.49 | 0.5697 | 4.0 |
| ago | 16 | 2459077.75 | 1 | 35 | 8.60 | +5 | 30 | 15.07 | 0.5649 | 3.9 |
| ago | 17 | 2459078.75 | 1 | 36 | 18.78 | +5 | 36 | 10.88 | 0.5602 | 3.9 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|----|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 1 | 37 | 26.58 | +5 | 41 | 53.76 | 0.5554 | 3.8 |
| ago | 19 | 2459080.75 | 1 | 38 | 31.94 | +5 | 47 | 23.58 | 0.5508 | 3.8 |
| ago | 20 | 2459081.75 | 1 | 39 | 34.82 | +5 | 52 | 40.23 | 0.5461 | 3.7 |
| ago | 21 | 2459082.75 | 1 | 40 | 35.15 | +5 | 57 | 43.62 | 0.5415 | 3.7 |
| ago | 22 | 2459083.75 | 1 | 41 | 32.91 | +6 | 2 | 33.68 | 0.5370 | 3.6 |
| ago | 23 | 2459084.75 | 1 | 42 | 28.04 | +6 | 7 | 10.39 | 0.5325 | 3.6 |
| ago | 24 | 2459085.75 | 1 | 43 | 20.50 | +6 | 11 | 33.71 | 0.5281 | 3.5 |
| ago | 25 | 2459086.75 | 1 | 44 | 10.25 | +6 | 15 | 43.62 | 0.5237 | 3.5 |
| ago | 26 | 2459087.75 | 1 | 44 | 57.24 | +6 | 19 | 40.09 | 0.5193 | 3.4 |
| ago | 27 | 2459088.75 | 1 | 45 | 41.42 | +6 | 23 | 23.07 | 0.5151 | 3.4 |
| ago | 28 | 2459089.75 | 1 | 46 | 22.76 | +6 | 26 | 52.51 | 0.5108 | 3.3 |
| ago | 29 | 2459090.75 | 1 | 47 | 1.19 | +6 | 30 | 8.37 | 0.5067 | 3.3 |
| ago | 30 | 2459091.75 | 1 | 47 | 36.66 | +6 | 33 | 10.56 | 0.5026 | 3.2 |
| ago | 31 | 2459092.75 | 1 | 48 | 9.14 | +6 | 35 | 59.03 | 0.4985 | 3.1 |
| sep | 1 | 2459093.75 | 1 | 48 | 38.56 | +6 | 38 | 33.71 | 0.4946 | 3.1 |
| sep | 2 | 2459094.75 | 1 | 49 | 4.88 | +6 | 40 | 54.52 | 0.4907 | 3.0 |
| sep | 3 | 2459095.75 | 1 | 49 | 28.05 | +6 | 43 | 1.41 | 0.4868 | 3.0 |
| sep | 4 | 2459096.75 | 1 | 49 | 48.03 | +6 | 44 | 54.32 | 0.4830 | 2.9 |
| sep | 5 | 2459097.75 | 1 | 50 | 4.77 | +6 | 46 | 33.21 | 0.4793 | 2.8 |
| sep | 6 | 2459098.75 | 1 | 50 | 18.22 | +6 | 47 | 58.02 | 0.4757 | 2.8 |
| sep | 7 | 2459099.75 | 1 | 50 | 28.36 | +6 | 49 | 8.74 | 0.4721 | 2.7 |
| sep | 8 | 2459100.75 | 1 | 50 | 35.13 | +6 | 50 | 5.36 | 0.4687 | 2.7 |
| sep | 9 | 2459101.75 | 1 | 50 | 38.52 | +6 | 50 | 47.87 | 0.4653 | 2.6 |
| sep | 10 | 2459102.75 | 1 | 50 | 38.49 | +6 | 51 | 16.29 | 0.4620 | 2.5 |
| sep | 11 | 2459103.75 | 1 | 50 | 35.02 | +6 | 51 | 30.67 | 0.4587 | 2.5 |
| sep | 12 | 2459104.75 | 1 | 50 | 28.08 | +6 | 51 | 31.05 | 0.4556 | 2.4 |
| sep | 13 | 2459105.75 | 1 | 50 | 17.68 | +6 | 51 | 17.53 | 0.4526 | 2.3 |
| sep | 14 | 2459106.75 | 1 | 50 | 3.81 | +6 | 50 | 50.23 | 0.4496 | 2.3 |
| sep | 15 | 2459107.75 | 1 | 49 | 46.46 | +6 | 50 | 9.29 | 0.4468 | 2.2 |
| sep | 16 | 2459108.75 | 1 | 49 | 25.66 | +6 | 49 | 14.93 | 0.4440 | 2.1 |
| sep | 17 | 2459109.75 | 1 | 49 | 1.44 | +6 | 48 | 7.40 | 0.4414 | 2.0 |
| sep | 18 | 2459110.75 | 1 | 48 | 33.83 | +6 | 46 | 47.02 | 0.4388 | 2.0 |
| sep | 19 | 2459111.75 | 1 | 48 | 2.88 | +6 | 45 | 14.17 | 0.4364 | 1.9 |
| sep | 20 | 2459112.75 | 1 | 47 | 28.67 | +6 | 43 | 29.28 | 0.4341 | 1.8 |
| sep | 21 | 2459113.75 | 1 | 46 | 51.25 | +6 | 41 | 32.81 | 0.4319 | 1.7 |
| sep | 22 | 2459114.75 | 1 | 46 | 10.71 | +6 | 39 | 25.23 | 0.4298 | 1.7 |
| sep | 23 | 2459115.75 | 1 | 45 | 27.13 | +6 | 37 | 7.04 | 0.4279 | 1.6 |
| sep | 24 | 2459116.75 | 1 | 44 | 40.60 | +6 | 34 | 38.76 | 0.4261 | 1.5 |
| sep | 25 | 2459117.75 | 1 | 43 | 51.20 | +6 | 32 | 0.89 | 0.4244 | 1.4 |
| sep | 26 | 2459118.75 | 1 | 42 | 59.04 | +6 | 29 | 13.98 | 0.4228 | 1.3 |
| sep | 27 | 2459119.75 | 1 | 42 | 4.24 | +6 | 26 | 18.57 | 0.4214 | 1.3 |
| sep | 28 | 2459120.75 | 1 | 41 | 6.89 | +6 | 23 | 15.25 | 0.4201 | 1.2 |
| sep | 29 | 2459121.75 | 1 | 40 | 7.12 | +6 | 20 | 4.61 | 0.4190 | 1.1 |
| sep | 30 | 2459122.75 | 1 | 39 | 5.07 | +6 | 16 | 47.28 | 0.4179 | 1.0 |
| oct | 1 | 2459123.75 | 1 | 38 | 0.87 | +6 | 13 | 23.89 | 0.4171 | 0.9 |
| oct | 2 | 2459124.75 | 1 | 36 | 54.65 | +6 | 9 | 55.13 | 0.4163 | 0.9 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|----|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 1 | 35 | 46.58 | +6 | 6 | 21.70 | 0.4158 | 0.8 |
| oct | 4 | 2459126.75 | 1 | 34 | 36.80 | +6 | 2 | 44.30 | 0.4153 | 0.7 |
| oct | 5 | 2459127.75 | 1 | 33 | 25.48 | +5 | 59 | 3.68 | 0.4150 | 0.6 |
| oct | 6 | 2459128.75 | 1 | 32 | 12.79 | +5 | 55 | 20.62 | 0.4149 | 0.5 |
| oct | 7 | 2459129.75 | 1 | 30 | 58.90 | +5 | 51 | 35.88 | 0.4149 | 0.4 |
| oct | 8 | 2459130.75 | 1 | 29 | 43.99 | +5 | 47 | 50.28 | 0.4151 | 0.3 |
| oct | 9 | 2459131.75 | 1 | 28 | 28.24 | +5 | 44 | 4.63 | 0.4155 | 0.3 |
| oct | 10 | 2459132.75 | 1 | 27 | 11.85 | +5 | 40 | 19.77 | 0.4160 | 0.2 |
| oct | 11 | 2459133.75 | 1 | 25 | 55.00 | +5 | 36 | 36.53 | 0.4166 | 0.1 |
| oct | 12 | 2459134.75 | 1 | 24 | 37.88 | +5 | 32 | 55.80 | 0.4174 | 24.0 |
| oct | 13 | 2459135.75 | 1 | 23 | 20.70 | +5 | 29 | 18.43 | 0.4184 | 23.9 |
| oct | 14 | 2459136.75 | 1 | 22 | 3.67 | +5 | 25 | 45.33 | 0.4196 | 23.8 |
| oct | 15 | 2459137.75 | 1 | 20 | 46.97 | +5 | 22 | 17.41 | 0.4209 | 23.7 |
| oct | 16 | 2459138.75 | 1 | 19 | 30.83 | +5 | 18 | 55.60 | 0.4224 | 23.6 |
| oct | 17 | 2459139.75 | 1 | 18 | 15.45 | +5 | 15 | 40.83 | 0.4240 | 23.6 |
| oct | 18 | 2459140.75 | 1 | 17 | 1.03 | +5 | 12 | 34.01 | 0.4258 | 23.5 |
| oct | 19 | 2459141.75 | 1 | 15 | 47.76 | +5 | 9 | 36.02 | 0.4278 | 23.4 |
| oct | 20 | 2459142.75 | 1 | 14 | 35.83 | +5 | 6 | 47.68 | 0.4299 | 23.3 |
| oct | 21 | 2459143.75 | 1 | 13 | 25.41 | +5 | 4 | 9.74 | 0.4322 | 23.2 |
| oct | 22 | 2459144.75 | 1 | 12 | 16.66 | +5 | 1 | 42.89 | 0.4347 | 23.1 |
| oct | 23 | 2459145.75 | 1 | 11 | 9.74 | +4 | 59 | 27.76 | 0.4373 | 23.0 |
| oct | 24 | 2459146.75 | 1 | 10 | 4.79 | +4 | 57 | 24.93 | 0.4401 | 23.0 |
| oct | 25 | 2459147.75 | 1 | 9 | 1.93 | +4 | 55 | 34.90 | 0.4430 | 22.9 |
| oct | 26 | 2459148.75 | 1 | 8 | 1.29 | +4 | 53 | 58.14 | 0.4461 | 22.8 |
| oct | 27 | 2459149.75 | 1 | 7 | 2.98 | +4 | 52 | 35.08 | 0.4493 | 22.7 |
| oct | 28 | 2459150.75 | 1 | 6 | 7.10 | +4 | 51 | 26.08 | 0.4527 | 22.6 |
| oct | 29 | 2459151.75 | 1 | 5 | 13.75 | +4 | 50 | 31.47 | 0.4562 | 22.6 |
| oct | 30 | 2459152.75 | 1 | 4 | 23.01 | +4 | 49 | 51.53 | 0.4599 | 22.5 |
| oct | 31 | 2459153.75 | 1 | 3 | 34.95 | +4 | 49 | 26.51 | 0.4638 | 22.4 |
| nov | 1 | 2459154.75 | 1 | 2 | 49.65 | +4 | 49 | 16.61 | 0.4677 | 22.3 |
| nov | 2 | 2459155.75 | 1 | 2 | 7.16 | +4 | 49 | 21.98 | 0.4719 | 22.2 |
| nov | 3 | 2459156.75 | 1 | 1 | 27.54 | +4 | 49 | 42.77 | 0.4761 | 22.2 |
| nov | 4 | 2459157.75 | 1 | 0 | 50.83 | +4 | 50 | 19.07 | 0.4805 | 22.1 |
| nov | 5 | 2459158.75 | 1 | 0 | 17.07 | +4 | 51 | 10.93 | 0.4850 | 22.0 |
| nov | 6 | 2459159.75 | 0 | 59 | 46.29 | +4 | 52 | 18.40 | 0.4897 | 21.9 |
| nov | 7 | 2459160.75 | 0 | 59 | 18.52 | +4 | 53 | 41.49 | 0.4945 | 21.9 |
| nov | 8 | 2459161.75 | 0 | 58 | 53.77 | +4 | 55 | 20.21 | 0.4994 | 21.8 |
| nov | 9 | 2459162.75 | 0 | 58 | 32.08 | +4 | 57 | 14.52 | 0.5045 | 21.7 |
| nov | 10 | 2459163.75 | 0 | 58 | 13.44 | +4 | 59 | 24.39 | 0.5097 | 21.6 |
| nov | 11 | 2459164.75 | 0 | 57 | 57.87 | +5 | 1 | 49.80 | 0.5150 | 21.6 |
| nov | 12 | 2459165.75 | 0 | 57 | 45.38 | +5 | 4 | 30.69 | 0.5204 | 21.5 |
| nov | 13 | 2459166.75 | 0 | 57 | 35.97 | +5 | 7 | 27.03 | 0.5259 | 21.4 |
| nov | 14 | 2459167.75 | 0 | 57 | 29.64 | +5 | 10 | 38.75 | 0.5316 | 21.4 |
| nov | 15 | 2459168.75 | 0 | 57 | 26.40 | +5 | 14 | 5.79 | 0.5374 | 21.3 |
| nov | 16 | 2459169.75 | 0 | 57 | 26.22 | +5 | 17 | 48.02 | 0.5433 | 21.2 |
| nov | 17 | 2459170.75 | 0 | 57 | 29.09 | +5 | 21 | 45.31 | 0.5493 | 21.2 |

Marte, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ - | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|---------|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 0 | 57 | 34.98 | +5 | 25 | 57.46 | 0.5554 | 21.1 |
| nov | 19 | 2459172.75 | 0 | 57 | 43.85 | +5 | 30 | 24.24 | 0.5616 | 21.0 |
| nov | 20 | 2459173.75 | 0 | 57 | 55.68 | +5 | 35 | 5.39 | 0.5679 | 21.0 |
| nov | 21 | 2459174.75 | 0 | 58 | 10.41 | +5 | 40 | 0.64 | 0.5743 | 20.9 |
| nov | 22 | 2459175.75 | 0 | 58 | 28.01 | +5 | 45 | 9.70 | 0.5808 | 20.9 |
| nov | 23 | 2459176.75 | 0 | 58 | 48.43 | +5 | 50 | 32.27 | 0.5874 | 20.8 |
| nov | 24 | 2459177.75 | 0 | 59 | 11.62 | +5 | 56 | 8.04 | 0.5941 | 20.7 |
| nov | 25 | 2459178.75 | 0 | 59 | 37.53 | +6 | 1 | 56.70 | 0.6009 | 20.7 |
| nov | 26 | 2459179.75 | 1 | 0 | 6.12 | +6 | 7 | 57.93 | 0.6078 | 20.6 |
| nov | 27 | 2459180.75 | 1 | 0 | 37.34 | +6 | 14 | 11.40 | 0.6148 | 20.6 |
| nov | 28 | 2459181.75 | 1 | 1 | 11.13 | +6 | 20 | 36.81 | 0.6218 | 20.5 |
| nov | 29 | 2459182.75 | 1 | 1 | 47.45 | +6 | 27 | 13.81 | 0.6289 | 20.5 |
| nov | 30 | 2459183.75 | 1 | 2 | 26.24 | +6 | 34 | 2.09 | 0.6361 | 20.4 |
| dic | 1 | 2459184.75 | 1 | 3 | 7.45 | +6 | 41 | 1.33 | 0.6434 | 20.3 |
| dic | 2 | 2459185.75 | 1 | 3 | 51.05 | +6 | 48 | 11.20 | 0.6508 | 20.3 |
| dic | 3 | 2459186.75 | 1 | 4 | 36.96 | +6 | 55 | 31.38 | 0.6582 | 20.2 |
| dic | 4 | 2459187.75 | 1 | 5 | 25.16 | +7 | 3 | 1.58 | 0.6658 | 20.2 |
| dic | 5 | 2459188.75 | 1 | 6 | 15.59 | +7 | 10 | 41.47 | 0.6733 | 20.1 |
| dic | 6 | 2459189.75 | 1 | 7 | 8.21 | +7 | 18 | 30.78 | 0.6810 | 20.1 |
| dic | 7 | 2459190.75 | 1 | 8 | 2.98 | +7 | 26 | 29.22 | 0.6887 | 20.0 |
| dic | 8 | 2459191.75 | 1 | 8 | 59.85 | +7 | 34 | 36.54 | 0.6966 | 20.0 |
| dic | 9 | 2459192.75 | 1 | 9 | 58.79 | +7 | 42 | 52.47 | 0.7044 | 19.9 |
| dic | 10 | 2459193.75 | 1 | 10 | 59.77 | +7 | 51 | 16.80 | 0.7124 | 19.9 |
| dic | 11 | 2459194.75 | 1 | 12 | 2.75 | +7 | 59 | 49.29 | 0.7204 | 19.8 |
| dic | 12 | 2459195.75 | 1 | 13 | 7.70 | +8 | 8 | 29.74 | 0.7284 | 19.8 |
| dic | 13 | 2459196.75 | 1 | 14 | 14.59 | +8 | 17 | 17.93 | 0.7366 | 19.7 |
| dic | 14 | 2459197.75 | 1 | 15 | 23.37 | +8 | 26 | 13.63 | 0.7448 | 19.7 |
| dic | 15 | 2459198.75 | 1 | 16 | 34.02 | +8 | 35 | 16.61 | 0.7530 | 19.7 |
| dic | 16 | 2459199.75 | 1 | 17 | 46.48 | +8 | 44 | 26.59 | 0.7613 | 19.6 |
| dic | 17 | 2459200.75 | 1 | 19 | 0.73 | +8 | 53 | 43.33 | 0.7697 | 19.6 |
| dic | 18 | 2459201.75 | 1 | 20 | 16.72 | +9 | 3 | 6.53 | 0.7781 | 19.5 |
| dic | 19 | 2459202.75 | 1 | 21 | 34.41 | +9 | 12 | 35.92 | 0.7866 | 19.5 |
| dic | 20 | 2459203.75 | 1 | 22 | 53.76 | +9 | 22 | 11.22 | 0.7951 | 19.4 |
| dic | 21 | 2459204.75 | 1 | 24 | 14.73 | +9 | 31 | 52.15 | 0.8037 | 19.4 |
| dic | 22 | 2459205.75 | 1 | 25 | 37.29 | +9 | 41 | 38.44 | 0.8123 | 19.3 |
| dic | 23 | 2459206.75 | 1 | 27 | 1.39 | +9 | 51 | 29.82 | 0.8209 | 19.3 |
| dic | 24 | 2459207.75 | 1 | 28 | 27.01 | +10 | 1 | 26.01 | 0.8297 | 19.3 |
| dic | 25 | 2459208.75 | 1 | 29 | 54.11 | +10 | 11 | 26.76 | 0.8384 | 19.2 |
| dic | 26 | 2459209.75 | 1 | 31 | 22.64 | +10 | 21 | 31.79 | 0.8472 | 19.2 |
| dic | 27 | 2459210.75 | 1 | 32 | 52.59 | +10 | 31 | 40.86 | 0.8560 | 19.1 |
| dic | 28 | 2459211.75 | 1 | 34 | 23.92 | +10 | 41 | 53.70 | 0.8649 | 19.1 |
| dic | 29 | 2459212.75 | 1 | 35 | 56.59 | +10 | 52 | 10.06 | 0.8738 | 19.1 |
| dic | 30 | 2459213.75 | 1 | 37 | 30.58 | +11 | 2 | 29.70 | 0.8828 | 19.0 |
| dic | 31 | 2459214.75 | 1 | 39 | 5.86 | +11 | 12 | 52.35 | 0.8918 | 19.0 |

Júpiter, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | δ ° | " | dis UA | hp h | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|---------|------|
| ene | 1 | 2458849.75 | 18 | 29 | 17.21 | -23 | 10 | 37.90 | 6.2086 | 11.8 |
| ene | 2 | 2458850.75 | 18 | 30 | 17.29 | -23 | 10 | 0.78 | 6.2071 | 11.7 |
| ene | 3 | 2458851.75 | 18 | 31 | 17.33 | -23 | 9 | 22.22 | 6.2054 | 11.7 |
| ene | 4 | 2458852.75 | 18 | 32 | 17.33 | -23 | 8 | 42.23 | 6.2035 | 11.7 |
| ene | 5 | 2458853.75 | 18 | 33 | 17.28 | -23 | 8 | 0.83 | 6.2013 | 11.6 |
| ene | 6 | 2458854.75 | 18 | 34 | 17.18 | -23 | 7 | 18.02 | 6.1990 | 11.6 |
| ene | 7 | 2458855.75 | 18 | 35 | 17.02 | -23 | 6 | 33.82 | 6.1964 | 11.5 |
| ene | 8 | 2458856.75 | 18 | 36 | 16.79 | -23 | 5 | 48.25 | 6.1936 | 11.5 |
| ene | 9 | 2458857.75 | 18 | 37 | 16.50 | -23 | 5 | 1.34 | 6.1907 | 11.4 |
| ene | 10 | 2458858.75 | 18 | 38 | 16.13 | -23 | 4 | 13.09 | 6.1875 | 11.4 |
| ene | 11 | 2458859.75 | 18 | 39 | 15.67 | -23 | 3 | 23.53 | 6.1841 | 11.3 |
| ene | 12 | 2458860.75 | 18 | 40 | 15.13 | -23 | 2 | 32.67 | 6.1804 | 11.3 |
| ene | 13 | 2458861.75 | 18 | 41 | 14.49 | -23 | 1 | 40.51 | 6.1766 | 11.2 |
| ene | 14 | 2458862.75 | 18 | 42 | 13.74 | -23 | 0 | 47.05 | 6.1726 | 11.2 |
| ene | 15 | 2458863.75 | 18 | 43 | 12.88 | -22 | 59 | 52.30 | 6.1683 | 11.1 |
| ene | 16 | 2458864.75 | 18 | 44 | 11.91 | -22 | 58 | 56.27 | 6.1639 | 11.1 |
| ene | 17 | 2458865.75 | 18 | 45 | 10.83 | -22 | 57 | 58.95 | 6.1592 | 11.0 |
| ene | 18 | 2458866.75 | 18 | 46 | 9.63 | -22 | 57 | 0.38 | 6.1543 | 11.0 |
| ene | 19 | 2458867.75 | 18 | 47 | 8.29 | -22 | 56 | 0.57 | 6.1492 | 10.9 |
| ene | 20 | 2458868.75 | 18 | 48 | 6.83 | -22 | 54 | 59.56 | 6.1439 | 10.9 |
| ene | 21 | 2458869.75 | 18 | 49 | 5.22 | -22 | 53 | 57.36 | 6.1384 | 10.8 |
| ene | 22 | 2458870.75 | 18 | 50 | 3.47 | -22 | 52 | 54.01 | 6.1327 | 10.8 |
| ene | 23 | 2458871.75 | 18 | 51 | 1.56 | -22 | 51 | 49.53 | 6.1268 | 10.7 |
| ene | 24 | 2458872.75 | 18 | 51 | 59.48 | -22 | 50 | 43.94 | 6.1207 | 10.7 |
| ene | 25 | 2458873.75 | 18 | 52 | 57.23 | -22 | 49 | 37.26 | 6.1144 | 10.6 |
| ene | 26 | 2458874.75 | 18 | 53 | 54.80 | -22 | 48 | 29.49 | 6.1079 | 10.6 |
| ene | 27 | 2458875.75 | 18 | 54 | 52.18 | -22 | 47 | 20.66 | 6.1011 | 10.5 |
| ene | 28 | 2458876.75 | 18 | 55 | 49.37 | -22 | 46 | 10.78 | 6.0942 | 10.5 |
| ene | 29 | 2458877.75 | 18 | 56 | 46.35 | -22 | 44 | 59.86 | 6.0871 | 10.4 |
| ene | 30 | 2458878.75 | 18 | 57 | 43.13 | -22 | 43 | 47.93 | 6.0798 | 10.4 |
| ene | 31 | 2458879.75 | 18 | 58 | 39.69 | -22 | 42 | 35.01 | 6.0723 | 10.3 |
| feb | 1 | 2458880.75 | 18 | 59 | 36.04 | -22 | 41 | 21.12 | 6.0646 | 10.3 |
| feb | 2 | 2458881.75 | 19 | 0 | 32.17 | -22 | 40 | 6.29 | 6.0567 | 10.2 |
| feb | 3 | 2458882.75 | 19 | 1 | 28.07 | -22 | 38 | 50.54 | 6.0486 | 10.2 |
| feb | 4 | 2458883.75 | 19 | 2 | 23.73 | -22 | 37 | 33.92 | 6.0403 | 10.1 |
| feb | 5 | 2458884.75 | 19 | 3 | 19.16 | -22 | 36 | 16.44 | 6.0318 | 10.1 |
| feb | 6 | 2458885.75 | 19 | 4 | 14.34 | -22 | 34 | 58.16 | 6.0232 | 10.0 |
| feb | 7 | 2458886.75 | 19 | 5 | 9.27 | -22 | 33 | 39.09 | 6.0143 | 10.0 |
| feb | 8 | 2458887.75 | 19 | 6 | 3.94 | -22 | 32 | 19.28 | 6.0053 | 9.9 |
| feb | 9 | 2458888.75 | 19 | 6 | 58.35 | -22 | 30 | 58.74 | 5.9961 | 9.9 |
| feb | 10 | 2458889.75 | 19 | 7 | 52.48 | -22 | 29 | 37.50 | 5.9867 | 9.8 |
| feb | 11 | 2458890.75 | 19 | 8 | 46.33 | -22 | 28 | 15.56 | 5.9772 | 9.8 |
| feb | 12 | 2458891.75 | 19 | 9 | 39.90 | -22 | 26 | 52.94 | 5.9674 | 9.7 |
| feb | 13 | 2458892.75 | 19 | 10 | 33.18 | -22 | 25 | 29.67 | 5.9575 | 9.7 |
| feb | 14 | 2458893.75 | 19 | 11 | 26.17 | -22 | 24 | 5.76 | 5.9475 | 9.6 |
| feb | 15 | 2458894.75 | 19 | 12 | 18.87 | -22 | 22 | 41.27 | 5.9372 | 9.6 |

Júpiter, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 19 | 13 | 11.26 | -22 | 21 | 16.22 | 5.9268 | 9.5 |
| feb | 17 | 2458896.75 | 19 | 14 | 3.34 | -22 | 19 | 50.67 | 5.9162 | 9.5 |
| feb | 18 | 2458897.75 | 19 | 14 | 55.11 | -22 | 18 | 24.65 | 5.9054 | 9.4 |
| feb | 19 | 2458898.75 | 19 | 15 | 46.55 | -22 | 16 | 58.20 | 5.8945 | 9.4 |
| feb | 20 | 2458899.75 | 19 | 16 | 37.66 | -22 | 15 | 31.36 | 5.8834 | 9.3 |
| feb | 21 | 2458900.75 | 19 | 17 | 28.42 | -22 | 14 | 4.15 | 5.8721 | 9.2 |
| feb | 22 | 2458901.75 | 19 | 18 | 18.83 | -22 | 12 | 36.61 | 5.8607 | 9.2 |
| feb | 23 | 2458902.75 | 19 | 19 | 8.88 | -22 | 11 | 8.76 | 5.8491 | 9.1 |
| feb | 24 | 2458903.75 | 19 | 19 | 58.57 | -22 | 9 | 40.63 | 5.8374 | 9.1 |
| feb | 25 | 2458904.75 | 19 | 20 | 47.89 | -22 | 8 | 12.26 | 5.8255 | 9.0 |
| feb | 26 | 2458905.75 | 19 | 21 | 36.82 | -22 | 6 | 43.67 | 5.8135 | 9.0 |
| feb | 27 | 2458906.75 | 19 | 22 | 25.38 | -22 | 5 | 14.89 | 5.8013 | 8.9 |
| feb | 28 | 2458907.75 | 19 | 23 | 13.54 | -22 | 3 | 45.96 | 5.7890 | 8.9 |
| feb | 29 | 2458908.75 | 19 | 24 | 1.31 | -22 | 2 | 16.92 | 5.7765 | 8.8 |
| mar | 1 | 2458909.75 | 19 | 24 | 48.68 | -22 | 0 | 47.81 | 5.7639 | 8.8 |
| mar | 2 | 2458910.75 | 19 | 25 | 35.65 | -21 | 59 | 18.66 | 5.7511 | 8.7 |
| mar | 3 | 2458911.75 | 19 | 26 | 22.20 | -21 | 57 | 49.52 | 5.7382 | 8.7 |
| mar | 4 | 2458912.75 | 19 | 27 | 8.34 | -21 | 56 | 20.45 | 5.7252 | 8.6 |
| mar | 5 | 2458913.75 | 19 | 27 | 54.05 | -21 | 54 | 51.47 | 5.7121 | 8.6 |
| mar | 6 | 2458914.75 | 19 | 28 | 39.32 | -21 | 53 | 22.63 | 5.6988 | 8.5 |
| mar | 7 | 2458915.75 | 19 | 29 | 24.16 | -21 | 51 | 53.98 | 5.6854 | 8.5 |
| mar | 8 | 2458916.75 | 19 | 30 | 8.55 | -21 | 50 | 25.54 | 5.6719 | 8.4 |
| mar | 9 | 2458917.75 | 19 | 30 | 52.49 | -21 | 48 | 57.34 | 5.6582 | 8.4 |
| mar | 10 | 2458918.75 | 19 | 31 | 35.97 | -21 | 47 | 29.39 | 5.6445 | 8.3 |
| mar | 11 | 2458919.75 | 19 | 32 | 18.99 | -21 | 46 | 1.74 | 5.6306 | 8.2 |
| mar | 12 | 2458920.75 | 19 | 33 | 1.54 | -21 | 44 | 34.40 | 5.6166 | 8.2 |
| mar | 13 | 2458921.75 | 19 | 33 | 43.63 | -21 | 43 | 7.41 | 5.6025 | 8.1 |
| mar | 14 | 2458922.75 | 19 | 34 | 25.24 | -21 | 41 | 40.84 | 5.5883 | 8.1 |
| mar | 15 | 2458923.75 | 19 | 35 | 6.36 | -21 | 40 | 14.72 | 5.5739 | 8.0 |
| mar | 16 | 2458924.75 | 19 | 35 | 47.00 | -21 | 38 | 49.12 | 5.5595 | 8.0 |
| mar | 17 | 2458925.75 | 19 | 36 | 27.13 | -21 | 37 | 24.08 | 5.5450 | 7.9 |
| mar | 18 | 2458926.75 | 19 | 37 | 6.76 | -21 | 35 | 59.63 | 5.5304 | 7.9 |
| mar | 19 | 2458927.75 | 19 | 37 | 45.86 | -21 | 34 | 35.83 | 5.5156 | 7.8 |
| mar | 20 | 2458928.75 | 19 | 38 | 24.44 | -21 | 33 | 12.71 | 5.5008 | 7.8 |
| mar | 21 | 2458929.75 | 19 | 39 | 2.49 | -21 | 31 | 50.30 | 5.4859 | 7.7 |
| mar | 22 | 2458930.75 | 19 | 39 | 39.99 | -21 | 30 | 28.64 | 5.4709 | 7.6 |
| mar | 23 | 2458931.75 | 19 | 40 | 16.95 | -21 | 29 | 7.76 | 5.4559 | 7.6 |
| mar | 24 | 2458932.75 | 19 | 40 | 53.35 | -21 | 27 | 47.70 | 5.4407 | 7.5 |
| mar | 25 | 2458933.75 | 19 | 41 | 29.20 | -21 | 26 | 28.50 | 5.4255 | 7.5 |
| mar | 26 | 2458934.75 | 19 | 42 | 4.48 | -21 | 25 | 10.19 | 5.4102 | 7.4 |
| mar | 27 | 2458935.75 | 19 | 42 | 39.18 | -21 | 23 | 52.82 | 5.3948 | 7.4 |
| mar | 28 | 2458936.75 | 19 | 43 | 13.31 | -21 | 22 | 36.43 | 5.3794 | 7.3 |
| mar | 29 | 2458937.75 | 19 | 43 | 46.86 | -21 | 21 | 21.06 | 5.3639 | 7.3 |
| mar | 30 | 2458938.75 | 19 | 44 | 19.82 | -21 | 20 | 6.75 | 5.3483 | 7.2 |
| mar | 31 | 2458939.75 | 19 | 44 | 52.18 | -21 | 18 | 53.56 | 5.3327 | 7.1 |
| abr | 1 | 2458940.75 | 19 | 45 | 23.94 | -21 | 17 | 41.54 | 5.3171 | 7.1 |

Júpiter, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 19 | 45 | 55.09 | -21 | 16 | 30.71 | 5.3014 | 7.0 |
| abr | 3 | 2458942.75 | 19 | 46 | 25.63 | -21 | 15 | 21.13 | 5.2856 | 7.0 |
| abr | 4 | 2458943.75 | 19 | 46 | 55.55 | -21 | 14 | 12.84 | 5.2698 | 6.9 |
| abr | 5 | 2458944.75 | 19 | 47 | 24.83 | -21 | 13 | 5.85 | 5.2540 | 6.9 |
| abr | 6 | 2458945.75 | 19 | 47 | 53.49 | -21 | 12 | 0.20 | 5.2381 | 6.8 |
| abr | 7 | 2458946.75 | 19 | 48 | 21.50 | -21 | 10 | 55.90 | 5.2222 | 6.7 |
| abr | 8 | 2458947.75 | 19 | 48 | 48.88 | -21 | 9 | 52.98 | 5.2063 | 6.7 |
| abr | 9 | 2458948.75 | 19 | 49 | 15.61 | -21 | 8 | 51.48 | 5.1903 | 6.6 |
| abr | 10 | 2458949.75 | 19 | 49 | 41.69 | -21 | 7 | 51.42 | 5.1743 | 6.6 |
| abr | 11 | 2458950.75 | 19 | 50 | 7.12 | -21 | 6 | 52.88 | 5.1583 | 6.5 |
| abr | 12 | 2458951.75 | 19 | 50 | 31.88 | -21 | 5 | 55.89 | 5.1423 | 6.4 |
| abr | 13 | 2458952.75 | 19 | 50 | 55.98 | -21 | 5 | 0.49 | 5.1263 | 6.4 |
| abr | 14 | 2458953.75 | 19 | 51 | 19.39 | -21 | 4 | 6.75 | 5.1103 | 6.3 |
| abr | 15 | 2458954.75 | 19 | 51 | 42.12 | -21 | 3 | 14.68 | 5.0942 | 6.3 |
| abr | 16 | 2458955.75 | 19 | 52 | 4.15 | -21 | 2 | 24.32 | 5.0782 | 6.2 |
| abr | 17 | 2458956.75 | 19 | 52 | 25.48 | -21 | 1 | 35.70 | 5.0621 | 6.2 |
| abr | 18 | 2458957.75 | 19 | 52 | 46.09 | -21 | 0 | 48.84 | 5.0461 | 6.1 |
| abr | 19 | 2458958.75 | 19 | 53 | 6.00 | -21 | 0 | 3.78 | 5.0301 | 6.0 |
| abr | 20 | 2458959.75 | 19 | 53 | 25.19 | -20 | 59 | 20.54 | 5.0141 | 6.0 |
| abr | 21 | 2458960.75 | 19 | 53 | 43.65 | -20 | 58 | 39.14 | 4.9981 | 5.9 |
| abr | 22 | 2458961.75 | 19 | 54 | 1.38 | -20 | 57 | 59.62 | 4.9821 | 5.8 |
| abr | 23 | 2458962.75 | 19 | 54 | 18.38 | -20 | 57 | 22.01 | 4.9662 | 5.8 |
| abr | 24 | 2458963.75 | 19 | 54 | 34.64 | -20 | 56 | 46.32 | 4.9503 | 5.7 |
| abr | 25 | 2458964.75 | 19 | 54 | 50.16 | -20 | 56 | 12.60 | 4.9344 | 5.7 |
| abr | 26 | 2458965.75 | 19 | 55 | 4.94 | -20 | 55 | 40.87 | 4.9186 | 5.6 |
| abr | 27 | 2458966.75 | 19 | 55 | 18.96 | -20 | 55 | 11.18 | 4.9028 | 5.5 |
| abr | 28 | 2458967.75 | 19 | 55 | 32.24 | -20 | 54 | 43.54 | 4.8871 | 5.5 |
| abr | 29 | 2458968.75 | 19 | 55 | 44.75 | -20 | 54 | 17.98 | 4.8714 | 5.4 |
| abr | 30 | 2458969.75 | 19 | 55 | 56.50 | -20 | 53 | 54.54 | 4.8558 | 5.4 |
| may | 1 | 2458970.75 | 19 | 56 | 7.48 | -20 | 53 | 33.23 | 4.8402 | 5.3 |
| may | 2 | 2458971.75 | 19 | 56 | 17.69 | -20 | 53 | 14.06 | 4.8247 | 5.2 |
| may | 3 | 2458972.75 | 19 | 56 | 27.13 | -20 | 52 | 57.04 | 4.8093 | 5.2 |
| may | 4 | 2458973.75 | 19 | 56 | 35.79 | -20 | 52 | 42.17 | 4.7939 | 5.1 |
| may | 5 | 2458974.75 | 19 | 56 | 43.68 | -20 | 52 | 29.45 | 4.7786 | 5.0 |
| may | 6 | 2458975.75 | 19 | 56 | 50.80 | -20 | 52 | 18.89 | 4.7634 | 5.0 |
| may | 7 | 2458976.75 | 19 | 56 | 57.13 | -20 | 52 | 10.50 | 4.7483 | 4.9 |
| may | 8 | 2458977.75 | 19 | 57 | 2.69 | -20 | 52 | 4.30 | 4.7333 | 4.8 |
| may | 9 | 2458978.75 | 19 | 57 | 7.48 | -20 | 52 | 0.31 | 4.7184 | 4.8 |
| may | 10 | 2458979.75 | 19 | 57 | 11.47 | -20 | 51 | 58.56 | 4.7035 | 4.7 |
| may | 11 | 2458980.75 | 19 | 57 | 14.68 | -20 | 51 | 59.08 | 4.6888 | 4.7 |
| may | 12 | 2458981.75 | 19 | 57 | 17.09 | -20 | 52 | 1.86 | 4.6742 | 4.6 |
| may | 13 | 2458982.75 | 19 | 57 | 18.71 | -20 | 52 | 6.91 | 4.6597 | 4.5 |
| may | 14 | 2458983.75 | 19 | 57 | 19.53 | -20 | 52 | 14.23 | 4.6453 | 4.5 |
| may | 15 | 2458984.75 | 19 | 57 | 19.54 | -20 | 52 | 23.83 | 4.6310 | 4.4 |
| may | 16 | 2458985.75 | 19 | 57 | 18.76 | -20 | 52 | 35.68 | 4.6168 | 4.3 |
| may | 17 | 2458986.75 | 19 | 57 | 17.17 | -20 | 52 | 49.79 | 4.6028 | 4.3 |

Júpiter, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 19 | 57 | 14.78 | -20 | 53 | 6.14 | 4.5889 | 4.2 |
| may | 19 | 2458988.75 | 19 | 57 | 11.59 | -20 | 53 | 24.74 | 4.5751 | 4.1 |
| may | 20 | 2458989.75 | 19 | 57 | 7.60 | -20 | 53 | 45.56 | 4.5615 | 4.1 |
| may | 21 | 2458990.75 | 19 | 57 | 2.82 | -20 | 54 | 8.61 | 4.5480 | 4.0 |
| may | 22 | 2458991.75 | 19 | 56 | 57.25 | -20 | 54 | 33.87 | 4.5346 | 3.9 |
| may | 23 | 2458992.75 | 19 | 56 | 50.89 | -20 | 55 | 1.34 | 4.5215 | 3.9 |
| may | 24 | 2458993.75 | 19 | 56 | 43.74 | -20 | 55 | 31.02 | 4.5084 | 3.8 |
| may | 25 | 2458994.75 | 19 | 56 | 35.80 | -20 | 56 | 2.88 | 4.4956 | 3.7 |
| may | 26 | 2458995.75 | 19 | 56 | 27.09 | -20 | 56 | 36.92 | 4.4829 | 3.7 |
| may | 27 | 2458996.75 | 19 | 56 | 17.60 | -20 | 57 | 13.13 | 4.4704 | 3.6 |
| may | 28 | 2458997.75 | 19 | 56 | 7.34 | -20 | 57 | 51.47 | 4.4580 | 3.5 |
| may | 29 | 2458998.75 | 19 | 55 | 56.30 | -20 | 58 | 31.91 | 4.4458 | 3.5 |
| may | 30 | 2458999.75 | 19 | 55 | 44.51 | -20 | 59 | 14.43 | 4.4339 | 3.4 |
| may | 31 | 2459000.75 | 19 | 55 | 31.96 | -20 | 59 | 58.98 | 4.4221 | 3.3 |
| jun | 1 | 2459001.75 | 19 | 55 | 18.67 | -21 | 0 | 45.51 | 4.4105 | 3.2 |
| jun | 2 | 2459002.75 | 19 | 55 | 4.64 | -21 | 1 | 33.98 | 4.3991 | 3.2 |
| jun | 3 | 2459003.75 | 19 | 54 | 49.88 | -21 | 2 | 24.35 | 4.3878 | 3.1 |
| jun | 4 | 2459004.75 | 19 | 54 | 34.41 | -21 | 3 | 16.61 | 4.3768 | 3.0 |
| jun | 5 | 2459005.75 | 19 | 54 | 18.22 | -21 | 4 | 10.71 | 4.3660 | 3.0 |
| jun | 6 | 2459006.75 | 19 | 54 | 1.33 | -21 | 5 | 6.63 | 4.3554 | 2.9 |
| jun | 7 | 2459007.75 | 19 | 53 | 43.75 | -21 | 6 | 4.35 | 4.3451 | 2.8 |
| jun | 8 | 2459008.75 | 19 | 53 | 25.47 | -21 | 7 | 3.84 | 4.3349 | 2.8 |
| jun | 9 | 2459009.75 | 19 | 53 | 6.51 | -21 | 8 | 5.05 | 4.3250 | 2.7 |
| jun | 10 | 2459010.75 | 19 | 52 | 46.88 | -21 | 9 | 7.93 | 4.3152 | 2.6 |
| jun | 11 | 2459011.75 | 19 | 52 | 26.57 | -21 | 10 | 12.43 | 4.3058 | 2.5 |
| jun | 12 | 2459012.75 | 19 | 52 | 5.62 | -21 | 11 | 18.49 | 4.2965 | 2.5 |
| jun | 13 | 2459013.75 | 19 | 51 | 44.01 | -21 | 12 | 26.07 | 4.2875 | 2.4 |
| jun | 14 | 2459014.75 | 19 | 51 | 21.78 | -21 | 13 | 35.09 | 4.2787 | 2.3 |
| jun | 15 | 2459015.75 | 19 | 50 | 58.94 | -21 | 14 | 45.51 | 4.2701 | 2.3 |
| jun | 16 | 2459016.75 | 19 | 50 | 35.49 | -21 | 15 | 57.28 | 4.2618 | 2.2 |
| jun | 17 | 2459017.75 | 19 | 50 | 11.45 | -21 | 17 | 10.32 | 4.2538 | 2.1 |
| jun | 18 | 2459018.75 | 19 | 49 | 46.84 | -21 | 18 | 24.60 | 4.2460 | 2.0 |
| jun | 19 | 2459019.75 | 19 | 49 | 21.68 | -21 | 19 | 40.05 | 4.2384 | 2.0 |
| jun | 20 | 2459020.75 | 19 | 48 | 55.98 | -21 | 20 | 56.63 | 4.2311 | 1.9 |
| jun | 21 | 2459021.75 | 19 | 48 | 29.75 | -21 | 22 | 14.27 | 4.2241 | 1.8 |
| jun | 22 | 2459022.75 | 19 | 48 | 3.02 | -21 | 23 | 32.93 | 4.2174 | 1.7 |
| jun | 23 | 2459023.75 | 19 | 47 | 35.79 | -21 | 24 | 52.55 | 4.2109 | 1.7 |
| jun | 24 | 2459024.75 | 19 | 47 | 8.10 | -21 | 26 | 13.06 | 4.2046 | 1.6 |
| jun | 25 | 2459025.75 | 19 | 46 | 39.95 | -21 | 27 | 34.40 | 4.1987 | 1.5 |
| jun | 26 | 2459026.75 | 19 | 46 | 11.37 | -21 | 28 | 56.48 | 4.1930 | 1.4 |
| jun | 27 | 2459027.75 | 19 | 45 | 42.37 | -21 | 30 | 19.23 | 4.1876 | 1.4 |
| jun | 28 | 2459028.75 | 19 | 45 | 12.98 | -21 | 31 | 42.58 | 4.1825 | 1.3 |
| jun | 29 | 2459029.75 | 19 | 44 | 43.22 | -21 | 33 | 6.44 | 4.1777 | 1.2 |
| jun | 30 | 2459030.75 | 19 | 44 | 13.12 | -21 | 34 | 30.74 | 4.1731 | 1.2 |
| jul | 1 | 2459031.75 | 19 | 43 | 42.68 | -21 | 35 | 55.43 | 4.1688 | 1.1 |
| jul | 2 | 2459032.75 | 19 | 43 | 11.95 | -21 | 37 | 20.44 | 4.1648 | 1.0 |

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Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 19 | 42 | 40.93 | -21 | 38 | 45.73 | 4.1611 | 0.9 |
| jul | 4 | 2459034.75 | 19 | 42 | 9.64 | -21 | 40 | 11.24 | 4.1577 | 0.9 |
| jul | 5 | 2459035.75 | 19 | 41 | 38.11 | -21 | 41 | 36.92 | 4.1546 | 0.8 |
| jul | 6 | 2459036.75 | 19 | 41 | 6.35 | -21 | 43 | 2.70 | 4.1517 | 0.7 |
| jul | 7 | 2459037.75 | 19 | 40 | 34.38 | -21 | 44 | 28.53 | 4.1492 | 0.6 |
| jul | 8 | 2459038.75 | 19 | 40 | 2.23 | -21 | 45 | 54.32 | 4.1469 | 0.6 |
| jul | 9 | 2459039.75 | 19 | 39 | 29.90 | -21 | 47 | 20.02 | 4.1450 | 0.5 |
| jul | 10 | 2459040.75 | 19 | 38 | 57.44 | -21 | 48 | 45.55 | 4.1433 | 0.4 |
| jul | 11 | 2459041.75 | 19 | 38 | 24.86 | -21 | 50 | 10.84 | 4.1419 | 0.3 |
| jul | 12 | 2459042.75 | 19 | 37 | 52.18 | -21 | 51 | 35.83 | 4.1408 | 0.3 |
| jul | 13 | 2459043.75 | 19 | 37 | 19.43 | -21 | 53 | 0.47 | 4.1400 | 0.2 |
| jul | 14 | 2459044.75 | 19 | 36 | 46.63 | -21 | 54 | 24.68 | 4.1395 | 0.1 |
| jul | 15 | 2459045.75 | 19 | 36 | 13.81 | -21 | 55 | 48.42 | 4.1393 | 0.0 |
| jul | 16 | 2459046.75 | 19 | 35 | 41.00 | -21 | 57 | 11.63 | 4.1394 | 24.0 |
| jul | 17 | 2459047.75 | 19 | 35 | 8.21 | -21 | 58 | 34.27 | 4.1398 | 23.9 |
| jul | 18 | 2459048.75 | 19 | 34 | 35.47 | -21 | 59 | 56.28 | 4.1405 | 23.8 |
| jul | 19 | 2459049.75 | 19 | 34 | 2.81 | -22 | 1 | 17.62 | 4.1415 | 23.7 |
| jul | 20 | 2459050.75 | 19 | 33 | 30.24 | -22 | 2 | 38.25 | 4.1428 | 23.7 |
| jul | 21 | 2459051.75 | 19 | 32 | 57.80 | -22 | 3 | 58.12 | 4.1444 | 23.6 |
| jul | 22 | 2459052.75 | 19 | 32 | 25.50 | -22 | 5 | 17.18 | 4.1463 | 23.5 |
| jul | 23 | 2459053.75 | 19 | 31 | 53.37 | -22 | 6 | 35.36 | 4.1484 | 23.4 |
| jul | 24 | 2459054.75 | 19 | 31 | 21.44 | -22 | 7 | 52.61 | 4.1509 | 23.4 |
| jul | 25 | 2459055.75 | 19 | 30 | 49.72 | -22 | 9 | 8.87 | 4.1537 | 23.3 |
| jul | 26 | 2459056.75 | 19 | 30 | 18.25 | -22 | 10 | 24.09 | 4.1567 | 23.2 |
| jul | 27 | 2459057.75 | 19 | 29 | 47.05 | -22 | 11 | 38.23 | 4.1600 | 23.1 |
| jul | 28 | 2459058.75 | 19 | 29 | 16.14 | -22 | 12 | 51.24 | 4.1636 | 23.1 |
| jul | 29 | 2459059.75 | 19 | 28 | 45.55 | -22 | 14 | 3.11 | 4.1675 | 23.0 |
| jul | 30 | 2459060.75 | 19 | 28 | 15.29 | -22 | 15 | 13.81 | 4.1717 | 22.9 |
| jul | 31 | 2459061.75 | 19 | 27 | 45.39 | -22 | 16 | 23.32 | 4.1762 | 22.8 |
| ago | 1 | 2459062.75 | 19 | 27 | 15.86 | -22 | 17 | 31.62 | 4.1809 | 22.8 |
| ago | 2 | 2459063.75 | 19 | 26 | 46.73 | -22 | 18 | 38.67 | 4.1860 | 22.7 |
| ago | 3 | 2459064.75 | 19 | 26 | 18.00 | -22 | 19 | 44.46 | 4.1912 | 22.6 |
| ago | 4 | 2459065.75 | 19 | 25 | 49.70 | -22 | 20 | 48.94 | 4.1968 | 22.5 |
| ago | 5 | 2459066.75 | 19 | 25 | 21.84 | -22 | 21 | 52.09 | 4.2026 | 22.5 |
| ago | 6 | 2459067.75 | 19 | 24 | 54.45 | -22 | 22 | 53.88 | 4.2087 | 22.4 |
| ago | 7 | 2459068.75 | 19 | 24 | 27.54 | -22 | 23 | 54.28 | 4.2151 | 22.3 |
| ago | 8 | 2459069.75 | 19 | 24 | 1.14 | -22 | 24 | 53.26 | 4.2217 | 22.3 |
| ago | 9 | 2459070.75 | 19 | 23 | 35.25 | -22 | 25 | 50.80 | 4.2286 | 22.2 |
| ago | 10 | 2459071.75 | 19 | 23 | 9.90 | -22 | 26 | 46.89 | 4.2357 | 22.1 |
| ago | 11 | 2459072.75 | 19 | 22 | 45.11 | -22 | 27 | 41.50 | 4.2431 | 22.0 |
| ago | 12 | 2459073.75 | 19 | 22 | 20.89 | -22 | 28 | 34.63 | 4.2507 | 22.0 |
| ago | 13 | 2459074.75 | 19 | 21 | 57.27 | -22 | 29 | 26.28 | 4.2586 | 21.9 |
| ago | 14 | 2459075.75 | 19 | 21 | 34.25 | -22 | 30 | 16.42 | 4.2667 | 21.8 |
| ago | 15 | 2459076.75 | 19 | 21 | 11.85 | -22 | 31 | 5.07 | 4.2751 | 21.7 |
| ago | 16 | 2459077.75 | 19 | 20 | 50.09 | -22 | 31 | 52.21 | 4.2837 | 21.7 |
| ago | 17 | 2459078.75 | 19 | 20 | 28.98 | -22 | 32 | 37.84 | 4.2926 | 21.6 |

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Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 19 | 20 | 8.53 | -22 | 33 | 21.95 | 4.3016 | 21.5 |
| ago | 19 | 2459080.75 | 19 | 19 | 48.76 | -22 | 34 | 4.53 | 4.3110 | 21.5 |
| ago | 20 | 2459081.75 | 19 | 19 | 29.68 | -22 | 34 | 45.55 | 4.3205 | 21.4 |
| ago | 21 | 2459082.75 | 19 | 19 | 11.30 | -22 | 35 | 25.00 | 4.3302 | 21.3 |
| ago | 22 | 2459083.75 | 19 | 18 | 53.63 | -22 | 36 | 2.85 | 4.3402 | 21.2 |
| ago | 23 | 2459084.75 | 19 | 18 | 36.70 | -22 | 36 | 39.10 | 4.3504 | 21.2 |
| ago | 24 | 2459085.75 | 19 | 18 | 20.51 | -22 | 37 | 13.75 | 4.3608 | 21.1 |
| ago | 25 | 2459086.75 | 19 | 18 | 5.07 | -22 | 37 | 46.80 | 4.3714 | 21.0 |
| ago | 26 | 2459087.75 | 19 | 17 | 50.39 | -22 | 38 | 18.27 | 4.3821 | 21.0 |
| ago | 27 | 2459088.75 | 19 | 17 | 36.48 | -22 | 38 | 48.17 | 4.3931 | 20.9 |
| ago | 28 | 2459089.75 | 19 | 17 | 23.34 | -22 | 39 | 16.50 | 4.4043 | 20.8 |
| ago | 29 | 2459090.75 | 19 | 17 | 10.98 | -22 | 39 | 43.27 | 4.4157 | 20.8 |
| ago | 30 | 2459091.75 | 19 | 16 | 59.39 | -22 | 40 | 8.48 | 4.4272 | 20.7 |
| ago | 31 | 2459092.75 | 19 | 16 | 48.60 | -22 | 40 | 32.13 | 4.4389 | 20.6 |
| sep | 1 | 2459093.75 | 19 | 16 | 38.59 | -22 | 40 | 54.21 | 4.4508 | 20.6 |
| sep | 2 | 2459094.75 | 19 | 16 | 29.37 | -22 | 41 | 14.71 | 4.4629 | 20.5 |
| sep | 3 | 2459095.75 | 19 | 16 | 20.96 | -22 | 41 | 33.63 | 4.4751 | 20.4 |
| sep | 4 | 2459096.75 | 19 | 16 | 13.35 | -22 | 41 | 50.97 | 4.4875 | 20.3 |
| sep | 5 | 2459097.75 | 19 | 16 | 6.55 | -22 | 42 | 6.72 | 4.5000 | 20.3 |
| sep | 6 | 2459098.75 | 19 | 16 | 0.56 | -22 | 42 | 20.89 | 4.5127 | 20.2 |
| sep | 7 | 2459099.75 | 19 | 15 | 55.39 | -22 | 42 | 33.47 | 4.5256 | 20.1 |
| sep | 8 | 2459100.75 | 19 | 15 | 51.04 | -22 | 42 | 44.49 | 4.5386 | 20.1 |
| sep | 9 | 2459101.75 | 19 | 15 | 47.52 | -22 | 42 | 53.93 | 4.5517 | 20.0 |
| sep | 10 | 2459102.75 | 19 | 15 | 44.82 | -22 | 43 | 1.82 | 4.5650 | 19.9 |
| sep | 11 | 2459103.75 | 19 | 15 | 42.96 | -22 | 43 | 8.16 | 4.5784 | 19.9 |
| sep | 12 | 2459104.75 | 19 | 15 | 41.92 | -22 | 43 | 12.96 | 4.5920 | 19.8 |
| sep | 13 | 2459105.75 | 19 | 15 | 41.72 | -22 | 43 | 16.22 | 4.6056 | 19.7 |
| sep | 14 | 2459106.75 | 19 | 15 | 42.34 | -22 | 43 | 17.94 | 4.6194 | 19.7 |
| sep | 15 | 2459107.75 | 19 | 15 | 43.80 | -22 | 43 | 18.13 | 4.6333 | 19.6 |
| sep | 16 | 2459108.75 | 19 | 15 | 46.09 | -22 | 43 | 16.77 | 4.6473 | 19.6 |
| sep | 17 | 2459109.75 | 19 | 15 | 49.20 | -22 | 43 | 13.85 | 4.6615 | 19.5 |
| sep | 18 | 2459110.75 | 19 | 15 | 53.15 | -22 | 43 | 9.36 | 4.6757 | 19.4 |
| sep | 19 | 2459111.75 | 19 | 15 | 57.94 | -22 | 43 | 3.28 | 4.6900 | 19.4 |
| sep | 20 | 2459112.75 | 19 | 16 | 3.55 | -22 | 42 | 55.62 | 4.7044 | 19.3 |
| sep | 21 | 2459113.75 | 19 | 16 | 10.00 | -22 | 42 | 46.38 | 4.7190 | 19.2 |
| sep | 22 | 2459114.75 | 19 | 16 | 17.28 | -22 | 42 | 35.58 | 4.7335 | 19.2 |
| sep | 23 | 2459115.75 | 19 | 16 | 25.39 | -22 | 42 | 23.23 | 4.7482 | 19.1 |
| sep | 24 | 2459116.75 | 19 | 16 | 34.31 | -22 | 42 | 9.34 | 4.7630 | 19.0 |
| sep | 25 | 2459117.75 | 19 | 16 | 44.05 | -22 | 41 | 53.91 | 4.7778 | 19.0 |
| sep | 26 | 2459118.75 | 19 | 16 | 54.59 | -22 | 41 | 36.95 | 4.7926 | 18.9 |
| sep | 27 | 2459119.75 | 19 | 17 | 5.94 | -22 | 41 | 18.45 | 4.8076 | 18.9 |
| sep | 28 | 2459120.75 | 19 | 17 | 18.08 | -22 | 40 | 58.40 | 4.8226 | 18.8 |
| sep | 29 | 2459121.75 | 19 | 17 | 31.01 | -22 | 40 | 36.78 | 4.8376 | 18.7 |
| sep | 30 | 2459122.75 | 19 | 17 | 44.72 | -22 | 40 | 13.61 | 4.8527 | 18.7 |
| oct | 1 | 2459123.75 | 19 | 17 | 59.22 | -22 | 39 | 48.85 | 4.8679 | 18.6 |
| oct | 2 | 2459124.75 | 19 | 18 | 14.50 | -22 | 39 | 22.52 | 4.8831 | 18.5 |

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Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 19 | 18 | 30.55 | -22 | 38 | 54.60 | 4.8983 | 18.5 |
| oct | 4 | 2459126.75 | 19 | 18 | 47.37 | -22 | 38 | 25.09 | 4.9136 | 18.4 |
| oct | 5 | 2459127.75 | 19 | 19 | 4.95 | -22 | 37 | 54.00 | 4.9288 | 18.4 |
| oct | 6 | 2459128.75 | 19 | 19 | 23.30 | -22 | 37 | 21.32 | 4.9442 | 18.3 |
| oct | 7 | 2459129.75 | 19 | 19 | 42.40 | -22 | 36 | 47.06 | 4.9595 | 18.2 |
| oct | 8 | 2459130.75 | 19 | 20 | 2.25 | -22 | 36 | 11.21 | 4.9749 | 18.2 |
| oct | 9 | 2459131.75 | 19 | 20 | 22.84 | -22 | 35 | 33.79 | 4.9902 | 18.1 |
| oct | 10 | 2459132.75 | 19 | 20 | 44.17 | -22 | 34 | 54.79 | 5.0056 | 18.1 |
| oct | 11 | 2459133.75 | 19 | 21 | 6.23 | -22 | 34 | 14.20 | 5.0210 | 18.0 |
| oct | 12 | 2459134.75 | 19 | 21 | 29.01 | -22 | 33 | 32.03 | 5.0364 | 17.9 |
| oct | 13 | 2459135.75 | 19 | 21 | 52.52 | -22 | 32 | 48.25 | 5.0518 | 17.9 |
| oct | 14 | 2459136.75 | 19 | 22 | 16.73 | -22 | 32 | 2.85 | 5.0672 | 17.8 |
| oct | 15 | 2459137.75 | 19 | 22 | 41.64 | -22 | 31 | 15.81 | 5.0826 | 17.8 |
| oct | 16 | 2459138.75 | 19 | 23 | 7.26 | -22 | 30 | 27.10 | 5.0980 | 17.7 |
| oct | 17 | 2459139.75 | 19 | 23 | 33.58 | -22 | 29 | 36.72 | 5.1133 | 17.6 |
| oct | 18 | 2459140.75 | 19 | 24 | 0.59 | -22 | 28 | 44.67 | 5.1286 | 17.6 |
| oct | 19 | 2459141.75 | 19 | 24 | 28.29 | -22 | 27 | 50.94 | 5.1440 | 17.5 |
| oct | 20 | 2459142.75 | 19 | 24 | 56.66 | -22 | 26 | 55.56 | 5.1592 | 17.5 |
| oct | 21 | 2459143.75 | 19 | 25 | 25.70 | -22 | 25 | 58.52 | 5.1745 | 17.4 |
| oct | 22 | 2459144.75 | 19 | 25 | 55.39 | -22 | 24 | 59.83 | 5.1897 | 17.4 |
| oct | 23 | 2459145.75 | 19 | 26 | 25.74 | -22 | 23 | 59.48 | 5.2049 | 17.3 |
| oct | 24 | 2459146.75 | 19 | 26 | 56.71 | -22 | 22 | 57.46 | 5.2200 | 17.2 |
| oct | 25 | 2459147.75 | 19 | 27 | 28.32 | -22 | 21 | 53.77 | 5.2351 | 17.2 |
| oct | 26 | 2459148.75 | 19 | 28 | 0.54 | -22 | 20 | 48.39 | 5.2501 | 17.1 |
| oct | 27 | 2459149.75 | 19 | 28 | 33.38 | -22 | 19 | 41.30 | 5.2650 | 17.1 |
| oct | 28 | 2459150.75 | 19 | 29 | 6.82 | -22 | 18 | 32.49 | 5.2800 | 17.0 |
| oct | 29 | 2459151.75 | 19 | 29 | 40.85 | -22 | 17 | 21.95 | 5.2948 | 17.0 |
| oct | 30 | 2459152.75 | 19 | 30 | 15.48 | -22 | 16 | 9.68 | 5.3096 | 16.9 |
| oct | 31 | 2459153.75 | 19 | 30 | 50.69 | -22 | 14 | 55.67 | 5.3243 | 16.8 |
| nov | 1 | 2459154.75 | 19 | 31 | 26.48 | -22 | 13 | 39.91 | 5.3390 | 16.8 |
| nov | 2 | 2459155.75 | 19 | 32 | 2.84 | -22 | 12 | 22.41 | 5.3536 | 16.7 |
| nov | 3 | 2459156.75 | 19 | 32 | 39.76 | -22 | 11 | 3.16 | 5.3681 | 16.7 |
| nov | 4 | 2459157.75 | 19 | 33 | 17.23 | -22 | 9 | 42.17 | 5.3825 | 16.6 |
| nov | 5 | 2459158.75 | 19 | 33 | 55.25 | -22 | 8 | 19.43 | 5.3969 | 16.6 |
| nov | 6 | 2459159.75 | 19 | 34 | 33.81 | -22 | 6 | 54.95 | 5.4111 | 16.5 |
| nov | 7 | 2459160.75 | 19 | 35 | 12.90 | -22 | 5 | 28.71 | 5.4253 | 16.5 |
| nov | 8 | 2459161.75 | 19 | 35 | 52.52 | -22 | 4 | 0.72 | 5.4394 | 16.4 |
| nov | 9 | 2459162.75 | 19 | 36 | 32.65 | -22 | 2 | 30.97 | 5.4534 | 16.4 |
| nov | 10 | 2459163.75 | 19 | 37 | 13.28 | -22 | 0 | 59.43 | 5.4673 | 16.3 |
| nov | 11 | 2459164.75 | 19 | 37 | 54.42 | -21 | 59 | 26.09 | 5.4811 | 16.2 |
| nov | 12 | 2459165.75 | 19 | 38 | 36.05 | -21 | 57 | 50.93 | 5.4948 | 16.2 |
| nov | 13 | 2459166.75 | 19 | 39 | 18.17 | -21 | 56 | 13.94 | 5.5084 | 16.1 |
| nov | 14 | 2459167.75 | 19 | 40 | 0.77 | -21 | 54 | 35.11 | 5.5219 | 16.1 |
| nov | 15 | 2459168.75 | 19 | 40 | 43.85 | -21 | 52 | 54.43 | 5.5352 | 16.0 |
| nov | 16 | 2459169.75 | 19 | 41 | 27.41 | -21 | 51 | 11.93 | 5.5485 | 16.0 |
| nov | 17 | 2459170.75 | 19 | 42 | 11.42 | -21 | 49 | 27.61 | 5.5617 | 15.9 |

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Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 19 | 42 | 55.88 | -21 | 47 | 41.48 | 5.5747 | 15.9 |
| nov | 19 | 2459172.75 | 19 | 43 | 40.78 | -21 | 45 | 53.54 | 5.5876 | 15.8 |
| nov | 20 | 2459173.75 | 19 | 44 | 26.11 | -21 | 44 | 3.80 | 5.6003 | 15.8 |
| nov | 21 | 2459174.75 | 19 | 45 | 11.85 | -21 | 42 | 12.25 | 5.6130 | 15.7 |
| nov | 22 | 2459175.75 | 19 | 45 | 58.01 | -21 | 40 | 18.87 | 5.6255 | 15.7 |
| nov | 23 | 2459176.75 | 19 | 46 | 44.56 | -21 | 38 | 23.65 | 5.6379 | 15.6 |
| nov | 24 | 2459177.75 | 19 | 47 | 31.51 | -21 | 36 | 26.59 | 5.6501 | 15.5 |
| nov | 25 | 2459178.75 | 19 | 48 | 18.85 | -21 | 34 | 27.69 | 5.6622 | 15.5 |
| nov | 26 | 2459179.75 | 19 | 49 | 6.57 | -21 | 32 | 26.94 | 5.6742 | 15.4 |
| nov | 27 | 2459180.75 | 19 | 49 | 54.66 | -21 | 30 | 24.34 | 5.6860 | 15.4 |
| nov | 28 | 2459181.75 | 19 | 50 | 43.12 | -21 | 28 | 19.89 | 5.6977 | 15.3 |
| nov | 29 | 2459182.75 | 19 | 51 | 31.94 | -21 | 26 | 13.59 | 5.7092 | 15.3 |
| nov | 30 | 2459183.75 | 19 | 52 | 21.11 | -21 | 24 | 5.46 | 5.7206 | 15.2 |
| dic | 1 | 2459184.75 | 19 | 53 | 10.63 | -21 | 21 | 55.49 | 5.7318 | 15.2 |
| dic | 2 | 2459185.75 | 19 | 54 | 0.49 | -21 | 19 | 43.70 | 5.7429 | 15.1 |
| dic | 3 | 2459186.75 | 19 | 54 | 50.68 | -21 | 17 | 30.10 | 5.7538 | 15.1 |
| dic | 4 | 2459187.75 | 19 | 55 | 41.19 | -21 | 15 | 14.68 | 5.7646 | 15.0 |
| dic | 5 | 2459188.75 | 19 | 56 | 32.02 | -21 | 12 | 57.46 | 5.7752 | 15.0 |
| dic | 6 | 2459189.75 | 19 | 57 | 23.16 | -21 | 10 | 38.42 | 5.7857 | 14.9 |
| dic | 7 | 2459190.75 | 19 | 58 | 14.60 | -21 | 8 | 17.57 | 5.7960 | 14.9 |
| dic | 8 | 2459191.75 | 19 | 59 | 6.33 | -21 | 5 | 54.89 | 5.8061 | 14.8 |
| dic | 9 | 2459192.75 | 19 | 59 | 58.35 | -21 | 3 | 30.38 | 5.8161 | 14.8 |
| dic | 10 | 2459193.75 | 20 | 0 | 50.66 | -21 | 1 | 4.03 | 5.8259 | 14.7 |
| dic | 11 | 2459194.75 | 20 | 1 | 43.24 | -20 | 58 | 35.84 | 5.8355 | 14.7 |
| dic | 12 | 2459195.75 | 20 | 2 | 36.10 | -20 | 56 | 5.80 | 5.8450 | 14.6 |
| dic | 13 | 2459196.75 | 20 | 3 | 29.23 | -20 | 53 | 33.95 | 5.8542 | 14.6 |
| dic | 14 | 2459197.75 | 20 | 4 | 22.62 | -20 | 51 | 0.28 | 5.8634 | 14.5 |
| dic | 15 | 2459198.75 | 20 | 5 | 16.27 | -20 | 48 | 24.83 | 5.8723 | 14.5 |
| dic | 16 | 2459199.75 | 20 | 6 | 10.15 | -20 | 45 | 47.62 | 5.8810 | 14.4 |
| dic | 17 | 2459200.75 | 20 | 7 | 4.26 | -20 | 43 | 8.66 | 5.8896 | 14.4 |
| dic | 18 | 2459201.75 | 20 | 7 | 58.60 | -20 | 40 | 27.95 | 5.8980 | 14.3 |
| dic | 19 | 2459202.75 | 20 | 8 | 53.15 | -20 | 37 | 45.50 | 5.9062 | 14.3 |
| dic | 20 | 2459203.75 | 20 | 9 | 47.90 | -20 | 35 | 1.30 | 5.9142 | 14.2 |
| dic | 21 | 2459204.75 | 20 | 10 | 42.86 | -20 | 32 | 15.36 | 5.9220 | 14.2 |
| dic | 22 | 2459205.75 | 20 | 11 | 38.00 | -20 | 29 | 27.69 | 5.9296 | 14.1 |
| dic | 23 | 2459206.75 | 20 | 12 | 33.34 | -20 | 26 | 38.29 | 5.9371 | 14.1 |
| dic | 24 | 2459207.75 | 20 | 13 | 28.86 | -20 | 23 | 47.17 | 5.9443 | 14.0 |
| dic | 25 | 2459208.75 | 20 | 14 | 24.55 | -20 | 20 | 54.34 | 5.9514 | 14.0 |
| dic | 26 | 2459209.75 | 20 | 15 | 20.41 | -20 | 17 | 59.81 | 5.9583 | 13.9 |
| dic | 27 | 2459210.75 | 20 | 16 | 16.44 | -20 | 15 | 3.61 | 5.9650 | 13.9 |
| dic | 28 | 2459211.75 | 20 | 17 | 12.63 | -20 | 12 | 5.75 | 5.9714 | 13.8 |
| dic | 29 | 2459212.75 | 20 | 18 | 8.97 | -20 | 9 | 6.26 | 5.9777 | 13.8 |
| dic | 30 | 2459213.75 | 20 | 19 | 5.45 | -20 | 6 | 5.14 | 5.9838 | 13.7 |
| dic | 31 | 2459214.75 | 20 | 20 | 2.07 | -20 | 3 | 2.41 | 5.9897 | 13.7 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| ene | 1 | 2458849.75 | 19 | 32 | 35.04 | -21 | 40 | 47.67 | 10.9972 | 12.9 |
| ene | 2 | 2458850.75 | 19 | 33 | 4.97 | -21 | 39 | 45.91 | 11.0002 | 12.8 |
| ene | 3 | 2458851.75 | 19 | 33 | 34.94 | -21 | 38 | 43.67 | 11.0030 | 12.7 |
| ene | 4 | 2458852.75 | 19 | 34 | 4.96 | -21 | 37 | 40.96 | 11.0055 | 12.7 |
| ene | 5 | 2458853.75 | 19 | 34 | 35.02 | -21 | 36 | 37.78 | 11.0078 | 12.6 |
| ene | 6 | 2458854.75 | 19 | 35 | 5.11 | -21 | 35 | 34.16 | 11.0098 | 12.6 |
| ene | 7 | 2458855.75 | 19 | 35 | 35.23 | -21 | 34 | 30.10 | 11.0115 | 12.5 |
| ene | 8 | 2458856.75 | 19 | 36 | 5.38 | -21 | 33 | 25.62 | 11.0130 | 12.5 |
| ene | 9 | 2458857.75 | 19 | 36 | 35.55 | -21 | 32 | 20.74 | 11.0142 | 12.4 |
| ene | 10 | 2458858.75 | 19 | 37 | 5.74 | -21 | 31 | 15.48 | 11.0152 | 12.3 |
| ene | 11 | 2458859.75 | 19 | 37 | 35.94 | -21 | 30 | 9.86 | 11.0159 | 12.3 |
| ene | 12 | 2458860.75 | 19 | 38 | 6.15 | -21 | 29 | 3.87 | 11.0163 | 12.2 |
| ene | 13 | 2458861.75 | 19 | 38 | 36.40 | -21 | 27 | 57.32 | 11.0165 | 12.2 |
| ene | 14 | 2458862.75 | 19 | 39 | 6.45 | -21 | 26 | 51.07 | 11.0164 | 12.1 |
| ene | 15 | 2458863.75 | 19 | 39 | 36.66 | -21 | 25 | 44.06 | 11.0161 | 12.0 |
| ene | 16 | 2458864.75 | 19 | 40 | 6.83 | -21 | 24 | 36.72 | 11.0155 | 12.0 |
| ene | 17 | 2458865.75 | 19 | 40 | 36.97 | -21 | 23 | 29.05 | 11.0146 | 11.9 |
| ene | 18 | 2458866.75 | 19 | 41 | 7.09 | -21 | 22 | 21.06 | 11.0135 | 11.9 |
| ene | 19 | 2458867.75 | 19 | 41 | 37.19 | -21 | 21 | 12.77 | 11.0121 | 11.8 |
| ene | 20 | 2458868.75 | 19 | 42 | 7.26 | -21 | 20 | 4.19 | 11.0105 | 11.8 |
| ene | 21 | 2458869.75 | 19 | 42 | 37.29 | -21 | 18 | 55.36 | 11.0086 | 11.7 |
| ene | 22 | 2458870.75 | 19 | 43 | 7.28 | -21 | 17 | 46.30 | 11.0064 | 11.6 |
| ene | 23 | 2458871.75 | 19 | 43 | 37.23 | -21 | 16 | 37.02 | 11.0040 | 11.6 |
| ene | 24 | 2458872.75 | 19 | 44 | 7.12 | -21 | 15 | 27.54 | 11.0013 | 11.5 |
| ene | 25 | 2458873.75 | 19 | 44 | 36.94 | -21 | 14 | 17.88 | 10.9983 | 11.5 |
| ene | 26 | 2458874.75 | 19 | 45 | 6.70 | -21 | 13 | 8.04 | 10.9951 | 11.4 |
| ene | 27 | 2458875.75 | 19 | 45 | 36.39 | -21 | 11 | 58.04 | 10.9917 | 11.4 |
| ene | 28 | 2458876.75 | 19 | 46 | 6.00 | -21 | 10 | 47.88 | 10.9879 | 11.3 |
| ene | 29 | 2458877.75 | 19 | 46 | 35.53 | -21 | 9 | 37.58 | 10.9840 | 11.2 |
| ene | 30 | 2458878.75 | 19 | 47 | 4.97 | -21 | 8 | 27.14 | 10.9797 | 11.2 |
| ene | 31 | 2458879.75 | 19 | 47 | 34.32 | -21 | 7 | 16.58 | 10.9752 | 11.1 |
| feb | 1 | 2458880.75 | 19 | 48 | 3.57 | -21 | 6 | 5.91 | 10.9705 | 11.1 |
| feb | 2 | 2458881.75 | 19 | 48 | 32.73 | -21 | 4 | 55.15 | 10.9655 | 11.0 |
| feb | 3 | 2458882.75 | 19 | 49 | 1.79 | -21 | 3 | 44.32 | 10.9603 | 11.0 |
| feb | 4 | 2458883.75 | 19 | 49 | 30.75 | -21 | 2 | 33.43 | 10.9548 | 10.9 |
| feb | 5 | 2458884.75 | 19 | 49 | 59.59 | -21 | 1 | 22.52 | 10.9491 | 10.8 |
| feb | 6 | 2458885.75 | 19 | 50 | 28.31 | -21 | 0 | 11.61 | 10.9431 | 10.8 |
| feb | 7 | 2458886.75 | 19 | 50 | 56.92 | -20 | 59 | 0.73 | 10.9369 | 10.7 |
| feb | 8 | 2458887.75 | 19 | 51 | 25.40 | -20 | 57 | 49.88 | 10.9304 | 10.7 |
| feb | 9 | 2458888.75 | 19 | 51 | 53.74 | -20 | 56 | 39.10 | 10.9237 | 10.6 |
| feb | 10 | 2458889.75 | 19 | 52 | 21.95 | -20 | 55 | 28.39 | 10.9168 | 10.6 |
| feb | 11 | 2458890.75 | 19 | 52 | 50.01 | -20 | 54 | 17.75 | 10.9096 | 10.5 |
| feb | 12 | 2458891.75 | 19 | 53 | 17.93 | -20 | 53 | 7.18 | 10.9022 | 10.4 |
| feb | 13 | 2458892.75 | 19 | 53 | 45.70 | -20 | 51 | 56.69 | 10.8946 | 10.4 |
| feb | 14 | 2458893.75 | 19 | 54 | 13.32 | -20 | 50 | 46.29 | 10.8867 | 10.3 |
| feb | 15 | 2458894.75 | 19 | 54 | 40.79 | -20 | 49 | 36.01 | 10.8786 | 10.3 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 19 | 55 | 8.10 | -20 | 48 | 25.87 | 10.8703 | 10.2 |
| feb | 17 | 2458896.75 | 19 | 55 | 35.25 | -20 | 47 | 15.91 | 10.8617 | 10.1 |
| feb | 18 | 2458897.75 | 19 | 56 | 2.23 | -20 | 46 | 6.15 | 10.8530 | 10.1 |
| feb | 19 | 2458898.75 | 19 | 56 | 29.04 | -20 | 44 | 56.61 | 10.8440 | 10.0 |
| feb | 20 | 2458899.75 | 19 | 56 | 55.66 | -20 | 43 | 47.32 | 10.8347 | 10.0 |
| feb | 21 | 2458900.75 | 19 | 57 | 22.10 | -20 | 42 | 38.30 | 10.8253 | 9.9 |
| feb | 22 | 2458901.75 | 19 | 57 | 48.35 | -20 | 41 | 29.56 | 10.8156 | 9.9 |
| feb | 23 | 2458902.75 | 19 | 58 | 14.40 | -20 | 40 | 21.12 | 10.8057 | 9.8 |
| feb | 24 | 2458903.75 | 19 | 58 | 40.24 | -20 | 39 | 12.99 | 10.7956 | 9.7 |
| feb | 25 | 2458904.75 | 19 | 59 | 5.88 | -20 | 38 | 5.17 | 10.7853 | 9.7 |
| feb | 26 | 2458905.75 | 19 | 59 | 31.31 | -20 | 36 | 57.70 | 10.7748 | 9.6 |
| feb | 27 | 2458906.75 | 19 | 59 | 56.53 | -20 | 35 | 50.57 | 10.7641 | 9.6 |
| feb | 28 | 2458907.75 | 20 | 0 | 21.53 | -20 | 34 | 43.82 | 10.7532 | 9.5 |
| feb | 29 | 2458908.75 | 20 | 0 | 46.30 | -20 | 33 | 37.45 | 10.7421 | 9.4 |
| mar | 1 | 2458909.75 | 20 | 1 | 10.86 | -20 | 32 | 31.49 | 10.7308 | 9.4 |
| mar | 2 | 2458910.75 | 20 | 1 | 35.19 | -20 | 31 | 25.96 | 10.7193 | 9.3 |
| mar | 3 | 2458911.75 | 20 | 1 | 59.28 | -20 | 30 | 20.89 | 10.7076 | 9.3 |
| mar | 4 | 2458912.75 | 20 | 2 | 23.14 | -20 | 29 | 16.31 | 10.6957 | 9.2 |
| mar | 5 | 2458913.75 | 20 | 2 | 46.76 | -20 | 28 | 12.24 | 10.6837 | 9.1 |
| mar | 6 | 2458914.75 | 20 | 3 | 10.13 | -20 | 27 | 8.70 | 10.6714 | 9.1 |
| mar | 7 | 2458915.75 | 20 | 3 | 33.25 | -20 | 26 | 5.72 | 10.6590 | 9.0 |
| mar | 8 | 2458916.75 | 20 | 3 | 56.12 | -20 | 25 | 3.31 | 10.6464 | 9.0 |
| mar | 9 | 2458917.75 | 20 | 4 | 18.72 | -20 | 24 | 1.48 | 10.6337 | 8.9 |
| mar | 10 | 2458918.75 | 20 | 4 | 41.06 | -20 | 23 | 0.24 | 10.6208 | 8.9 |
| mar | 11 | 2458919.75 | 20 | 5 | 3.14 | -20 | 21 | 59.57 | 10.6077 | 8.8 |
| mar | 12 | 2458920.75 | 20 | 5 | 24.95 | -20 | 20 | 59.51 | 10.5944 | 8.7 |
| mar | 13 | 2458921.75 | 20 | 5 | 46.49 | -20 | 20 | 0.06 | 10.5810 | 8.7 |
| mar | 14 | 2458922.75 | 20 | 6 | 7.76 | -20 | 19 | 1.25 | 10.5674 | 8.6 |
| mar | 15 | 2458923.75 | 20 | 6 | 28.75 | -20 | 18 | 3.11 | 10.5537 | 8.6 |
| mar | 16 | 2458924.75 | 20 | 6 | 49.47 | -20 | 17 | 5.68 | 10.5398 | 8.5 |
| mar | 17 | 2458925.75 | 20 | 7 | 9.90 | -20 | 16 | 8.98 | 10.5258 | 8.4 |
| mar | 18 | 2458926.75 | 20 | 7 | 30.03 | -20 | 15 | 13.04 | 10.5117 | 8.4 |
| mar | 19 | 2458927.75 | 20 | 7 | 49.87 | -20 | 14 | 17.86 | 10.4974 | 8.3 |
| mar | 20 | 2458928.75 | 20 | 8 | 9.41 | -20 | 13 | 23.48 | 10.4829 | 8.3 |
| mar | 21 | 2458929.75 | 20 | 8 | 28.63 | -20 | 12 | 29.90 | 10.4683 | 8.2 |
| mar | 22 | 2458930.75 | 20 | 8 | 47.55 | -20 | 11 | 37.14 | 10.4536 | 8.1 |
| mar | 23 | 2458931.75 | 20 | 9 | 6.16 | -20 | 10 | 45.21 | 10.4388 | 8.1 |
| mar | 24 | 2458932.75 | 20 | 9 | 24.44 | -20 | 9 | 54.12 | 10.4238 | 8.0 |
| mar | 25 | 2458933.75 | 20 | 9 | 42.41 | -20 | 9 | 3.88 | 10.4088 | 8.0 |
| mar | 26 | 2458934.75 | 20 | 10 | 0.06 | -20 | 8 | 14.51 | 10.3936 | 7.9 |
| mar | 27 | 2458935.75 | 20 | 10 | 17.38 | -20 | 7 | 26.03 | 10.3783 | 7.8 |
| mar | 28 | 2458936.75 | 20 | 10 | 34.37 | -20 | 6 | 38.46 | 10.3629 | 7.8 |
| mar | 29 | 2458937.75 | 20 | 10 | 51.03 | -20 | 5 | 51.81 | 10.3474 | 7.7 |
| mar | 30 | 2458938.75 | 20 | 11 | 7.36 | -20 | 5 | 6.11 | 10.3318 | 7.6 |
| mar | 31 | 2458939.75 | 20 | 11 | 23.35 | -20 | 4 | 21.38 | 10.3161 | 7.6 |
| abr | 1 | 2458940.75 | 20 | 11 | 39.00 | -20 | 3 | 37.65 | 10.3003 | 7.5 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 20 | 11 | 54.31 | -20 | 2 | 54.94 | 10.2844 | 7.5 |
| abr | 3 | 2458942.75 | 20 | 12 | 9.27 | -20 | 2 | 13.26 | 10.2685 | 7.4 |
| abr | 4 | 2458943.75 | 20 | 12 | 23.88 | -20 | 1 | 32.63 | 10.2525 | 7.3 |
| abr | 5 | 2458944.75 | 20 | 12 | 38.13 | -20 | 0 | 53.06 | 10.2364 | 7.3 |
| abr | 6 | 2458945.75 | 20 | 12 | 52.02 | -20 | 0 | 14.56 | 10.2202 | 7.2 |
| abr | 7 | 2458946.75 | 20 | 13 | 5.56 | -19 | 59 | 37.11 | 10.2040 | 7.2 |
| abr | 8 | 2458947.75 | 20 | 13 | 18.73 | -19 | 59 | 0.71 | 10.1877 | 7.1 |
| abr | 9 | 2458948.75 | 20 | 13 | 31.55 | -19 | 58 | 25.39 | 10.1714 | 7.0 |
| abr | 10 | 2458949.75 | 20 | 13 | 44.00 | -19 | 57 | 51.15 | 10.1550 | 7.0 |
| abr | 11 | 2458950.75 | 20 | 13 | 56.10 | -19 | 57 | 18.02 | 10.1385 | 6.9 |
| abr | 12 | 2458951.75 | 20 | 14 | 7.83 | -19 | 56 | 46.03 | 10.1220 | 6.8 |
| abr | 13 | 2458952.75 | 20 | 14 | 19.18 | -19 | 56 | 15.21 | 10.1055 | 6.8 |
| abr | 14 | 2458953.75 | 20 | 14 | 30.17 | -19 | 55 | 45.56 | 10.0889 | 6.7 |
| abr | 15 | 2458954.75 | 20 | 14 | 40.77 | -19 | 55 | 17.11 | 10.0723 | 6.7 |
| abr | 16 | 2458955.75 | 20 | 14 | 50.99 | -19 | 54 | 49.87 | 10.0557 | 6.6 |
| abr | 17 | 2458956.75 | 20 | 15 | 0.83 | -19 | 54 | 23.84 | 10.0390 | 6.5 |
| abr | 18 | 2458957.75 | 20 | 15 | 10.27 | -19 | 53 | 59.03 | 10.0224 | 6.5 |
| abr | 19 | 2458958.75 | 20 | 15 | 19.33 | -19 | 53 | 35.45 | 10.0057 | 6.4 |
| abr | 20 | 2458959.75 | 20 | 15 | 27.99 | -19 | 53 | 13.09 | 9.9890 | 6.3 |
| abr | 21 | 2458960.75 | 20 | 15 | 36.27 | -19 | 52 | 51.97 | 9.9723 | 6.3 |
| abr | 22 | 2458961.75 | 20 | 15 | 44.14 | -19 | 52 | 32.09 | 9.9556 | 6.2 |
| abr | 23 | 2458962.75 | 20 | 15 | 51.63 | -19 | 52 | 13.45 | 9.9389 | 6.1 |
| abr | 24 | 2458963.75 | 20 | 15 | 58.72 | -19 | 51 | 56.08 | 9.9222 | 6.1 |
| abr | 25 | 2458964.75 | 20 | 16 | 5.41 | -19 | 51 | 39.97 | 9.9055 | 6.0 |
| abr | 26 | 2458965.75 | 20 | 16 | 11.71 | -19 | 51 | 25.15 | 9.8888 | 6.0 |
| abr | 27 | 2458966.75 | 20 | 16 | 17.60 | -19 | 51 | 11.62 | 9.8722 | 5.9 |
| abr | 28 | 2458967.75 | 20 | 16 | 23.10 | -19 | 50 | 59.40 | 9.8556 | 5.8 |
| abr | 29 | 2458968.75 | 20 | 16 | 28.20 | -19 | 50 | 48.50 | 9.8390 | 5.8 |
| abr | 30 | 2458969.75 | 20 | 16 | 32.89 | -19 | 50 | 38.92 | 9.8225 | 5.7 |
| may | 1 | 2458970.75 | 20 | 16 | 37.18 | -19 | 50 | 30.69 | 9.8060 | 5.6 |
| may | 2 | 2458971.75 | 20 | 16 | 41.06 | -19 | 50 | 23.78 | 9.7895 | 5.6 |
| may | 3 | 2458972.75 | 20 | 16 | 44.53 | -19 | 50 | 18.20 | 9.7731 | 5.5 |
| may | 4 | 2458973.75 | 20 | 16 | 47.60 | -19 | 50 | 13.94 | 9.7568 | 5.4 |
| may | 5 | 2458974.75 | 20 | 16 | 50.26 | -19 | 50 | 10.98 | 9.7405 | 5.4 |
| may | 6 | 2458975.75 | 20 | 16 | 52.53 | -19 | 50 | 9.31 | 9.7243 | 5.3 |
| may | 7 | 2458976.75 | 20 | 16 | 54.39 | -19 | 50 | 8.94 | 9.7082 | 5.2 |
| may | 8 | 2458977.75 | 20 | 16 | 55.85 | -19 | 50 | 9.87 | 9.6921 | 5.2 |
| may | 9 | 2458978.75 | 20 | 16 | 56.91 | -19 | 50 | 12.11 | 9.6761 | 5.1 |
| may | 10 | 2458979.75 | 20 | 16 | 57.58 | -19 | 50 | 15.69 | 9.6602 | 5.0 |
| may | 11 | 2458980.75 | 20 | 16 | 57.84 | -19 | 50 | 20.61 | 9.6444 | 5.0 |
| may | 12 | 2458981.75 | 20 | 16 | 57.69 | -19 | 50 | 26.87 | 9.6286 | 4.9 |
| may | 13 | 2458982.75 | 20 | 16 | 57.14 | -19 | 50 | 34.48 | 9.6130 | 4.9 |
| may | 14 | 2458983.75 | 20 | 16 | 56.19 | -19 | 50 | 43.42 | 9.5975 | 4.8 |
| may | 15 | 2458984.75 | 20 | 16 | 54.82 | -19 | 50 | 53.69 | 9.5820 | 4.7 |
| may | 16 | 2458985.75 | 20 | 16 | 53.05 | -19 | 51 | 5.27 | 9.5667 | 4.7 |
| may | 17 | 2458986.75 | 20 | 16 | 50.88 | -19 | 51 | 18.15 | 9.5515 | 4.6 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 20 | 16 | 48.31 | -19 | 51 | 32.34 | 9.5364 | 4.5 |
| may | 19 | 2458988.75 | 20 | 16 | 45.33 | -19 | 51 | 47.80 | 9.5214 | 4.5 |
| may | 20 | 2458989.75 | 20 | 16 | 41.96 | -19 | 52 | 4.55 | 9.5066 | 4.4 |
| may | 21 | 2458990.75 | 20 | 16 | 38.20 | -19 | 52 | 22.56 | 9.4918 | 4.3 |
| may | 22 | 2458991.75 | 20 | 16 | 34.04 | -19 | 52 | 41.84 | 9.4773 | 4.3 |
| may | 23 | 2458992.75 | 20 | 16 | 29.49 | -19 | 53 | 2.39 | 9.4628 | 4.2 |
| may | 24 | 2458993.75 | 20 | 16 | 24.55 | -19 | 53 | 24.19 | 9.4485 | 4.1 |
| may | 25 | 2458994.75 | 20 | 16 | 19.23 | -19 | 53 | 47.25 | 9.4344 | 4.1 |
| may | 26 | 2458995.75 | 20 | 16 | 13.53 | -19 | 54 | 11.56 | 9.4204 | 4.0 |
| may | 27 | 2458996.75 | 20 | 16 | 7.44 | -19 | 54 | 37.11 | 9.4066 | 3.9 |
| may | 28 | 2458997.75 | 20 | 16 | 0.98 | -19 | 55 | 3.90 | 9.3930 | 3.9 |
| may | 29 | 2458998.75 | 20 | 15 | 54.13 | -19 | 55 | 31.91 | 9.3795 | 3.8 |
| may | 30 | 2458999.75 | 20 | 15 | 46.91 | -19 | 56 | 1.10 | 9.3662 | 3.7 |
| may | 31 | 2459000.75 | 20 | 15 | 39.32 | -19 | 56 | 31.47 | 9.3530 | 3.6 |
| jun | 1 | 2459001.75 | 20 | 15 | 31.37 | -19 | 57 | 2.97 | 9.3401 | 3.6 |
| jun | 2 | 2459002.75 | 20 | 15 | 23.05 | -19 | 57 | 35.58 | 9.3273 | 3.5 |
| jun | 3 | 2459003.75 | 20 | 15 | 14.39 | -19 | 58 | 9.28 | 9.3147 | 3.4 |
| jun | 4 | 2459004.75 | 20 | 15 | 5.37 | -19 | 58 | 44.07 | 9.3023 | 3.4 |
| jun | 5 | 2459005.75 | 20 | 14 | 56.01 | -19 | 59 | 19.92 | 9.2901 | 3.3 |
| jun | 6 | 2459006.75 | 20 | 14 | 46.31 | -19 | 59 | 56.84 | 9.2781 | 3.2 |
| jun | 7 | 2459007.75 | 20 | 14 | 36.28 | -20 | 0 | 34.83 | 9.2663 | 3.2 |
| jun | 8 | 2459008.75 | 20 | 14 | 25.90 | -20 | 1 | 13.87 | 9.2547 | 3.1 |
| jun | 9 | 2459009.75 | 20 | 14 | 15.20 | -20 | 1 | 53.94 | 9.2433 | 3.0 |
| jun | 10 | 2459010.75 | 20 | 14 | 4.16 | -20 | 2 | 35.03 | 9.2322 | 3.0 |
| jun | 11 | 2459011.75 | 20 | 13 | 52.80 | -20 | 3 | 17.10 | 9.2212 | 2.9 |
| jun | 12 | 2459012.75 | 20 | 13 | 41.11 | -20 | 4 | 0.13 | 9.2105 | 2.8 |
| jun | 13 | 2459013.75 | 20 | 13 | 29.11 | -20 | 4 | 44.09 | 9.2000 | 2.8 |
| jun | 14 | 2459014.75 | 20 | 13 | 16.80 | -20 | 5 | 28.96 | 9.1897 | 2.7 |
| jun | 15 | 2459015.75 | 20 | 13 | 4.19 | -20 | 6 | 14.70 | 9.1796 | 2.6 |
| jun | 16 | 2459016.75 | 20 | 12 | 51.28 | -20 | 7 | 1.28 | 9.1698 | 2.5 |
| jun | 17 | 2459017.75 | 20 | 12 | 38.08 | -20 | 7 | 48.70 | 9.1602 | 2.5 |
| jun | 18 | 2459018.75 | 20 | 12 | 24.59 | -20 | 8 | 36.92 | 9.1509 | 2.4 |
| jun | 19 | 2459019.75 | 20 | 12 | 10.84 | -20 | 9 | 25.92 | 9.1418 | 2.3 |
| jun | 20 | 2459020.75 | 20 | 11 | 56.81 | -20 | 10 | 15.69 | 9.1330 | 2.3 |
| jun | 21 | 2459021.75 | 20 | 11 | 42.52 | -20 | 11 | 6.21 | 9.1244 | 2.2 |
| jun | 22 | 2459022.75 | 20 | 11 | 27.97 | -20 | 11 | 57.46 | 9.1160 | 2.1 |
| jun | 23 | 2459023.75 | 20 | 11 | 13.17 | -20 | 12 | 49.41 | 9.1080 | 2.1 |
| jun | 24 | 2459024.75 | 20 | 10 | 58.13 | -20 | 13 | 42.04 | 9.1002 | 2.0 |
| jun | 25 | 2459025.75 | 20 | 10 | 42.85 | -20 | 14 | 35.33 | 9.0926 | 1.9 |
| jun | 26 | 2459026.75 | 20 | 10 | 27.34 | -20 | 15 | 29.23 | 9.0853 | 1.9 |
| jun | 27 | 2459027.75 | 20 | 10 | 11.61 | -20 | 16 | 23.70 | 9.0783 | 1.8 |
| jun | 28 | 2459028.75 | 20 | 9 | 55.66 | -20 | 17 | 18.71 | 9.0716 | 1.7 |
| jun | 29 | 2459029.75 | 20 | 9 | 39.51 | -20 | 18 | 14.20 | 9.0651 | 1.6 |
| jun | 30 | 2459030.75 | 20 | 9 | 23.16 | -20 | 19 | 10.16 | 9.0589 | 1.6 |
| jul | 1 | 2459031.75 | 20 | 9 | 6.64 | -20 | 20 | 6.55 | 9.0530 | 1.5 |
| jul | 2 | 2459032.75 | 20 | 8 | 49.94 | -20 | 21 | 3.36 | 9.0473 | 1.4 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 20 | 8 | 33.07 | -20 | 22 | 0.55 | 9.0419 | 1.4 |
| jul | 4 | 2459034.75 | 20 | 8 | 16.04 | -20 | 22 | 58.13 | 9.0369 | 1.3 |
| jul | 5 | 2459035.75 | 20 | 7 | 58.85 | -20 | 23 | 56.07 | 9.0320 | 1.2 |
| jul | 6 | 2459036.75 | 20 | 7 | 41.52 | -20 | 24 | 54.34 | 9.0275 | 1.1 |
| jul | 7 | 2459037.75 | 20 | 7 | 24.05 | -20 | 25 | 52.91 | 9.0233 | 1.1 |
| jul | 8 | 2459038.75 | 20 | 7 | 6.44 | -20 | 26 | 51.75 | 9.0193 | 1.0 |
| jul | 9 | 2459039.75 | 20 | 6 | 48.70 | -20 | 27 | 50.83 | 9.0157 | 0.9 |
| jul | 10 | 2459040.75 | 20 | 6 | 30.85 | -20 | 28 | 50.11 | 9.0123 | 0.9 |
| jul | 11 | 2459041.75 | 20 | 6 | 12.89 | -20 | 29 | 49.54 | 9.0092 | 0.8 |
| jul | 12 | 2459042.75 | 20 | 5 | 54.83 | -20 | 30 | 49.10 | 9.0064 | 0.7 |
| jul | 13 | 2459043.75 | 20 | 5 | 36.68 | -20 | 31 | 48.76 | 9.0040 | 0.7 |
| jul | 14 | 2459044.75 | 20 | 5 | 18.46 | -20 | 32 | 48.48 | 9.0018 | 0.6 |
| jul | 15 | 2459045.75 | 20 | 5 | 0.16 | -20 | 33 | 48.23 | 8.9999 | 0.5 |
| jul | 16 | 2459046.75 | 20 | 4 | 41.81 | -20 | 34 | 48.00 | 8.9982 | 0.4 |
| jul | 17 | 2459047.75 | 20 | 4 | 23.41 | -20 | 35 | 47.76 | 8.9969 | 0.4 |
| jul | 18 | 2459048.75 | 20 | 4 | 4.98 | -20 | 36 | 47.48 | 8.9959 | 0.3 |
| jul | 19 | 2459049.75 | 20 | 3 | 46.51 | -20 | 37 | 47.15 | 8.9952 | 0.2 |
| jul | 20 | 2459050.75 | 20 | 3 | 28.02 | -20 | 38 | 46.74 | 8.9948 | 0.2 |
| jul | 21 | 2459051.75 | 20 | 3 | 9.52 | -20 | 39 | 46.22 | 8.9947 | 0.1 |
| jul | 22 | 2459052.75 | 20 | 2 | 51.01 | -20 | 40 | 45.57 | 8.9949 | 0.0 |
| jul | 23 | 2459053.75 | 20 | 2 | 32.51 | -20 | 41 | 44.76 | 8.9954 | 23.9 |
| jul | 24 | 2459054.75 | 20 | 2 | 14.02 | -20 | 42 | 43.73 | 8.9962 | 23.9 |
| jul | 25 | 2459055.75 | 20 | 1 | 55.56 | -20 | 43 | 42.44 | 8.9973 | 23.8 |
| jul | 26 | 2459056.75 | 20 | 1 | 37.13 | -20 | 44 | 40.87 | 8.9987 | 23.7 |
| jul | 27 | 2459057.75 | 20 | 1 | 18.76 | -20 | 45 | 38.97 | 9.0004 | 23.7 |
| jul | 28 | 2459058.75 | 20 | 1 | 0.44 | -20 | 46 | 36.73 | 9.0023 | 23.6 |
| jul | 29 | 2459059.75 | 20 | 0 | 42.20 | -20 | 47 | 34.12 | 9.0046 | 23.5 |
| jul | 30 | 2459060.75 | 20 | 0 | 24.03 | -20 | 48 | 31.12 | 9.0072 | 23.5 |
| jul | 31 | 2459061.75 | 20 | 0 | 5.95 | -20 | 49 | 27.74 | 9.0101 | 23.4 |
| ago | 1 | 2459062.75 | 19 | 59 | 47.97 | -20 | 50 | 23.94 | 9.0132 | 23.3 |
| ago | 2 | 2459063.75 | 19 | 59 | 30.09 | -20 | 51 | 19.71 | 9.0167 | 23.2 |
| ago | 3 | 2459064.75 | 19 | 59 | 12.32 | -20 | 52 | 15.04 | 9.0204 | 23.2 |
| ago | 4 | 2459065.75 | 19 | 58 | 54.66 | -20 | 53 | 9.88 | 9.0244 | 23.1 |
| ago | 5 | 2459066.75 | 19 | 58 | 37.13 | -20 | 54 | 4.22 | 9.0288 | 23.0 |
| ago | 6 | 2459067.75 | 19 | 58 | 19.73 | -20 | 54 | 58.01 | 9.0334 | 23.0 |
| ago | 7 | 2459068.75 | 19 | 58 | 2.47 | -20 | 55 | 51.24 | 9.0383 | 22.9 |
| ago | 8 | 2459069.75 | 19 | 57 | 45.37 | -20 | 56 | 43.88 | 9.0434 | 22.8 |
| ago | 9 | 2459070.75 | 19 | 57 | 28.42 | -20 | 57 | 35.90 | 9.0489 | 22.7 |
| ago | 10 | 2459071.75 | 19 | 57 | 11.65 | -20 | 58 | 27.27 | 9.0546 | 22.7 |
| ago | 11 | 2459072.75 | 19 | 56 | 55.06 | -20 | 59 | 17.99 | 9.0606 | 22.6 |
| ago | 12 | 2459073.75 | 19 | 56 | 38.66 | -21 | 0 | 8.03 | 9.0669 | 22.5 |
| ago | 13 | 2459074.75 | 19 | 56 | 22.46 | -21 | 0 | 57.39 | 9.0735 | 22.5 |
| ago | 14 | 2459075.75 | 19 | 56 | 6.46 | -21 | 1 | 46.03 | 9.0803 | 22.4 |
| ago | 15 | 2459076.75 | 19 | 55 | 50.68 | -21 | 2 | 33.97 | 9.0874 | 22.3 |
| ago | 16 | 2459077.75 | 19 | 55 | 35.13 | -21 | 3 | 21.18 | 9.0948 | 22.3 |
| ago | 17 | 2459078.75 | 19 | 55 | 19.80 | -21 | 4 | 7.65 | 9.1024 | 22.2 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 19 | 55 | 4.71 | -21 | 4 | 53.37 | 9.1103 | 22.1 |
| ago | 19 | 2459080.75 | 19 | 54 | 49.86 | -21 | 5 | 38.31 | 9.1185 | 22.0 |
| ago | 20 | 2459081.75 | 19 | 54 | 35.26 | -21 | 6 | 22.45 | 9.1269 | 22.0 |
| ago | 21 | 2459082.75 | 19 | 54 | 20.92 | -21 | 7 | 5.75 | 9.1356 | 21.9 |
| ago | 22 | 2459083.75 | 19 | 54 | 6.85 | -21 | 7 | 48.18 | 9.1445 | 21.8 |
| ago | 23 | 2459084.75 | 19 | 53 | 53.06 | -21 | 8 | 29.73 | 9.1537 | 21.8 |
| ago | 24 | 2459085.75 | 19 | 53 | 39.55 | -21 | 9 | 10.37 | 9.1631 | 21.7 |
| ago | 25 | 2459086.75 | 19 | 53 | 26.34 | -21 | 9 | 50.11 | 9.1728 | 21.6 |
| ago | 26 | 2459087.75 | 19 | 53 | 13.43 | -21 | 10 | 28.94 | 9.1827 | 21.6 |
| ago | 27 | 2459088.75 | 19 | 53 | 0.83 | -21 | 11 | 6.87 | 9.1928 | 21.5 |
| ago | 28 | 2459089.75 | 19 | 52 | 48.54 | -21 | 11 | 43.88 | 9.2032 | 21.4 |
| ago | 29 | 2459090.75 | 19 | 52 | 36.56 | -21 | 12 | 19.98 | 9.2138 | 21.3 |
| ago | 30 | 2459091.75 | 19 | 52 | 24.90 | -21 | 12 | 55.16 | 9.2246 | 21.3 |
| ago | 31 | 2459092.75 | 19 | 52 | 13.57 | -21 | 13 | 29.39 | 9.2356 | 21.2 |
| sep | 1 | 2459093.75 | 19 | 52 | 2.56 | -21 | 14 | 2.67 | 9.2468 | 21.1 |
| sep | 2 | 2459094.75 | 19 | 51 | 51.88 | -21 | 14 | 34.98 | 9.2583 | 21.1 |
| sep | 3 | 2459095.75 | 19 | 51 | 41.54 | -21 | 15 | 6.30 | 9.2700 | 21.0 |
| sep | 4 | 2459096.75 | 19 | 51 | 31.54 | -21 | 15 | 36.62 | 9.2819 | 20.9 |
| sep | 5 | 2459097.75 | 19 | 51 | 21.90 | -21 | 16 | 5.92 | 9.2939 | 20.9 |
| sep | 6 | 2459098.75 | 19 | 51 | 12.61 | -21 | 16 | 34.20 | 9.3062 | 20.8 |
| sep | 7 | 2459099.75 | 19 | 51 | 3.68 | -21 | 17 | 1.45 | 9.3187 | 20.7 |
| sep | 8 | 2459100.75 | 19 | 50 | 55.11 | -21 | 17 | 27.66 | 9.3313 | 20.7 |
| sep | 9 | 2459101.75 | 19 | 50 | 46.92 | -21 | 17 | 52.83 | 9.3442 | 20.6 |
| sep | 10 | 2459102.75 | 19 | 50 | 39.10 | -21 | 18 | 16.97 | 9.3572 | 20.5 |
| sep | 11 | 2459103.75 | 19 | 50 | 31.66 | -21 | 18 | 40.07 | 9.3704 | 20.5 |
| sep | 12 | 2459104.75 | 19 | 50 | 24.60 | -21 | 19 | 2.13 | 9.3838 | 20.4 |
| sep | 13 | 2459105.75 | 19 | 50 | 17.93 | -21 | 19 | 23.15 | 9.3974 | 20.3 |
| sep | 14 | 2459106.75 | 19 | 50 | 11.65 | -21 | 19 | 43.13 | 9.4111 | 20.3 |
| sep | 15 | 2459107.75 | 19 | 50 | 5.75 | -21 | 20 | 2.07 | 9.4250 | 20.2 |
| sep | 16 | 2459108.75 | 19 | 50 | 0.25 | -21 | 20 | 19.94 | 9.4390 | 20.1 |
| sep | 17 | 2459109.75 | 19 | 49 | 55.14 | -21 | 20 | 36.72 | 9.4532 | 20.1 |
| sep | 18 | 2459110.75 | 19 | 49 | 50.43 | -21 | 20 | 52.41 | 9.4675 | 20.0 |
| sep | 19 | 2459111.75 | 19 | 49 | 46.13 | -21 | 21 | 6.98 | 9.4820 | 19.9 |
| sep | 20 | 2459112.75 | 19 | 49 | 42.24 | -21 | 21 | 20.42 | 9.4966 | 19.9 |
| sep | 21 | 2459113.75 | 19 | 49 | 38.77 | -21 | 21 | 32.75 | 9.5114 | 19.8 |
| sep | 22 | 2459114.75 | 19 | 49 | 35.71 | -21 | 21 | 43.96 | 9.5263 | 19.7 |
| sep | 23 | 2459115.75 | 19 | 49 | 33.06 | -21 | 21 | 54.08 | 9.5413 | 19.7 |
| sep | 24 | 2459116.75 | 19 | 49 | 30.84 | -21 | 22 | 3.10 | 9.5564 | 19.6 |
| sep | 25 | 2459117.75 | 19 | 49 | 29.03 | -21 | 22 | 11.04 | 9.5717 | 19.5 |
| sep | 26 | 2459118.75 | 19 | 49 | 27.63 | -21 | 22 | 17.89 | 9.5870 | 19.5 |
| sep | 27 | 2459119.75 | 19 | 49 | 26.65 | -21 | 22 | 23.65 | 9.6025 | 19.4 |
| sep | 28 | 2459120.75 | 19 | 49 | 26.08 | -21 | 22 | 28.32 | 9.6180 | 19.3 |
| sep | 29 | 2459121.75 | 19 | 49 | 25.93 | -21 | 22 | 31.87 | 9.6337 | 19.3 |
| sep | 30 | 2459122.75 | 19 | 49 | 26.19 | -21 | 22 | 34.32 | 9.6494 | 19.2 |
| oct | 1 | 2459123.75 | 19 | 49 | 26.87 | -21 | 22 | 35.64 | 9.6653 | 19.1 |
| oct | 2 | 2459124.75 | 19 | 49 | 27.97 | -21 | 22 | 35.83 | 9.6812 | 19.1 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 19 | 49 | 29.48 | -21 | 22 | 34.90 | 9.6972 | 19.0 |
| oct | 4 | 2459126.75 | 19 | 49 | 31.42 | -21 | 22 | 32.84 | 9.7132 | 18.9 |
| oct | 5 | 2459127.75 | 19 | 49 | 33.78 | -21 | 22 | 29.66 | 9.7293 | 18.9 |
| oct | 6 | 2459128.75 | 19 | 49 | 36.56 | -21 | 22 | 25.35 | 9.7455 | 18.8 |
| oct | 7 | 2459129.75 | 19 | 49 | 39.77 | -21 | 22 | 19.93 | 9.7618 | 18.7 |
| oct | 8 | 2459130.75 | 19 | 49 | 43.39 | -21 | 22 | 13.40 | 9.7781 | 18.7 |
| oct | 9 | 2459131.75 | 19 | 49 | 47.44 | -21 | 22 | 5.77 | 9.7945 | 18.6 |
| oct | 10 | 2459132.75 | 19 | 49 | 51.90 | -21 | 21 | 57.05 | 9.8109 | 18.5 |
| oct | 11 | 2459133.75 | 19 | 49 | 56.78 | -21 | 21 | 47.23 | 9.8273 | 18.5 |
| oct | 12 | 2459134.75 | 19 | 50 | 2.08 | -21 | 21 | 36.31 | 9.8438 | 18.4 |
| oct | 13 | 2459135.75 | 19 | 50 | 7.79 | -21 | 21 | 24.30 | 9.8603 | 18.4 |
| oct | 14 | 2459136.75 | 19 | 50 | 13.92 | -21 | 21 | 11.18 | 9.8768 | 18.3 |
| oct | 15 | 2459137.75 | 19 | 50 | 20.45 | -21 | 20 | 56.94 | 9.8934 | 18.2 |
| oct | 16 | 2459138.75 | 19 | 50 | 27.40 | -21 | 20 | 41.57 | 9.9100 | 18.2 |
| oct | 17 | 2459139.75 | 19 | 50 | 34.77 | -21 | 20 | 25.05 | 9.9266 | 18.1 |
| oct | 18 | 2459140.75 | 19 | 50 | 42.55 | -21 | 20 | 7.39 | 9.9432 | 18.0 |
| oct | 19 | 2459141.75 | 19 | 50 | 50.75 | -21 | 19 | 48.60 | 9.9598 | 18.0 |
| oct | 20 | 2459142.75 | 19 | 50 | 59.35 | -21 | 19 | 28.71 | 9.9764 | 17.9 |
| oct | 21 | 2459143.75 | 19 | 51 | 8.37 | -21 | 19 | 7.72 | 9.9930 | 17.8 |
| oct | 22 | 2459144.75 | 19 | 51 | 17.79 | -21 | 18 | 45.65 | 10.0095 | 17.8 |
| oct | 23 | 2459145.75 | 19 | 51 | 27.60 | -21 | 18 | 22.51 | 10.0261 | 17.7 |
| oct | 24 | 2459146.75 | 19 | 51 | 37.82 | -21 | 17 | 58.29 | 10.0426 | 17.7 |
| oct | 25 | 2459147.75 | 19 | 51 | 48.42 | -21 | 17 | 32.99 | 10.0591 | 17.6 |
| oct | 26 | 2459148.75 | 19 | 51 | 59.41 | -21 | 17 | 6.60 | 10.0756 | 17.5 |
| oct | 27 | 2459149.75 | 19 | 52 | 10.78 | -21 | 16 | 39.13 | 10.0920 | 17.5 |
| oct | 28 | 2459150.75 | 19 | 52 | 22.54 | -21 | 16 | 10.56 | 10.1084 | 17.4 |
| oct | 29 | 2459151.75 | 19 | 52 | 34.68 | -21 | 15 | 40.90 | 10.1247 | 17.3 |
| oct | 30 | 2459152.75 | 19 | 52 | 47.20 | -21 | 15 | 10.15 | 10.1410 | 17.3 |
| oct | 31 | 2459153.75 | 19 | 53 | 0.09 | -21 | 14 | 38.31 | 10.1573 | 17.2 |
| nov | 1 | 2459154.75 | 19 | 53 | 13.36 | -21 | 14 | 5.38 | 10.1735 | 17.2 |
| nov | 2 | 2459155.75 | 19 | 53 | 27.01 | -21 | 13 | 31.37 | 10.1896 | 17.1 |
| nov | 3 | 2459156.75 | 19 | 53 | 41.02 | -21 | 12 | 56.30 | 10.2057 | 17.0 |
| nov | 4 | 2459157.75 | 19 | 53 | 55.41 | -21 | 12 | 20.17 | 10.2216 | 17.0 |
| nov | 5 | 2459158.75 | 19 | 54 | 10.15 | -21 | 11 | 42.99 | 10.2376 | 16.9 |
| nov | 6 | 2459159.75 | 19 | 54 | 25.25 | -21 | 11 | 4.76 | 10.2534 | 16.8 |
| nov | 7 | 2459160.75 | 19 | 54 | 40.71 | -21 | 10 | 25.51 | 10.2691 | 16.8 |
| nov | 8 | 2459161.75 | 19 | 54 | 56.52 | -21 | 9 | 45.22 | 10.2848 | 16.7 |
| nov | 9 | 2459162.75 | 19 | 55 | 12.67 | -21 | 9 | 3.91 | 10.3004 | 16.7 |
| nov | 10 | 2459163.75 | 19 | 55 | 29.17 | -21 | 8 | 21.56 | 10.3159 | 16.6 |
| nov | 11 | 2459164.75 | 19 | 55 | 46.01 | -21 | 7 | 38.17 | 10.3313 | 16.5 |
| nov | 12 | 2459165.75 | 19 | 56 | 3.18 | -21 | 6 | 53.73 | 10.3466 | 16.5 |
| nov | 13 | 2459166.75 | 19 | 56 | 20.69 | -21 | 6 | 8.23 | 10.3617 | 16.4 |
| nov | 14 | 2459167.75 | 19 | 56 | 38.54 | -21 | 5 | 21.66 | 10.3768 | 16.4 |
| nov | 15 | 2459168.75 | 19 | 56 | 56.72 | -21 | 4 | 34.05 | 10.3917 | 16.3 |
| nov | 16 | 2459169.75 | 19 | 57 | 15.22 | -21 | 3 | 45.41 | 10.4066 | 16.2 |
| nov | 17 | 2459170.75 | 19 | 57 | 34.06 | -21 | 2 | 55.76 | 10.4213 | 16.2 |

Saturno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | δ ° | " | dis UA | hp h | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|---------|------|
| nov | 18 | 2459171.75 | 19 | 57 | 53.20 | -21 | 2 | 5.12 | 10.4358 | 16.1 |
| nov | 19 | 2459172.75 | 19 | 58 | 12.66 | -21 | 1 | 13.50 | 10.4503 | 16.1 |
| nov | 20 | 2459173.75 | 19 | 58 | 32.42 | -21 | 0 | 20.90 | 10.4646 | 16.0 |
| nov | 21 | 2459174.75 | 19 | 58 | 52.48 | -20 | 59 | 27.34 | 10.4787 | 15.9 |
| nov | 22 | 2459175.75 | 19 | 59 | 12.83 | -20 | 58 | 32.80 | 10.4928 | 15.9 |
| nov | 23 | 2459176.75 | 19 | 59 | 33.46 | -20 | 57 | 37.28 | 10.5066 | 15.8 |
| nov | 24 | 2459177.75 | 19 | 59 | 54.39 | -20 | 56 | 40.79 | 10.5204 | 15.8 |
| nov | 25 | 2459178.75 | 20 | 0 | 15.59 | -20 | 55 | 43.32 | 10.5339 | 15.7 |
| nov | 26 | 2459179.75 | 20 | 0 | 37.07 | -20 | 54 | 44.87 | 10.5473 | 15.6 |
| nov | 27 | 2459180.75 | 20 | 0 | 58.83 | -20 | 53 | 45.46 | 10.5606 | 15.6 |
| nov | 28 | 2459181.75 | 20 | 1 | 20.85 | -20 | 52 | 45.10 | 10.5737 | 15.5 |
| nov | 29 | 2459182.75 | 20 | 1 | 43.15 | -20 | 51 | 43.78 | 10.5866 | 15.5 |
| nov | 30 | 2459183.75 | 20 | 2 | 5.70 | -20 | 50 | 41.52 | 10.5993 | 15.4 |
| dic | 1 | 2459184.75 | 20 | 2 | 28.52 | -20 | 49 | 38.35 | 10.6119 | 15.3 |
| dic | 2 | 2459185.75 | 20 | 2 | 51.58 | -20 | 48 | 34.26 | 10.6243 | 15.3 |
| dic | 3 | 2459186.75 | 20 | 3 | 14.90 | -20 | 47 | 29.28 | 10.6365 | 15.2 |
| dic | 4 | 2459187.75 | 20 | 3 | 38.45 | -20 | 46 | 23.41 | 10.6486 | 15.2 |
| dic | 5 | 2459188.75 | 20 | 4 | 2.25 | -20 | 45 | 16.66 | 10.6605 | 15.1 |
| dic | 6 | 2459189.75 | 20 | 4 | 26.27 | -20 | 44 | 9.04 | 10.6721 | 15.0 |
| dic | 7 | 2459190.75 | 20 | 4 | 50.53 | -20 | 43 | 0.56 | 10.6836 | 15.0 |
| dic | 8 | 2459191.75 | 20 | 5 | 15.00 | -20 | 41 | 51.19 | 10.6949 | 14.9 |
| dic | 9 | 2459192.75 | 20 | 5 | 39.70 | -20 | 40 | 40.95 | 10.7060 | 14.9 |
| dic | 10 | 2459193.75 | 20 | 6 | 4.61 | -20 | 39 | 29.83 | 10.7169 | 14.8 |
| dic | 11 | 2459194.75 | 20 | 6 | 29.73 | -20 | 38 | 17.83 | 10.7276 | 14.7 |
| dic | 12 | 2459195.75 | 20 | 6 | 55.07 | -20 | 37 | 4.95 | 10.7381 | 14.7 |
| dic | 13 | 2459196.75 | 20 | 7 | 20.61 | -20 | 35 | 51.23 | 10.7484 | 14.6 |
| dic | 14 | 2459197.75 | 20 | 7 | 46.36 | -20 | 34 | 36.67 | 10.7585 | 14.6 |
| dic | 15 | 2459198.75 | 20 | 8 | 12.30 | -20 | 33 | 21.30 | 10.7683 | 14.5 |
| dic | 16 | 2459199.75 | 20 | 8 | 38.43 | -20 | 32 | 5.15 | 10.7780 | 14.5 |
| dic | 17 | 2459200.75 | 20 | 9 | 4.74 | -20 | 30 | 48.24 | 10.7874 | 14.4 |
| dic | 18 | 2459201.75 | 20 | 9 | 31.22 | -20 | 29 | 30.56 | 10.7966 | 14.3 |
| dic | 19 | 2459202.75 | 20 | 9 | 57.87 | -20 | 28 | 12.12 | 10.8056 | 14.3 |
| dic | 20 | 2459203.75 | 20 | 10 | 24.68 | -20 | 26 | 52.92 | 10.8143 | 14.2 |
| dic | 21 | 2459204.75 | 20 | 10 | 51.65 | -20 | 25 | 32.98 | 10.8229 | 14.2 |
| dic | 22 | 2459205.75 | 20 | 11 | 18.77 | -20 | 24 | 12.28 | 10.8312 | 14.1 |
| dic | 23 | 2459206.75 | 20 | 11 | 46.04 | -20 | 22 | 50.84 | 10.8392 | 14.0 |
| dic | 24 | 2459207.75 | 20 | 12 | 13.46 | -20 | 21 | 28.67 | 10.8471 | 14.0 |
| dic | 25 | 2459208.75 | 20 | 12 | 41.02 | -20 | 20 | 5.78 | 10.8547 | 13.9 |
| dic | 26 | 2459209.75 | 20 | 13 | 8.72 | -20 | 18 | 42.18 | 10.8620 | 13.9 |
| dic | 27 | 2459210.75 | 20 | 13 | 36.55 | -20 | 17 | 17.90 | 10.8692 | 13.8 |
| dic | 28 | 2459211.75 | 20 | 14 | 4.51 | -20 | 15 | 52.94 | 10.8761 | 13.8 |
| dic | 29 | 2459212.75 | 20 | 14 | 32.60 | -20 | 14 | 27.33 | 10.8827 | 13.7 |
| dic | 30 | 2459213.75 | 20 | 15 | 0.80 | -20 | 13 | 1.08 | 10.8891 | 13.6 |
| dic | 31 | 2459214.75 | 20 | 15 | 29.11 | -20 | 11 | 34.23 | 10.8953 | 13.6 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| ene | 1 | 2458849.75 | 2 | 2 | 39.44 | +11 | 56 | 28.67 | 19.4227 | 19.4 |
| ene | 2 | 2458850.75 | 2 | 2 | 37.53 | +11 | 56 | 20.48 | 19.4387 | 19.3 |
| ene | 3 | 2458851.75 | 2 | 2 | 35.81 | +11 | 56 | 13.35 | 19.4547 | 19.2 |
| ene | 4 | 2458852.75 | 2 | 2 | 34.29 | +11 | 56 | 7.26 | 19.4709 | 19.2 |
| ene | 5 | 2458853.75 | 2 | 2 | 32.98 | +11 | 56 | 2.25 | 19.4871 | 19.1 |
| ene | 6 | 2458854.75 | 2 | 2 | 31.86 | +11 | 55 | 58.31 | 19.5035 | 19.0 |
| ene | 7 | 2458855.75 | 2 | 2 | 30.94 | +11 | 55 | 55.46 | 19.5199 | 19.0 |
| ene | 8 | 2458856.75 | 2 | 2 | 30.23 | +11 | 55 | 53.69 | 19.5364 | 18.9 |
| ene | 9 | 2458857.75 | 2 | 2 | 29.72 | +11 | 55 | 53.02 | 19.5530 | 18.8 |
| ene | 10 | 2458858.75 | 2 | 2 | 29.41 | +11 | 55 | 53.43 | 19.5697 | 18.8 |
| ene | 11 | 2458859.75 | 2 | 2 | 29.30 | +11 | 55 | 54.93 | 19.5865 | 18.7 |
| ene | 12 | 2458860.75 | 2 | 2 | 29.39 | +11 | 55 | 57.51 | 19.6033 | 18.6 |
| ene | 13 | 2458861.75 | 2 | 2 | 29.67 | +11 | 56 | 1.14 | 19.6201 | 18.6 |
| ene | 14 | 2458862.75 | 2 | 2 | 30.15 | +11 | 56 | 5.83 | 19.6370 | 18.5 |
| ene | 15 | 2458863.75 | 2 | 2 | 30.83 | +11 | 56 | 11.56 | 19.6540 | 18.4 |
| ene | 16 | 2458864.75 | 2 | 2 | 31.71 | +11 | 56 | 18.35 | 19.6710 | 18.4 |
| ene | 17 | 2458865.75 | 2 | 2 | 32.79 | +11 | 56 | 26.20 | 19.6881 | 18.3 |
| ene | 18 | 2458866.75 | 2 | 2 | 34.08 | +11 | 56 | 35.13 | 19.7052 | 18.2 |
| ene | 19 | 2458867.75 | 2 | 2 | 35.57 | +11 | 56 | 45.14 | 19.7223 | 18.2 |
| ene | 20 | 2458868.75 | 2 | 2 | 37.26 | +11 | 56 | 56.24 | 19.7394 | 18.1 |
| ene | 21 | 2458869.75 | 2 | 2 | 39.16 | +11 | 57 | 8.44 | 19.7565 | 18.0 |
| ene | 22 | 2458870.75 | 2 | 2 | 41.26 | +11 | 57 | 21.72 | 19.7737 | 18.0 |
| ene | 23 | 2458871.75 | 2 | 2 | 43.56 | +11 | 57 | 36.09 | 19.7909 | 17.9 |
| ene | 24 | 2458872.75 | 2 | 2 | 46.07 | +11 | 57 | 51.52 | 19.8080 | 17.8 |
| ene | 25 | 2458873.75 | 2 | 2 | 48.77 | +11 | 58 | 8.02 | 19.8252 | 17.8 |
| ene | 26 | 2458874.75 | 2 | 2 | 51.66 | +11 | 58 | 25.56 | 19.8424 | 17.7 |
| ene | 27 | 2458875.75 | 2 | 2 | 54.76 | +11 | 58 | 44.15 | 19.8595 | 17.6 |
| ene | 28 | 2458876.75 | 2 | 2 | 58.04 | +11 | 59 | 3.77 | 19.8766 | 17.6 |
| ene | 29 | 2458877.75 | 2 | 3 | 1.53 | +11 | 59 | 24.42 | 19.8937 | 17.5 |
| ene | 30 | 2458878.75 | 2 | 3 | 5.21 | +11 | 59 | 46.10 | 19.9108 | 17.5 |
| ene | 31 | 2458879.75 | 2 | 3 | 9.08 | +12 | 0 | 8.80 | 19.9278 | 17.4 |
| feb | 1 | 2458880.75 | 2 | 3 | 13.15 | +12 | 0 | 32.52 | 19.9448 | 17.3 |
| feb | 2 | 2458881.75 | 2 | 3 | 17.42 | +12 | 0 | 57.26 | 19.9617 | 17.3 |
| feb | 3 | 2458882.75 | 2 | 3 | 21.88 | +12 | 1 | 23.02 | 19.9786 | 17.2 |
| feb | 4 | 2458883.75 | 2 | 3 | 26.53 | +12 | 1 | 49.80 | 19.9954 | 17.1 |
| feb | 5 | 2458884.75 | 2 | 3 | 31.37 | +12 | 2 | 17.58 | 20.0121 | 17.1 |
| feb | 6 | 2458885.75 | 2 | 3 | 36.40 | +12 | 2 | 46.37 | 20.0288 | 17.0 |
| feb | 7 | 2458886.75 | 2 | 3 | 41.62 | +12 | 3 | 16.15 | 20.0455 | 16.9 |
| feb | 8 | 2458887.75 | 2 | 3 | 47.02 | +12 | 3 | 46.89 | 20.0620 | 16.9 |
| feb | 9 | 2458888.75 | 2 | 3 | 52.60 | +12 | 4 | 18.59 | 20.0785 | 16.8 |
| feb | 10 | 2458889.75 | 2 | 3 | 58.36 | +12 | 4 | 51.21 | 20.0948 | 16.7 |
| feb | 11 | 2458890.75 | 2 | 4 | 4.30 | +12 | 5 | 24.74 | 20.1111 | 16.7 |
| feb | 12 | 2458891.75 | 2 | 4 | 10.41 | +12 | 5 | 59.18 | 20.1273 | 16.6 |
| feb | 13 | 2458892.75 | 2 | 4 | 16.70 | +12 | 6 | 34.52 | 20.1434 | 16.6 |
| feb | 14 | 2458893.75 | 2 | 4 | 23.17 | +12 | 7 | 10.76 | 20.1594 | 16.5 |
| feb | 15 | 2458894.75 | 2 | 4 | 29.82 | +12 | 7 | 47.92 | 20.1753 | 16.4 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 2 | 4 | 36.64 | +12 | 8 | 25.99 | 20.1911 | 16.4 |
| feb | 17 | 2458896.75 | 2 | 4 | 43.64 | +12 | 9 | 4.97 | 20.2067 | 16.3 |
| feb | 18 | 2458897.75 | 2 | 4 | 50.81 | +12 | 9 | 44.84 | 20.2222 | 16.2 |
| feb | 19 | 2458898.75 | 2 | 4 | 58.15 | +12 | 10 | 25.59 | 20.2377 | 16.2 |
| feb | 20 | 2458899.75 | 2 | 5 | 5.66 | +12 | 11 | 7.21 | 20.2529 | 16.1 |
| feb | 21 | 2458900.75 | 2 | 5 | 13.33 | +12 | 11 | 49.67 | 20.2681 | 16.0 |
| feb | 22 | 2458901.75 | 2 | 5 | 21.16 | +12 | 12 | 32.95 | 20.2831 | 16.0 |
| feb | 23 | 2458902.75 | 2 | 5 | 29.15 | +12 | 13 | 17.05 | 20.2980 | 15.9 |
| feb | 24 | 2458903.75 | 2 | 5 | 37.30 | +12 | 14 | 1.94 | 20.3127 | 15.9 |
| feb | 25 | 2458904.75 | 2 | 5 | 45.61 | +12 | 14 | 47.62 | 20.3272 | 15.8 |
| feb | 26 | 2458905.75 | 2 | 5 | 54.07 | +12 | 15 | 34.08 | 20.3417 | 15.7 |
| feb | 27 | 2458906.75 | 2 | 6 | 2.68 | +12 | 16 | 21.30 | 20.3559 | 15.7 |
| feb | 28 | 2458907.75 | 2 | 6 | 11.45 | +12 | 17 | 9.28 | 20.3700 | 15.6 |
| feb | 29 | 2458908.75 | 2 | 6 | 20.37 | +12 | 17 | 58.00 | 20.3839 | 15.5 |
| mar | 1 | 2458909.75 | 2 | 6 | 29.43 | +12 | 18 | 47.47 | 20.3976 | 15.5 |
| mar | 2 | 2458910.75 | 2 | 6 | 38.65 | +12 | 19 | 37.68 | 20.4112 | 15.4 |
| mar | 3 | 2458911.75 | 2 | 6 | 48.00 | +12 | 20 | 28.61 | 20.4246 | 15.3 |
| mar | 4 | 2458912.75 | 2 | 6 | 57.50 | +12 | 21 | 20.24 | 20.4378 | 15.3 |
| mar | 5 | 2458913.75 | 2 | 7 | 7.14 | +12 | 22 | 12.57 | 20.4508 | 15.2 |
| mar | 6 | 2458914.75 | 2 | 7 | 16.91 | +12 | 23 | 5.58 | 20.4637 | 15.2 |
| mar | 7 | 2458915.75 | 2 | 7 | 26.81 | +12 | 23 | 59.23 | 20.4763 | 15.1 |
| mar | 8 | 2458916.75 | 2 | 7 | 36.84 | +12 | 24 | 53.51 | 20.4887 | 15.0 |
| mar | 9 | 2458917.75 | 2 | 7 | 46.99 | +12 | 25 | 48.39 | 20.5010 | 15.0 |
| mar | 10 | 2458918.75 | 2 | 7 | 57.27 | +12 | 26 | 43.85 | 20.5130 | 14.9 |
| mar | 11 | 2458919.75 | 2 | 8 | 7.67 | +12 | 27 | 39.88 | 20.5249 | 14.8 |
| mar | 12 | 2458920.75 | 2 | 8 | 18.19 | +12 | 28 | 36.49 | 20.5365 | 14.8 |
| mar | 13 | 2458921.75 | 2 | 8 | 28.83 | +12 | 29 | 33.67 | 20.5480 | 14.7 |
| mar | 14 | 2458922.75 | 2 | 8 | 39.60 | +12 | 30 | 31.43 | 20.5592 | 14.7 |
| mar | 15 | 2458923.75 | 2 | 8 | 50.48 | +12 | 31 | 29.75 | 20.5702 | 14.6 |
| mar | 16 | 2458924.75 | 2 | 9 | 1.48 | +12 | 32 | 28.63 | 20.5810 | 14.5 |
| mar | 17 | 2458925.75 | 2 | 9 | 12.59 | +12 | 33 | 28.04 | 20.5916 | 14.5 |
| mar | 18 | 2458926.75 | 2 | 9 | 23.80 | +12 | 34 | 27.97 | 20.6019 | 14.4 |
| mar | 19 | 2458927.75 | 2 | 9 | 35.13 | +12 | 35 | 28.40 | 20.6120 | 14.3 |
| mar | 20 | 2458928.75 | 2 | 9 | 46.55 | +12 | 36 | 29.29 | 20.6219 | 14.3 |
| mar | 21 | 2458929.75 | 2 | 9 | 58.07 | +12 | 37 | 30.65 | 20.6316 | 14.2 |
| mar | 22 | 2458930.75 | 2 | 10 | 9.68 | +12 | 38 | 32.44 | 20.6410 | 14.2 |
| mar | 23 | 2458931.75 | 2 | 10 | 21.39 | +12 | 39 | 34.65 | 20.6502 | 14.1 |
| mar | 24 | 2458932.75 | 2 | 10 | 33.20 | +12 | 40 | 37.27 | 20.6591 | 14.0 |
| mar | 25 | 2458933.75 | 2 | 10 | 45.09 | +12 | 41 | 40.29 | 20.6679 | 14.0 |
| mar | 26 | 2458934.75 | 2 | 10 | 57.07 | +12 | 42 | 43.70 | 20.6763 | 13.9 |
| mar | 27 | 2458935.75 | 2 | 11 | 9.14 | +12 | 43 | 47.49 | 20.6845 | 13.8 |
| mar | 28 | 2458936.75 | 2 | 11 | 21.29 | +12 | 44 | 51.64 | 20.6925 | 13.8 |
| mar | 29 | 2458937.75 | 2 | 11 | 33.53 | +12 | 45 | 56.15 | 20.7002 | 13.7 |
| mar | 30 | 2458938.75 | 2 | 11 | 45.84 | +12 | 47 | 1.01 | 20.7077 | 13.7 |
| mar | 31 | 2458939.75 | 2 | 11 | 58.23 | +12 | 48 | 6.20 | 20.7149 | 13.6 |
| abr | 1 | 2458940.75 | 2 | 12 | 10.69 | +12 | 49 | 11.71 | 20.7219 | 13.5 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 2 | 12 | 23.22 | +12 | 50 | 17.51 | 20.7286 | 13.5 |
| abr | 3 | 2458942.75 | 2 | 12 | 35.82 | +12 | 51 | 23.58 | 20.7351 | 13.4 |
| abr | 4 | 2458943.75 | 2 | 12 | 48.47 | +12 | 52 | 29.91 | 20.7413 | 13.3 |
| abr | 5 | 2458944.75 | 2 | 13 | 1.18 | +12 | 53 | 36.45 | 20.7472 | 13.3 |
| abr | 6 | 2458945.75 | 2 | 13 | 13.95 | +12 | 54 | 43.20 | 20.7529 | 13.2 |
| abr | 7 | 2458946.75 | 2 | 13 | 26.77 | +12 | 55 | 50.14 | 20.7583 | 13.2 |
| abr | 8 | 2458947.75 | 2 | 13 | 39.64 | +12 | 56 | 57.25 | 20.7635 | 13.1 |
| abr | 9 | 2458948.75 | 2 | 13 | 52.57 | +12 | 58 | 4.55 | 20.7683 | 13.0 |
| abr | 10 | 2458949.75 | 2 | 14 | 5.54 | +12 | 59 | 12.03 | 20.7730 | 13.0 |
| abr | 11 | 2458950.75 | 2 | 14 | 18.57 | +13 | 0 | 19.69 | 20.7773 | 12.9 |
| abr | 12 | 2458951.75 | 2 | 14 | 31.65 | +13 | 1 | 27.52 | 20.7815 | 12.8 |
| abr | 13 | 2458952.75 | 2 | 14 | 44.76 | +13 | 2 | 35.50 | 20.7853 | 12.8 |
| abr | 14 | 2458953.75 | 2 | 14 | 57.92 | +13 | 3 | 43.62 | 20.7889 | 12.7 |
| abr | 15 | 2458954.75 | 2 | 15 | 11.11 | +13 | 4 | 51.85 | 20.7922 | 12.7 |
| abr | 16 | 2458955.75 | 2 | 15 | 24.33 | +13 | 6 | 0.16 | 20.7952 | 12.6 |
| abr | 17 | 2458956.75 | 2 | 15 | 37.57 | +13 | 7 | 8.55 | 20.7980 | 12.5 |
| abr | 18 | 2458957.75 | 2 | 15 | 50.85 | +13 | 8 | 16.98 | 20.8004 | 12.5 |
| abr | 19 | 2458958.75 | 2 | 16 | 4.14 | +13 | 9 | 25.46 | 20.8027 | 12.4 |
| abr | 20 | 2458959.75 | 2 | 16 | 17.46 | +13 | 10 | 33.96 | 20.8046 | 12.4 |
| abr | 21 | 2458960.75 | 2 | 16 | 30.80 | +13 | 11 | 42.47 | 20.8063 | 12.3 |
| abr | 22 | 2458961.75 | 2 | 16 | 44.15 | +13 | 12 | 50.98 | 20.8077 | 12.2 |
| abr | 23 | 2458962.75 | 2 | 16 | 57.52 | +13 | 13 | 59.49 | 20.8088 | 12.2 |
| abr | 24 | 2458963.75 | 2 | 17 | 10.91 | +13 | 15 | 7.98 | 20.8097 | 12.1 |
| abr | 25 | 2458964.75 | 2 | 17 | 24.31 | +13 | 16 | 16.39 | 20.8102 | 12.0 |
| abr | 26 | 2458965.75 | 2 | 17 | 37.72 | +13 | 17 | 24.04 | 20.8105 | 12.0 |
| abr | 27 | 2458966.75 | 2 | 17 | 51.07 | +13 | 18 | 32.87 | 20.8106 | 11.9 |
| abr | 28 | 2458967.75 | 2 | 18 | 4.49 | +13 | 19 | 41.41 | 20.8103 | 11.9 |
| abr | 29 | 2458968.75 | 2 | 18 | 17.90 | +13 | 20 | 49.71 | 20.8098 | 11.8 |
| abr | 30 | 2458969.75 | 2 | 18 | 31.30 | +13 | 21 | 57.87 | 20.8090 | 11.7 |
| may | 1 | 2458970.75 | 2 | 18 | 44.68 | +13 | 23 | 5.90 | 20.8080 | 11.7 |
| may | 2 | 2458971.75 | 2 | 18 | 58.06 | +13 | 24 | 13.78 | 20.8067 | 11.6 |
| may | 3 | 2458972.75 | 2 | 19 | 11.41 | +13 | 25 | 21.48 | 20.8051 | 11.5 |
| may | 4 | 2458973.75 | 2 | 19 | 24.75 | +13 | 26 | 29.00 | 20.8032 | 11.5 |
| may | 5 | 2458974.75 | 2 | 19 | 38.07 | +13 | 27 | 36.33 | 20.8011 | 11.4 |
| may | 6 | 2458975.75 | 2 | 19 | 51.37 | +13 | 28 | 43.46 | 20.7987 | 11.4 |
| may | 7 | 2458976.75 | 2 | 20 | 4.65 | +13 | 29 | 50.39 | 20.7960 | 11.3 |
| may | 8 | 2458977.75 | 2 | 20 | 17.90 | +13 | 30 | 57.14 | 20.7931 | 11.2 |
| may | 9 | 2458978.75 | 2 | 20 | 31.14 | +13 | 32 | 3.69 | 20.7899 | 11.2 |
| may | 10 | 2458979.75 | 2 | 20 | 44.34 | +13 | 33 | 10.04 | 20.7864 | 11.1 |
| may | 11 | 2458980.75 | 2 | 20 | 57.51 | +13 | 34 | 16.16 | 20.7827 | 11.1 |
| may | 12 | 2458981.75 | 2 | 21 | 10.65 | +13 | 35 | 22.03 | 20.7787 | 11.0 |
| may | 13 | 2458982.75 | 2 | 21 | 23.75 | +13 | 36 | 27.64 | 20.7745 | 10.9 |
| may | 14 | 2458983.75 | 2 | 21 | 36.80 | +13 | 37 | 32.97 | 20.7700 | 10.9 |
| may | 15 | 2458984.75 | 2 | 21 | 49.80 | +13 | 38 | 37.99 | 20.7652 | 10.8 |
| may | 16 | 2458985.75 | 2 | 22 | 2.76 | +13 | 39 | 42.69 | 20.7602 | 10.7 |
| may | 17 | 2458986.75 | 2 | 22 | 15.67 | +13 | 40 | 47.07 | 20.7550 | 10.7 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 2 | 22 | 28.53 | +13 | 41 | 51.11 | 20.7494 | 10.6 |
| may | 19 | 2458988.75 | 2 | 22 | 41.34 | +13 | 42 | 54.80 | 20.7436 | 10.6 |
| may | 20 | 2458989.75 | 2 | 22 | 54.09 | +13 | 43 | 58.15 | 20.7376 | 10.5 |
| may | 21 | 2458990.75 | 2 | 23 | 6.78 | +13 | 45 | 1.13 | 20.7313 | 10.4 |
| may | 22 | 2458991.75 | 2 | 23 | 19.42 | +13 | 46 | 3.74 | 20.7248 | 10.4 |
| may | 23 | 2458992.75 | 2 | 23 | 31.99 | +13 | 47 | 5.98 | 20.7180 | 10.3 |
| may | 24 | 2458993.75 | 2 | 23 | 44.50 | +13 | 48 | 7.84 | 20.7109 | 10.2 |
| may | 25 | 2458994.75 | 2 | 23 | 56.94 | +13 | 49 | 9.30 | 20.7037 | 10.2 |
| may | 26 | 2458995.75 | 2 | 24 | 9.31 | +13 | 50 | 10.35 | 20.6961 | 10.1 |
| may | 27 | 2458996.75 | 2 | 24 | 21.60 | +13 | 51 | 10.97 | 20.6884 | 10.1 |
| may | 28 | 2458997.75 | 2 | 24 | 33.82 | +13 | 52 | 11.14 | 20.6804 | 10.0 |
| may | 29 | 2458998.75 | 2 | 24 | 45.95 | +13 | 53 | 10.84 | 20.6721 | 9.9 |
| may | 30 | 2458999.75 | 2 | 24 | 58.00 | +13 | 54 | 10.05 | 20.6637 | 9.9 |
| may | 31 | 2459000.75 | 2 | 25 | 9.96 | +13 | 55 | 8.76 | 20.6550 | 9.8 |
| jun | 1 | 2459001.75 | 2 | 25 | 21.83 | +13 | 56 | 6.95 | 20.6460 | 9.7 |
| jun | 2 | 2459002.75 | 2 | 25 | 33.61 | +13 | 57 | 4.62 | 20.6369 | 9.7 |
| jun | 3 | 2459003.75 | 2 | 25 | 45.31 | +13 | 58 | 1.79 | 20.6275 | 9.6 |
| jun | 4 | 2459004.75 | 2 | 25 | 56.92 | +13 | 58 | 58.44 | 20.6179 | 9.6 |
| jun | 5 | 2459005.75 | 2 | 26 | 8.43 | +13 | 59 | 54.59 | 20.6081 | 9.5 |
| jun | 6 | 2459006.75 | 2 | 26 | 19.85 | +14 | 0 | 50.22 | 20.5980 | 9.4 |
| jun | 7 | 2459007.75 | 2 | 26 | 31.18 | +14 | 1 | 45.33 | 20.5878 | 9.4 |
| jun | 8 | 2459008.75 | 2 | 26 | 42.40 | +14 | 2 | 39.89 | 20.5773 | 9.3 |
| jun | 9 | 2459009.75 | 2 | 26 | 53.52 | +14 | 3 | 33.90 | 20.5667 | 9.2 |
| jun | 10 | 2459010.75 | 2 | 27 | 4.52 | +14 | 4 | 27.32 | 20.5558 | 9.2 |
| jun | 11 | 2459011.75 | 2 | 27 | 15.42 | +14 | 5 | 20.14 | 20.5447 | 9.1 |
| jun | 12 | 2459012.75 | 2 | 27 | 26.21 | +14 | 6 | 12.36 | 20.5334 | 9.1 |
| jun | 13 | 2459013.75 | 2 | 27 | 36.87 | +14 | 7 | 3.96 | 20.5219 | 9.0 |
| jun | 14 | 2459014.75 | 2 | 27 | 47.43 | +14 | 7 | 54.93 | 20.5103 | 8.9 |
| jun | 15 | 2459015.75 | 2 | 27 | 57.86 | +14 | 8 | 45.27 | 20.4984 | 8.9 |
| jun | 16 | 2459016.75 | 2 | 28 | 8.18 | +14 | 9 | 34.97 | 20.4863 | 8.8 |
| jun | 17 | 2459017.75 | 2 | 28 | 18.38 | +14 | 10 | 24.03 | 20.4741 | 8.7 |
| jun | 18 | 2459018.75 | 2 | 28 | 28.46 | +14 | 11 | 12.44 | 20.4616 | 8.7 |
| jun | 19 | 2459019.75 | 2 | 28 | 38.41 | +14 | 12 | 0.21 | 20.4490 | 8.6 |
| jun | 20 | 2459020.75 | 2 | 28 | 48.24 | +14 | 12 | 47.32 | 20.4362 | 8.6 |
| jun | 21 | 2459021.75 | 2 | 28 | 57.93 | +14 | 13 | 33.77 | 20.4232 | 8.5 |
| jun | 22 | 2459022.75 | 2 | 29 | 7.50 | +14 | 14 | 19.54 | 20.4101 | 8.4 |
| jun | 23 | 2459023.75 | 2 | 29 | 16.93 | +14 | 15 | 4.62 | 20.3968 | 8.4 |
| jun | 24 | 2459024.75 | 2 | 29 | 26.22 | +14 | 15 | 49.00 | 20.3833 | 8.3 |
| jun | 25 | 2459025.75 | 2 | 29 | 35.36 | +14 | 16 | 32.65 | 20.3697 | 8.2 |
| jun | 26 | 2459026.75 | 2 | 29 | 44.37 | +14 | 17 | 15.55 | 20.3559 | 8.2 |
| jun | 27 | 2459027.75 | 2 | 29 | 53.22 | +14 | 17 | 57.70 | 20.3419 | 8.1 |
| jun | 28 | 2459028.75 | 2 | 30 | 1.93 | +14 | 18 | 39.09 | 20.3278 | 8.0 |
| jun | 29 | 2459029.75 | 2 | 30 | 10.49 | +14 | 19 | 19.71 | 20.3135 | 8.0 |
| jun | 30 | 2459030.75 | 2 | 30 | 18.91 | +14 | 19 | 59.57 | 20.2992 | 7.9 |
| jul | 1 | 2459031.75 | 2 | 30 | 27.18 | +14 | 20 | 38.67 | 20.2846 | 7.9 |
| jul | 2 | 2459032.75 | 2 | 30 | 35.30 | +14 | 21 | 17.03 | 20.2700 | 7.8 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 2 | 30 | 43.27 | +14 | 21 | 54.63 | 20.2552 | 7.7 |
| jul | 4 | 2459034.75 | 2 | 30 | 51.09 | +14 | 22 | 31.49 | 20.2402 | 7.7 |
| jul | 5 | 2459035.75 | 2 | 30 | 58.76 | +14 | 23 | 7.57 | 20.2252 | 7.6 |
| jul | 6 | 2459036.75 | 2 | 31 | 6.26 | +14 | 23 | 42.87 | 20.2100 | 7.5 |
| jul | 7 | 2459037.75 | 2 | 31 | 13.60 | +14 | 24 | 17.38 | 20.1947 | 7.5 |
| jul | 8 | 2459038.75 | 2 | 31 | 20.78 | +14 | 24 | 51.07 | 20.1793 | 7.4 |
| jul | 9 | 2459039.75 | 2 | 31 | 27.79 | +14 | 25 | 23.94 | 20.1638 | 7.3 |
| jul | 10 | 2459040.75 | 2 | 31 | 34.64 | +14 | 25 | 55.98 | 20.1482 | 7.3 |
| jul | 11 | 2459041.75 | 2 | 31 | 41.32 | +14 | 26 | 27.18 | 20.1325 | 7.2 |
| jul | 12 | 2459042.75 | 2 | 31 | 47.83 | +14 | 26 | 57.54 | 20.1167 | 7.2 |
| jul | 13 | 2459043.75 | 2 | 31 | 54.17 | +14 | 27 | 27.06 | 20.1008 | 7.1 |
| jul | 14 | 2459044.75 | 2 | 32 | 0.34 | +14 | 27 | 55.74 | 20.0848 | 7.0 |
| jul | 15 | 2459045.75 | 2 | 32 | 6.35 | +14 | 28 | 23.58 | 20.0687 | 7.0 |
| jul | 16 | 2459046.75 | 2 | 32 | 12.18 | +14 | 28 | 50.58 | 20.0525 | 6.9 |
| jul | 17 | 2459047.75 | 2 | 32 | 17.84 | +14 | 29 | 16.74 | 20.0363 | 6.8 |
| jul | 18 | 2459048.75 | 2 | 32 | 23.32 | +14 | 29 | 42.05 | 20.0199 | 6.8 |
| jul | 19 | 2459049.75 | 2 | 32 | 28.63 | +14 | 30 | 6.50 | 20.0035 | 6.7 |
| jul | 20 | 2459050.75 | 2 | 32 | 33.75 | +14 | 30 | 30.10 | 19.9871 | 6.6 |
| jul | 21 | 2459051.75 | 2 | 32 | 38.70 | +14 | 30 | 52.81 | 19.9706 | 6.6 |
| jul | 22 | 2459052.75 | 2 | 32 | 43.46 | +14 | 31 | 14.64 | 19.9540 | 6.5 |
| jul | 23 | 2459053.75 | 2 | 32 | 48.03 | +14 | 31 | 35.56 | 19.9374 | 6.5 |
| jul | 24 | 2459054.75 | 2 | 32 | 52.41 | +14 | 31 | 55.56 | 19.9207 | 6.4 |
| jul | 25 | 2459055.75 | 2 | 32 | 56.61 | +14 | 32 | 14.64 | 19.9040 | 6.3 |
| jul | 26 | 2459056.75 | 2 | 33 | 0.62 | +14 | 32 | 32.80 | 19.8872 | 6.3 |
| jul | 27 | 2459057.75 | 2 | 33 | 4.44 | +14 | 32 | 50.05 | 19.8705 | 6.2 |
| jul | 28 | 2459058.75 | 2 | 33 | 8.08 | +14 | 33 | 6.39 | 19.8537 | 6.1 |
| jul | 29 | 2459059.75 | 2 | 33 | 11.53 | +14 | 33 | 21.84 | 19.8368 | 6.1 |
| jul | 30 | 2459060.75 | 2 | 33 | 14.80 | +14 | 33 | 36.41 | 19.8200 | 6.0 |
| jul | 31 | 2459061.75 | 2 | 33 | 17.89 | +14 | 33 | 50.09 | 19.8031 | 5.9 |
| ago | 1 | 2459062.75 | 2 | 33 | 20.78 | +14 | 34 | 2.87 | 19.7863 | 5.9 |
| ago | 2 | 2459063.75 | 2 | 33 | 23.48 | +14 | 34 | 14.76 | 19.7694 | 5.8 |
| ago | 3 | 2459064.75 | 2 | 33 | 25.99 | +14 | 34 | 25.73 | 19.7525 | 5.7 |
| ago | 4 | 2459065.75 | 2 | 33 | 28.31 | +14 | 34 | 35.78 | 19.7356 | 5.7 |
| ago | 5 | 2459066.75 | 2 | 33 | 30.43 | +14 | 34 | 44.90 | 19.7188 | 5.6 |
| ago | 6 | 2459067.75 | 2 | 33 | 32.35 | +14 | 34 | 53.08 | 19.7019 | 5.5 |
| ago | 7 | 2459068.75 | 2 | 33 | 34.08 | +14 | 35 | 0.33 | 19.6851 | 5.5 |
| ago | 8 | 2459069.75 | 2 | 33 | 35.62 | +14 | 35 | 6.65 | 19.6683 | 5.4 |
| ago | 9 | 2459070.75 | 2 | 33 | 36.96 | +14 | 35 | 12.03 | 19.6515 | 5.3 |
| ago | 10 | 2459071.75 | 2 | 33 | 38.11 | +14 | 35 | 16.49 | 19.6347 | 5.3 |
| ago | 11 | 2459072.75 | 2 | 33 | 39.07 | +14 | 35 | 20.03 | 19.6180 | 5.2 |
| ago | 12 | 2459073.75 | 2 | 33 | 39.84 | +14 | 35 | 22.65 | 19.6013 | 5.2 |
| ago | 13 | 2459074.75 | 2 | 33 | 40.41 | +14 | 35 | 24.36 | 19.5847 | 5.1 |
| ago | 14 | 2459075.75 | 2 | 33 | 40.79 | +14 | 35 | 25.15 | 19.5681 | 5.0 |
| ago | 15 | 2459076.75 | 2 | 33 | 40.98 | +14 | 35 | 25.04 | 19.5516 | 5.0 |
| ago | 16 | 2459077.75 | 2 | 33 | 40.97 | +14 | 35 | 24.02 | 19.5351 | 4.9 |
| ago | 17 | 2459078.75 | 2 | 33 | 40.76 | +14 | 35 | 22.07 | 19.5187 | 4.8 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 2 | 33 | 40.36 | +14 | 35 | 19.21 | 19.5024 | 4.8 |
| ago | 19 | 2459080.75 | 2 | 33 | 39.76 | +14 | 35 | 15.40 | 19.4861 | 4.7 |
| ago | 20 | 2459081.75 | 2 | 33 | 38.96 | +14 | 35 | 10.65 | 19.4699 | 4.6 |
| ago | 21 | 2459082.75 | 2 | 33 | 37.96 | +14 | 35 | 4.95 | 19.4538 | 4.6 |
| ago | 22 | 2459083.75 | 2 | 33 | 36.76 | +14 | 34 | 58.31 | 19.4378 | 4.5 |
| ago | 23 | 2459084.75 | 2 | 33 | 35.38 | +14 | 34 | 50.74 | 19.4219 | 4.4 |
| ago | 24 | 2459085.75 | 2 | 33 | 33.80 | +14 | 34 | 42.26 | 19.4061 | 4.4 |
| ago | 25 | 2459086.75 | 2 | 33 | 32.04 | +14 | 34 | 32.89 | 19.3903 | 4.3 |
| ago | 26 | 2459087.75 | 2 | 33 | 30.09 | +14 | 34 | 22.64 | 19.3747 | 4.2 |
| ago | 27 | 2459088.75 | 2 | 33 | 27.96 | +14 | 34 | 11.52 | 19.3593 | 4.2 |
| ago | 28 | 2459089.75 | 2 | 33 | 25.64 | +14 | 33 | 59.52 | 19.3439 | 4.1 |
| ago | 29 | 2459090.75 | 2 | 33 | 23.13 | +14 | 33 | 46.66 | 19.3286 | 4.0 |
| ago | 30 | 2459091.75 | 2 | 33 | 20.43 | +14 | 33 | 32.91 | 19.3135 | 4.0 |
| ago | 31 | 2459092.75 | 2 | 33 | 17.54 | +14 | 33 | 18.29 | 19.2985 | 3.9 |
| sep | 1 | 2459093.75 | 2 | 33 | 14.47 | +14 | 33 | 2.79 | 19.2837 | 3.8 |
| sep | 2 | 2459094.75 | 2 | 33 | 11.21 | +14 | 32 | 46.41 | 19.2689 | 3.8 |
| sep | 3 | 2459095.75 | 2 | 33 | 7.77 | +14 | 32 | 29.15 | 19.2544 | 3.7 |
| sep | 4 | 2459096.75 | 2 | 33 | 4.15 | +14 | 32 | 11.03 | 19.2399 | 3.6 |
| sep | 5 | 2459097.75 | 2 | 33 | 0.34 | +14 | 31 | 52.05 | 19.2257 | 3.6 |
| sep | 6 | 2459098.75 | 2 | 32 | 56.37 | +14 | 31 | 32.23 | 19.2116 | 3.5 |
| sep | 7 | 2459099.75 | 2 | 32 | 52.21 | +14 | 31 | 11.58 | 19.1976 | 3.4 |
| sep | 8 | 2459100.75 | 2 | 32 | 47.89 | +14 | 30 | 50.10 | 19.1838 | 3.4 |
| sep | 9 | 2459101.75 | 2 | 32 | 43.39 | +14 | 30 | 27.82 | 19.1702 | 3.3 |
| sep | 10 | 2459102.75 | 2 | 32 | 38.72 | +14 | 30 | 4.74 | 19.1567 | 3.2 |
| sep | 11 | 2459103.75 | 2 | 32 | 33.89 | +14 | 29 | 40.87 | 19.1435 | 3.2 |
| sep | 12 | 2459104.75 | 2 | 32 | 28.89 | +14 | 29 | 16.21 | 19.1304 | 3.1 |
| sep | 13 | 2459105.75 | 2 | 32 | 23.72 | +14 | 28 | 50.78 | 19.1175 | 3.0 |
| sep | 14 | 2459106.75 | 2 | 32 | 18.38 | +14 | 28 | 24.57 | 19.1048 | 3.0 |
| sep | 15 | 2459107.75 | 2 | 32 | 12.88 | +14 | 27 | 57.58 | 19.0923 | 2.9 |
| sep | 16 | 2459108.75 | 2 | 32 | 7.21 | +14 | 27 | 29.81 | 19.0800 | 2.8 |
| sep | 17 | 2459109.75 | 2 | 32 | 1.38 | +14 | 27 | 1.25 | 19.0679 | 2.8 |
| sep | 18 | 2459110.75 | 2 | 31 | 55.39 | +14 | 26 | 31.93 | 19.0560 | 2.7 |
| sep | 19 | 2459111.75 | 2 | 31 | 49.25 | +14 | 26 | 1.86 | 19.0443 | 2.6 |
| sep | 20 | 2459112.75 | 2 | 31 | 42.96 | +14 | 25 | 31.06 | 19.0328 | 2.6 |
| sep | 21 | 2459113.75 | 2 | 31 | 36.53 | +14 | 24 | 59.57 | 19.0216 | 2.5 |
| sep | 22 | 2459114.75 | 2 | 31 | 29.95 | +14 | 24 | 27.40 | 19.0106 | 2.4 |
| sep | 23 | 2459115.75 | 2 | 31 | 23.24 | +14 | 23 | 54.58 | 18.9998 | 2.4 |
| sep | 24 | 2459116.75 | 2 | 31 | 16.39 | +14 | 23 | 21.12 | 18.9892 | 2.3 |
| sep | 25 | 2459117.75 | 2 | 31 | 9.40 | +14 | 22 | 47.01 | 18.9789 | 2.2 |
| sep | 26 | 2459118.75 | 2 | 31 | 2.27 | +14 | 22 | 12.27 | 18.9688 | 2.2 |
| sep | 27 | 2459119.75 | 2 | 30 | 55.02 | +14 | 21 | 36.91 | 18.9590 | 2.1 |
| sep | 28 | 2459120.75 | 2 | 30 | 47.63 | +14 | 21 | 0.92 | 18.9494 | 2.0 |
| sep | 29 | 2459121.75 | 2 | 30 | 40.11 | +14 | 20 | 24.32 | 18.9401 | 1.9 |
| sep | 30 | 2459122.75 | 2 | 30 | 32.47 | +14 | 19 | 47.12 | 18.9310 | 1.9 |
| oct | 1 | 2459123.75 | 2 | 30 | 24.71 | +14 | 19 | 9.34 | 18.9221 | 1.8 |
| oct | 2 | 2459124.75 | 2 | 30 | 16.83 | +14 | 18 | 30.99 | 18.9135 | 1.7 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 2 | 30 | 8.84 | +14 | 17 | 52.09 | 18.9052 | 1.7 |
| oct | 4 | 2459126.75 | 2 | 30 | 0.74 | +14 | 17 | 12.67 | 18.8972 | 1.6 |
| oct | 5 | 2459127.75 | 2 | 29 | 52.54 | +14 | 16 | 32.74 | 18.8894 | 1.5 |
| oct | 6 | 2459128.75 | 2 | 29 | 44.24 | +14 | 15 | 52.33 | 18.8818 | 1.5 |
| oct | 7 | 2459129.75 | 2 | 29 | 35.84 | +14 | 15 | 11.45 | 18.8746 | 1.4 |
| oct | 8 | 2459130.75 | 2 | 29 | 27.35 | +14 | 14 | 30.12 | 18.8676 | 1.3 |
| oct | 9 | 2459131.75 | 2 | 29 | 18.76 | +14 | 13 | 48.35 | 18.8609 | 1.3 |
| oct | 10 | 2459132.75 | 2 | 29 | 10.08 | +14 | 13 | 6.16 | 18.8545 | 1.2 |
| oct | 11 | 2459133.75 | 2 | 29 | 1.32 | +14 | 12 | 23.56 | 18.8483 | 1.1 |
| oct | 12 | 2459134.75 | 2 | 28 | 52.46 | +14 | 11 | 40.56 | 18.8425 | 1.1 |
| oct | 13 | 2459135.75 | 2 | 28 | 43.53 | +14 | 10 | 57.16 | 18.8369 | 1.0 |
| oct | 14 | 2459136.75 | 2 | 28 | 34.52 | +14 | 10 | 13.37 | 18.8316 | 0.9 |
| oct | 15 | 2459137.75 | 2 | 28 | 25.43 | +14 | 9 | 29.20 | 18.8266 | 0.9 |
| oct | 16 | 2459138.75 | 2 | 28 | 16.28 | +14 | 8 | 44.69 | 18.8219 | 0.8 |
| oct | 17 | 2459139.75 | 2 | 28 | 7.06 | +14 | 7 | 59.85 | 18.8175 | 0.7 |
| oct | 18 | 2459140.75 | 2 | 27 | 57.79 | +14 | 7 | 14.73 | 18.8134 | 0.7 |
| oct | 19 | 2459141.75 | 2 | 27 | 48.47 | +14 | 6 | 29.36 | 18.8096 | 0.6 |
| oct | 20 | 2459142.75 | 2 | 27 | 39.10 | +14 | 5 | 43.77 | 18.8061 | 0.5 |
| oct | 21 | 2459143.75 | 2 | 27 | 29.69 | +14 | 4 | 57.97 | 18.8029 | 0.4 |
| oct | 22 | 2459144.75 | 2 | 27 | 20.23 | +14 | 4 | 11.99 | 18.8000 | 0.4 |
| oct | 23 | 2459145.75 | 2 | 27 | 10.74 | +14 | 3 | 25.82 | 18.7974 | 0.3 |
| oct | 24 | 2459146.75 | 2 | 27 | 1.20 | +14 | 2 | 39.49 | 18.7951 | 0.2 |
| oct | 25 | 2459147.75 | 2 | 26 | 51.64 | +14 | 1 | 53.01 | 18.7931 | 0.2 |
| oct | 26 | 2459148.75 | 2 | 26 | 42.05 | +14 | 1 | 6.38 | 18.7914 | 0.1 |
| oct | 27 | 2459149.75 | 2 | 26 | 32.43 | +14 | 0 | 19.63 | 18.7900 | 0.0 |
| oct | 28 | 2459150.75 | 2 | 26 | 22.80 | +13 | 59 | 32.78 | 18.7890 | 24.0 |
| oct | 29 | 2459151.75 | 2 | 26 | 13.15 | +13 | 58 | 45.85 | 18.7882 | 23.9 |
| oct | 30 | 2459152.75 | 2 | 26 | 3.49 | +13 | 57 | 58.87 | 18.7877 | 23.8 |
| oct | 31 | 2459153.75 | 2 | 25 | 53.83 | +13 | 57 | 11.87 | 18.7876 | 23.8 |
| nov | 1 | 2459154.75 | 2 | 25 | 44.17 | +13 | 56 | 24.86 | 18.7878 | 23.7 |
| nov | 2 | 2459155.75 | 2 | 25 | 34.51 | +13 | 55 | 37.87 | 18.7882 | 23.6 |
| nov | 3 | 2459156.75 | 2 | 25 | 24.87 | +13 | 54 | 50.94 | 18.7890 | 23.6 |
| nov | 4 | 2459157.75 | 2 | 25 | 15.23 | +13 | 54 | 4.07 | 18.7901 | 23.5 |
| nov | 5 | 2459158.75 | 2 | 25 | 5.62 | +13 | 53 | 17.29 | 18.7915 | 23.4 |
| nov | 6 | 2459159.75 | 2 | 24 | 56.02 | +13 | 52 | 30.61 | 18.7932 | 23.4 |
| nov | 7 | 2459160.75 | 2 | 24 | 46.44 | +13 | 51 | 44.06 | 18.7952 | 23.3 |
| nov | 8 | 2459161.75 | 2 | 24 | 36.89 | +13 | 50 | 57.64 | 18.7975 | 23.2 |
| nov | 9 | 2459162.75 | 2 | 24 | 27.37 | +13 | 50 | 11.36 | 18.8001 | 23.1 |
| nov | 10 | 2459163.75 | 2 | 24 | 17.88 | +13 | 49 | 25.24 | 18.8031 | 23.1 |
| nov | 11 | 2459164.75 | 2 | 24 | 8.42 | +13 | 48 | 39.29 | 18.8063 | 23.0 |
| nov | 12 | 2459165.75 | 2 | 23 | 59.01 | +13 | 47 | 53.53 | 18.8098 | 22.9 |
| nov | 13 | 2459166.75 | 2 | 23 | 49.65 | +13 | 47 | 8.00 | 18.8137 | 22.9 |
| nov | 14 | 2459167.75 | 2 | 23 | 40.34 | +13 | 46 | 22.73 | 18.8178 | 22.8 |
| nov | 15 | 2459168.75 | 2 | 23 | 31.10 | +13 | 45 | 37.75 | 18.8223 | 22.7 |
| nov | 16 | 2459169.75 | 2 | 23 | 21.92 | +13 | 44 | 53.10 | 18.8271 | 22.7 |
| nov | 17 | 2459170.75 | 2 | 23 | 12.81 | +13 | 44 | 8.80 | 18.8321 | 22.6 |

Urano, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|---|---------------|-------|-----|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 2 | 23 | 3.77 | +13 | 43 | 24.88 | 18.8375 | 22.5 |
| nov | 19 | 2459172.75 | 2 | 22 | 54.80 | +13 | 42 | 41.34 | 18.8431 | 22.5 |
| nov | 20 | 2459173.75 | 2 | 22 | 45.91 | +13 | 41 | 58.19 | 18.8491 | 22.4 |
| nov | 21 | 2459174.75 | 2 | 22 | 37.10 | +13 | 41 | 15.44 | 18.8553 | 22.3 |
| nov | 22 | 2459175.75 | 2 | 22 | 28.37 | +13 | 40 | 33.11 | 18.8618 | 22.3 |
| nov | 23 | 2459176.75 | 2 | 22 | 19.73 | +13 | 39 | 51.21 | 18.8687 | 22.2 |
| nov | 24 | 2459177.75 | 2 | 22 | 11.18 | +13 | 39 | 9.76 | 18.8758 | 22.1 |
| nov | 25 | 2459178.75 | 2 | 22 | 2.73 | +13 | 38 | 28.79 | 18.8831 | 22.1 |
| nov | 26 | 2459179.75 | 2 | 21 | 54.37 | +13 | 37 | 48.31 | 18.8908 | 22.0 |
| nov | 27 | 2459180.75 | 2 | 21 | 46.13 | +13 | 37 | 8.36 | 18.8987 | 21.9 |
| nov | 28 | 2459181.75 | 2 | 21 | 37.99 | +13 | 36 | 28.95 | 18.9069 | 21.9 |
| nov | 29 | 2459182.75 | 2 | 21 | 29.96 | +13 | 35 | 50.10 | 18.9154 | 21.8 |
| nov | 30 | 2459183.75 | 2 | 21 | 22.06 | +13 | 35 | 11.85 | 18.9242 | 21.7 |
| dic | 1 | 2459184.75 | 2 | 21 | 14.27 | +13 | 34 | 34.21 | 18.9332 | 21.7 |
| dic | 2 | 2459185.75 | 2 | 21 | 6.60 | +13 | 33 | 57.19 | 18.9424 | 21.6 |
| dic | 3 | 2459186.75 | 2 | 20 | 59.06 | +13 | 33 | 20.81 | 18.9520 | 21.5 |
| dic | 4 | 2459187.75 | 2 | 20 | 51.64 | +13 | 32 | 45.07 | 18.9618 | 21.4 |
| dic | 5 | 2459188.75 | 2 | 20 | 44.36 | +13 | 32 | 10.00 | 18.9718 | 21.4 |
| dic | 6 | 2459189.75 | 2 | 20 | 37.20 | +13 | 31 | 35.59 | 18.9821 | 21.3 |
| dic | 7 | 2459190.75 | 2 | 20 | 30.18 | +13 | 31 | 1.86 | 18.9927 | 21.2 |
| dic | 8 | 2459191.75 | 2 | 20 | 23.29 | +13 | 30 | 28.81 | 19.0034 | 21.2 |
| dic | 9 | 2459192.75 | 2 | 20 | 16.54 | +13 | 29 | 56.46 | 19.0145 | 21.1 |
| dic | 10 | 2459193.75 | 2 | 20 | 9.94 | +13 | 29 | 24.83 | 19.0257 | 21.0 |
| dic | 11 | 2459194.75 | 2 | 20 | 3.49 | +13 | 28 | 53.95 | 19.0372 | 21.0 |
| dic | 12 | 2459195.75 | 2 | 19 | 57.20 | +13 | 28 | 23.84 | 19.0490 | 20.9 |
| dic | 13 | 2459196.75 | 2 | 19 | 51.07 | +13 | 27 | 54.54 | 19.0609 | 20.8 |
| dic | 14 | 2459197.75 | 2 | 19 | 45.09 | +13 | 27 | 26.07 | 19.0731 | 20.8 |
| dic | 15 | 2459198.75 | 2 | 19 | 39.29 | +13 | 26 | 58.44 | 19.0855 | 20.7 |
| dic | 16 | 2459199.75 | 2 | 19 | 33.64 | +13 | 26 | 31.66 | 19.0981 | 20.6 |
| dic | 17 | 2459200.75 | 2 | 19 | 28.16 | +13 | 26 | 5.73 | 19.1109 | 20.6 |
| dic | 18 | 2459201.75 | 2 | 19 | 22.84 | +13 | 25 | 40.65 | 19.1240 | 20.5 |
| dic | 19 | 2459202.75 | 2 | 19 | 17.69 | +13 | 25 | 16.42 | 19.1372 | 20.4 |
| dic | 20 | 2459203.75 | 2 | 19 | 12.71 | +13 | 24 | 53.06 | 19.1506 | 20.4 |
| dic | 21 | 2459204.75 | 2 | 19 | 7.91 | +13 | 24 | 30.57 | 19.1642 | 20.3 |
| dic | 22 | 2459205.75 | 2 | 19 | 3.28 | +13 | 24 | 8.96 | 19.1780 | 20.2 |
| dic | 23 | 2459206.75 | 2 | 18 | 58.83 | +13 | 23 | 48.26 | 19.1920 | 20.2 |
| dic | 24 | 2459207.75 | 2 | 18 | 54.56 | +13 | 23 | 28.47 | 19.2061 | 20.1 |
| dic | 25 | 2459208.75 | 2 | 18 | 50.47 | +13 | 23 | 9.61 | 19.2205 | 20.0 |
| dic | 26 | 2459209.75 | 2 | 18 | 46.57 | +13 | 22 | 51.70 | 19.2349 | 20.0 |
| dic | 27 | 2459210.75 | 2 | 18 | 42.86 | +13 | 22 | 34.74 | 19.2496 | 19.9 |
| dic | 28 | 2459211.75 | 2 | 18 | 39.34 | +13 | 22 | 18.76 | 19.2644 | 19.8 |
| dic | 29 | 2459212.75 | 2 | 18 | 36.01 | +13 | 22 | 3.74 | 19.2794 | 19.8 |
| dic | 30 | 2459213.75 | 2 | 18 | 32.87 | +13 | 21 | 49.71 | 19.2945 | 19.7 |
| dic | 31 | 2459214.75 | 2 | 18 | 29.91 | +13 | 21 | 36.67 | 19.3097 | 19.6 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| ene | 1 | 2458849.75 | 23 | 11 | 3.59 | -6 | 21 | 46.24 | 30.3193 | 16.5 |
| ene | 2 | 2458850.75 | 23 | 11 | 7.93 | -6 | 21 | 17.49 | 30.3351 | 16.4 |
| ene | 3 | 2458851.75 | 23 | 11 | 12.37 | -6 | 20 | 48.05 | 30.3507 | 16.4 |
| ene | 4 | 2458852.75 | 23 | 11 | 16.92 | -6 | 20 | 17.91 | 30.3663 | 16.3 |
| ene | 5 | 2458853.75 | 23 | 11 | 21.59 | -6 | 19 | 47.10 | 30.3817 | 16.2 |
| ene | 6 | 2458854.75 | 23 | 11 | 26.37 | -6 | 19 | 15.59 | 30.3969 | 16.2 |
| ene | 7 | 2458855.75 | 23 | 11 | 31.25 | -6 | 18 | 43.42 | 30.4120 | 16.1 |
| ene | 8 | 2458856.75 | 23 | 11 | 36.25 | -6 | 18 | 10.57 | 30.4270 | 16.0 |
| ene | 9 | 2458857.75 | 23 | 11 | 41.35 | -6 | 17 | 37.07 | 30.4418 | 16.0 |
| ene | 10 | 2458858.75 | 23 | 11 | 46.56 | -6 | 17 | 2.93 | 30.4565 | 15.9 |
| ene | 11 | 2458859.75 | 23 | 11 | 51.87 | -6 | 16 | 28.17 | 30.4710 | 15.8 |
| ene | 12 | 2458860.75 | 23 | 11 | 57.28 | -6 | 15 | 52.81 | 30.4853 | 15.8 |
| ene | 13 | 2458861.75 | 23 | 12 | 2.78 | -6 | 15 | 16.87 | 30.4995 | 15.7 |
| ene | 14 | 2458862.75 | 23 | 12 | 8.38 | -6 | 14 | 40.35 | 30.5135 | 15.7 |
| ene | 15 | 2458863.75 | 23 | 12 | 14.08 | -6 | 14 | 3.25 | 30.5273 | 15.6 |
| ene | 16 | 2458864.75 | 23 | 12 | 19.87 | -6 | 13 | 25.57 | 30.5409 | 15.5 |
| ene | 17 | 2458865.75 | 23 | 12 | 25.75 | -6 | 12 | 47.32 | 30.5544 | 15.5 |
| ene | 18 | 2458866.75 | 23 | 12 | 31.73 | -6 | 12 | 8.47 | 30.5676 | 15.4 |
| ene | 19 | 2458867.75 | 23 | 12 | 37.80 | -6 | 11 | 29.05 | 30.5807 | 15.3 |
| ene | 20 | 2458868.75 | 23 | 12 | 43.97 | -6 | 10 | 49.06 | 30.5936 | 15.3 |
| ene | 21 | 2458869.75 | 23 | 12 | 50.23 | -6 | 10 | 8.52 | 30.6063 | 15.2 |
| ene | 22 | 2458870.75 | 23 | 12 | 56.58 | -6 | 9 | 27.43 | 30.6187 | 15.1 |
| ene | 23 | 2458871.75 | 23 | 13 | 3.02 | -6 | 8 | 45.83 | 30.6310 | 15.1 |
| ene | 24 | 2458872.75 | 23 | 13 | 9.54 | -6 | 8 | 3.73 | 30.6430 | 15.0 |
| ene | 25 | 2458873.75 | 23 | 13 | 16.14 | -6 | 7 | 21.14 | 30.6549 | 15.0 |
| ene | 26 | 2458874.75 | 23 | 13 | 22.82 | -6 | 6 | 38.08 | 30.6665 | 14.9 |
| ene | 27 | 2458875.75 | 23 | 13 | 29.57 | -6 | 5 | 54.55 | 30.6779 | 14.8 |
| ene | 28 | 2458876.75 | 23 | 13 | 36.41 | -6 | 5 | 10.58 | 30.6890 | 14.8 |
| ene | 29 | 2458877.75 | 23 | 13 | 43.31 | -6 | 4 | 26.16 | 30.7000 | 14.7 |
| ene | 30 | 2458878.75 | 23 | 13 | 50.29 | -6 | 3 | 41.29 | 30.7107 | 14.6 |
| ene | 31 | 2458879.75 | 23 | 13 | 57.34 | -6 | 2 | 55.99 | 30.7211 | 14.6 |
| feb | 1 | 2458880.75 | 23 | 14 | 4.46 | -6 | 2 | 10.26 | 30.7314 | 14.5 |
| feb | 2 | 2458881.75 | 23 | 14 | 11.66 | -6 | 1 | 24.11 | 30.7413 | 14.4 |
| feb | 3 | 2458882.75 | 23 | 14 | 18.92 | -6 | 0 | 37.55 | 30.7511 | 14.4 |
| feb | 4 | 2458883.75 | 23 | 14 | 26.25 | -5 | 59 | 50.59 | 30.7606 | 14.3 |
| feb | 5 | 2458884.75 | 23 | 14 | 33.64 | -5 | 59 | 3.23 | 30.7698 | 14.3 |
| feb | 6 | 2458885.75 | 23 | 14 | 41.10 | -5 | 58 | 15.51 | 30.7788 | 14.2 |
| feb | 7 | 2458886.75 | 23 | 14 | 48.61 | -5 | 57 | 27.44 | 30.7876 | 14.1 |
| feb | 8 | 2458887.75 | 23 | 14 | 56.19 | -5 | 56 | 39.04 | 30.7961 | 14.1 |
| feb | 9 | 2458888.75 | 23 | 15 | 3.82 | -5 | 55 | 50.33 | 30.8043 | 14.0 |
| feb | 10 | 2458889.75 | 23 | 15 | 11.50 | -5 | 55 | 1.33 | 30.8123 | 13.9 |
| feb | 11 | 2458890.75 | 23 | 15 | 19.22 | -5 | 54 | 12.05 | 30.8200 | 13.9 |
| feb | 12 | 2458891.75 | 23 | 15 | 27.00 | -5 | 53 | 22.48 | 30.8275 | 13.8 |
| feb | 13 | 2458892.75 | 23 | 15 | 34.82 | -5 | 52 | 32.63 | 30.8347 | 13.7 |
| feb | 14 | 2458893.75 | 23 | 15 | 42.69 | -5 | 51 | 42.49 | 30.8416 | 13.7 |
| feb | 15 | 2458894.75 | 23 | 15 | 50.62 | -5 | 50 | 52.07 | 30.8483 | 13.6 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|----|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 23 | 15 | 58.58 | -5 | 50 | 1.38 | 30.8547 | 13.6 |
| feb | 17 | 2458896.75 | 23 | 16 | 6.60 | -5 | 49 | 10.43 | 30.8608 | 13.5 |
| feb | 18 | 2458897.75 | 23 | 16 | 14.65 | -5 | 48 | 19.25 | 30.8667 | 13.4 |
| feb | 19 | 2458898.75 | 23 | 16 | 22.75 | -5 | 47 | 27.85 | 30.8722 | 13.4 |
| feb | 20 | 2458899.75 | 23 | 16 | 30.88 | -5 | 46 | 36.26 | 30.8775 | 13.3 |
| feb | 21 | 2458900.75 | 23 | 16 | 39.04 | -5 | 45 | 44.48 | 30.8826 | 13.2 |
| feb | 22 | 2458901.75 | 23 | 16 | 47.23 | -5 | 44 | 52.55 | 30.8873 | 13.2 |
| feb | 23 | 2458902.75 | 23 | 16 | 55.45 | -5 | 44 | 0.47 | 30.8918 | 13.1 |
| feb | 24 | 2458903.75 | 23 | 17 | 3.70 | -5 | 43 | 8.24 | 30.8959 | 13.0 |
| feb | 25 | 2458904.75 | 23 | 17 | 11.97 | -5 | 42 | 15.89 | 30.8998 | 13.0 |
| feb | 26 | 2458905.75 | 23 | 17 | 20.27 | -5 | 41 | 23.42 | 30.9035 | 12.9 |
| feb | 27 | 2458906.75 | 23 | 17 | 28.59 | -5 | 40 | 30.83 | 30.9068 | 12.9 |
| feb | 28 | 2458907.75 | 23 | 17 | 36.92 | -5 | 39 | 38.13 | 30.9098 | 12.8 |
| feb | 29 | 2458908.75 | 23 | 17 | 45.28 | -5 | 38 | 45.33 | 30.9126 | 12.7 |
| mar | 1 | 2458909.75 | 23 | 17 | 53.66 | -5 | 37 | 52.44 | 30.9150 | 12.7 |
| mar | 2 | 2458910.75 | 23 | 18 | 2.05 | -5 | 36 | 59.47 | 30.9172 | 12.6 |
| mar | 3 | 2458911.75 | 23 | 18 | 10.46 | -5 | 36 | 6.44 | 30.9191 | 12.5 |
| mar | 4 | 2458912.75 | 23 | 18 | 18.88 | -5 | 35 | 13.36 | 30.9207 | 12.5 |
| mar | 5 | 2458913.75 | 23 | 18 | 27.31 | -5 | 34 | 20.26 | 30.9220 | 12.4 |
| mar | 6 | 2458914.75 | 23 | 18 | 35.75 | -5 | 33 | 27.17 | 30.9231 | 12.3 |
| mar | 7 | 2458915.75 | 23 | 18 | 44.19 | -5 | 32 | 34.14 | 30.9238 | 12.3 |
| mar | 8 | 2458916.75 | 23 | 18 | 52.63 | -5 | 31 | 41.34 | 30.9243 | 12.2 |
| mar | 9 | 2458917.75 | 23 | 19 | 1.04 | -5 | 30 | 48.33 | 30.9245 | 12.2 |
| mar | 10 | 2458918.75 | 23 | 19 | 9.46 | -5 | 29 | 55.20 | 30.9244 | 12.1 |
| mar | 11 | 2458919.75 | 23 | 19 | 17.89 | -5 | 29 | 2.21 | 30.9240 | 12.0 |
| mar | 12 | 2458920.75 | 23 | 19 | 26.32 | -5 | 28 | 9.30 | 30.9233 | 12.0 |
| mar | 13 | 2458921.75 | 23 | 19 | 34.74 | -5 | 27 | 16.46 | 30.9223 | 11.9 |
| mar | 14 | 2458922.75 | 23 | 19 | 43.15 | -5 | 26 | 23.67 | 30.9211 | 11.8 |
| mar | 15 | 2458923.75 | 23 | 19 | 51.56 | -5 | 25 | 30.97 | 30.9195 | 11.8 |
| mar | 16 | 2458924.75 | 23 | 19 | 59.96 | -5 | 24 | 38.35 | 30.9177 | 11.7 |
| mar | 17 | 2458925.75 | 23 | 20 | 8.35 | -5 | 23 | 45.85 | 30.9156 | 11.7 |
| mar | 18 | 2458926.75 | 23 | 20 | 16.72 | -5 | 22 | 53.48 | 30.9133 | 11.6 |
| mar | 19 | 2458927.75 | 23 | 20 | 25.07 | -5 | 22 | 1.26 | 30.9106 | 11.5 |
| mar | 20 | 2458928.75 | 23 | 20 | 33.40 | -5 | 21 | 9.21 | 30.9076 | 11.5 |
| mar | 21 | 2458929.75 | 23 | 20 | 41.71 | -5 | 20 | 17.33 | 30.9044 | 11.4 |
| mar | 22 | 2458930.75 | 23 | 20 | 50.00 | -5 | 19 | 25.65 | 30.9009 | 11.3 |
| mar | 23 | 2458931.75 | 23 | 20 | 58.25 | -5 | 18 | 34.16 | 30.8971 | 11.3 |
| mar | 24 | 2458932.75 | 23 | 21 | 6.48 | -5 | 17 | 42.88 | 30.8931 | 11.2 |
| mar | 25 | 2458933.75 | 23 | 21 | 14.68 | -5 | 16 | 51.80 | 30.8887 | 11.1 |
| mar | 26 | 2458934.75 | 23 | 21 | 22.85 | -5 | 16 | 0.95 | 30.8841 | 11.1 |
| mar | 27 | 2458935.75 | 23 | 21 | 30.98 | -5 | 15 | 10.32 | 30.8792 | 11.0 |
| mar | 28 | 2458936.75 | 23 | 21 | 39.09 | -5 | 14 | 19.92 | 30.8741 | 11.0 |
| mar | 29 | 2458937.75 | 23 | 21 | 47.16 | -5 | 13 | 29.77 | 30.8686 | 10.9 |
| mar | 30 | 2458938.75 | 23 | 21 | 55.19 | -5 | 12 | 39.87 | 30.8629 | 10.8 |
| mar | 31 | 2458939.75 | 23 | 22 | 3.19 | -5 | 11 | 50.24 | 30.8570 | 10.8 |
| abr | 1 | 2458940.75 | 23 | 22 | 11.14 | -5 | 11 | 0.90 | 30.8508 | 10.7 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|----|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 23 | 22 | 19.05 | -5 | 10 | 11.87 | 30.8443 | 10.6 |
| abr | 3 | 2458942.75 | 23 | 22 | 26.92 | -5 | 9 | 23.17 | 30.8375 | 10.6 |
| abr | 4 | 2458943.75 | 23 | 22 | 34.74 | -5 | 8 | 34.81 | 30.8305 | 10.5 |
| abr | 5 | 2458944.75 | 23 | 22 | 42.50 | -5 | 7 | 46.81 | 30.8233 | 10.4 |
| abr | 6 | 2458945.75 | 23 | 22 | 50.22 | -5 | 6 | 59.17 | 30.8158 | 10.4 |
| abr | 7 | 2458946.75 | 23 | 22 | 57.87 | -5 | 6 | 11.91 | 30.8080 | 10.3 |
| abr | 8 | 2458947.75 | 23 | 23 | 5.48 | -5 | 5 | 25.00 | 30.8000 | 10.3 |
| abr | 9 | 2458948.75 | 23 | 23 | 13.03 | -5 | 4 | 38.45 | 30.7917 | 10.2 |
| abr | 10 | 2458949.75 | 23 | 23 | 20.53 | -5 | 3 | 52.27 | 30.7833 | 10.1 |
| abr | 11 | 2458950.75 | 23 | 23 | 27.98 | -5 | 3 | 6.45 | 30.7745 | 10.1 |
| abr | 12 | 2458951.75 | 23 | 23 | 35.37 | -5 | 2 | 21.01 | 30.7656 | 10.0 |
| abr | 13 | 2458952.75 | 23 | 23 | 42.70 | -5 | 1 | 35.99 | 30.7563 | 9.9 |
| abr | 14 | 2458953.75 | 23 | 23 | 49.97 | -5 | 0 | 51.39 | 30.7469 | 9.9 |
| abr | 15 | 2458954.75 | 23 | 23 | 57.17 | -5 | 0 | 7.24 | 30.7372 | 9.8 |
| abr | 16 | 2458955.75 | 23 | 24 | 4.31 | -4 | 59 | 23.54 | 30.7273 | 9.7 |
| abr | 17 | 2458956.75 | 23 | 24 | 11.38 | -4 | 58 | 40.32 | 30.7172 | 9.7 |
| abr | 18 | 2458957.75 | 23 | 24 | 18.37 | -4 | 57 | 57.58 | 30.7068 | 9.6 |
| abr | 19 | 2458958.75 | 23 | 24 | 25.29 | -4 | 57 | 15.32 | 30.6963 | 9.6 |
| abr | 20 | 2458959.75 | 23 | 24 | 32.14 | -4 | 56 | 33.56 | 30.6855 | 9.5 |
| abr | 21 | 2458960.75 | 23 | 24 | 38.92 | -4 | 55 | 52.29 | 30.6745 | 9.4 |
| abr | 22 | 2458961.75 | 23 | 24 | 45.62 | -4 | 55 | 11.51 | 30.6632 | 9.4 |
| abr | 23 | 2458962.75 | 23 | 24 | 52.24 | -4 | 54 | 31.24 | 30.6518 | 9.3 |
| abr | 24 | 2458963.75 | 23 | 24 | 58.79 | -4 | 53 | 51.49 | 30.6402 | 9.2 |
| abr | 25 | 2458964.75 | 23 | 25 | 5.26 | -4 | 53 | 12.24 | 30.6283 | 9.2 |
| abr | 26 | 2458965.75 | 23 | 25 | 11.66 | -4 | 52 | 33.52 | 30.6163 | 9.1 |
| abr | 27 | 2458966.75 | 23 | 25 | 17.97 | -4 | 51 | 55.34 | 30.6041 | 9.0 |
| abr | 28 | 2458967.75 | 23 | 25 | 24.20 | -4 | 51 | 17.72 | 30.5916 | 9.0 |
| abr | 29 | 2458968.75 | 23 | 25 | 30.34 | -4 | 50 | 40.66 | 30.5790 | 8.9 |
| abr | 30 | 2458969.75 | 23 | 25 | 36.40 | -4 | 50 | 4.18 | 30.5662 | 8.9 |
| may | 1 | 2458970.75 | 23 | 25 | 42.37 | -4 | 49 | 28.31 | 30.5533 | 8.8 |
| may | 2 | 2458971.75 | 23 | 25 | 48.25 | -4 | 48 | 53.04 | 30.5401 | 8.7 |
| may | 3 | 2458972.75 | 23 | 25 | 54.03 | -4 | 48 | 18.39 | 30.5268 | 8.7 |
| may | 4 | 2458973.75 | 23 | 25 | 59.72 | -4 | 47 | 44.36 | 30.5133 | 8.6 |
| may | 5 | 2458974.75 | 23 | 26 | 5.32 | -4 | 47 | 10.95 | 30.4997 | 8.5 |
| may | 6 | 2458975.75 | 23 | 26 | 10.82 | -4 | 46 | 38.14 | 30.4858 | 8.5 |
| may | 7 | 2458976.75 | 23 | 26 | 16.24 | -4 | 46 | 5.93 | 30.4719 | 8.4 |
| may | 8 | 2458977.75 | 23 | 26 | 21.56 | -4 | 45 | 34.32 | 30.4578 | 8.3 |
| may | 9 | 2458978.75 | 23 | 26 | 26.79 | -4 | 45 | 3.33 | 30.4435 | 8.3 |
| may | 10 | 2458979.75 | 23 | 26 | 31.93 | -4 | 44 | 32.96 | 30.4291 | 8.2 |
| may | 11 | 2458980.75 | 23 | 26 | 36.96 | -4 | 44 | 3.25 | 30.4145 | 8.1 |
| may | 12 | 2458981.75 | 23 | 26 | 41.90 | -4 | 43 | 34.19 | 30.3998 | 8.1 |
| may | 13 | 2458982.75 | 23 | 26 | 46.74 | -4 | 43 | 5.82 | 30.3850 | 8.0 |
| may | 14 | 2458983.75 | 23 | 26 | 51.47 | -4 | 42 | 38.13 | 30.3700 | 8.0 |
| may | 15 | 2458984.75 | 23 | 26 | 56.09 | -4 | 42 | 11.13 | 30.3549 | 7.9 |
| may | 16 | 2458985.75 | 23 | 27 | 0.61 | -4 | 41 | 44.83 | 30.3397 | 7.8 |
| may | 17 | 2458986.75 | 23 | 27 | 5.02 | -4 | 41 | 19.22 | 30.3244 | 7.8 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | $^{\circ}$ | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|------------|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 23 | 27 | 9.33 | -4 | 40 | 54.32 | 30.3089 | 7.7 |
| may | 19 | 2458988.75 | 23 | 27 | 13.53 | -4 | 40 | 30.10 | 30.2934 | 7.6 |
| may | 20 | 2458989.75 | 23 | 27 | 17.62 | -4 | 40 | 6.59 | 30.2777 | 7.6 |
| may | 21 | 2458990.75 | 23 | 27 | 21.61 | -4 | 39 | 43.77 | 30.2619 | 7.5 |
| may | 22 | 2458991.75 | 23 | 27 | 25.48 | -4 | 39 | 21.65 | 30.2461 | 7.4 |
| may | 23 | 2458992.75 | 23 | 27 | 29.25 | -4 | 39 | 0.24 | 30.2301 | 7.4 |
| may | 24 | 2458993.75 | 23 | 27 | 32.91 | -4 | 38 | 39.54 | 30.2141 | 7.3 |
| may | 25 | 2458994.75 | 23 | 27 | 36.46 | -4 | 38 | 19.56 | 30.1979 | 7.2 |
| may | 26 | 2458995.75 | 23 | 27 | 39.90 | -4 | 38 | 0.32 | 30.1817 | 7.2 |
| may | 27 | 2458996.75 | 23 | 27 | 43.23 | -4 | 37 | 41.82 | 30.1654 | 7.1 |
| may | 28 | 2458997.75 | 23 | 27 | 46.44 | -4 | 37 | 24.08 | 30.1491 | 7.0 |
| may | 29 | 2458998.75 | 23 | 27 | 49.53 | -4 | 37 | 7.10 | 30.1327 | 7.0 |
| may | 30 | 2458999.75 | 23 | 27 | 52.50 | -4 | 36 | 50.90 | 30.1162 | 6.9 |
| may | 31 | 2459000.75 | 23 | 27 | 55.36 | -4 | 36 | 35.46 | 30.0997 | 6.9 |
| jun | 1 | 2459001.75 | 23 | 27 | 58.09 | -4 | 36 | 20.78 | 30.0831 | 6.8 |
| jun | 2 | 2459002.75 | 23 | 28 | 0.71 | -4 | 36 | 6.85 | 30.0665 | 6.7 |
| jun | 3 | 2459003.75 | 23 | 28 | 3.22 | -4 | 35 | 53.66 | 30.0498 | 6.7 |
| jun | 4 | 2459004.75 | 23 | 28 | 5.61 | -4 | 35 | 41.20 | 30.0331 | 6.6 |
| jun | 5 | 2459005.75 | 23 | 28 | 7.89 | -4 | 35 | 29.47 | 30.0164 | 6.5 |
| jun | 6 | 2459006.75 | 23 | 28 | 10.06 | -4 | 35 | 18.49 | 29.9996 | 6.5 |
| jun | 7 | 2459007.75 | 23 | 28 | 12.11 | -4 | 35 | 8.27 | 29.9828 | 6.4 |
| jun | 8 | 2459008.75 | 23 | 28 | 14.04 | -4 | 34 | 58.81 | 29.9660 | 6.3 |
| jun | 9 | 2459009.75 | 23 | 28 | 15.85 | -4 | 34 | 50.13 | 29.9492 | 6.3 |
| jun | 10 | 2459010.75 | 23 | 28 | 17.54 | -4 | 34 | 42.24 | 29.9324 | 6.2 |
| jun | 11 | 2459011.75 | 23 | 28 | 19.11 | -4 | 34 | 35.13 | 29.9155 | 6.1 |
| jun | 12 | 2459012.75 | 23 | 28 | 20.55 | -4 | 34 | 28.81 | 29.8987 | 6.1 |
| jun | 13 | 2459013.75 | 23 | 28 | 21.87 | -4 | 34 | 23.28 | 29.8818 | 6.0 |
| jun | 14 | 2459014.75 | 23 | 28 | 23.07 | -4 | 34 | 18.52 | 29.8650 | 5.9 |
| jun | 15 | 2459015.75 | 23 | 28 | 24.15 | -4 | 34 | 14.53 | 29.8482 | 5.9 |
| jun | 16 | 2459016.75 | 23 | 28 | 25.11 | -4 | 34 | 11.31 | 29.8314 | 5.8 |
| jun | 17 | 2459017.75 | 23 | 28 | 25.96 | -4 | 34 | 8.86 | 29.8146 | 5.7 |
| jun | 18 | 2459018.75 | 23 | 28 | 26.68 | -4 | 34 | 7.16 | 29.7978 | 5.7 |
| jun | 19 | 2459019.75 | 23 | 28 | 27.28 | -4 | 34 | 6.22 | 29.7811 | 5.6 |
| jun | 20 | 2459020.75 | 23 | 28 | 27.76 | -4 | 34 | 6.04 | 29.7644 | 5.5 |
| jun | 21 | 2459021.75 | 23 | 28 | 28.13 | -4 | 34 | 6.63 | 29.7478 | 5.5 |
| jun | 22 | 2459022.75 | 23 | 28 | 28.38 | -4 | 34 | 7.98 | 29.7312 | 5.4 |
| jun | 23 | 2459023.75 | 23 | 28 | 28.50 | -4 | 34 | 10.11 | 29.7146 | 5.4 |
| jun | 24 | 2459024.75 | 23 | 28 | 28.50 | -4 | 34 | 13.02 | 29.6982 | 5.3 |
| jun | 25 | 2459025.75 | 23 | 28 | 28.38 | -4 | 34 | 16.71 | 29.6817 | 5.2 |
| jun | 26 | 2459026.75 | 23 | 28 | 28.14 | -4 | 34 | 21.19 | 29.6654 | 5.2 |
| jun | 27 | 2459027.75 | 23 | 28 | 27.77 | -4 | 34 | 26.45 | 29.6491 | 5.1 |
| jun | 28 | 2459028.75 | 23 | 28 | 27.28 | -4 | 34 | 32.48 | 29.6329 | 5.0 |
| jun | 29 | 2459029.75 | 23 | 28 | 26.68 | -4 | 34 | 39.25 | 29.6167 | 5.0 |
| jun | 30 | 2459030.75 | 23 | 28 | 25.96 | -4 | 34 | 46.77 | 29.6007 | 4.9 |
| jul | 1 | 2459031.75 | 23 | 28 | 25.12 | -4 | 34 | 55.00 | 29.5847 | 4.8 |
| jul | 2 | 2459032.75 | 23 | 28 | 24.17 | -4 | 35 | 3.95 | 29.5689 | 4.8 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 23 | 28 | 23.10 | -4 | 35 | 13.62 | 29.5531 | 4.7 |
| jul | 4 | 2459034.75 | 23 | 28 | 21.93 | -4 | 35 | 24.00 | 29.5374 | 4.6 |
| jul | 5 | 2459035.75 | 23 | 28 | 20.63 | -4 | 35 | 35.11 | 29.5219 | 4.6 |
| jul | 6 | 2459036.75 | 23 | 28 | 19.23 | -4 | 35 | 46.96 | 29.5064 | 4.5 |
| jul | 7 | 2459037.75 | 23 | 28 | 17.70 | -4 | 35 | 59.54 | 29.4911 | 4.4 |
| jul | 8 | 2459038.75 | 23 | 28 | 16.06 | -4 | 36 | 12.85 | 29.4759 | 4.4 |
| jul | 9 | 2459039.75 | 23 | 28 | 14.31 | -4 | 36 | 26.89 | 29.4608 | 4.3 |
| jul | 10 | 2459040.75 | 23 | 28 | 12.43 | -4 | 36 | 41.65 | 29.4458 | 4.2 |
| jul | 11 | 2459041.75 | 23 | 28 | 10.45 | -4 | 36 | 57.12 | 29.4310 | 4.2 |
| jul | 12 | 2459042.75 | 23 | 28 | 8.35 | -4 | 37 | 13.28 | 29.4163 | 4.1 |
| jul | 13 | 2459043.75 | 23 | 28 | 6.14 | -4 | 37 | 30.13 | 29.4017 | 4.0 |
| jul | 14 | 2459044.75 | 23 | 28 | 3.83 | -4 | 37 | 47.65 | 29.3873 | 4.0 |
| jul | 15 | 2459045.75 | 23 | 28 | 1.41 | -4 | 38 | 5.84 | 29.3730 | 3.9 |
| jul | 16 | 2459046.75 | 23 | 27 | 58.88 | -4 | 38 | 24.68 | 29.3589 | 3.8 |
| jul | 17 | 2459047.75 | 23 | 27 | 56.24 | -4 | 38 | 44.17 | 29.3449 | 3.8 |
| jul | 18 | 2459048.75 | 23 | 27 | 53.51 | -4 | 39 | 4.30 | 29.3312 | 3.7 |
| jul | 19 | 2459049.75 | 23 | 27 | 50.67 | -4 | 39 | 25.08 | 29.3175 | 3.6 |
| jul | 20 | 2459050.75 | 23 | 27 | 47.72 | -4 | 39 | 46.51 | 29.3041 | 3.6 |
| jul | 21 | 2459051.75 | 23 | 27 | 44.67 | -4 | 40 | 8.58 | 29.2908 | 3.5 |
| jul | 22 | 2459052.75 | 23 | 27 | 41.52 | -4 | 40 | 31.30 | 29.2777 | 3.4 |
| jul | 23 | 2459053.75 | 23 | 27 | 38.26 | -4 | 40 | 54.67 | 29.2648 | 3.4 |
| jul | 24 | 2459054.75 | 23 | 27 | 34.90 | -4 | 41 | 18.66 | 29.2521 | 3.3 |
| jul | 25 | 2459055.75 | 23 | 27 | 31.45 | -4 | 41 | 43.26 | 29.2395 | 3.2 |
| jul | 26 | 2459056.75 | 23 | 27 | 27.89 | -4 | 42 | 8.45 | 29.2272 | 3.2 |
| jul | 27 | 2459057.75 | 23 | 27 | 24.24 | -4 | 42 | 34.22 | 29.2150 | 3.1 |
| jul | 28 | 2459058.75 | 23 | 27 | 20.50 | -4 | 43 | 0.53 | 29.2031 | 3.0 |
| jul | 29 | 2459059.75 | 23 | 27 | 16.67 | -4 | 43 | 27.37 | 29.1914 | 3.0 |
| jul | 30 | 2459060.75 | 23 | 27 | 12.75 | -4 | 43 | 54.75 | 29.1799 | 2.9 |
| jul | 31 | 2459061.75 | 23 | 27 | 8.75 | -4 | 44 | 22.65 | 29.1685 | 2.8 |
| ago | 1 | 2459062.75 | 23 | 27 | 4.66 | -4 | 44 | 51.07 | 29.1575 | 2.8 |
| ago | 2 | 2459063.75 | 23 | 27 | 0.49 | -4 | 45 | 20.02 | 29.1466 | 2.7 |
| ago | 3 | 2459064.75 | 23 | 26 | 56.23 | -4 | 45 | 49.49 | 29.1359 | 2.6 |
| ago | 4 | 2459065.75 | 23 | 26 | 51.88 | -4 | 46 | 19.48 | 29.1255 | 2.6 |
| ago | 5 | 2459066.75 | 23 | 26 | 47.45 | -4 | 46 | 49.97 | 29.1153 | 2.5 |
| ago | 6 | 2459067.75 | 23 | 26 | 42.93 | -4 | 47 | 20.95 | 29.1053 | 2.4 |
| ago | 7 | 2459068.75 | 23 | 26 | 38.34 | -4 | 47 | 52.41 | 29.0956 | 2.4 |
| ago | 8 | 2459069.75 | 23 | 26 | 33.67 | -4 | 48 | 24.33 | 29.0861 | 2.3 |
| ago | 9 | 2459070.75 | 23 | 26 | 28.92 | -4 | 48 | 56.68 | 29.0768 | 2.2 |
| ago | 10 | 2459071.75 | 23 | 26 | 24.10 | -4 | 49 | 29.46 | 29.0678 | 2.2 |
| ago | 11 | 2459072.75 | 23 | 26 | 19.21 | -4 | 50 | 2.65 | 29.0591 | 2.1 |
| ago | 12 | 2459073.75 | 23 | 26 | 14.25 | -4 | 50 | 36.24 | 29.0505 | 2.0 |
| ago | 13 | 2459074.75 | 23 | 26 | 9.23 | -4 | 51 | 10.21 | 29.0423 | 2.0 |
| ago | 14 | 2459075.75 | 23 | 26 | 4.14 | -4 | 51 | 44.54 | 29.0343 | 1.9 |
| ago | 15 | 2459076.75 | 23 | 25 | 58.99 | -4 | 52 | 19.25 | 29.0265 | 1.8 |
| ago | 16 | 2459077.75 | 23 | 25 | 53.78 | -4 | 52 | 54.31 | 29.0190 | 1.8 |
| ago | 17 | 2459078.75 | 23 | 25 | 48.50 | -4 | 53 | 29.73 | 29.0118 | 1.7 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|----|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 23 | 25 | 43.17 | -4 | 54 | 5.50 | 29.0048 | 1.6 |
| ago | 19 | 2459080.75 | 23 | 25 | 37.78 | -4 | 54 | 41.61 | 28.9982 | 1.6 |
| ago | 20 | 2459081.75 | 23 | 25 | 32.32 | -4 | 55 | 18.05 | 28.9917 | 1.5 |
| ago | 21 | 2459082.75 | 23 | 25 | 26.81 | -4 | 55 | 54.80 | 28.9856 | 1.4 |
| ago | 22 | 2459083.75 | 23 | 25 | 21.25 | -4 | 56 | 31.83 | 28.9797 | 1.4 |
| ago | 23 | 2459084.75 | 23 | 25 | 15.65 | -4 | 57 | 9.12 | 28.9741 | 1.3 |
| ago | 24 | 2459085.75 | 23 | 25 | 10.00 | -4 | 57 | 46.63 | 28.9688 | 1.2 |
| ago | 25 | 2459086.75 | 23 | 25 | 4.31 | -4 | 58 | 24.35 | 28.9638 | 1.2 |
| ago | 26 | 2459087.75 | 23 | 24 | 58.58 | -4 | 59 | 2.27 | 28.9590 | 1.1 |
| ago | 27 | 2459088.75 | 23 | 24 | 52.82 | -4 | 59 | 40.38 | 28.9546 | 1.0 |
| ago | 28 | 2459089.75 | 23 | 24 | 47.02 | -5 | 0 | 18.67 | 28.9504 | 1.0 |
| ago | 29 | 2459090.75 | 23 | 24 | 41.18 | -5 | 0 | 57.14 | 28.9465 | 0.9 |
| ago | 30 | 2459091.75 | 23 | 24 | 35.32 | -5 | 1 | 35.79 | 28.9429 | 0.8 |
| ago | 31 | 2459092.75 | 23 | 24 | 29.41 | -5 | 2 | 14.59 | 28.9396 | 0.7 |
| sep | 1 | 2459093.75 | 23 | 24 | 23.48 | -5 | 2 | 53.55 | 28.9365 | 0.7 |
| sep | 2 | 2459094.75 | 23 | 24 | 17.52 | -5 | 3 | 32.64 | 28.9338 | 0.6 |
| sep | 3 | 2459095.75 | 23 | 24 | 11.54 | -5 | 4 | 11.85 | 28.9314 | 0.5 |
| sep | 4 | 2459096.75 | 23 | 24 | 5.53 | -5 | 4 | 51.15 | 28.9292 | 0.5 |
| sep | 5 | 2459097.75 | 23 | 23 | 59.50 | -5 | 5 | 30.53 | 28.9273 | 0.4 |
| sep | 6 | 2459098.75 | 23 | 23 | 53.45 | -5 | 6 | 9.96 | 28.9258 | 0.3 |
| sep | 7 | 2459099.75 | 23 | 23 | 47.40 | -5 | 6 | 49.42 | 28.9245 | 0.3 |
| sep | 8 | 2459100.75 | 23 | 23 | 41.33 | -5 | 7 | 28.90 | 28.9235 | 0.2 |
| sep | 9 | 2459101.75 | 23 | 23 | 35.25 | -5 | 8 | 8.39 | 28.9229 | 0.1 |
| sep | 10 | 2459102.75 | 23 | 23 | 29.16 | -5 | 8 | 47.86 | 28.9225 | 0.1 |
| sep | 11 | 2459103.75 | 23 | 23 | 23.08 | -5 | 9 | 27.32 | 28.9224 | 0.0 |
| sep | 12 | 2459104.75 | 23 | 23 | 16.99 | -5 | 10 | 6.74 | 28.9226 | 23.9 |
| sep | 13 | 2459105.75 | 23 | 23 | 10.89 | -5 | 10 | 46.13 | 28.9231 | 23.9 |
| sep | 14 | 2459106.75 | 23 | 23 | 4.80 | -5 | 11 | 25.47 | 28.9239 | 23.8 |
| sep | 15 | 2459107.75 | 23 | 22 | 58.71 | -5 | 12 | 4.75 | 28.9250 | 23.7 |
| sep | 16 | 2459108.75 | 23 | 22 | 52.63 | -5 | 12 | 43.97 | 28.9264 | 23.7 |
| sep | 17 | 2459109.75 | 23 | 22 | 46.54 | -5 | 13 | 23.11 | 28.9282 | 23.6 |
| sep | 18 | 2459110.75 | 23 | 22 | 40.47 | -5 | 14 | 2.14 | 28.9302 | 23.5 |
| sep | 19 | 2459111.75 | 23 | 22 | 34.41 | -5 | 14 | 41.03 | 28.9325 | 23.5 |
| sep | 20 | 2459112.75 | 23 | 22 | 28.37 | -5 | 15 | 19.74 | 28.9351 | 23.4 |
| sep | 21 | 2459113.75 | 23 | 22 | 22.35 | -5 | 15 | 58.26 | 28.9380 | 23.3 |
| sep | 22 | 2459114.75 | 23 | 22 | 16.36 | -5 | 16 | 36.57 | 28.9412 | 23.3 |
| sep | 23 | 2459115.75 | 23 | 22 | 10.39 | -5 | 17 | 14.67 | 28.9447 | 23.2 |
| sep | 24 | 2459116.75 | 23 | 22 | 4.45 | -5 | 17 | 52.54 | 28.9485 | 23.1 |
| sep | 25 | 2459117.75 | 23 | 21 | 58.54 | -5 | 18 | 30.19 | 28.9526 | 23.1 |
| sep | 26 | 2459118.75 | 23 | 21 | 52.66 | -5 | 19 | 7.61 | 28.9570 | 23.0 |
| sep | 27 | 2459119.75 | 23 | 21 | 46.81 | -5 | 19 | 44.79 | 28.9616 | 22.9 |
| sep | 28 | 2459120.75 | 23 | 21 | 40.99 | -5 | 20 | 21.71 | 28.9666 | 22.9 |
| sep | 29 | 2459121.75 | 23 | 21 | 35.21 | -5 | 20 | 58.36 | 28.9718 | 22.8 |
| sep | 30 | 2459122.75 | 23 | 21 | 29.47 | -5 | 21 | 34.73 | 28.9773 | 22.7 |
| oct | 1 | 2459123.75 | 23 | 21 | 23.76 | -5 | 22 | 10.79 | 28.9832 | 22.7 |
| oct | 2 | 2459124.75 | 23 | 21 | 18.10 | -5 | 22 | 46.52 | 28.9892 | 22.6 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|----|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 23 | 21 | 12.48 | -5 | 23 | 21.91 | 28.9956 | 22.5 |
| oct | 4 | 2459126.75 | 23 | 21 | 6.92 | -5 | 23 | 56.93 | 29.0023 | 22.5 |
| oct | 5 | 2459127.75 | 23 | 21 | 1.40 | -5 | 24 | 31.57 | 29.0092 | 22.4 |
| oct | 6 | 2459128.75 | 23 | 20 | 55.94 | -5 | 25 | 5.82 | 29.0164 | 22.3 |
| oct | 7 | 2459129.75 | 23 | 20 | 50.54 | -5 | 25 | 39.66 | 29.0239 | 22.3 |
| oct | 8 | 2459130.75 | 23 | 20 | 45.20 | -5 | 26 | 13.08 | 29.0316 | 22.2 |
| oct | 9 | 2459131.75 | 23 | 20 | 39.91 | -5 | 26 | 46.09 | 29.0397 | 22.1 |
| oct | 10 | 2459132.75 | 23 | 20 | 34.69 | -5 | 27 | 18.66 | 29.0480 | 22.1 |
| oct | 11 | 2459133.75 | 23 | 20 | 29.53 | -5 | 27 | 50.79 | 29.0565 | 22.0 |
| oct | 12 | 2459134.75 | 23 | 20 | 24.44 | -5 | 28 | 22.49 | 29.0653 | 21.9 |
| oct | 13 | 2459135.75 | 23 | 20 | 19.41 | -5 | 28 | 53.73 | 29.0744 | 21.9 |
| oct | 14 | 2459136.75 | 23 | 20 | 14.44 | -5 | 29 | 24.51 | 29.0837 | 21.8 |
| oct | 15 | 2459137.75 | 23 | 20 | 9.55 | -5 | 29 | 54.81 | 29.0933 | 21.7 |
| oct | 16 | 2459138.75 | 23 | 20 | 4.72 | -5 | 30 | 24.59 | 29.1032 | 21.7 |
| oct | 17 | 2459139.75 | 23 | 19 | 59.98 | -5 | 30 | 53.85 | 29.1133 | 21.6 |
| oct | 18 | 2459140.75 | 23 | 19 | 55.31 | -5 | 31 | 22.54 | 29.1236 | 21.5 |
| oct | 19 | 2459141.75 | 23 | 19 | 50.74 | -5 | 31 | 50.65 | 29.1342 | 21.5 |
| oct | 20 | 2459142.75 | 23 | 19 | 46.24 | -5 | 32 | 18.18 | 29.1451 | 21.4 |
| oct | 21 | 2459143.75 | 23 | 19 | 41.84 | -5 | 32 | 45.12 | 29.1561 | 21.3 |
| oct | 22 | 2459144.75 | 23 | 19 | 37.52 | -5 | 33 | 11.49 | 29.1674 | 21.3 |
| oct | 23 | 2459145.75 | 23 | 19 | 33.28 | -5 | 33 | 37.27 | 29.1789 | 21.2 |
| oct | 24 | 2459146.75 | 23 | 19 | 29.14 | -5 | 34 | 2.46 | 29.1907 | 21.1 |
| oct | 25 | 2459147.75 | 23 | 19 | 25.08 | -5 | 34 | 27.07 | 29.2027 | 21.1 |
| oct | 26 | 2459148.75 | 23 | 19 | 21.11 | -5 | 34 | 51.07 | 29.2149 | 21.0 |
| oct | 27 | 2459149.75 | 23 | 19 | 17.24 | -5 | 35 | 14.44 | 29.2273 | 20.9 |
| oct | 28 | 2459150.75 | 23 | 19 | 13.45 | -5 | 35 | 37.19 | 29.2399 | 20.9 |
| oct | 29 | 2459151.75 | 23 | 19 | 9.77 | -5 | 35 | 59.29 | 29.2527 | 20.8 |
| oct | 30 | 2459152.75 | 23 | 19 | 6.18 | -5 | 36 | 20.72 | 29.2657 | 20.7 |
| oct | 31 | 2459153.75 | 23 | 19 | 2.70 | -5 | 36 | 41.48 | 29.2789 | 20.7 |
| nov | 1 | 2459154.75 | 23 | 18 | 59.32 | -5 | 37 | 1.54 | 29.2923 | 20.6 |
| nov | 2 | 2459155.75 | 23 | 18 | 56.04 | -5 | 37 | 20.91 | 29.3059 | 20.5 |
| nov | 3 | 2459156.75 | 23 | 18 | 52.87 | -5 | 37 | 39.58 | 29.3197 | 20.5 |
| nov | 4 | 2459157.75 | 23 | 18 | 49.81 | -5 | 37 | 57.54 | 29.3337 | 20.4 |
| nov | 5 | 2459158.75 | 23 | 18 | 46.85 | -5 | 38 | 14.78 | 29.3478 | 20.3 |
| nov | 6 | 2459159.75 | 23 | 18 | 44.01 | -5 | 38 | 31.32 | 29.3622 | 20.3 |
| nov | 7 | 2459160.75 | 23 | 18 | 41.27 | -5 | 38 | 47.14 | 29.3767 | 20.2 |
| nov | 8 | 2459161.75 | 23 | 18 | 38.64 | -5 | 39 | 2.25 | 29.3913 | 20.1 |
| nov | 9 | 2459162.75 | 23 | 18 | 36.13 | -5 | 39 | 16.64 | 29.4061 | 20.1 |
| nov | 10 | 2459163.75 | 23 | 18 | 33.72 | -5 | 39 | 30.31 | 29.4211 | 20.0 |
| nov | 11 | 2459164.75 | 23 | 18 | 31.42 | -5 | 39 | 43.25 | 29.4362 | 19.9 |
| nov | 12 | 2459165.75 | 23 | 18 | 29.24 | -5 | 39 | 55.45 | 29.4515 | 19.9 |
| nov | 13 | 2459166.75 | 23 | 18 | 27.18 | -5 | 40 | 6.87 | 29.4670 | 19.8 |
| nov | 14 | 2459167.75 | 23 | 18 | 25.23 | -5 | 40 | 17.50 | 29.4825 | 19.7 |
| nov | 15 | 2459168.75 | 23 | 18 | 23.41 | -5 | 40 | 27.34 | 29.4982 | 19.7 |
| nov | 16 | 2459169.75 | 23 | 18 | 21.72 | -5 | 40 | 36.36 | 29.5140 | 19.6 |
| nov | 17 | 2459170.75 | 23 | 18 | 20.15 | -5 | 40 | 44.58 | 29.5300 | 19.5 |

Neptuno, 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|----|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 23 | 18 | 18.70 | -5 | 40 | 52.01 | 29.5460 | 19.5 |
| nov | 19 | 2459172.75 | 23 | 18 | 17.37 | -5 | 40 | 58.65 | 29.5622 | 19.4 |
| nov | 20 | 2459173.75 | 23 | 18 | 16.17 | -5 | 41 | 4.52 | 29.5785 | 19.3 |
| nov | 21 | 2459174.75 | 23 | 18 | 15.08 | -5 | 41 | 9.60 | 29.5949 | 19.3 |
| nov | 22 | 2459175.75 | 23 | 18 | 14.12 | -5 | 41 | 13.91 | 29.6114 | 19.2 |
| nov | 23 | 2459176.75 | 23 | 18 | 13.28 | -5 | 41 | 17.42 | 29.6279 | 19.1 |
| nov | 24 | 2459177.75 | 23 | 18 | 12.56 | -5 | 41 | 20.14 | 29.6446 | 19.1 |
| nov | 25 | 2459178.75 | 23 | 18 | 11.97 | -5 | 41 | 22.05 | 29.6613 | 19.0 |
| nov | 26 | 2459179.75 | 23 | 18 | 11.50 | -5 | 41 | 23.15 | 29.6781 | 18.9 |
| nov | 27 | 2459180.75 | 23 | 18 | 11.16 | -5 | 41 | 23.43 | 29.6950 | 18.9 |
| nov | 28 | 2459181.75 | 23 | 18 | 10.95 | -5 | 41 | 22.88 | 29.7120 | 18.8 |
| nov | 29 | 2459182.75 | 23 | 18 | 10.87 | -5 | 41 | 21.51 | 29.7290 | 18.7 |
| nov | 30 | 2459183.75 | 23 | 18 | 10.92 | -5 | 41 | 19.31 | 29.7461 | 18.7 |
| dic | 1 | 2459184.75 | 23 | 18 | 11.10 | -5 | 41 | 16.28 | 29.7632 | 18.6 |
| dic | 2 | 2459185.75 | 23 | 18 | 11.40 | -5 | 41 | 12.43 | 29.7803 | 18.5 |
| dic | 3 | 2459186.75 | 23 | 18 | 11.84 | -5 | 41 | 7.76 | 29.7975 | 18.5 |
| dic | 4 | 2459187.75 | 23 | 18 | 12.40 | -5 | 41 | 2.29 | 29.8148 | 18.4 |
| dic | 5 | 2459188.75 | 23 | 18 | 13.09 | -5 | 40 | 56.02 | 29.8320 | 18.3 |
| dic | 6 | 2459189.75 | 23 | 18 | 13.91 | -5 | 40 | 48.95 | 29.8493 | 18.3 |
| dic | 7 | 2459190.75 | 23 | 18 | 14.85 | -5 | 40 | 41.08 | 29.8666 | 18.2 |
| dic | 8 | 2459191.75 | 23 | 18 | 15.91 | -5 | 40 | 32.42 | 29.8840 | 18.1 |
| dic | 9 | 2459192.75 | 23 | 18 | 17.11 | -5 | 40 | 22.96 | 29.9013 | 18.1 |
| dic | 10 | 2459193.75 | 23 | 18 | 18.43 | -5 | 40 | 12.68 | 29.9187 | 18.0 |
| dic | 11 | 2459194.75 | 23 | 18 | 19.87 | -5 | 40 | 1.57 | 29.9360 | 17.9 |
| dic | 12 | 2459195.75 | 23 | 18 | 21.46 | -5 | 39 | 49.63 | 29.9533 | 17.9 |
| dic | 13 | 2459196.75 | 23 | 18 | 23.17 | -5 | 39 | 36.85 | 29.9707 | 17.8 |
| dic | 14 | 2459197.75 | 23 | 18 | 25.02 | -5 | 39 | 23.25 | 29.9880 | 17.7 |
| dic | 15 | 2459198.75 | 23 | 18 | 26.99 | -5 | 39 | 8.82 | 30.0052 | 17.7 |
| dic | 16 | 2459199.75 | 23 | 18 | 29.10 | -5 | 38 | 53.59 | 30.0225 | 17.6 |
| dic | 17 | 2459200.75 | 23 | 18 | 31.33 | -5 | 38 | 37.58 | 30.0397 | 17.6 |
| dic | 18 | 2459201.75 | 23 | 18 | 33.68 | -5 | 38 | 20.79 | 30.0569 | 17.5 |
| dic | 19 | 2459202.75 | 23 | 18 | 36.15 | -5 | 38 | 3.24 | 30.0740 | 17.4 |
| dic | 20 | 2459203.75 | 23 | 18 | 38.75 | -5 | 37 | 44.92 | 30.0911 | 17.4 |
| dic | 21 | 2459204.75 | 23 | 18 | 41.47 | -5 | 37 | 25.83 | 30.1081 | 17.3 |
| dic | 22 | 2459205.75 | 23 | 18 | 44.31 | -5 | 37 | 5.97 | 30.1251 | 17.2 |
| dic | 23 | 2459206.75 | 23 | 18 | 47.27 | -5 | 36 | 45.34 | 30.1420 | 17.2 |
| dic | 24 | 2459207.75 | 23 | 18 | 50.36 | -5 | 36 | 23.93 | 30.1588 | 17.1 |
| dic | 25 | 2459208.75 | 23 | 18 | 53.57 | -5 | 36 | 1.76 | 30.1756 | 17.0 |
| dic | 26 | 2459209.75 | 23 | 18 | 56.90 | -5 | 35 | 38.82 | 30.1923 | 17.0 |
| dic | 27 | 2459210.75 | 23 | 19 | 0.35 | -5 | 35 | 15.11 | 30.2088 | 16.9 |
| dic | 28 | 2459211.75 | 23 | 19 | 3.93 | -5 | 34 | 50.65 | 30.2253 | 16.8 |
| dic | 29 | 2459212.75 | 23 | 19 | 7.62 | -5 | 34 | 25.44 | 30.2417 | 16.8 |
| dic | 30 | 2459213.75 | 23 | 19 | 11.44 | -5 | 33 | 59.51 | 30.2580 | 16.7 |
| dic | 31 | 2459214.75 | 23 | 19 | 15.36 | -5 | 33 | 32.85 | 30.2742 | 16.6 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | δ ° | " | dis UA | hp h | |
|-----|-----|------------|----|---------------|-------|---------------|----|-----------|---------|------|
| ene | 1 | 2458849.75 | 19 | 37 | 11.88 | -22 | 13 | 13.27 | 34.9112 | 12.9 |
| ene | 2 | 2458850.75 | 19 | 37 | 20.37 | -22 | 12 | 58.91 | 34.9154 | 12.9 |
| ene | 3 | 2458851.75 | 19 | 37 | 28.89 | -22 | 12 | 44.48 | 34.9192 | 12.8 |
| ene | 4 | 2458852.75 | 19 | 37 | 37.44 | -22 | 12 | 29.98 | 34.9228 | 12.7 |
| ene | 5 | 2458853.75 | 19 | 37 | 46.00 | -22 | 12 | 15.40 | 34.9261 | 12.7 |
| ene | 6 | 2458854.75 | 19 | 37 | 54.58 | -22 | 12 | 0.77 | 34.9291 | 12.6 |
| ene | 7 | 2458855.75 | 19 | 38 | 3.17 | -22 | 11 | 46.08 | 34.9318 | 12.5 |
| ene | 8 | 2458856.75 | 19 | 38 | 11.78 | -22 | 11 | 31.35 | 34.9342 | 12.5 |
| ene | 9 | 2458857.75 | 19 | 38 | 20.41 | -22 | 11 | 16.60 | 34.9363 | 12.4 |
| ene | 10 | 2458858.75 | 19 | 38 | 29.05 | -22 | 11 | 1.83 | 34.9381 | 12.4 |
| ene | 11 | 2458859.75 | 19 | 38 | 37.69 | -22 | 10 | 47.08 | 34.9396 | 12.3 |
| ene | 12 | 2458860.75 | 19 | 38 | 46.35 | -22 | 10 | 32.38 | 34.9409 | 12.2 |
| ene | 13 | 2458861.75 | 19 | 38 | 54.99 | -22 | 10 | 18.03 | 34.9418 | 12.2 |
| ene | 14 | 2458862.75 | 19 | 39 | 3.59 | -22 | 10 | 3.14 | 34.9425 | 12.1 |
| ene | 15 | 2458863.75 | 19 | 39 | 12.23 | -22 | 9 | 48.12 | 34.9428 | 12.0 |
| ene | 16 | 2458864.75 | 19 | 39 | 20.86 | -22 | 9 | 33.27 | 34.9429 | 12.0 |
| ene | 17 | 2458865.75 | 19 | 39 | 29.49 | -22 | 9 | 18.44 | 34.9427 | 11.9 |
| ene | 18 | 2458866.75 | 19 | 39 | 38.11 | -22 | 9 | 3.61 | 34.9421 | 11.9 |
| ene | 19 | 2458867.75 | 19 | 39 | 46.73 | -22 | 8 | 48.79 | 34.9413 | 11.8 |
| ene | 20 | 2458868.75 | 19 | 39 | 55.33 | -22 | 8 | 33.97 | 34.9402 | 11.7 |
| ene | 21 | 2458869.75 | 19 | 40 | 3.93 | -22 | 8 | 19.18 | 34.9388 | 11.7 |
| ene | 22 | 2458870.75 | 19 | 40 | 12.51 | -22 | 8 | 4.44 | 34.9371 | 11.6 |
| ene | 23 | 2458871.75 | 19 | 40 | 21.08 | -22 | 7 | 49.74 | 34.9351 | 11.5 |
| ene | 24 | 2458872.75 | 19 | 40 | 29.62 | -22 | 7 | 35.11 | 34.9329 | 11.5 |
| ene | 25 | 2458873.75 | 19 | 40 | 38.14 | -22 | 7 | 20.54 | 34.9303 | 11.4 |
| ene | 26 | 2458874.75 | 19 | 40 | 46.63 | -22 | 7 | 6.04 | 34.9274 | 11.3 |
| ene | 27 | 2458875.75 | 19 | 40 | 55.10 | -22 | 6 | 51.60 | 34.9243 | 11.3 |
| ene | 28 | 2458876.75 | 19 | 41 | 3.53 | -22 | 6 | 37.22 | 34.9209 | 11.2 |
| ene | 29 | 2458877.75 | 19 | 41 | 11.93 | -22 | 6 | 22.91 | 34.9171 | 11.2 |
| ene | 30 | 2458878.75 | 19 | 41 | 20.30 | -22 | 6 | 8.65 | 34.9131 | 11.1 |
| ene | 31 | 2458879.75 | 19 | 41 | 28.63 | -22 | 5 | 54.46 | 34.9089 | 11.0 |
| feb | 1 | 2458880.75 | 19 | 41 | 36.92 | -22 | 5 | 40.34 | 34.9043 | 11.0 |
| feb | 2 | 2458881.75 | 19 | 41 | 45.18 | -22 | 5 | 26.29 | 34.8995 | 10.9 |
| feb | 3 | 2458882.75 | 19 | 41 | 53.40 | -22 | 5 | 12.32 | 34.8943 | 10.8 |
| feb | 4 | 2458883.75 | 19 | 42 | 1.59 | -22 | 4 | 58.44 | 34.8889 | 10.8 |
| feb | 5 | 2458884.75 | 19 | 42 | 9.73 | -22 | 4 | 44.67 | 34.8833 | 10.7 |
| feb | 6 | 2458885.75 | 19 | 42 | 17.82 | -22 | 4 | 31.01 | 34.8773 | 10.6 |
| feb | 7 | 2458886.75 | 19 | 42 | 25.87 | -22 | 4 | 17.48 | 34.8711 | 10.6 |
| feb | 8 | 2458887.75 | 19 | 42 | 33.87 | -22 | 4 | 4.10 | 34.8647 | 10.5 |
| feb | 9 | 2458888.75 | 19 | 42 | 41.82 | -22 | 3 | 50.86 | 34.8579 | 10.5 |
| feb | 10 | 2458889.75 | 19 | 42 | 49.71 | -22 | 3 | 37.76 | 34.8510 | 10.4 |
| feb | 11 | 2458890.75 | 19 | 42 | 57.54 | -22 | 3 | 24.80 | 34.8437 | 10.3 |
| feb | 12 | 2458891.75 | 19 | 43 | 5.31 | -22 | 3 | 11.96 | 34.8362 | 10.3 |
| feb | 13 | 2458892.75 | 19 | 43 | 13.02 | -22 | 2 | 59.24 | 34.8284 | 10.2 |
| feb | 14 | 2458893.75 | 19 | 43 | 20.68 | -22 | 2 | 46.64 | 34.8204 | 10.1 |
| feb | 15 | 2458894.75 | 19 | 43 | 28.27 | -22 | 2 | 34.17 | 34.8121 | 10.1 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| feb | 16 | 2458895.75 | 19 | 43 | 35.81 | -22 | 2 | 21.84 | 34.8036 | 10.0 |
| feb | 17 | 2458896.75 | 19 | 43 | 43.28 | -22 | 2 | 9.66 | 34.7949 | 9.9 |
| feb | 18 | 2458897.75 | 19 | 43 | 50.69 | -22 | 1 | 57.67 | 34.7859 | 9.9 |
| feb | 19 | 2458898.75 | 19 | 43 | 58.03 | -22 | 1 | 45.85 | 34.7766 | 9.8 |
| feb | 20 | 2458899.75 | 19 | 44 | 5.30 | -22 | 1 | 34.23 | 34.7671 | 9.8 |
| feb | 21 | 2458900.75 | 19 | 44 | 12.50 | -22 | 1 | 22.81 | 34.7574 | 9.7 |
| feb | 22 | 2458901.75 | 19 | 44 | 19.61 | -22 | 1 | 11.59 | 34.7475 | 9.6 |
| feb | 23 | 2458902.75 | 19 | 44 | 26.65 | -22 | 1 | 0.57 | 34.7373 | 9.6 |
| feb | 24 | 2458903.75 | 19 | 44 | 33.61 | -22 | 0 | 49.74 | 34.7269 | 9.5 |
| feb | 25 | 2458904.75 | 19 | 44 | 40.49 | -22 | 0 | 39.11 | 34.7162 | 9.4 |
| feb | 26 | 2458905.75 | 19 | 44 | 47.29 | -22 | 0 | 28.67 | 34.7054 | 9.4 |
| feb | 27 | 2458906.75 | 19 | 44 | 54.00 | -22 | 0 | 18.42 | 34.6943 | 9.3 |
| feb | 28 | 2458907.75 | 19 | 45 | 0.63 | -22 | 0 | 8.37 | 34.6831 | 9.2 |
| feb | 29 | 2458908.75 | 19 | 45 | 7.17 | -21 | 59 | 58.52 | 34.6716 | 9.2 |
| mar | 1 | 2458909.75 | 19 | 45 | 13.63 | -21 | 59 | 48.88 | 34.6599 | 9.1 |
| mar | 2 | 2458910.75 | 19 | 45 | 20.01 | -21 | 59 | 39.45 | 34.6480 | 9.1 |
| mar | 3 | 2458911.75 | 19 | 45 | 26.29 | -21 | 59 | 30.26 | 34.6359 | 9.0 |
| mar | 4 | 2458912.75 | 19 | 45 | 32.49 | -21 | 59 | 21.29 | 34.6237 | 8.9 |
| mar | 5 | 2458913.75 | 19 | 45 | 38.60 | -21 | 59 | 12.58 | 34.6112 | 8.9 |
| mar | 6 | 2458914.75 | 19 | 45 | 44.61 | -21 | 59 | 4.13 | 34.5986 | 8.8 |
| mar | 7 | 2458915.75 | 19 | 45 | 50.53 | -21 | 58 | 55.95 | 34.5858 | 8.7 |
| mar | 8 | 2458916.75 | 19 | 45 | 56.35 | -21 | 58 | 48.03 | 34.5728 | 8.7 |
| mar | 9 | 2458917.75 | 19 | 46 | 2.06 | -21 | 58 | 40.37 | 34.5596 | 8.6 |
| mar | 10 | 2458918.75 | 19 | 46 | 7.68 | -21 | 58 | 32.96 | 34.5463 | 8.5 |
| mar | 11 | 2458919.75 | 19 | 46 | 13.19 | -21 | 58 | 25.79 | 34.5328 | 8.5 |
| mar | 12 | 2458920.75 | 19 | 46 | 18.60 | -21 | 58 | 18.84 | 34.5191 | 8.4 |
| mar | 13 | 2458921.75 | 19 | 46 | 23.91 | -21 | 58 | 12.14 | 34.5053 | 8.4 |
| mar | 14 | 2458922.75 | 19 | 46 | 29.13 | -21 | 58 | 5.68 | 34.4914 | 8.3 |
| mar | 15 | 2458923.75 | 19 | 46 | 34.24 | -21 | 57 | 59.49 | 34.4773 | 8.2 |
| mar | 16 | 2458924.75 | 19 | 46 | 39.25 | -21 | 57 | 53.58 | 34.4630 | 8.2 |
| mar | 17 | 2458925.75 | 19 | 46 | 44.16 | -21 | 57 | 47.96 | 34.4486 | 8.1 |
| mar | 18 | 2458926.75 | 19 | 46 | 48.95 | -21 | 57 | 42.64 | 34.4341 | 8.0 |
| mar | 19 | 2458927.75 | 19 | 46 | 53.64 | -21 | 57 | 37.62 | 34.4194 | 8.0 |
| mar | 20 | 2458928.75 | 19 | 46 | 58.22 | -21 | 57 | 32.90 | 34.4046 | 7.9 |
| mar | 21 | 2458929.75 | 19 | 47 | 2.68 | -21 | 57 | 28.48 | 34.3897 | 7.8 |
| mar | 22 | 2458930.75 | 19 | 47 | 7.02 | -21 | 57 | 24.36 | 34.3747 | 7.8 |
| mar | 23 | 2458931.75 | 19 | 47 | 11.25 | -21 | 57 | 20.53 | 34.3595 | 7.7 |
| mar | 24 | 2458932.75 | 19 | 47 | 15.37 | -21 | 57 | 16.99 | 34.3443 | 7.6 |
| mar | 25 | 2458933.75 | 19 | 47 | 19.37 | -21 | 57 | 13.73 | 34.3289 | 7.6 |
| mar | 26 | 2458934.75 | 19 | 47 | 23.25 | -21 | 57 | 10.76 | 34.3135 | 7.5 |
| mar | 27 | 2458935.75 | 19 | 47 | 27.02 | -21 | 57 | 8.08 | 34.2979 | 7.4 |
| mar | 28 | 2458936.75 | 19 | 47 | 30.67 | -21 | 57 | 5.69 | 34.2823 | 7.4 |
| mar | 29 | 2458937.75 | 19 | 47 | 34.21 | -21 | 57 | 3.60 | 34.2666 | 7.3 |
| mar | 30 | 2458938.75 | 19 | 47 | 37.63 | -21 | 57 | 1.82 | 34.2508 | 7.3 |
| mar | 31 | 2458939.75 | 19 | 47 | 40.93 | -21 | 57 | 0.35 | 34.2349 | 7.2 |
| abr | 1 | 2458940.75 | 19 | 47 | 44.12 | -21 | 56 | 59.21 | 34.2189 | 7.1 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| abr | 2 | 2458941.75 | 19 | 47 | 47.19 | -21 | 56 | 58.39 | 34.2029 | 7.1 |
| abr | 3 | 2458942.75 | 19 | 47 | 50.14 | -21 | 56 | 57.92 | 34.1869 | 7.0 |
| abr | 4 | 2458943.75 | 19 | 47 | 52.96 | -21 | 56 | 57.78 | 34.1708 | 6.9 |
| abr | 5 | 2458944.75 | 19 | 47 | 55.65 | -21 | 56 | 57.97 | 34.1546 | 6.9 |
| abr | 6 | 2458945.75 | 19 | 47 | 58.23 | -21 | 56 | 58.49 | 34.1384 | 6.8 |
| abr | 7 | 2458946.75 | 19 | 48 | 0.67 | -21 | 56 | 59.31 | 34.1222 | 6.7 |
| abr | 8 | 2458947.75 | 19 | 48 | 3.00 | -21 | 57 | 0.43 | 34.1059 | 6.7 |
| abr | 9 | 2458948.75 | 19 | 48 | 5.20 | -21 | 57 | 1.83 | 34.0896 | 6.6 |
| abr | 10 | 2458949.75 | 19 | 48 | 7.29 | -21 | 57 | 3.54 | 34.0732 | 6.5 |
| abr | 11 | 2458950.75 | 19 | 48 | 9.25 | -21 | 57 | 5.55 | 34.0569 | 6.5 |
| abr | 12 | 2458951.75 | 19 | 48 | 11.10 | -21 | 57 | 7.89 | 34.0405 | 6.4 |
| abr | 13 | 2458952.75 | 19 | 48 | 12.82 | -21 | 57 | 10.57 | 34.0241 | 6.3 |
| abr | 14 | 2458953.75 | 19 | 48 | 14.42 | -21 | 57 | 13.59 | 34.0077 | 6.3 |
| abr | 15 | 2458954.75 | 19 | 48 | 15.90 | -21 | 57 | 16.96 | 33.9913 | 6.2 |
| abr | 16 | 2458955.75 | 19 | 48 | 17.24 | -21 | 57 | 20.66 | 33.9749 | 6.1 |
| abr | 17 | 2458956.75 | 19 | 48 | 18.46 | -21 | 57 | 24.71 | 33.9585 | 6.1 |
| abr | 18 | 2458957.75 | 19 | 48 | 19.55 | -21 | 57 | 29.09 | 33.9421 | 6.0 |
| abr | 19 | 2458958.75 | 19 | 48 | 20.52 | -21 | 57 | 33.79 | 33.9258 | 6.0 |
| abr | 20 | 2458959.75 | 19 | 48 | 21.35 | -21 | 57 | 38.80 | 33.9095 | 5.9 |
| abr | 21 | 2458960.75 | 19 | 48 | 22.06 | -21 | 57 | 44.13 | 33.8931 | 5.8 |
| abr | 22 | 2458961.75 | 19 | 48 | 22.65 | -21 | 57 | 49.77 | 33.8769 | 5.8 |
| abr | 23 | 2458962.75 | 19 | 48 | 23.11 | -21 | 57 | 55.72 | 33.8606 | 5.7 |
| abr | 24 | 2458963.75 | 19 | 48 | 23.45 | -21 | 58 | 1.97 | 33.8444 | 5.6 |
| abr | 25 | 2458964.75 | 19 | 48 | 23.67 | -21 | 58 | 8.54 | 33.8283 | 5.6 |
| abr | 26 | 2458965.75 | 19 | 48 | 23.76 | -21 | 58 | 15.42 | 33.8122 | 5.5 |
| abr | 27 | 2458966.75 | 19 | 48 | 23.74 | -21 | 58 | 22.62 | 33.7962 | 5.4 |
| abr | 28 | 2458967.75 | 19 | 48 | 23.59 | -21 | 58 | 30.14 | 33.7802 | 5.4 |
| abr | 29 | 2458968.75 | 19 | 48 | 23.32 | -21 | 58 | 38.00 | 33.7643 | 5.3 |
| abr | 30 | 2458969.75 | 19 | 48 | 22.92 | -21 | 58 | 46.20 | 33.7485 | 5.2 |
| may | 1 | 2458970.75 | 19 | 48 | 22.41 | -21 | 58 | 54.72 | 33.7328 | 5.2 |
| may | 2 | 2458971.75 | 19 | 48 | 21.76 | -21 | 59 | 3.57 | 33.7171 | 5.1 |
| may | 3 | 2458972.75 | 19 | 48 | 21.00 | -21 | 59 | 12.74 | 33.7015 | 5.0 |
| may | 4 | 2458973.75 | 19 | 48 | 20.11 | -21 | 59 | 22.21 | 33.6860 | 5.0 |
| may | 5 | 2458974.75 | 19 | 48 | 19.10 | -21 | 59 | 31.96 | 33.6707 | 4.9 |
| may | 6 | 2458975.75 | 19 | 48 | 17.97 | -21 | 59 | 41.98 | 33.6554 | 4.8 |
| may | 7 | 2458976.75 | 19 | 48 | 16.72 | -21 | 59 | 52.28 | 33.6402 | 4.8 |
| may | 8 | 2458977.75 | 19 | 48 | 15.37 | -22 | 0 | 2.85 | 33.6251 | 4.7 |
| may | 9 | 2458978.75 | 19 | 48 | 13.90 | -22 | 0 | 13.71 | 33.6102 | 4.6 |
| may | 10 | 2458979.75 | 19 | 48 | 12.32 | -22 | 0 | 24.87 | 33.5953 | 4.6 |
| may | 11 | 2458980.75 | 19 | 48 | 10.62 | -22 | 0 | 36.34 | 33.5806 | 4.5 |
| may | 12 | 2458981.75 | 19 | 48 | 8.81 | -22 | 0 | 48.12 | 33.5660 | 4.4 |
| may | 13 | 2458982.75 | 19 | 48 | 6.88 | -22 | 1 | 0.20 | 33.5516 | 4.4 |
| may | 14 | 2458983.75 | 19 | 48 | 4.83 | -22 | 1 | 12.58 | 33.5373 | 4.3 |
| may | 15 | 2458984.75 | 19 | 48 | 2.67 | -22 | 1 | 25.25 | 33.5231 | 4.2 |
| may | 16 | 2458985.75 | 19 | 48 | 0.40 | -22 | 1 | 38.19 | 33.5090 | 4.2 |
| may | 17 | 2458986.75 | 19 | 47 | 58.01 | -22 | 1 | 51.40 | 33.4951 | 4.1 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ - | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| may | 18 | 2458987.75 | 19 | 47 | 55.51 | -22 | 2 | 4.87 | 33.4814 | 4.0 |
| may | 19 | 2458988.75 | 19 | 47 | 52.90 | -22 | 2 | 18.59 | 33.4678 | 4.0 |
| may | 20 | 2458989.75 | 19 | 47 | 50.18 | -22 | 2 | 32.55 | 33.4544 | 3.9 |
| may | 21 | 2458990.75 | 19 | 47 | 47.36 | -22 | 2 | 46.75 | 33.4412 | 3.8 |
| may | 22 | 2458991.75 | 19 | 47 | 44.43 | -22 | 3 | 1.20 | 33.4281 | 3.8 |
| may | 23 | 2458992.75 | 19 | 47 | 41.41 | -22 | 3 | 15.89 | 33.4152 | 3.7 |
| may | 24 | 2458993.75 | 19 | 47 | 38.28 | -22 | 3 | 30.83 | 33.4024 | 3.6 |
| may | 25 | 2458994.75 | 19 | 47 | 35.06 | -22 | 3 | 46.02 | 33.3899 | 3.6 |
| may | 26 | 2458995.75 | 19 | 47 | 31.73 | -22 | 4 | 1.46 | 33.3775 | 3.5 |
| may | 27 | 2458996.75 | 19 | 47 | 28.31 | -22 | 4 | 17.15 | 33.3654 | 3.4 |
| may | 28 | 2458997.75 | 19 | 47 | 24.78 | -22 | 4 | 33.10 | 33.3534 | 3.4 |
| may | 29 | 2458998.75 | 19 | 47 | 21.16 | -22 | 4 | 49.28 | 33.3416 | 3.3 |
| may | 30 | 2458999.75 | 19 | 47 | 17.44 | -22 | 5 | 5.69 | 33.3301 | 3.2 |
| may | 31 | 2459000.75 | 19 | 47 | 13.62 | -22 | 5 | 22.32 | 33.3187 | 3.2 |
| jun | 1 | 2459001.75 | 19 | 47 | 9.71 | -22 | 5 | 39.14 | 33.3075 | 3.1 |
| jun | 2 | 2459002.75 | 19 | 47 | 5.72 | -22 | 5 | 56.13 | 33.2966 | 3.0 |
| jun | 3 | 2459003.75 | 19 | 47 | 1.63 | -22 | 6 | 13.31 | 33.2859 | 3.0 |
| jun | 4 | 2459004.75 | 19 | 46 | 57.46 | -22 | 6 | 30.65 | 33.2753 | 2.9 |
| jun | 5 | 2459005.75 | 19 | 46 | 53.22 | -22 | 6 | 48.17 | 33.2651 | 2.8 |
| jun | 6 | 2459006.75 | 19 | 46 | 48.89 | -22 | 7 | 5.88 | 33.2550 | 2.8 |
| jun | 7 | 2459007.75 | 19 | 46 | 44.48 | -22 | 7 | 23.79 | 33.2451 | 2.7 |
| jun | 8 | 2459008.75 | 19 | 46 | 40.00 | -22 | 7 | 41.89 | 33.2355 | 2.6 |
| jun | 9 | 2459009.75 | 19 | 46 | 35.43 | -22 | 8 | 0.19 | 33.2261 | 2.6 |
| jun | 10 | 2459010.75 | 19 | 46 | 30.78 | -22 | 8 | 18.67 | 33.2170 | 2.5 |
| jun | 11 | 2459011.75 | 19 | 46 | 26.05 | -22 | 8 | 37.33 | 33.2081 | 2.4 |
| jun | 12 | 2459012.75 | 19 | 46 | 21.25 | -22 | 8 | 56.14 | 33.1994 | 2.4 |
| jun | 13 | 2459013.75 | 19 | 46 | 16.37 | -22 | 9 | 15.10 | 33.1910 | 2.3 |
| jun | 14 | 2459014.75 | 19 | 46 | 11.42 | -22 | 9 | 34.19 | 33.1828 | 2.2 |
| jun | 15 | 2459015.75 | 19 | 46 | 6.40 | -22 | 9 | 53.41 | 33.1749 | 2.2 |
| jun | 16 | 2459016.75 | 19 | 46 | 1.31 | -22 | 10 | 12.74 | 33.1672 | 2.1 |
| jun | 17 | 2459017.75 | 19 | 45 | 56.16 | -22 | 10 | 32.19 | 33.1598 | 2.0 |
| jun | 18 | 2459018.75 | 19 | 45 | 50.95 | -22 | 10 | 51.75 | 33.1526 | 2.0 |
| jun | 19 | 2459019.75 | 19 | 45 | 45.68 | -22 | 11 | 11.42 | 33.1457 | 1.9 |
| jun | 20 | 2459020.75 | 19 | 45 | 40.36 | -22 | 11 | 31.20 | 33.1391 | 1.8 |
| jun | 21 | 2459021.75 | 19 | 45 | 34.98 | -22 | 11 | 51.08 | 33.1327 | 1.8 |
| jun | 22 | 2459022.75 | 19 | 45 | 29.55 | -22 | 12 | 11.09 | 33.1266 | 1.7 |
| jun | 23 | 2459023.75 | 19 | 45 | 24.06 | -22 | 12 | 31.20 | 33.1208 | 1.6 |
| jun | 24 | 2459024.75 | 19 | 45 | 18.52 | -22 | 12 | 51.43 | 33.1152 | 1.6 |
| jun | 25 | 2459025.75 | 19 | 45 | 12.93 | -22 | 13 | 11.75 | 33.1099 | 1.5 |
| jun | 26 | 2459026.75 | 19 | 45 | 7.30 | -22 | 13 | 32.16 | 33.1049 | 1.4 |
| jun | 27 | 2459027.75 | 19 | 45 | 1.61 | -22 | 13 | 52.64 | 33.1002 | 1.4 |
| jun | 28 | 2459028.75 | 19 | 44 | 55.88 | -22 | 14 | 13.17 | 33.0957 | 1.3 |
| jun | 29 | 2459029.75 | 19 | 44 | 50.11 | -22 | 14 | 33.74 | 33.0915 | 1.2 |
| jun | 30 | 2459030.75 | 19 | 44 | 44.31 | -22 | 14 | 54.33 | 33.0876 | 1.2 |
| jul | 1 | 2459031.75 | 19 | 44 | 38.47 | -22 | 15 | 14.95 | 33.0840 | 1.1 |
| jul | 2 | 2459032.75 | 19 | 44 | 32.60 | -22 | 15 | 35.59 | 33.0807 | 1.0 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| jul | 3 | 2459033.75 | 19 | 44 | 26.71 | -22 | 15 | 56.26 | 33.0776 | 1.0 |
| jul | 4 | 2459034.75 | 19 | 44 | 20.79 | -22 | 16 | 16.97 | 33.0748 | 0.9 |
| jul | 5 | 2459035.75 | 19 | 44 | 14.85 | -22 | 16 | 37.72 | 33.0723 | 0.8 |
| jul | 6 | 2459036.75 | 19 | 44 | 8.88 | -22 | 16 | 58.51 | 33.0701 | 0.8 |
| jul | 7 | 2459037.75 | 19 | 44 | 2.88 | -22 | 17 | 19.34 | 33.0682 | 0.7 |
| jul | 8 | 2459038.75 | 19 | 43 | 56.86 | -22 | 17 | 40.18 | 33.0666 | 0.6 |
| jul | 9 | 2459039.75 | 19 | 43 | 50.82 | -22 | 18 | 1.03 | 33.0653 | 0.6 |
| jul | 10 | 2459040.75 | 19 | 43 | 44.76 | -22 | 18 | 21.87 | 33.0642 | 0.5 |
| jul | 11 | 2459041.75 | 19 | 43 | 38.68 | -22 | 18 | 42.69 | 33.0634 | 0.4 |
| jul | 12 | 2459042.75 | 19 | 43 | 32.59 | -22 | 19 | 3.48 | 33.0630 | 0.4 |
| jul | 13 | 2459043.75 | 19 | 43 | 26.50 | -22 | 19 | 24.23 | 33.0628 | 0.3 |
| jul | 14 | 2459044.75 | 19 | 43 | 20.39 | -22 | 19 | 44.94 | 33.0629 | 0.2 |
| jul | 15 | 2459045.75 | 19 | 43 | 14.28 | -22 | 20 | 5.60 | 33.0633 | 0.2 |
| jul | 16 | 2459046.75 | 19 | 43 | 8.17 | -22 | 20 | 26.21 | 33.0640 | 0.1 |
| jul | 17 | 2459047.75 | 19 | 43 | 2.07 | -22 | 20 | 46.76 | 33.0650 | 0.0 |
| jul | 18 | 2459048.75 | 19 | 42 | 55.97 | -22 | 21 | 7.27 | 33.0663 | 23.9 |
| jul | 19 | 2459049.75 | 19 | 42 | 49.87 | -22 | 21 | 27.73 | 33.0678 | 23.9 |
| jul | 20 | 2459050.75 | 19 | 42 | 43.78 | -22 | 21 | 48.15 | 33.0697 | 23.8 |
| jul | 21 | 2459051.75 | 19 | 42 | 37.70 | -22 | 22 | 8.52 | 33.0719 | 23.7 |
| jul | 22 | 2459052.75 | 19 | 42 | 31.63 | -22 | 22 | 28.83 | 33.0743 | 23.7 |
| jul | 23 | 2459053.75 | 19 | 42 | 25.57 | -22 | 22 | 49.08 | 33.0771 | 23.6 |
| jul | 24 | 2459054.75 | 19 | 42 | 19.52 | -22 | 23 | 9.24 | 33.0801 | 23.5 |
| jul | 25 | 2459055.75 | 19 | 42 | 13.49 | -22 | 23 | 29.31 | 33.0834 | 23.5 |
| jul | 26 | 2459056.75 | 19 | 42 | 7.47 | -22 | 23 | 49.25 | 33.0870 | 23.4 |
| jul | 27 | 2459057.75 | 19 | 42 | 1.49 | -22 | 24 | 9.06 | 33.0909 | 23.3 |
| jul | 28 | 2459058.75 | 19 | 41 | 55.53 | -22 | 24 | 28.74 | 33.0951 | 23.3 |
| jul | 29 | 2459059.75 | 19 | 41 | 49.60 | -22 | 24 | 48.29 | 33.0996 | 23.2 |
| jul | 30 | 2459060.75 | 19 | 41 | 43.70 | -22 | 25 | 7.72 | 33.1044 | 23.1 |
| jul | 31 | 2459061.75 | 19 | 41 | 37.84 | -22 | 25 | 27.04 | 33.1094 | 23.1 |
| ago | 1 | 2459062.75 | 19 | 41 | 32.02 | -22 | 25 | 46.24 | 33.1147 | 23.0 |
| ago | 2 | 2459063.75 | 19 | 41 | 26.23 | -22 | 26 | 5.32 | 33.1203 | 22.9 |
| ago | 3 | 2459064.75 | 19 | 41 | 20.47 | -22 | 26 | 24.30 | 33.1262 | 22.9 |
| ago | 4 | 2459065.75 | 19 | 41 | 14.76 | -22 | 26 | 43.14 | 33.1324 | 22.8 |
| ago | 5 | 2459066.75 | 19 | 41 | 9.08 | -22 | 27 | 1.85 | 33.1388 | 22.7 |
| ago | 6 | 2459067.75 | 19 | 41 | 3.45 | -22 | 27 | 20.40 | 33.1455 | 22.7 |
| ago | 7 | 2459068.75 | 19 | 40 | 57.85 | -22 | 27 | 38.80 | 33.1525 | 22.6 |
| ago | 8 | 2459069.75 | 19 | 40 | 52.31 | -22 | 27 | 57.01 | 33.1597 | 22.5 |
| ago | 9 | 2459070.75 | 19 | 40 | 46.81 | -22 | 28 | 15.05 | 33.1673 | 22.5 |
| ago | 10 | 2459071.75 | 19 | 40 | 41.37 | -22 | 28 | 32.90 | 33.1750 | 22.4 |
| ago | 11 | 2459072.75 | 19 | 40 | 35.99 | -22 | 28 | 50.57 | 33.1831 | 22.3 |
| ago | 12 | 2459073.75 | 19 | 40 | 30.66 | -22 | 29 | 8.04 | 33.1914 | 22.3 |
| ago | 13 | 2459074.75 | 19 | 40 | 25.39 | -22 | 29 | 25.32 | 33.2000 | 22.2 |
| ago | 14 | 2459075.75 | 19 | 40 | 20.19 | -22 | 29 | 42.41 | 33.2088 | 22.1 |
| ago | 15 | 2459076.75 | 19 | 40 | 15.06 | -22 | 29 | 59.33 | 33.2179 | 22.1 |
| ago | 16 | 2459077.75 | 19 | 40 | 9.99 | -22 | 30 | 16.06 | 33.2273 | 22.0 |
| ago | 17 | 2459078.75 | 19 | 40 | 4.98 | -22 | 30 | 32.61 | 33.2369 | 21.9 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| ago | 18 | 2459079.75 | 19 | 40 | 0.05 | -22 | 30 | 48.98 | 33.2467 | 21.9 |
| ago | 19 | 2459080.75 | 19 | 39 | 55.18 | -22 | 31 | 5.16 | 33.2568 | 21.8 |
| ago | 20 | 2459081.75 | 19 | 39 | 50.38 | -22 | 31 | 21.13 | 33.2672 | 21.7 |
| ago | 21 | 2459082.75 | 19 | 39 | 45.65 | -22 | 31 | 36.88 | 33.2778 | 21.7 |
| ago | 22 | 2459083.75 | 19 | 39 | 40.99 | -22 | 31 | 52.39 | 33.2886 | 21.6 |
| ago | 23 | 2459084.75 | 19 | 39 | 36.42 | -22 | 32 | 7.65 | 33.2996 | 21.5 |
| ago | 24 | 2459085.75 | 19 | 39 | 31.93 | -22 | 32 | 22.65 | 33.3109 | 21.5 |
| ago | 25 | 2459086.75 | 19 | 39 | 27.53 | -22 | 32 | 37.41 | 33.3225 | 21.4 |
| ago | 26 | 2459087.75 | 19 | 39 | 23.21 | -22 | 32 | 51.92 | 33.3342 | 21.3 |
| ago | 27 | 2459088.75 | 19 | 39 | 18.98 | -22 | 33 | 6.21 | 33.3462 | 21.3 |
| ago | 28 | 2459089.75 | 19 | 39 | 14.85 | -22 | 33 | 20.26 | 33.3584 | 21.2 |
| ago | 29 | 2459090.75 | 19 | 39 | 10.80 | -22 | 33 | 34.10 | 33.3708 | 21.1 |
| ago | 30 | 2459091.75 | 19 | 39 | 6.83 | -22 | 33 | 47.71 | 33.3834 | 21.1 |
| ago | 31 | 2459092.75 | 19 | 39 | 2.96 | -22 | 34 | 1.09 | 33.3962 | 21.0 |
| sep | 1 | 2459093.75 | 19 | 38 | 59.18 | -22 | 34 | 14.22 | 33.4092 | 20.9 |
| sep | 2 | 2459094.75 | 19 | 38 | 55.49 | -22 | 34 | 27.11 | 33.4224 | 20.9 |
| sep | 3 | 2459095.75 | 19 | 38 | 51.89 | -22 | 34 | 39.74 | 33.4359 | 20.8 |
| sep | 4 | 2459096.75 | 19 | 38 | 48.39 | -22 | 34 | 52.09 | 33.4495 | 20.7 |
| sep | 5 | 2459097.75 | 19 | 38 | 44.98 | -22 | 35 | 4.17 | 33.4633 | 20.7 |
| sep | 6 | 2459098.75 | 19 | 38 | 41.68 | -22 | 35 | 15.97 | 33.4773 | 20.6 |
| sep | 7 | 2459099.75 | 19 | 38 | 38.48 | -22 | 35 | 27.48 | 33.4914 | 20.5 |
| sep | 8 | 2459100.75 | 19 | 38 | 35.38 | -22 | 35 | 38.72 | 33.5058 | 20.5 |
| sep | 9 | 2459101.75 | 19 | 38 | 32.39 | -22 | 35 | 49.67 | 33.5203 | 20.4 |
| sep | 10 | 2459102.75 | 19 | 38 | 29.51 | -22 | 36 | 0.35 | 33.5350 | 20.3 |
| sep | 11 | 2459103.75 | 19 | 38 | 26.74 | -22 | 36 | 10.77 | 33.5499 | 20.3 |
| sep | 12 | 2459104.75 | 19 | 38 | 24.08 | -22 | 36 | 20.91 | 33.5649 | 20.2 |
| sep | 13 | 2459105.75 | 19 | 38 | 21.53 | -22 | 36 | 30.80 | 33.5801 | 20.1 |
| sep | 14 | 2459106.75 | 19 | 38 | 19.08 | -22 | 36 | 40.43 | 33.5955 | 20.1 |
| sep | 15 | 2459107.75 | 19 | 38 | 16.75 | -22 | 36 | 49.79 | 33.6110 | 20.0 |
| sep | 16 | 2459108.75 | 19 | 38 | 14.52 | -22 | 36 | 58.88 | 33.6266 | 19.9 |
| sep | 17 | 2459109.75 | 19 | 38 | 12.41 | -22 | 37 | 7.68 | 33.6424 | 19.9 |
| sep | 18 | 2459110.75 | 19 | 38 | 10.40 | -22 | 37 | 16.18 | 33.6583 | 19.8 |
| sep | 19 | 2459111.75 | 19 | 38 | 8.52 | -22 | 37 | 24.36 | 33.6744 | 19.7 |
| sep | 20 | 2459112.75 | 19 | 38 | 6.75 | -22 | 37 | 32.22 | 33.6906 | 19.7 |
| sep | 21 | 2459113.75 | 19 | 38 | 5.11 | -22 | 37 | 39.76 | 33.7069 | 19.6 |
| sep | 22 | 2459114.75 | 19 | 38 | 3.58 | -22 | 37 | 47.00 | 33.7233 | 19.5 |
| sep | 23 | 2459115.75 | 19 | 38 | 2.19 | -22 | 37 | 53.95 | 33.7399 | 19.5 |
| sep | 24 | 2459116.75 | 19 | 38 | 0.91 | -22 | 38 | 0.61 | 33.7565 | 19.4 |
| sep | 25 | 2459117.75 | 19 | 37 | 59.75 | -22 | 38 | 7.00 | 33.7733 | 19.3 |
| sep | 26 | 2459118.75 | 19 | 37 | 58.72 | -22 | 38 | 13.12 | 33.7901 | 19.3 |
| sep | 27 | 2459119.75 | 19 | 37 | 57.80 | -22 | 38 | 18.95 | 33.8071 | 19.2 |
| sep | 28 | 2459120.75 | 19 | 37 | 57.00 | -22 | 38 | 24.50 | 33.8241 | 19.1 |
| sep | 29 | 2459121.75 | 19 | 37 | 56.32 | -22 | 38 | 29.75 | 33.8412 | 19.1 |
| sep | 30 | 2459122.75 | 19 | 37 | 55.77 | -22 | 38 | 34.70 | 33.8584 | 19.0 |
| oct | 1 | 2459123.75 | 19 | 37 | 55.33 | -22 | 38 | 39.34 | 33.8757 | 18.9 |
| oct | 2 | 2459124.75 | 19 | 37 | 55.02 | -22 | 38 | 43.67 | 33.8930 | 18.9 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | \circ | δ " | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|---------|---------------|-------|-----------|---------|
| oct | 3 | 2459125.75 | 19 | 37 | 54.83 | -22 | 38 | 47.68 | 33.9105 | 18.8 |
| oct | 4 | 2459126.75 | 19 | 37 | 54.76 | -22 | 38 | 51.37 | 33.9279 | 18.7 |
| oct | 5 | 2459127.75 | 19 | 37 | 54.83 | -22 | 38 | 54.75 | 33.9454 | 18.7 |
| oct | 6 | 2459128.75 | 19 | 37 | 55.02 | -22 | 38 | 57.82 | 33.9630 | 18.6 |
| oct | 7 | 2459129.75 | 19 | 37 | 55.34 | -22 | 39 | 0.59 | 33.9807 | 18.5 |
| oct | 8 | 2459130.75 | 19 | 37 | 55.79 | -22 | 39 | 3.06 | 33.9983 | 18.5 |
| oct | 9 | 2459131.75 | 19 | 37 | 56.37 | -22 | 39 | 5.24 | 34.0160 | 18.4 |
| oct | 10 | 2459132.75 | 19 | 37 | 57.08 | -22 | 39 | 7.13 | 34.0338 | 18.3 |
| oct | 11 | 2459133.75 | 19 | 37 | 57.91 | -22 | 39 | 8.75 | 34.0515 | 18.3 |
| oct | 12 | 2459134.75 | 19 | 37 | 58.86 | -22 | 39 | 10.08 | 34.0693 | 18.2 |
| oct | 13 | 2459135.75 | 19 | 37 | 59.94 | -22 | 39 | 11.13 | 34.0871 | 18.1 |
| oct | 14 | 2459136.75 | 19 | 38 | 1.14 | -22 | 39 | 11.88 | 34.1050 | 18.1 |
| oct | 15 | 2459137.75 | 19 | 38 | 2.47 | -22 | 39 | 12.33 | 34.1228 | 18.0 |
| oct | 16 | 2459138.75 | 19 | 38 | 3.93 | -22 | 39 | 12.45 | 34.1406 | 18.0 |
| oct | 17 | 2459139.75 | 19 | 38 | 5.51 | -22 | 39 | 12.24 | 34.1584 | 17.9 |
| oct | 18 | 2459140.75 | 19 | 38 | 7.22 | -22 | 39 | 11.71 | 34.1762 | 17.8 |
| oct | 19 | 2459141.75 | 19 | 38 | 9.06 | -22 | 39 | 10.86 | 34.1940 | 17.8 |
| oct | 20 | 2459142.75 | 19 | 38 | 11.04 | -22 | 39 | 9.71 | 34.2118 | 17.7 |
| oct | 21 | 2459143.75 | 19 | 38 | 13.14 | -22 | 39 | 8.28 | 34.2296 | 17.6 |
| oct | 22 | 2459144.75 | 19 | 38 | 15.37 | -22 | 39 | 6.58 | 34.2473 | 17.6 |
| oct | 23 | 2459145.75 | 19 | 38 | 17.73 | -22 | 39 | 4.61 | 34.2650 | 17.5 |
| oct | 24 | 2459146.75 | 19 | 38 | 20.21 | -22 | 39 | 2.37 | 34.2826 | 17.4 |
| oct | 25 | 2459147.75 | 19 | 38 | 22.80 | -22 | 38 | 59.85 | 34.3002 | 17.4 |
| oct | 26 | 2459148.75 | 19 | 38 | 25.52 | -22 | 38 | 57.05 | 34.3178 | 17.3 |
| oct | 27 | 2459149.75 | 19 | 38 | 28.36 | -22 | 38 | 53.97 | 34.3353 | 17.2 |
| oct | 28 | 2459150.75 | 19 | 38 | 31.32 | -22 | 38 | 50.58 | 34.3527 | 17.2 |
| oct | 29 | 2459151.75 | 19 | 38 | 34.40 | -22 | 38 | 46.91 | 34.3701 | 17.1 |
| oct | 30 | 2459152.75 | 19 | 38 | 37.60 | -22 | 38 | 42.93 | 34.3874 | 17.0 |
| oct | 31 | 2459153.75 | 19 | 38 | 40.92 | -22 | 38 | 38.66 | 34.4046 | 17.0 |
| nov | 1 | 2459154.75 | 19 | 38 | 44.36 | -22 | 38 | 34.10 | 34.4217 | 16.9 |
| nov | 2 | 2459155.75 | 19 | 38 | 47.93 | -22 | 38 | 29.25 | 34.4388 | 16.8 |
| nov | 3 | 2459156.75 | 19 | 38 | 51.61 | -22 | 38 | 24.12 | 34.4558 | 16.8 |
| nov | 4 | 2459157.75 | 19 | 38 | 55.42 | -22 | 38 | 18.71 | 34.4726 | 16.7 |
| nov | 5 | 2459158.75 | 19 | 38 | 59.34 | -22 | 38 | 13.05 | 34.4894 | 16.7 |
| nov | 6 | 2459159.75 | 19 | 39 | 3.39 | -22 | 38 | 7.14 | 34.5061 | 16.6 |
| nov | 7 | 2459160.75 | 19 | 39 | 7.54 | -22 | 38 | 0.97 | 34.5227 | 16.5 |
| nov | 8 | 2459161.75 | 19 | 39 | 11.82 | -22 | 37 | 54.56 | 34.5391 | 16.5 |
| nov | 9 | 2459162.75 | 19 | 39 | 16.20 | -22 | 37 | 47.90 | 34.5555 | 16.4 |
| nov | 10 | 2459163.75 | 19 | 39 | 20.69 | -22 | 37 | 40.99 | 34.5717 | 16.3 |
| nov | 11 | 2459164.75 | 19 | 39 | 25.29 | -22 | 37 | 33.82 | 34.5878 | 16.3 |
| nov | 12 | 2459165.75 | 19 | 39 | 30.00 | -22 | 37 | 26.37 | 34.6038 | 16.2 |
| nov | 13 | 2459166.75 | 19 | 39 | 34.82 | -22 | 37 | 18.65 | 34.6196 | 16.1 |
| nov | 14 | 2459167.75 | 19 | 39 | 39.75 | -22 | 37 | 10.64 | 34.6353 | 16.1 |
| nov | 15 | 2459168.75 | 19 | 39 | 44.80 | -22 | 37 | 2.36 | 34.6509 | 16.0 |
| nov | 16 | 2459169.75 | 19 | 39 | 49.95 | -22 | 36 | 53.82 | 34.6663 | 15.9 |
| nov | 17 | 2459170.75 | 19 | 39 | 55.22 | -22 | 36 | 45.04 | 34.6815 | 15.9 |

Plutón (planeta enano), 2020

Efemérides a las 0^h del meridiano 90° W.G.

| mes | día | dj | h | α m | s | ° | δ ' | " | dis UA | hp h |
|-----|-----|------------|----|---------------|-------|-----|---------------|-------|-----------|---------|
| nov | 18 | 2459171.75 | 19 | 40 | 0.59 | -22 | 36 | 36.04 | 34.6966 | 15.8 |
| nov | 19 | 2459172.75 | 19 | 40 | 6.07 | -22 | 36 | 26.83 | 34.7115 | 15.8 |
| nov | 20 | 2459173.75 | 19 | 40 | 11.64 | -22 | 36 | 17.41 | 34.7263 | 15.7 |
| nov | 21 | 2459174.75 | 19 | 40 | 17.31 | -22 | 36 | 7.77 | 34.7408 | 15.6 |
| nov | 22 | 2459175.75 | 19 | 40 | 23.08 | -22 | 35 | 57.91 | 34.7552 | 15.6 |
| nov | 23 | 2459176.75 | 19 | 40 | 28.94 | -22 | 35 | 47.84 | 34.7695 | 15.5 |
| nov | 24 | 2459177.75 | 19 | 40 | 34.89 | -22 | 35 | 37.53 | 34.7835 | 15.4 |
| nov | 25 | 2459178.75 | 19 | 40 | 40.94 | -22 | 35 | 26.99 | 34.7974 | 15.4 |
| nov | 26 | 2459179.75 | 19 | 40 | 47.07 | -22 | 35 | 16.22 | 34.8110 | 15.3 |
| nov | 27 | 2459180.75 | 19 | 40 | 53.30 | -22 | 35 | 5.23 | 34.8245 | 15.2 |
| nov | 28 | 2459181.75 | 19 | 40 | 59.63 | -22 | 34 | 54.01 | 34.8378 | 15.2 |
| nov | 29 | 2459182.75 | 19 | 41 | 6.04 | -22 | 34 | 42.57 | 34.8508 | 15.1 |
| nov | 30 | 2459183.75 | 19 | 41 | 12.54 | -22 | 34 | 30.93 | 34.8637 | 15.0 |
| dic | 1 | 2459184.75 | 19 | 41 | 19.13 | -22 | 34 | 19.08 | 34.8763 | 15.0 |
| dic | 2 | 2459185.75 | 19 | 41 | 25.81 | -22 | 34 | 7.06 | 34.8888 | 14.9 |
| dic | 3 | 2459186.75 | 19 | 41 | 32.57 | -22 | 33 | 54.85 | 34.9010 | 14.9 |
| dic | 4 | 2459187.75 | 19 | 41 | 39.41 | -22 | 33 | 42.48 | 34.9130 | 14.8 |
| dic | 5 | 2459188.75 | 19 | 41 | 46.32 | -22 | 33 | 29.94 | 34.9248 | 14.7 |
| dic | 6 | 2459189.75 | 19 | 41 | 53.32 | -22 | 33 | 17.24 | 34.9364 | 14.7 |
| dic | 7 | 2459190.75 | 19 | 42 | 0.38 | -22 | 33 | 4.37 | 34.9477 | 14.6 |
| dic | 8 | 2459191.75 | 19 | 42 | 7.52 | -22 | 32 | 51.33 | 34.9588 | 14.5 |
| dic | 9 | 2459192.75 | 19 | 42 | 14.73 | -22 | 32 | 38.11 | 34.9697 | 14.5 |
| dic | 10 | 2459193.75 | 19 | 42 | 22.01 | -22 | 32 | 24.71 | 34.9803 | 14.4 |
| dic | 11 | 2459194.75 | 19 | 42 | 29.36 | -22 | 32 | 11.11 | 34.9907 | 14.3 |
| dic | 12 | 2459195.75 | 19 | 42 | 36.78 | -22 | 31 | 57.34 | 35.0008 | 14.3 |
| dic | 13 | 2459196.75 | 19 | 42 | 44.28 | -22 | 31 | 43.39 | 35.0107 | 14.2 |
| dic | 14 | 2459197.75 | 19 | 42 | 51.84 | -22 | 31 | 29.29 | 35.0203 | 14.2 |
| dic | 15 | 2459198.75 | 19 | 42 | 59.47 | -22 | 31 | 15.06 | 35.0297 | 14.1 |
| dic | 16 | 2459199.75 | 19 | 43 | 7.16 | -22 | 31 | 0.71 | 35.0389 | 14.0 |
| dic | 17 | 2459200.75 | 19 | 43 | 14.90 | -22 | 30 | 46.25 | 35.0477 | 14.0 |
| dic | 18 | 2459201.75 | 19 | 43 | 22.70 | -22 | 30 | 31.69 | 35.0563 | 13.9 |
| dic | 19 | 2459202.75 | 19 | 43 | 30.55 | -22 | 30 | 17.01 | 35.0647 | 13.8 |
| dic | 20 | 2459203.75 | 19 | 43 | 38.45 | -22 | 30 | 2.22 | 35.0728 | 13.8 |
| dic | 21 | 2459204.75 | 19 | 43 | 46.39 | -22 | 29 | 47.30 | 35.0806 | 13.7 |
| dic | 22 | 2459205.75 | 19 | 43 | 54.39 | -22 | 29 | 32.27 | 35.0881 | 13.6 |
| dic | 23 | 2459206.75 | 19 | 44 | 2.42 | -22 | 29 | 17.11 | 35.0954 | 13.6 |
| dic | 24 | 2459207.75 | 19 | 44 | 10.51 | -22 | 29 | 1.83 | 35.1024 | 13.5 |
| dic | 25 | 2459208.75 | 19 | 44 | 18.63 | -22 | 28 | 46.44 | 35.1091 | 13.5 |
| dic | 26 | 2459209.75 | 19 | 44 | 26.80 | -22 | 28 | 30.94 | 35.1155 | 13.4 |
| dic | 27 | 2459210.75 | 19 | 44 | 35.02 | -22 | 28 | 15.35 | 35.1217 | 13.3 |
| dic | 28 | 2459211.75 | 19 | 44 | 43.27 | -22 | 27 | 59.67 | 35.1276 | 13.3 |
| dic | 29 | 2459212.75 | 19 | 44 | 51.55 | -22 | 27 | 43.92 | 35.1332 | 13.2 |
| dic | 30 | 2459213.75 | 19 | 44 | 59.88 | -22 | 27 | 28.11 | 35.1385 | 13.1 |
| dic | 31 | 2459214.75 | 19 | 45 | 8.23 | -22 | 27 | 12.24 | 35.1436 | 13.1 |

Satélite de los planetas, 2020

| Planeta | Satélite | Periodo orbital (días) | Semi eje mayor (10 ³ km) | Excentricidad de la órbita | Inclinación de la órbita | Masa (kg) | Radio (km) | Albedo |
|---------|---------------|------------------------|-------------------------------------|----------------------------|--------------------------|-----------------|------------|--------------|
| Tie | 1 Luna | 27.321661 | 384.400 | 0.0549018 | 2-28.58 | p1.23000371E-02 | 1737.40 | 0.11 0.07 |
| Mar | 1 Fobos | 0.31891011 | 9.376 | 0.01510 | 1.075 | p 1.6720E-08 | 7.81 | irr 0.07 |
| Mar | 2 Deimos | 1.26244080 | 23.458 | 0.00020 | 1.788 | p 2.4300E-09 | 10.35 | irr |
| Júp | 1 Io | 1.76914 | 421.800 | 0.00410 | 0.036 | p 4.7040E-05 | 1821.35 | irr 0.62 |
| Júp | 2 Europa | 3.55118 | 671.100 | 0.00940 | 0.466 | p 2.5280E-05 | 1562.00 | irr 0.68 |
| Júp | 3 Ganimedes | 7.15455 | 1070.400 | 0.00130 | 0.177 | p 7.8050E-05 | 2632.30 | 0.44 |
| Júp | 4 Calixto | 16.88902 | 1882.700 | 0.00740 | 0.192 | p 5.6670E-05 | 2409.30 | 0.19 |
| Júp | 5 Amaltea | 0.49818 | 181.400 | 0.00320 | 0.380 | p 1.1000E-09 | 92.09 | irr 0.09 |
| Júp | 6 Himalia | 250.56000 | 11461.000 | 0.16230 | 27.496 | p 2.2000E-09 | 85.00 | 0.04 |
| Júp | 7 Elara | 259.64000 | 11471.000 | 0.21740 | 26.627 | p 4.5800E-10 | 40.00 | 0.04 |
| Júp | 8 Pasifae | 743.63000 | 23624.000 | 0.40900 | 151.431 | p 1.5800E-10 | 18.00 | 0.04 |
| Júp | 9 Sinope | 758.90000 | 23939.000 | 0.24950 | 158.109 | p 3.9500E-11 | 14.00 | 0.04 |
| Júp | 10 Lisistea | 259.20000 | 11717.000 | 0.11240 | 28.302 | p 3.3100E-11 | 12.00 | 0.04 |
| Júp | 11 Carmé | 734.14000 | 23404.000 | 0.25330 | 164.907 | p 6.9400E-11 | 15.00 | 0.04 |
| Júp | 12 Ananque | 629.77000 | 21276.000 | 0.24350 | 148.889 | p 1.5800E-11 | 10.00 | 0.04 |
| Júp | 13 Leda | 240.92000 | 11165.000 | 0.16360 | 27.457 | p 5.7600E-12 | 5.00 | 0.04 |
| Júp | 14 Tebe | 0.67500 | 221.900 | 0.01760 | 1.080 | p 7.8900E-10 | 50.52 | irr 0.05 |
| Júp | 15 Adrastea | 0.29800 | 129.000 | 0.00180 | 0.054 | p 3.9500E-12 | 8.52 | irr 0.10 |
| Júp | 16 Metis | 0.29500 | 128.000 | 0.00120 | 0.019 | p 6.3100E-11 | 23.70 | irr 0.06 |
| Júp | 17 Calirre | 736.00000 | 24596.240 | 0.20600 | 143.000 | e | 4.30 | 0.04 |
| Júp | 18 Temixto | 130.00000 | 7450.000 | 0.20000 | 46.000 | e | 4.00 | 0.04 |
| Júp | 19 Megaclito | 734.10000 | 23439.080 | 0.52770 | 151.700 | e | 2.70 | 0.04 |
| Júp | 20 Taiguet | 650.10000 | 21671.850 | 0.24600 | 163.545 | e | 2.50 | 0.04 |
| Júp | 21 Caldena | 591.70000 | 20299.460 | 0.15530 | 165.620 | e | 1.90 | 0.04 |
| Júp | 22 Harpalika | 617.30000 | 20917.720 | 0.20030 | 149.288 | e | 2.20 | 0.04 |
| Júp | 23 Kalica | 767.00000 | r 24135.610 | 0.31770 | 165.792 | e | 2.60 | 0.04 |
| Júp | 24 Iocasta | 606.30000 | r 20642.860 | 0.26860 | 149.906 | e | 2.60 | 0.04 |
| Júp | 25 Erinoma | 661.10000 | r 21867.750 | 0.34650 | 160.909 | e | 1.60 | 0.04 |
| Júp | 26 Isunoa | 704.90000 | r 22804.700 | 0.28090 | 165.039 | e | 1.90 | 0.04 |
| Júp | 27 Praxiodica | 624.60000 | r 21098.100 | 0.14580 | 146.353 | e | 3.40 | 0.04 |
| Júp | 28 Autonoo | 778.00000 | r 24413.090 | 0.45860 | 153.056 | e | 2.00 | 0.04 |
| Júp | 29 Tiona | 610.00000 | r 20769.900 | 0.28830 | 148.286 | e | 2.00 | 0.04 |
| Júp | 30 Hermipe | 624.60000 | r 21047.990 | 0.24790 | 149.785 | e | 2.00 | 0.04 |
| Júp | 31 Gitna | 679.30000 | r 22274.410 | 0.31120 | 164.343 | e | 1.50 | 0.04 |
| Júp | 32 Euridome | 752.40000 | r 23830.940 | 0.32550 | 150.430 | e | 1.50 | 0.04 |
| Júp | 33 Euanda | 620.90000 | r 20983.140 | 0.14270 | 146.030 | e | 1.50 | 0.04 |
| Júp | 36 Esponda | 690.30000 | r 22548.240 | 0.51890 | 155.220 | e | 1.00 | 0.04 |
| Júp | 37 Kala | 679.40000 | r 22300.640 | 0.32500 | 164.794 | e | 1.00 | 0.04 |
| Júp | 39 Egémona | 715.00000 | r 23006.330 | 0.24940 | 152.330 | e | 1.50 | 0.04 |
| Júp | 41 Oda | 747.00000 | r 23743.830 | 0.40510 | 159.408 | e | 2.00 | 0.04 |
| Júp | 43 Arca | 748.70000 | r 23765.120 | 0.22370 | 163.254 | e | 1.50 | 0.04 |
| Júp | 45 Élica | 601.40000 | r 20540.270 | 0.13750 | 154.587 | e | 2.00 | 0.04 |
| Júp | 46 Carpo | 455.07000 | r 17056.040 | 0.29490 | 55.147 | e | 1.50 | 0.04 |
| Júp | 47 Euquelade | 735.27000 | r 23485.28 | 0.28280 | 164.000 | e | 2.00 | 0.04 |
| Júp | 53 Dia | 287.00000 | 12118.000 | 0.21100 | 28.230 | | 1.00 | 0.04 |
| Sat | 1 Mimas | 0.94242 | 185.539 | 0.01960 | 1.574 | p 6.6100E-08 | 198.62 | irr 0.60 |
| Sat | 2 Encélado | 1.37022 | 238.042 | 0.00000 | 0.003 | p 1.9000E-07 | 252.15 | irr 1.00 |
| Sat | 3 Tetis | 1.88780 | 294.672 | 0.00010 | 1.091 | p 1.0900E-06 | 531.05 | irr 0.80 |
| Sat | 4 Dione | 2.73692 | 377.415 | 0.00220 | 0.026 | p 1.9300E-06 | 560.45 | irr 0.60 |
| Sat | 5 Rea | 4.51750 | 527.068 | 0.00020 | 0.333 | p 4.0600E-06 | 763.50 | irr 0.60 |
| Sat | 6 Titán | 15.94545 | 1221.865 | 0.02880 | 0.306 | p 2.3660E-04 | 2574.73 | 0.20 |

Satélite de los planetas, 2020

| Planeta | Satélite | Periodo orbital (días) | Semi eje mayor (10 ³ km) | Excentricidad de la órbita | Inclinación de la órbita | Masa (kg) | Radio (km) | Albedo |
|---------|--------------|------------------------|-------------------------------------|----------------------------|--------------------------|------------|------------|----------|
| Sat | 7 Hiperión | 21.27666 | 1500.933 | 0.02320 | 0.615 p | 1.0000E-08 | 145.69 | irr 0.25 |
| Sat | 8 Iapetos | 79.33112 | 3560.854 | 0.02930 | 8.298 p | 3.1770E-06 | 734.84 | irr 0.20 |
| Sat | 9 Febe | 546.41400 r | 12893.240 | 0.17560 | 173.730 e | 1.4540E-08 | 106.67 | irr 0.08 |
| Sat | 10 Jano | 0.69500 | 151.460 | 0.00680 | 0.163 p | 3.3380E-09 | 91.28 | irr 0.71 |
| Sat | 11 Epimeteo | 0.69400 | 151.410 | 0.00980 | 0.351 p | 9.2630E-10 | 58.75 | irr 0.73 |
| Sat | 12 Elena | 2.74000 | 377.400 | 0.00000 | 0.212 p | 4.4800E-11 | 18.63 | irr 1.67 |
| Sat | 13 Telesto | 1.88800 | 294.660 | 0.00100 | 1.158 p | 1.2650E-11 | 13.25 | irr 1.00 |
| Sat | 14 Calipso | 1.88800 | 294.660 | 0.00100 | 1.473 p | 6.3250E-12 | 12.09 | irr 0.70 |
| Sat | 15 Atlas | 0.60200 | 137.670 | 0.00120 | 0.003 p | 1.1610E-11 | 17.05 | irr 0.40 |
| Sat | 16 Prometeo | 0.61300 | 139.380 | 0.00220 | 0.008 p | 2.8060E-10 | 51.11 | irr 0.60 |
| Sat | 17 Pandora | 0.62900 | 141.720 | 0.00420 | 0.050 p | 2.4120E-10 | 43.08 | irr 0.50 |
| Sat | 18 Pan | 0.57500 | 133.585 | 0.00000 | 0.000 p | 8.7070E-12 | 14.98 | irr 0.50 |
| Sat | 19 Aimir | 1315.13000 r | 23128.000 | 0.33380 | 173.496 p | | 10.00 | 0.08 |
| Sat | 20 Paalia | 686.95000 | 15204.000 | 0.33250 | 46.230 p | | 13.00 | 0.08 |
| Sat | 21 Tarrus | 926.35000 | 18243.000 | 0.52820 | 33.725 p | | 7.00 | 0.08 |
| Sat | 22 Ijira | 451.42000 | 11408.000 | 0.27210 | 47.483 p | | 6.00 | 0.08 |
| Sat | 24 Quivio | 449.22000 | 11384.000 | 0.33250 | 46.766 p | | 8.00 | 0.08 |
| Sat | 26 Alborer | 783.46000 | 16393.000 | 0.47970 | 34.059 p | | 16.00 | 0.08 |
| Sat | 29 Sarmac | 895.51000 | 18182.000 | 0.28010 | 45.809 p | | 21.00 | 0.08 |
| Ura | 1 Ariel | 2.52038 | 190.900 | 0.00120 | 0.041 p | 1.5600E-05 | 578.90 | irr 0.39 |
| Ura | 2 Umbriel | 4.14418 | 266.000 | 0.00390 | 0.128 p | 1.3500E-05 | 584.70 | 0.21 |
| Ura | 3 Titania | 8.70587 | 436.300 | 0.00110 | 0.079 p | 4.0600E-05 | 788.90 | 0.27 |
| Ura | 4 Oberón | 13.46323 | 583.500 | 0.00140 | 0.068 p | 3.4700E-05 | 761.40 | 0.23 |
| Ura | 5 Miranda | 1.41348 | 129.900 | 0.00130 | 4.338 p | 8.0000E-06 | 235.88 | irr 0.32 |
| Ura | 7 Ofelia | 0.37640 | 53.800 | 0.00990 | 0.104 p | 6.2100E-10 | 21.40 | 0.07 |
| Ura | 8 Bianca | 0.43458 | 59.200 | 0.00090 | 0.193 p | 1.0700E-09 | 25.70 | 0.07 |
| Ura | 9 Crésida | 0.46357 | 61.800 | 0.00040 | 0.006 p | 3.9500E-09 | 39.80 | 0.07 |
| Ura | 10 Desdémona | 0.47365 | 62.700 | 0.00010 | 0.113 p | 2.0500E-09 | 32.00 | 0.07 |
| Ura | 11 Julieta | 0.49307 | 64.400 | 0.00070 | 0.065 p | 6.4200E-09 | 46.80 | 0.07 |
| Ura | 12 Porcia | 0.51320 | 66.100 | 0.00010 | 0.059 p | 1.9200E-08 | 67.60 | 0.07 |
| Ura | 13 Rosalinda | 0.55846 | 69.900 | 0.00010 | 0.279 p | 2.9300E-09 | 36.00 | 0.07 |
| Ura | 14 Belinda | 0.62353 | 75.300 | 0.00010 | 0.031 p | 4.1100E-09 | 40.30 | 0.07 |
| Ura | 15 Pucle | 0.76183 | 86.000 | 0.18000 | 0.319 p | 3.3300E-08 | 81.00 | 0.07 |
| Ura | 16 Calibán | 579.73000 r | 7231.000 | 0.52000 | 141.530 e | 8.4500E-09 | 36.00 | 0.04 |
| Ura | 17 Sícórax | 1288.33000 r | 12179.000 | | 159.420 e | 6.1900E-08 | 75.00 | 0.04 |
| Nep | 1 Tritón | 5.87685 r | 354.759 | 0.00000 | 156.865 p | 2.0890E-04 | 1353.00 | 0.72 |
| Nep | 2 Nereida | 360.13000 | 5513.818 | 0.75070 | 7.090 p | 3.0100E-07 | 170.00 | 0.16 |
| Nep | 5 Despina | 0.33466 | 52.526 | 0.00014 | 0.070 p | 2.0500E-08 | 74.00 | 0.09 |
| Nep | 6 Galatea | 0.42875 | 61.953 | 0.00012 | 0.050 p | 3.6600E-08 | 79.00 | 0.08 |
| Nep | 7 Larisa | 0.55465 | 73.548 | 0.00139 | 0.200 p | 4.8300E-08 | 96.00 | 0.09 |
| Nep | 8 Proteo | 1.12200 | 117.646 | 0.00050 | 0.075 p | 4.9140E-07 | 209.23 | irr 0.10 |
| Plu | 1 Caronte | 6.38723 | 19.571 | 0.00000 | 96.145 t | 1.1650E-01 | 606.00 | 0.37 |

r movimiento retrogrado

irr forma irregular

p inclinación de la órbita relativa al ecuador del planeta

e inclinación de la órbita relativa a la eclíptica

t inclinación de la órbita relativa al ecuador terrestre

Parámetros orbitales y físicos, 2020

Parámetros de las órbitas de los planetas

(a las 0h del meridiano 90° W.G. del 7 de enero del 2017)

| Planetas | Semieje mayor en UA | Revolución en años trópicos | Excentricidad | Inclinación ° | Aplanamiento geométrico (x10 ⁻³) |
|----------|---------------------|-----------------------------|---------------|---------------|--|
| Mercurio | 0.3870983 | 0.251 | 0.2056272 | 7.00400 | 0 |
| Venus | 0.7233267 | 0.615 | 0.0067404 | 3.39442 | 0 |
| Tierra | 0.9999985 | 1.000 | 0.0167015 | 0.00217 | 3.354 |
| Marte | 1.5237182 | 1.881 | 0.0935073 | 1.82839 | 6.772 |
| Júpiter | 5.202041 | 11.862 | 0.0489192 | 1.30373 | 5.000 |
| Saturno | 9.558687 | 29.458 | 0.0530788 | 2.48732 | 64.874 |
| Urano | 19.10948 | 84.013 | 0.0508390 | 0.77193 | 97.462 |
| Neptuno | 29.96013 | 164.749 | 0.0064668 | 1.77232 | 22.927 |

Parámetros físicos de la Luna y los planetas

| | radio | masa | densidad | período de rotación | semidiámetro mínimo |
|----------|---------|---------------------------|-------------------|---------------------|---------------------|
| | km | kg | g/cm ³ | días | " |
| Luna | 1737.4 | 7.3458 x 10 ²² | 3.34 | + 27.32166 | 2010.7 |
| Mercurio | 2439.7 | 3.3010 x 10 ²³ | 5.43 | + 58.6462 | 12.3 |
| Venus | 6051.8 | 4.8673 x 10 ²⁴ | 5.24 | - 243.0185 | 63.0 |
| Tierra | 6378.1 | 5.9721 x 10 ²⁴ | 5.513 | + 0.99726963 | |
| Marte | 3396.2 | 6.4169 x 10 ²³ | 3.93 | + 1.02595676 | 25.1 |
| Júpiter | 71492.0 | 1.8981 x 10 ²⁷ | 1.33 | + 0.41354 | 49.9 |
| Saturno | 60268.0 | 5.6831 x 10 ²⁶ | 0.69 | + 0.44401 | 20.7 |
| Urano | 25559.0 | 8.6890 x 10 ²⁵ | 1.27 | - 0.71833 | 4.1 |
| Neptuno | 24764.0 | 1.0241 x 10 ²⁶ | 1.64 | + 0.67125 | 2.4 |
| Plutón | 1195.0 | 1.3041 x 10 ²² | 1.82 | - 6.3872 | 0.11 |

* Movimiento de rotación retrógrado

Sistema de constantes y parámetros, 2020

Unión Astronómica Internacional (IAU 1976)

Tiempos y épocas de referencia

Duración del año en 1990

| Año | d | d | h | m | s |
|---|------------|-----|----|----|-------|
| Trópico (equinoccio a equinoccio) | 365.242190 | 365 | 05 | 48 | 45.19 |
| Sideral (estrella fija a estrella fija) | 365.256363 | 365 | 06 | 09 | 10 |
| Anomalístico (perihelio a perihelio) | 365.259636 | 365 | 06 | 13 | 53 |
| Eclipsar (nodo lunar a nodo lunar) | 346.620078 | 346 | 14 | 52 | 52 |
| Juliano | 365.25 | 365 | 06 | 00 | 00 |

Duración del mes

| | | | | | |
|---|----------|----|----|----|----|
| Sinódico (luna nueva a luna nueva) | 29.53059 | 29 | 12 | 44 | 03 |
| Trópico (equinoccio a equinoccio) | 27.32158 | 27 | 07 | 43 | 05 |
| Sideral (estrella fija a estrella fija) | 27.32166 | 27 | 07 | 43 | 12 |
| Anomalístico (perigeo a perigeo) | 27.55455 | 27 | 13 | 18 | 33 |
| Draconítico (nodo a nodo) | 27.21222 | 27 | 05 | 36 | |

Duración del día

| | Día sideral medio | | | segundos siderales | |
|---------------------------------|-------------------|----|----|--------------------|--------------|
| | d | h | m | s | s |
| Un día del tiempo solar medio | 1.00273790935 | 24 | 03 | 56.555367 | 86636.555367 |
| | Día solar medio | | | segundos solares | |
| | d | h | m | s | s |
| Un día del tiempo sideral medio | 0.99726956633 | 23 | 56 | 04.09054 | 86164.09054 |

Épocas de referencia para los años Juliano (J) y Beseliano (B)

| Año Juliano | DJ |
|----------------|-------------|
| J1900.0 | 2415020.0 |
| J1950.0 | 2433282.5 |
| J2000.0 | 2451545.0 |
| J2050.0 | 2469807.5 |
| J2100.0 | 2488070.0 |
| | |
| B1850.0 | 2396758.203 |
| B1900.0 | 2415020.313 |
| B1950.0 | 2433282.423 |
| B1975.0 | 2442413.478 |
| B2000.0 | 2451544.533 |
| B2025.0 | 2460675.588 |
| B2050.0 | 2469806.643 |
| B2100.0 | 2488068.753 |
| | |
| 1900 enero 0.5 | 2415020.0 |
| 1925 enero 0.5 | 2424151.0 |
| 1950 enero 0.5 | 2433282.0 |
| 2000 enero 0.5 | 2451544.0 |
| 2050 enero 0.5 | 2469807.0 |
| 2100 enero 0.5 | 2488069.0 |

Sistema de constantes y parámetros, 2020

Unión Astronómica Internacional (IAU 1976)

Parámetros del Sol, la Tierra y la Luna

| | |
|---|---|
| Sol | |
| Radio | 6.96×10^8 m |
| Semidiámetro a la distancia media | $15' 59.63'' = 959.63''$ |
| Masa | 1.9891×10^{33} g |
| Densidad media | 1.41 g cm ⁻³ |
| Gravedad superficial | $29,398$ cm s ⁻² |
| Inclinación del ecuador solar (respecto de la eclíptica) | $7^\circ 15'$ |
| Longitud del Nodo Ascendente (T en siglos desde J2000.0) | $75^\circ 46' + 84' T$ |
| Período sinódico de rotación (f: latitud en el Sol) | $(26.90 + 5.2 \text{ sen} 2f)$ días |
| Período sideral de rotación (para longitudes heliográficas) | 25.38 días |
| Apex | $a = 18\text{h } 10' \quad \delta = +37^\circ$ |
| Rapidez en el sistema local de reposo | 1.94×10^4 m/s, (0.0112 au/d) |

Tierra

| | |
|---|-------------------------------|
| Órbita | |
| Paralaje solar | $8.794148''$ |
| Constante de Aberración (J2000) | $20.49552''$ |
| Tiempo luz a 1 AU | 499.004782 s |
| Unidad astronómica de longitud (AU) | $1.49597870 \times 10^{11}$ m |
| Proporciones entre las masas: | |
| Sol/Tierra | 332946.0 |
| Sol/(Tierra más Luna) | 328900.5 |
| Tierra/Luna | 0.0123002 |
| Excentricidad media | 0.016708617 |
| Oblicuidad media de la Eclíptica | $23^\circ 26' 21.448''$ |
| Variación anual en rotación en la Eclíptica | $0.4704''$ |
| Distancia media de la Tierra al Sol | 1.0000010178 UA |
| Rapidez orbital media | 29.7859 km/s |
| Aceleración centrípeta media | 0.00594 m/s ² |

Período de rotación respecto a estrellas fijas:

| | |
|--------------------------|---|
| En tiempo solar medio | $24 \text{ h } 0 \text{ m } 0.0084 \text{ s}$ |
| En tiempo sideral medio | $23 \text{ h } 56 \text{ m } 4.0989 \text{ s}$ |
| Variación de la rotación | $15.04106717866910 \text{ ''/s} = 7.29211510 \times 10^{-5} \text{ rad s}^{-1}$ |

Precesión ("/año)

(T dado en siglos desde J2000)

| | |
|---------------------------------|--------------------------------|
| Precesión general en longitud | $50.290966'' + 0.0222226'' T$ |
| Precesión lunisolar en longitud | $50.387784'' + 0.0049263'' T$ |
| Precesión planetaria | $-0.0188626'' - 0.0476128'' T$ |

Sistema de constantes y parámetros, 2020

Unión Astronómica Internacional (IAU 1976)

| | |
|--------------------------------------|--|
| Figura y campo de gravedad | |
| Radio ecuatorial (a) | 6378140 m |
| Radio polar (b) | 6356755 m |
| Masa | 5.9742×10^{24} g |
| Densidad media | 5.52 g/cm ³ |
| Factor dinámico (J2) | $0.00108263 \times 10^{-11}$ años ⁻¹ |
| Gravedad normal (g) | $g = 9.80621 - 0.02593 \cos(2f) + 0.00003 \cos(4f)$ m/s ² |
| | |
| Constante de gravitación geocéntrica | 3.986005×10^{14} m ³ s ⁻² |

Luna

| | |
|-----------------------------------|-------------------------------|
| Radio medio | 1738 km |
| Semidiámetro a la distancia media | 15' 32.6" |
| Masa | 7.3483×10^{22} kg |
| Densidad media | 3.34 g/cm ² |
| Gravedad superficial | 1.62 m/s ² = 0.17g |

Orbita de la Luna en torno a la Tierra

| | |
|--|---|
| Movimiento sideral medio | $2.661699489 \times 10^{-6}$ rad/s |
| Distancia media de la Tierra a la Luna | 3.844×10^5 km = 60.27 radios terrestres = 0.002570 UA |
| | |
| Paralaje horizontal ecuatorial (a la distancia media) | 57' 02.608" = 3422.608" |
| Distancia media del centro de la Tierra al baricentro Tierra-Luna | 4.671×10^3 km |
| Excentricidad media | 0.05490 |
| Inclinación media (respecto de la Eclíptica) | 5.145396° |
| Inclinación media (respecto del ecuador de la Luna) | 6° 41' |
| Límites de la declinación geocéntrica | +29° - 29° |
| Periodo de revolución del nodo | 6798d |
| Periodo de revolución del perigeo | 3232d |
| Periodo Saros | 223 lunaciones = 19 pasos del Sol por el Nodo 6585 1/3 días |
| Rapidez orbital media | 1023 m/s = 0.000591 UA/día |
| Aceleración centripeta media | 0.00272 m/s ² = 0.0003 g |

Nomenclatura de las estrellas brillantes, 2020

| Nombres de estrellas | | | | Nombres de estrellas | | | |
|----------------------|---------------------|-----|------|----------------------|---------------------|-----|------|
| Propios | Clasificación Bayer | | NBSC | Propios | Clasificación Bayer | | NBSC |
| Acamar | θ | Eri | 897 | Algemeyla | β | CMi | 2845 |
| Achernar | α | Eri | 472 | Algemeysa | α | CMi | 2943 |
| Achird | η | Cas | 219 | Algorab | δ | Crv | 4757 |
| Acrux | α | Cru | 4730 | Alhajoth | α | Aur | 1708 |
| Acubens | α | Cnc | 3572 | Al Hammam | ζ | Peg | 8634 |
| Adhafera | ζ | Leo | 4031 | Alhena | γ | Gem | 2421 |
| Adhara | ϵ | CMa | 2618 | Alioth | ϵ | UMa | 4905 |
| Adhil | ξ | And | 390 | Al Kaffal Jidmah | γ | Cet | 804 |
| Adib | α | Dra | 5291 | Alkaid | η | UMa | 5191 |
| Agena | β | Cen | 5267 | Al Kalbal Asad | α | Leo | 3982 |
| Ain | ϵ | Tau | 1409 | Alkalurops | μ | Boo | 5733 |
| Ain al Rami | ν | Sgr | 7116 | Al Kaphrab | χ | UMa | 4518 |
| Ak | α | UMa | 4301 | Alkes | α | Crt | 4287 |
| Akrab | β | Sco | 5984 | Alkhiba | α | Crv | 4623 |
| Aladfar | η | Lyr | 7298 | Al Kirdah | ξ | Cep | 8417 |
| Alamak | γ | And | 603 | Almaak | γ | And | 603 |
| Al Anchatal Nahr | τ | Eri | 850 | Almaaz | ϵ | Aur | 1605 |
| Al Anf | ϵ | Peg | 8308 | Al Minliar al Asad | κ | Leo | 3731 |
| Al Anz | ϵ | Aur | 1605 | Al Minliar al Shuja | σ | Hya | 3418 |
| Alaraph | α | Vir | 5056 | Almuredin | ϵ | Vir | 4932 |
| Alaraph | β | Vir | 4540 | Alnair | α | Gru | 8425 |
| Alascha | λ | Sco | 6527 | Al Nasl | γ | Sgr | 6746 |
| Al Athfar | μ | Lyr | 6903 | Alnath | α | Ari | 617 |
| Al Atik | \omicron | Per | 1131 | Alnilam | ϵ | Ori | 1903 |
| Al Baldah | π | Sgr | 7264 | Alnitak | ζ | Ori | 1948 |
| Al Bali | ϵ | Aqr | 7950 | Al Niyat | σ | Sco | 6084 |
| Albireo | β | Cyg | 7417 | Al Niyat | τ | Sco | 6165 |
| Al Chiba | α | Crv | 4623 | Alphard | α | Hya | 3748 |
| Alcor | 80 | UMa | 5062 | Alphecca | α | CrB | 5793 |
| Alcyone | ν | Tau | 1165 | Alpheratz | α | And | 15 |
| Aldebarán | α | Tau | 1457 | Alphirk | β | Cep | 8238 |
| Alderamín | α | Cep | 8162 | Alrai | γ | Cep | 8974 |
| Aldhafara | ζ | Leo | 4031 | Alrami | α | Sgr | 7348 |
| Al Dhiba | ι | Dra | 5744 | Al Rescha | α | Psc | 595 |
| Aldhibah | ζ | Dra | 6396 | Alruccabah | α | UMi | 424 |
| Al Dihi | ι | Dra | 5744 | Al Rukbahal Daj | ω | Cyg | 7851 |
| Aldib | δ | Dra | 7310 | Alsafi | σ | Dra | 7462 |
| Al Dibah | ζ | Dra | 6396 | Alsah | α | Sge | 7479 |
| Alfard | α | Hya | 3748 | Al Sanamal Nakah | β | Cas | 21 |
| Alfecca | α | CrA | 7254 | Alsciaukat | 31 | Lyn | 3275 |
| Alfirk | β | Cep | 8238 | Alshain | β | Aql | 7602 |
| Alga | θ | Ser | 7141 | Alshat | ν | Cap | 7773 |
| Algebar | β | Ori | 1713 | Alshemali | μ | leo | 3905 |
| Algedi Prima | α | Cap | 7747 | Al Sheratain | β | Ari | 553 |
| Algedi Secunda | α | Cap | 7754 | Alshuhail | λ | Vel | 3634 |
| Algeiba | γ | Leo | 4057 | Al Suhailal Muhlif | γ | Vel | 3206 |
| Algenib | γ | Peg | 39 | Altair | α | Aql | 7557 |
| Algenib | α | Per | 1017 | Altais | δ | Dra | 7310 |
| Algenubi | ϵ | Leo | 3873 | AlTarf | β | Cnc | 3249 |
| Algieba | γ | Leo | 4058 | Alterf | λ | Leo | 3773 |
| Algol | β | Per | 936 | Aludra | η | CMa | 2827 |

Nomenclatura de las estrellas brillantes, 2020

| Nombres de estrellas | | | Nombres de estrellas | | |
|----------------------|---------------------|------|----------------------|---------------------|------|
| Propios | Clasificación Bayer | NBSC | Propios | Clasificación Bayer | NBSC |
| Alula Australia | ξ UMa | 4374 | Cebalrai | β Oph | 6603 |
| Alula Borealis | ν UMa | 4377 | Ceginus | γ Boo | 5435 |
| Alwaid | β Dra | 6536 | Celaeno | 16 Tau | 1140 |
| Al Wazor | δ CMa | 2693 | Chara | β CVn | 4785 |
| Alya | θ Ser | 7141 | Chertan | θ Leo | 4359 |
| Alzirr | ξ Gem | 2484 | Cor Caroli | α CVn | 4915 |
| Ancha | θ Aqr | 8499 | Cor Tauri | α Tau | 1457 |
| Angetenar | τ Eri | 850 | Cursa | β Eri | 1666 |
| Ankaa | α Phe | 99 | Dabih Major | β Cap | 7776 |
| Anser | α Vul | 7405 | Demon Star | β per | 936 |
| Antares | α Sco | 6134 | Deneb | α Cyg | 7924 |
| Arcturus | α Boo | 5340 | Deneb | ε Aql | 7176 |
| Arich | γ Vir | 4825 | Deneb | ε Del | 7852 |
| Arietis | α Ari | 617 | Deneb | η Cet | 334 |
| Arkab Posterior | β Sgr | 7343 | Deneb | ζ Aql | 7235 |
| Arkab Prior | β Sgr | 7337 | Deneb Algedi | δ Cap | 8322 |
| Arneb | α Lep | 1865 | Denebkaitos | ι Cet | 74 |
| Arnai | γ Cep | 8974 | Denebola | β Leo | 4534 |
| Ascella | ζ Sgr | 7194 | Dhur | δ Leo | 4357 |
| Asellus Australis | δ Cnc | 3461 | Diadem | α Com | 4968 |
| Asellus Borealis | γ Cnc | 3449 | Diphda | β Cet | 188 |
| Asellus Primus | θ Boo | 5404 | Dschubba | δ Sco | 5953 |
| Asellus Secundus | ι Boo | 5350 | Dubhe | α UMa | 4301 |
| Asellus Tertius | κ Boo | 5329 | Ed Asich | ι Dra | 5744 |
| Asmidiske | ι Car | 3699 | El Acola | ξ UMa | 4374 |
| Asmidiske | ξ Pup | 3045 | Elacrab | β Sco | 5984 |
| Asuia | ψ Dra | 6636 | El Kaprah | κ UMa | 3594 |
| Atik | ο Per | 1131 | El Karidab | δ Sgr | 6859 |
| Atlas | 27 Tau | 1178 | El Khereb | τ Peg | 8880 |
| Atria | α Tri | 544 | Elkhiffa Australis | α Lib | 5530 |
| Auva | δ Vir | 4910 | Elkhiffa Borealis | β Lib | 5685 |
| Avior | ε Car | 3307 | El Koprak | χ UMa | 4518 |
| Azelfafage | π Cyg | 8301 | El Nath | β Tau | 1791 |
| Azha | η Eri | 874 | El Phekrab | μ UMa | 4069 |
| Baham | θ Peg | 8450 | Enif | ε Peg | 8308 |
| Baten Kaitos | ζ Cet | 539 | Erakis | μ Cep | 8316 |
| Becrux | β Cru | 4853 | Etamin | γ Dra | 6705 |
| Beid | ο Eri | 1298 | Fomalhaut | α Psa | 8728 |
| Bellatrix | γ Ori | 1790 | Fornacis | α For | 963 |
| Benetnash | η UMa | 5191 | Fumal Samakah | β Psc | 8773 |
| Betelgeuse | α Ori | 2061 | Furud | ζ CMa | 2282 |
| Botein | δ Ari | 951 | Gacrux | γ Cru | 4763 |
| Brachiu | γ Sco | 1809 | Gemma | α CrB | 5793 |
| Bunda | ξ Agr | 8264 | Genam | ξ Dra | 6688 |
| Caja | ω Her | 6117 | Gianfar | λ Dra | 4434 |
| Calx | μ Gem | 2298 | Giedi Prima | α Cap | 7747 |
| Canopus | α Car | 2326 | Giedi Secunda | α Cap | 7754 |
| Capella | α Aur | 1708 | Gienah | γ Crv | 4662 |
| Castor | α Gem | 2890 | Gienah | ε Cyg | 7949 |
| Castula | υ Cas | 253 | Gildun | δ UMi | 6789 |
| Castula | υ Cas | 265 | Gomeisa | β CMi | 2845 |

Nomenclatura de las estrellas brillantes, 2020

| Nombres de estrellas | | | | Nombres de estrellas | | | |
|----------------------|---------------------|-----|------|----------------------|---------------------|-----|------|
| Propios | Clasificación Bayer | | NBSC | Propios | Clasificación Bayer | | NBSC |
| Gorgonea Cuarta | ω | Per | 947 | Merope | 23 | Tau | 1156 |
| Gorgonea Tercia | ρ | Per | 921 | Mesartim | γ | Ari | 545 |
| Hadar | β | Cen | 5267 | Minelauva | β | Vir | 4540 |
| Haedus | ζ | Aur | 1612 | Minkar | ϵ | Crv | 4630 |
| Hamal | α | Ari | 617 | Mintaka | δ | Ori | 1852 |
| Hassaleh | ι | Aur | 1577 | Mira | \circ | Cet | 681 |
| Hatysa | ι | Ori | 1895 | Mirach | β | And | 337 |
| Head of Hydrus | α | Hyi | 691 | Miram | η | Per | 834 |
| Heka | λ | Ori | 1879 | Mirphak | α | Per | 2294 |
| Hércules | β | Gem | 2990 | Mirza | β | CMA | 2286 |
| Heze | ζ | Vir | 5107 | Misam | κ | Per | 941 |
| Hoedus II | ν | Aur | 1641 | Mizar | ζ | UMa | 5055 |
| Homam | ζ | Peg | 8634 | Mufrid | η | Boo | 5235 |
| Hyadum I | γ | Tau | 1346 | Muscida | \circ | UMa | 3323 |
| Hyadum II | δ | Tau | 1373 | Muscida | π | UMa | 3403 |
| Isis | γ | CMA | 2657 | Naos | ζ | Pup | 3165 |
| Izar | ϵ | Boo | 5506 | Nashira | γ | Cap | 8278 |
| Jabbah | ν | Sco | 6027 | Nicolaus | α | Del | 7906 |
| Jed | δ | Oph | 6056 | Nihal | β | Lep | 1829 |
| Jugum | γ | Lyr | 7178 | Nodus I | ζ | Dra | 6396 |
| Kaffaljidhma | γ | Cet | 804 | Nunki | σ | Sgr | 7121 |
| Kaus Australis | ϵ | Sgr | 6879 | Nusakan | β | CrB | 5747 |
| Kaus Borealis | λ | Sgr | 6913 | Oculus Boreus | ϵ | Tau | 1409 |
| Keid | \circ | Eri | 1325 | Peacock | α | Pav | 7790 |
| Kitalphar | α | Equ | 8131 | Phact | α | Col | 1956 |
| Kocab | β | UMi | 5563 | Phad | γ | UMa | 4554 |
| Kornephoros | β | Her | 6148 | Pherkad | γ | UMi | 5735 |
| Kraz | β | Crv | 4786 | Pherkad Minor | λ | UMi | 5714 |
| Ksora | δ | Cas | 403 | Pleione | 28 | Tau | 1180 |
| Kuma | ν | Dra | 6555 | Polaris | α | UMi | 424 |
| Lesath | ν | Sco | 6508 | Pullux | β | Gem | 2990 |
| Maasym | λ | Her | 6526 | Praecipua | 46 | LMi | 4247 |
| Maia | 20 | Tau | 1149 | Praepes | η | Gem | 2216 |
| Maiaplacidus | β | Car | 3685 | Praesaepe | ϵ | Cnc | 3429 |
| Marfak | θ | Cas | 343 | Prima Giedi | α | Cap | 7747 |
| Marfak | κ | Her | 6008 | Procyon | α | CMi | 2943 |
| Marfak | μ | Cas | 321 | Propus | ι | Gem | 2821 |
| Marfic | λ | Oph | 6149 | Rana | δ | Eri | 1136 |
| Markab | α | Peg | 8781 | Rasalgethi | α | Her | 6406 |
| Matar | η | Peg | 8650 | Rasalhague | α | Oph | 6556 |
| Mebstuta | ϵ | Gem | 2473 | Ras Elased Austral | ϵ | Leo | 3873 |
| Megrez | δ | UMa | 4660 | Regulus | α | Leo | 3982 |
| Mekbuda | ζ | Gem | 2650 | Rigel | β | Ori | 1713 |
| Menchib | ξ | Per | 1228 | Rigil Kent | α | Cen | 5459 |
| Menkalinan | β | Aur | 2088 | Rijilal Awwa | μ | Vir | 5487 |
| Menkar | α | Cet | 911 | Rotanev | β | Del | 7882 |
| Menkar | λ | Cet | 896 | Ruchbah | ϵ | Cas | 542 |
| Menkent | θ | Cen | 5288 | Saad el Sund | β | Aqr | 8232 |
| Merak | β | UMa | 4295 | Sabik | η | Oph | 6378 |
| Meres | β | Boo | 5602 | Sadalachbia | γ | Aqr | 8518 |
| Meridiana | β | CrA | 7259 | Sadalbari | μ | Peg | 8684 |

Nomenclatura de las estrellas brillantes, 2020

| Nombres de estrellas | | | Nombres de estrellas | | | | |
|----------------------|---------------------|-----|----------------------|----------------------|---------------------|-----|------|
| Propios | Clasificación Bayer | | NBSC | Propios | Clasificación Bayer | | NBSC |
| Sadalmelik | α | Aqr | 8414 | Talitha | ι | UMa | 3569 |
| Sadir | γ | Cyg | 7796 | Tarazed | γ | Aql | 7525 |
| Saidak | 80 | UMa | 5062 | Tayeta | 19 | Tau | 1845 |
| Saiph | κ | Ori | 2004 | Tegmen | ζ | Cnc | 3208 |
| Saiph | η | Ori | 1788 | Terebellum | β | Sgr | 7604 |
| Sargas | θ | Sco | 6553 | Theemim | υ | Eri | 1464 |
| Sarin | δ | Her | 6410 | Thuban | α | Dra | 5291 |
| Sartan | α | Cnc | 3572 | Torcularis Septentr. | \circ | Psc | 510 |
| Sceptrum | 53 | Eri | 1481 | Tyl | ϵ | Dra | 7582 |
| Scheat | β | Peg | 8775 | Unukalhai | α | Ser | 5854 |
| Scheat | δ | Aqr | 8709 | Vega | α | Lyr | 7001 |
| Segin | ϵ | Cas | 542 | Vindematrix | ϵ | Vir | 4932 |
| Shaula | λ | Sco | 6527 | Wasat | δ | Gem | 2777 |
| Schedir | α | Cas | 168 | Wazn | β | Col | 2040 |
| Sheliak | β | Lyr | 7106 | Yed Posterior | ϵ | Oph | 5985 |
| Sirius | α | CMa | 2491 | Zaniah | η | Vir | 4689 |
| Situla | κ | Aqr | 8610 | Zaurak | γ | Eri | 1231 |
| Spica | α | Vir | 5056 | Zibal | ζ | Eri | 984 |
| Subra | \circ | Leo | 3852 | Zuben Elakrab | γ | Lib | 5787 |
| Superba | λ | CVn | 4846 | Zuben Elakribi | δ | Lib | 5586 |
| Syrma | ι | Vir | 5338 | Zuben Hakrabi | ζ | Lib | 5848 |
| Tabit | π | Ori | 1543 | Zuben Hakrabi | υ | Lib | 5794 |
| Tabit | υ | Ori | 1855 | | | | |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|----------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 171 | 9088 | 85 Peg | 2210 | 105 | η Scl | 3903 | 239 | AZ Phe | 5586 | 352 | τ Psc |
| 154 | 9089 | 30 Psc | 2224 | 106 | 48 Psc | 3949 | 242 | ρ Phe | 5594 | 353 | 34 Cet |
| 154 | 9089 | YY Psc | 2355 | 114 | GN And | 4129 | 246 | V357 And | 5688 | 354 | V761 Cas |
| 183 | 9091 | ζ Scl | 2353 | 117 | 12 Cet | 4147 | 248 | 20 Cet | 5661 | 359 | AI Scl |
| 186 | 9092 | 31 Psc | 2388 | 119 | BB Phe | 4084 | 252 | λ ¹ Tuc | 5742 | 360 | φ Psc |
| 194 | 9093 | 32 Psc | 2474 | 121 | 13 Cas | 4292 | 253 | υ ¹ Cas | 5737 | 361 | ζ Psc |
| 194 | 9093 | c Psc | 2505 | 123 | λ Cas | 4267 | 254 | 66 Psc | 5743 | 362 | ζ Psc |
| 274 | 9097 | V639 Cas | 2472 | 125 | λ ¹ Phe | 4257 | 255 | 21 Cet | 5778 | 364 | 87 Psc |
| 301 | 9098 | 2 Cet | 2484 | 126 | β ¹ Tuc | 4200 | 257 | BQ Tuc | 5926 | 365 | V762 Cas |
| 302 | 9099 | V398 Cep | 2487 | 127 | β ² Tuc | 4288 | 258 | 36 And | 5799 | 366 | 37 Cet |
| 330 | 9100 | 9 Cas | 2599 | 130 | κ Cas | 4366 | 262 | k Psc | 5824 | 367 | 88 Psc |
| 355 | 9103 | 3 Cet | 2568 | 131 | 52 Psc | 4427 | 264 | γ Cas | 5833 | 368 | 38 Cet |
| 418 | 9110 | V567 Cas | 2548 | 132 | 51 Psc | 4422 | 265 | υ ² Cas | 5862 | 370 | v Phe |
| 443 | 3 | 33 Psc | 2707 | 137 | 16 Cas | 4371 | 267 | φ ³ Cet | 5951 | 373 | 39 Cet |
| 476 | 4 | 86 Peg | 2629 | 139 | θ Tuc | 4436 | 269 | μ And | 5896 | 377 | κ Tuc |
| 518 | 5 | V640 Cas | 2762 | 142 | 13 Cet | 4293 | 270 | λ ² Tuc | 6061 | 378 | f Psc |
| 531 | 7 | 10 Cas | 2787 | 143 | 14 Cet | 4463 | 271 | η And | 6242 | 382 | φ Cas |
| 664 | 14 | AP Psc | 2802 | 147 | λ ² Phe | 4510 | 274 | h Psc | 6193 | 383 | υ Psc |
| 677 | 15 | α And | 2865 | 149 | PY And | 4587 | 279 | φ ⁴ Cet | 6312 | 384 | 35 Cas |
| 696 | 18 | CF Cet | 2852 | 151 | BG Cet | 4577 | 280 | α Scl | 6226 | 385 | 42 Cet |
| 746 | 21 | β Cas | 2920 | 153 | ζ Cas | 4655 | 284 | WW Psc | 6315 | 389 | l Psc |
| 729 | 22 | 87 Peg | 2912 | 154 | π And | 4770 | 288 | ξ Scl | 6411 | 390 | ξ And |
| 761 | 24 | κ ¹ Scl | 2903 | 155 | 53 Psc | 4903 | 290 | 39 And | 6429 | 393 | 43 Cet |
| 765 | 25 | ε Phe | 3031 | 163 | ε And | 4889 | 291 | σ Psc | 6514 | 395 | 47 And |
| 813 | 26 | 34 Psc | 3092 | 165 | δ And | 4852 | 293 | σ Scl | 6692 | 399 | ψ Cas |
| 841 | 27 | 22 And | 3093 | 166 | 54 Psc | 4906 | 294 | ε Psc | 6539 | 401 | 44 Cet |
| 814 | 30 | γ ³ Oct | 3138 | 167 | 55 Psc | 4914 | 296 | 25 Cet | 6537 | 402 | θ Cet |
| 910 | 33 | 6 Cet | 3179 | 168 | α Cas | 4979 | 301 | 26 Cet | 6686 | 403 | δ Cas |
| 930 | 34 | κ ² Scl | 3142 | 170 | Z Scl | 5074 | 307 | 73 Psc | 6670 | 412 | 46 Cet |
| 950 | 35 | θ Scl | 3231 | 175 | 32 And | 5081 | 308 | 72 Psc | 6706 | 413 | ρ Psc |
| 1067 | 39 | γ Peg | 3300 | 179 | ξ Cas | 5131 | 310 | ψ ¹ Psc | 6732 | 414 | 94 Psc |
| 1086 | 41 | 23 And | 3245 | 180 | μ Phe | 5132 | 311 | ψ ¹ Psc | 6813 | 417 | ω And |
| 1168 | 45 | x Peg | 3277 | 183 | ξ Phe | 5141 | 313 | 77 Psc | 6748 | 421 | 47 Cet |
| 1158 | 46 | AD Cet | 3414 | 184 | π Cas | 5121 | 315 | 27 Cet | 6759 | 423 | R Scl |
| 1170 | 48 | AE Cet | 3356 | 185 | λ ¹ Scl | 5164 | 317 | 28 Cet | 11767 | 424 | α UMi |
| 1196 | 50 | UU Psc | 3330 | 187 | ρ Tuc | 5204 | 319 | 75 Psc | 7078 | 427 | 38 Cas |
| 1319 | 59 | 36 Psc | 3419 | 188 | β Cet | 5336 | 321 | μ Cas | 6867 | 429 | γ Phe |
| 1366 | 63 | θ And | 3405 | 191 | η Phe | 5165 | 322 | β Phe | 6999 | 430 | 49 And |
| 1415 | 65 | AO Cas | 3572 | 192 | 21 Cas | 5193 | 323 | AW Scl | 6888 | 431 | WZ Scl |
| 1473 | 68 | σ And | 3504 | 193 | o Cas | 5317 | 324 | 41 And | 6981 | 432 | 97 Psc |
| 1501 | 70 | 26 And | 3455 | 194 | φ ¹ Cet | 5319 | 327 | 78 Psc | 6960 | 433 | 48 Cet |
| 1562 | 74 | ι Cet | 3456 | 195 | λ ² Scl | 5310 | 328 | ψ ² Psc | 7007 | 434 | μ Psc |
| 1599 | 77 | ζ Tuc | 3559 | 203 | 18 Cet | 5296 | 329 | 30 Cet | 6952 | 435 | AW Phe |
| 1645 | 80 | d Psc | 3721 | 208 | 23 Cas | 5346 | 330 | e Psc | 7097 | 437 | η Psc |
| 1686 | 82 | ρ And | 3632 | 211 | 57 Psc | 5300 | 331 | υ Phe | 7083 | 440 | δ Phe |
| 1647 | 83 | π Tuc | 3675 | 213 | 58 Psc | 5268 | 332 | ι Tuc | 7294 | 442 | x Cas |
| 1708 | 84 | ι Scl | 3685 | 214 | 59 Psc | 5364 | 334 | η Cet | 7321 | 446 | KK And |
| 1728 | 85 | T Cet | 3693 | 215 | ζ And | 5434 | 335 | φ And | 7345 | 451 | 49 Cet |
| 1772 | 86 | 42 Psc | 3697 | 216 | 60 Psc | 5518 | 336 | 31 Cas | 7493 | 454 | OP And |
| 1803 | 88 | BE Cet | 3730 | 217 | 61 Psc | 5447 | 337 | β And | 7436 | 455 | 101 Psc |
| 1830 | 89 | AV Scl | 3821 | 219 | η Cas | 5348 | 338 | ζ Phe | 7650 | 456 | 40 Cas |
| 1901 | 90 | R And | 3801 | 223 | v Cas | 5454 | 339 | ψ ³ Psc | 7513 | 458 | υ And |
| 1921 | 91 | V746 Cas | 3786 | 224 | δ Psc | 5493 | 340 | 44 And | 7450 | 459 | 50 Cet |
| 1960 | 93 | 12 Cas | 3810 | 225 | 64 Psc | 5542 | 343 | θ Cas | 7463 | 462 | τ Scl |
| 2006 | 97 | 44 Psc | 3881 | 226 | v And | 5589 | 345 | RU Cas | 7535 | 463 | π Psc |
| 2021 | 98 | β Hyi | 3885 | 230 | 65 Psc | 5485 | 346 | 32 Cet | 7607 | 464 | υ Per |
| 2081 | 99 | α Phe | 3919 | 234 | GO And | 5510 | 347 | 33 Cet | 7651 | 465 | GY And |
| 2072 | 100 | κ Phe | 3909 | 235 | φ ² Cet | 5550 | 348 | 45 And | 7719 | 469 | x And |
| 2100 | 101 | 10 Cet | 3781 | 236 | λ Hyi | 5544 | 349 | g Psc | 7588 | 472 | α Eri |
| 2219 | 103 | TV Psc | 3965 | 238 | V526 Cas | 5571 | 351 | x Psc | 7740 | 475 | 105 Psc |

Número de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 7818 | 477 | τ And | 9440 | 594 | π For | 11072 | 695 | κ For | 12486 | 794 | ι Eri |
| 7965 | 478 | V557 Cas | 9487 | 595 | α Psc | 11279 | 696 | V554 Per | 12777 | 799 | 13 Per |
| 8016 | 480 | 42 Cas | 9487 | 596 | 113 Psc | 11313 | 699 | 65 And | 12777 | 799 | θ Per |
| 7939 | 481 | V772 Cas | 9570 | 599 | ε Tri | 11249 | 702 | ξ Ari | 12768 | 800 | 14 Per |
| 7751 | 487 | p Eri | 9459 | 602 | x Phe | 11261 | 704 | 71 Cet | 12719 | 801 | 35 Ari |
| 7884 | 489 | v Psc | 9640 | 603 | γ ¹ And | 11001 | 705 | δ Hyi | 12484 | 802 | ζ Hor |
| 8046 | 491 | 44 Cas | 9640 | 604 | γ ² And | 11569 | 707 | ι Cas | 12706 | 804 | 86 Cet |
| 7981 | 493 | 107 Psc | 9621 | 605 | 10 Ari | 11345 | 708 | ρ Cet | 12706 | 804 | γ Cet |
| 8068 | 496 | φ Per | 9589 | 607 | 60 Cet | 11465 | 709 | 66 And | 12394 | 806 | ε Hyi |
| 7955 | 497 | π Scl | 9631 | 610 | 61 Cet | 11348 | 710 | AB Cet | 12784 | 808 | 36 Ari |
| 8115 | 499 | V773 Cas | 9677 | 612 | v For | 11432 | 712 | 11 Tri | 12803 | 809 | o Ari |
| 7978 | 506 | q ¹ Eri | 9836 | 613 | κ Ari | 11258 | 714 | λ Hor | 12803 | 809 | 37 Ari |
| 8159 | 508 | 109 Psc | 9809 | 614 | WZ Psc | 11095 | 715 | κ Hyi | 12653 | 810 | ι Hor |
| 8102 | 509 | τ Cet | 9859 | 615 | 11 Ari | 11486 | 717 | 12 Tri | 12770 | 811 | π Cet |
| 8198 | 510 | o Psc | 9884 | 617 | α Ari | 11484 | 718 | 73 Cet | 12770 | 811 | 89 Cet |
| 8209 | 514 | ε Scl | 9990 | 618 | V472 Per | 11484 | 718 | ξ ² Cet | 12832 | 812 | 38 Ari |
| 8271 | 515 | VY Psc | 9977 | 620 | 58 And | 11548 | 720 | 13 Tri | 12832 | 812 | UV Ari |
| 7879 | 516 | τ ¹ Hyi | 10064 | 622 | β Tri | 11407 | 721 | κ Eri | 12828 | 813 | μ Cet |
| 8241 | 520 | q ² Eri | 10053 | 623 | 14 Ari | 11293 | 722 | TZ Hor | 12828 | 813 | 87 Cet |
| 8387 | 522 | 4 Ari | 10227 | 627 | 5 Per | 11477 | 724 | φ For | 13133 | 815 | RZ Cas |
| 8544 | 530 | 1 Ari | 10176 | 628 | 59 And | 11678 | 729 | 26 Ari | 12843 | 818 | τ ¹ Eri |
| 8497 | 531 | x Cet | 10180 | 629 | 59 And | 11678 | 729 | UU Ari | 12843 | 818 | 1 Eri |
| 8704 | 533 | V436 Per | 10155 | 631 | 15 Ari | 11698 | 731 | 27 Ari | 13061 | 824 | 39 Ari |
| 8714 | 536 | 2 Per | 10203 | 633 | 16 Ari | 11644 | 733 | TY For | 13178 | 825 | V480 Per |
| 8645 | 539 | ζ Cet | 10220 | 634 | 5 Tri | 11784 | 736 | 14 Tri | 13108 | 828 | 40 Ari |
| 8593 | 541 | BD Phe | 10212 | 635 | 64 Cet | 11791 | 739 | 75 Cet | 13367 | 829 | SU Cas |
| 8886 | 542 | ε Cas | 10234 | 639 | 63 Cet | 11783 | 740 | σ Cet | 13121 | 830 | VZ Ari |
| 8814 | 543 | 55 And | 10438 | 640 | 55 Cas | 11783 | 740 | 76 Cet | 13064 | 832 | Z Eri |
| 8796 | 544 | α Tri | 10280 | 642 | TZ Tri | 11843 | 741 | 29 Ari | 12871 | 833 | γ Hor |
| 8832 | 545 | γ ¹ Ari | 10340 | 643 | 60 And | 11867 | 744 | λ ¹ For | 13268 | 834 | η Per |
| 8778 | 547 | BK Cet | 10366 | 645 | 6 Per | 11918 | 749 | ω For | 13268 | 834 | 15 Per |
| 9009 | 548 | ω Cas | 10306 | 646 | η Ari | 12086 | 750 | 15 Tri | 13040 | 835 | η ¹ For |
| 8833 | 549 | ξ Psc | 10328 | 648 | 19 Ari | 12002 | 752 | 77 Cet | 13165 | 836 | 42 Ari |
| 8366 | 550 | τ ² Hyi | 10324 | 649 | ξ ¹ Cet | 12093 | 754 | 78 Cet | 13165 | 836 | π Ari |
| 8903 | 553 | β Ari | 10305 | 650 | 66 Cet | 12093 | 754 | v Cet | 12876 | 837 | ζ Hyi |
| 8837 | 555 | ψ Phe | 10320 | 652 | μ For | 12193 | 758 | R Tri | 13209 | 838 | 41 Ari |
| 9021 | 557 | 56 And | 10633 | 654 | V551 Per | 12107 | 759 | 80 Cet | 13254 | 840 | 16 Per |
| 8882 | 558 | φ Phe | 10559 | 655 | 7 Tri | 12153 | 763 | 31 Ari | 13147 | 841 | β For |
| 8993 | 559 | 7 Ari | 10540 | 656 | 20 Ari | 12184 | 764 | 30 Ari | 13328 | 843 | 17 Per |
| 9110 | 563 | ι Ari | 10535 | 657 | 21 Ari | 12189 | 765 | 30 Ari | 13197 | 844 | γ ¹ For |
| 9061 | 565 | 56 Cet | 10644 | 660 | δ Tri | 12122 | 767 | ι ¹ For | 13202 | 845 | γ ² For |
| 9007 | 566 | x Eri | 10718 | 661 | 8 Per | 12247 | 771 | 81 Cet | 13327 | 847 | σ Ari |
| 9222 | 568 | 3 Per | 10729 | 662 | x Per | 12186 | 772 | λ ² For | 13327 | 847 | 43 Ari |
| 9153 | 569 | λ Ari | 10687 | 663 | W And | 12332 | 773 | 32 Ari | 13225 | 848 | η ² For |
| 8928 | 570 | η ² Hyi | 10670 | 664 | γ Tri | 12332 | 773 | v Ari | 13288 | 850 | τ ² Eri |
| 9480 | 575 | 48 Cas | 10642 | 666 | 67 Cet | 11757 | 776 | μ Hyi | 13288 | 850 | 2 Eri |
| 9598 | 580 | 50 Cas | 10418 | 667 | π ¹ Hyi | 12288 | 777 | ι ² For | 13265 | 851 | η ³ For |
| 9727 | 581 | 47 Cas | 10732 | 669 | θ Ari | 12225 | 778 | η Hor | 13141 | 852 | v Hor |
| 9353 | 582 | 112 Psc | 10819 | 670 | 62 And | 12387 | 779 | δ Cet | 13531 | 854 | 18 Per |
| 9326 | 583 | 57 Cet | 10602 | 674 | φ Eri | 12387 | 779 | 82 Cet | 13531 | 854 | τ Per |
| 9347 | 585 | υ Cet | 10793 | 675 | 10 Tri | 12387 | 779 | δ Cet | 13531 | 854 | τ Per |
| 9347 | 585 | 59 Cet | 10513 | 678 | π ² Hyi | 12390 | 781 | ε Cet | 13490 | 855 | 20 Per |
| 9564 | 586 | 52 Cas | 10826 | 681 | o Cet | 12390 | 781 | 83 Cet | 13402 | 857 | EP Eri |
| 9372 | 587 | AR Cet | 10944 | 682 | 63 And | 12489 | 782 | 33 Ari | 13473 | 863 | ψ For |
| 9573 | 589 | 53 Cas | 11060 | 685 | 9 Per | 12692 | 785 | 11 Per | 13654 | 867 | 45 Ari |
| 9505 | 590 | g Per | 11060 | 685 | V474 Per | 12623 | 788 | 12 Per | 13654 | 867 | RZ Ari |
| 9505 | 590 | 4 Per | 11021 | 689 | 69 Cet | 12413 | 789 | s Eri | 13502 | 868 | R Hor |
| 9236 | 591 | α Hyi | 11174 | 690 | V440 Per | 12530 | 790 | 84 Cet | 13702 | 869 | 46 Ari |
| 9763 | 592 | 49 Cas | 11046 | 691 | 70 Cet | 12640 | 793 | μ Ari | 13702 | 869 | ρ Ari |
| 8991 | 593 | σ Hyi | 11220 | 694 | 64 And | 12640 | 793 | 34 Ari | 13244 | 872 | v Hyi |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 13775 | 873 | LT Per | 14668 | 941 | 27 Per | 16319 | 1032 | V805 Cas | 17529 | 1135 | 41 Per |
| 13775 | 873 | 21 Per | 14668 | 941 | κ Per | 16228 | 1035 | CS Cam | 17378 | 1136 | δ Eri |
| 13701 | 874 | 3 Eri | 14677 | 944 | 55 Ari | 16083 | 1038 | 2 Tau | 17378 | 1136 | δ Eri |
| 13701 | 874 | η Eri | 14817 | 947 | ω Per | 16083 | 1038 | ξ Tau | 17378 | 1136 | 23 Eri |
| 13756 | 877 | EH Cet | 14817 | 947 | 28 Per | 16083 | 1038 | ξ Tau | 17489 | 1140 | 16 Tau |
| 13834 | 878 | 47 Ari | 14838 | 951 | 57 Ari | 16281 | 1040 | CE Cam | 17499 | 1142 | 17 Tau |
| 13879 | 879 | π Per | 14838 | 951 | δ Ari | 15987 | 1042 | x ¹ For | 17351 | 1143 | h Eri |
| 13879 | 879 | 22 Per | 14893 | 954 | 56 Ari | 16244 | 1044 | 34 Per | 17527 | 1144 | 18 Tau |
| 13905 | 882 | 24 Per | 14893 | 954 | SX Ari | 16181 | 1048 | 66 Ari | 17531 | 1145 | 19 Tau |
| 13782 | 883 | 4 Eri | 14915 | 958 | EL Cet | 16335 | 1052 | σ Per | 17531 | 1145 | q Tau |
| 13914 | 887 | 48 Ari | 14954 | 962 | 94 Cet | 16335 | 1052 | 35 Per | 17457 | 1146 | 24 Eri |
| 13914 | 887 | ε Ari | 14879 | 963 | α For | 16112 | 1054 | x ² For | 17959 | 1148 | γ Cam |
| 13914 | 888 | 48 Ari | 15110 | 972 | 58 Ari | 16156 | 1058 | x ³ For | 17573 | 1149 | 20 Tau |
| 13914 | 888 | ε Ari | 15110 | 972 | ζ Ari | 16322 | 1061 | 4 Tau | 17506 | 1150 | 25 Eri |
| 13835 | 889 | 6 Eri | 15204 | 976 | V423 Per | 16322 | 1061 | s Tau | 17579 | 1151 | 21 Tau |
| 13954 | 896 | 91 Cet | 14930 | 977 | TW Hor | 16470 | 1063 | V396 Per | 17588 | 1152 | 22 Tau |
| 13954 | 896 | λ Cet | 15241 | 978 | V573 Per | 16369 | 1066 | 5 Tau | 17563 | 1153 | u Tau |
| 13847 | 897 | θ ² Eri | 14521 | 981 | BN Hyi | 16369 | 1066 | f Tau | 17563 | 1153 | 29 Tau |
| 13847 | 897 | θ ¹ Eri | 15338 | 982 | 30 Per | 16499 | 1069 | 36 Per | 17884 | 1155 | BE Cam |
| 13847 | 898 | θ ² Eri | 15197 | 984 | ζ Eri | 16341 | 1070 | v Eri | 17608 | 1156 | 23 Tau |
| 13847 | 898 | θ ¹ Eri | 15197 | 984 | 13 Eri | 16341 | 1070 | 17 Eri | 17608 | 1156 | V971 Tau |
| 13951 | 899 | 5 Eri | 15520 | 985 | BK Cam | 16516 | 1072 | KP Per | 17593 | 1162 | π Eri |
| 13942 | 901 | ζ For | 15404 | 987 | 29 Per | 16591 | 1078 | IW Per | 17593 | 1162 | 26 Eri |
| 14040 | 904 | 7 Eri | 15244 | 988 | 14 Eri | 16511 | 1079 | t Tau | 17593 | 1162 | π Eri |
| 14040 | 904 | CV Eri | 15444 | 989 | 31 Per | 16511 | 1079 | 6 Tau | 17702 | 1165 | η Tau |
| 14109 | 905 | 49 Ari | 15383 | 992 | 95 Cet | 16339 | 1081 | TU Hor | 17702 | 1165 | 25 Tau |
| 14060 | 907 | 8 Eri | 15382 | 994 | 15 Eri | 16245 | 1083 | κ Ret | 17846 | 1170 | V376 Per |
| 14060 | 907 | ρ ¹ Eri | 15514 | 995 | 59 Ari | 16537 | 1084 | 18 Eri | 17618 | 1171 | σ For |
| 13884 | 909 | β Hor | 15457 | 996 | κ ¹ Cet | 16537 | 1084 | ε Eri | 17651 | 1173 | 27 Eri |
| 14143 | 910 | 93 Cet | 15457 | 996 | κ ¹ Cet | 16537 | 1084 | ε Eri | 17651 | 1173 | τ ⁶ Eri |
| 14135 | 911 | α Cet | 15457 | 996 | 96 Cet | 16664 | 1086 | 7 Tau | 17771 | 1174 | 30 Tau |
| 14135 | 911 | 92 Cet | 15557 | 1000 | 60 Ari | 16826 | 1087 | ψ Per | 17771 | 1174 | e Tau |
| 14135 | 911 | α Cet | 15648 | 1002 | 32 Per | 16826 | 1087 | ψ Per | 17440 | 1175 | β Ret |
| 14086 | 914 | ε For | 15648 | 1002 | 1 Per | 16826 | 1087 | 37 Per | 17886 | 1177 | 42 Per |
| 14328 | 915 | γ Per | 15474 | 1003 | τ ⁴ Eri | 16611 | 1088 | τ ⁵ Eri | 17886 | 1177 | V467 Per |
| 14328 | 915 | γ Per | 15474 | 1003 | 16 Eri | 16611 | 1088 | 19 Eri | 17886 | 1177 | n Per |
| 14328 | 915 | 23 Per | 15474 | 1003 | τ ⁴ Eri | 16846 | 1099 | V711 Tau | 17847 | 1178 | 27 Tau |
| 14168 | 917 | 9 Eri | 15479 | 1004 | AI For | 16803 | 1100 | 20 Eri | 17851 | 1180 | BU Tau |
| 14168 | 917 | ρ ² Eri | 15627 | 1005 | τ ¹ Ari | 16803 | 1100 | EG Eri | 17851 | 1180 | 28 Tau |
| 14382 | 918 | k Per | 15627 | 1005 | 61 Ari | 16852 | 1101 | 10 Tau | 17717 | 1181 | τ ⁷ Eri |
| 14146 | 919 | τ ³ Eri | 15627 | 1005 | τ ¹ Ari | 17296 | 1105 | BD Cam | 17717 | 1181 | 28 Eri |
| 14146 | 919 | 11 Eri | 15330 | 1006 | ζ ¹ Ret | 16870 | 1106 | y Eri | 17738 | 1184 | ρ For |
| 14354 | 921 | 25 Per | 15619 | 1007 | 97 Cet | 17027 | 1111 | 21 Eri | 18033 | 1194 | V766 Tau |
| 14354 | 921 | ρ Per | 15619 | 1007 | κ ² Cet | 17007 | 1114 | τ For | 17874 | 1195 | g Eri |
| 14354 | 921 | ρ Per | 15510 | 1008 | e Eri | 17103 | 1115 | 12 Tau | 18089 | 1199 | 31 Tau |
| 14293 | 925 | 10 Eri | 15510 | 1008 | 82 Eri | 17181 | 1118 | 11 Tau | 18141 | 1202 | 30 Eri |
| 14293 | 925 | ρ ³ Eri | 15890 | 1009 | CQ Cam | 17167 | 1121 | 22 Eri | 18246 | 1203 | ζ Per |
| 14376 | 927 | 52 Ari | 15371 | 1010 | ζ ² Ret | 17167 | 1121 | FY Eri | 18246 | 1203 | 44 Per |
| 14376 | 927 | 52 Ari | 15770 | 1011 | V575 Per | 17358 | 1122 | δ Per | 17678 | 1208 | γ Hyi |
| 14376 | 928 | 52 Ari | 15696 | 1012 | 62 Ari | 17358 | 1122 | δ Per | 18350 | 1209 | X Per |
| 14376 | 928 | 52 Ari | 15737 | 1015 | 63 Ari | 17358 | 1122 | 39 Per | 18453 | 1210 | 43 Per |
| 14240 | 934 | μ Hor | 15737 | 1015 | τ ² Ari | 17313 | 1123 | o Per | 18255 | 1211 | 32 Eri |
| 14576 | 936 | β Per | 15863 | 1017 | 33 Per | 17313 | 1123 | 40 Per | 18255 | 1212 | 32 Eri |
| 14576 | 936 | β Per | 15863 | 1017 | α Per | 17309 | 1126 | 13 Tau | 18216 | 1213 | τ ⁸ Eri |
| 14576 | 936 | 26 Per | 15861 | 1022 | 64 Ari | 17448 | 1131 | o Per | 18216 | 1213 | τ ⁸ Eri |
| 14632 | 937 | ι Per | 15201 | 1025 | ι Hyi | 17448 | 1131 | 38 Per | 18216 | 1213 | 33 Eri |
| 14514 | 938 | 53 Ari | 15870 | 1027 | 65 Ari | 17448 | 1131 | o Per | 18213 | 1214 | i Eri |
| 14514 | 938 | UW Ari | 15988 | 1029 | V576 Per | 17408 | 1132 | 14 Tau | 18339 | 1217 | DO Eri |
| 14131 | 939 | θ Hyi | 15900 | 1030 | o Tau | 17304 | 1134 | δ For | 18471 | 1218 | 32 Tau |
| 14586 | 940 | 54 Ari | 15900 | 1030 | 1 Tau | 17529 | 1135 | v Per | 18532 | 1220 | 45 Per |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 18532 | 1220 | ε Per | 19811 | 1306 | f Per | 20542 | 1380 | δ ² Tau | 21248 | 1453 | 50 Eri |
| 18532 | 1220 | ε Per | 19811 | 1306 | 52 Per | 20522 | 1381 | 66 Tau | 21476 | 1454 | 58 Per |
| 18485 | 1221 | V817 Tau | 19719 | 1309 | 46 Tau | 20522 | 1381 | r Tau | 20297 | 1456 | v Men |
| 18485 | 1221 | 33 Tau | 19740 | 1311 | 47 Tau | 20507 | 1383 | 42 Eri | 21421 | 1457 | 87 Tau |
| 18547 | 1223 | V386 Per | 19725 | 1312 | GY Eri | 20507 | 1383 | ξ Eri | 21421 | 1457 | α Tau |
| 18455 | 1225 | DL Eri | 19777 | 1318 | 39 Eri | 20635 | 1387 | κ ¹ Tau | 21421 | 1457 | α Tau |
| 18614 | 1228 | ξ Per | 19877 | 1319 | 48 Tau | 20635 | 1387 | 65 Tau | 21402 | 1458 | 88 Tau |
| 18614 | 1228 | ξ Per | 19860 | 1320 | μ Tau | 20641 | 1388 | 67 Tau | 21402 | 1458 | d Tau |
| 18614 | 1228 | 46 Per | 19860 | 1320 | 49 Tau | 20641 | 1388 | κ ² Tau | 21444 | 1463 | v Eri |
| 18543 | 1231 | γ Eri | 19855 | 1321 | V891 Tau | 20648 | 1389 | 68 Tau | 21444 | 1463 | 48 Eri |
| 18543 | 1231 | γ Eri | 19859 | 1322 | V774 Tau | 20648 | 1389 | V776 Tau | 21444 | 1463 | v Eri |
| 18543 | 1231 | 34 Eri | 20070 | 1324 | b Per | 20648 | 1389 | δ ³ Tau | 21393 | 1464 | 52 Eri |
| 18724 | 1239 | 35 Tau | 20070 | 1324 | b Per | 20661 | 1391 | 70 Tau | 21393 | 1464 | u ² Eri |
| 18724 | 1239 | λ Tau | 19849 | 1325 | 40 Eri | 20711 | 1392 | υ Tau | 21281 | 1465 | α Dor |
| 18724 | 1239 | λ Tau | 19849 | 1325 | o ² Eri | 20711 | 1392 | 69 Tau | 21281 | 1465 | α Dor |
| 18673 | 1240 | 36 Eri | 19747 | 1326 | α Hor | 20711 | 1392 | υ Tau | 21730 | 1466 | 2 Cam |
| 18673 | 1240 | τ ⁹ Eri | 19990 | 1329 | ω ² Tau | 20535 | 1393 | d Eri | 21727 | 1467 | 3 Cam |
| 18673 | 1240 | τ ⁹ Eri | 19990 | 1329 | ω Tau | 20535 | 1393 | υ ³ Eri | 21604 | 1471 | HU Tau |
| 18788 | 1244 | 35 Eri | 19990 | 1329 | 50 Tau | 20535 | 1393 | 43 Eri | 21588 | 1472 | 89 Tau |
| 18597 | 1247 | δ Ret | 20087 | 1331 | 51 Tau | 20713 | 1394 | 71 Tau | 21589 | 1473 | c Tau |
| 18691 | 1250 | XY Dor | 19780 | 1336 | α Ret | 20713 | 1394 | V777 Tau | 21589 | 1473 | 90 Tau |
| 18907 | 1251 | 38 Tau | 19893 | 1338 | γ Dor | 20384 | 1395 | η Ret | 21547 | 1474 | 51 Eri |
| 18907 | 1251 | v Tau | 19893 | 1338 | γ Dor | 20732 | 1396 | π Tau | 21547 | 1474 | c Eri |
| 19009 | 1252 | 36 Tau | 20171 | 1339 | V102 Tau | 20732 | 1396 | 73 Tau | 21673 | 1478 | 91 Tau |
| 18957 | 1253 | 40 Tau | 20171 | 1339 | 53 Tau | 20715 | 1397 | V114 Tau | 21673 | 1478 | σ ¹ Tau |
| 18957 | 1253 | V113 Tau | 20186 | 1341 | 56 Tau | 20789 | 1399 | 72 Tau | 21683 | 1479 | σ ² Tau |
| 19038 | 1256 | 37 Tau | 20186 | 1341 | V724 Tau | 20877 | 1407 | 75 Tau | 21683 | 1479 | 92 Tau |
| 19167 | 1261 | λ Per | 20252 | 1343 | 54 Per | 20873 | 1408 | 76 Tau | 21594 | 1481 | 53 Eri |
| 19167 | 1261 | 47 Per | 20075 | 1345 | GZ Eri | 20889 | 1409 | ε Tau | 21594 | 1481 | 1 Eri |
| 19076 | 1262 | 39 Tau | 20205 | 1346 | γ Tau | 20889 | 1409 | 74 Tau | 21735 | 1484 | 93 Tau |
| 18744 | 1264 | γ Ret | 20205 | 1346 | 54 Tau | 20885 | 1411 | θ ¹ Tau | 21479 | 1492 | R Dor |
| 18744 | 1264 | γ Ret | 20042 | 1347 | υ ⁴ Eri | 20885 | 1411 | 77 Tau | 21928 | 1494 | 59 Per |
| 18772 | 1266 | ι Ret | 20042 | 1347 | 41 Eri | 20894 | 1412 | 78 Tau | 21763 | 1496 | 54 Eri |
| 19171 | 1268 | GS Tau | 20250 | 1348 | φ Tau | 20894 | 1412 | θ ² Tau | 21763 | 1496 | DM Eri |
| 19171 | 1268 | 41 Tau | 20250 | 1348 | 52 Tau | 20894 | 1412 | θ ² Tau | 21881 | 1497 | 94 Tau |
| 19205 | 1269 | ψ Tau | 20354 | 1350 | V469 Per | 20901 | 1414 | b Tau | 21881 | 1497 | τ Tau |
| 19205 | 1269 | 42 Tau | 20354 | 1350 | 53 Per | 20901 | 1414 | 79 Tau | 21961 | 1499 | 95 Tau |
| 19343 | 1273 | 48 Per | 20354 | 1350 | d Per | 21148 | 1417 | 1 Cam | 21770 | 1502 | α Cae |
| 19343 | 1273 | c Per | 20219 | 1351 | V483 Tau | 21148 | 1417 | DL Cam | 21861 | 1503 | β Cae |
| 19343 | 1273 | MX Per | 20219 | 1351 | h Tau | 20963 | 1420 | V114 Tau | 21986 | 1505 | 55 Eri |
| 19302 | 1277 | 49 Per | 20219 | 1351 | 57 Tau | 20995 | 1422 | 80 Tau | 21986 | 1505 | DW Eri |
| 19335 | 1278 | V582 Per | 19921 | 1355 | ε Ret | 20922 | 1423 | DU Eri | 21986 | 1506 | 55 Eri |
| 19335 | 1278 | 50 Per | 20261 | 1356 | 58 Tau | 20049 | 1426 | δ Men | 21986 | 1506 | DW Eri |
| 19388 | 1283 | 43 Tau | 20261 | 1356 | V696 Tau | 21039 | 1428 | 81 Tau | 22024 | 1508 | 56 Eri |
| 19388 | 1283 | ω ¹ Tau | 19917 | 1357 | TT Ret | 20856 | 1429 | RV Cae | 22024 | 1508 | DX Eri |
| 19513 | 1287 | IM Tau | 20263 | 1362 | EK Eri | 21036 | 1430 | 83 Tau | 22287 | 1511 | 4 Cam |
| 19513 | 1287 | 44 Tau | 20271 | 1363 | EM Eri | 21137 | 1432 | 85 Tau | 21914 | 1516 | λ nc |
| 19513 | 1287 | p Tau | 20400 | 1368 | 60 Tau | 21242 | 1434 | 57 Per | 22109 | 1520 | μ Eri |
| 19398 | 1288 | GU Eri | 20400 | 1368 | V775 Tau | 21242 | 1434 | m Per | 22109 | 1520 | 57 Eri |
| 20860 | 1289 | V408 Cep | 20430 | 1369 | x Tau | 21139 | 1437 | 45 Eri | 22040 | 1530 | κ Dor |
| 19483 | 1290 | 37 Eri | 20430 | 1369 | 59 Tau | 21192 | 1441 | DZ Eri | 22263 | 1532 | 58 Eri |
| 19554 | 1292 | 45 Tau | 20020 | 1372 | θ Ret | 21060 | 1443 | δ Cae | 22453 | 1533 | 1 Aur |
| 19672 | 1297 | V113 Tau | 20455 | 1373 | δ ¹ Tau | 21273 | 1444 | ρ Tau | 22441 | 1537 | 96 Tau |
| 19587 | 1298 | o ¹ Eri | 20455 | 1373 | 61 Tau | 21273 | 1444 | 86 Tau | 22325 | 1538 | 59 Eri |
| 19587 | 1298 | 38 Eri | 20493 | 1375 | V114 Tau | 21273 | 1444 | ρ Tau | 22280 | 1539 | ζ Cae |
| 19587 | 1298 | o ¹ Eri | 20484 | 1376 | 63 Tau | 21278 | 1449 | EH Eri | 21949 | 1541 | μ Men |
| 19571 | 1300 | GW Eri | 20579 | 1377 | 55 Per | 21278 | 1449 | 46 Eri | 22783 | 1542 | 9 Cam |
| 19515 | 1302 | δ Hor | 20533 | 1378 | 62 Tau | 21296 | 1451 | DV Eri | 22783 | 1542 | α Cam |
| 19812 | 1303 | 51 Per | 20591 | 1379 | 56 Per | 21296 | 1451 | 47 Eri | 22449 | 1543 | π ³ Ori |
| 19812 | 1303 | μ Per | 20542 | 1380 | 64 Tau | 21248 | 1453 | υ ¹ Eri | 22449 | 1543 | 1 Ori |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 22509 | 1544 | 2 Ori | 23743 | 1623 | BM Cam | 24645 | 1707 | R Aur | 25428 | 1791 | β Tau |
| 22509 | 1544 | π ² Ori | 23743 | 1623 | 12 Cam | 24608 | 1708 | 13 Aur | 25428 | 1791 | 112 Tau |
| 22565 | 1547 | 97 Tau | 22871 | 1629 | η Men | 24608 | 1708 | α Aur | 25194 | 1793 | SW Col |
| 22565 | 1547 | V480 Tau | 23474 | 1634 | 1 Lep | 24512 | 1711 | 108 Tau | 25410 | 1798 | 113 Tau |
| 22565 | 1547 | i Tau | 23783 | 1637 | 9 Aur | 24575 | 1712 | AE Aur | 25098 | 1801 | κ πc |
| 22479 | 1549 | 60 Eri | 23783 | 1637 | V398 Aur | 24436 | 1713 | β Ori | 25769 | 1802 | 17 Cam |
| 22678 | 1551 | 2 Aur | 23607 | 1638 | V103 Ori | 24436 | 1713 | 19 Ori | 25541 | 1805 | 24 Aur |
| 22549 | 1552 | 3 Ori | 23607 | 1638 | 11 Ori | 24436 | 1713 | β Ori | 25 541 | 1805 | φ Aur |
| 22549 | 1552 | π ⁴ Ori | 23767 | 1641 | 10 Aur | 23148 | 1716 | ξ Men | 25499 | 1808 | 115 Tau |
| 22854 | 1555 | 5 Cam | 23767 | 1641 | η Aur | 24555 | 1718 | 18 Ori | 25539 | 1810 | o Tau |
| 22667 | 1556 | o ¹ Ori | 24254 | 1643 | BN Cam | 24836 | 1719 | DV Cam | 25539 | 1810 | 114 Tau |
| 22667 | 1556 | o ¹ Ori | 23680 | 1648 | W Ori | 24836 | 1719 | 15 Cam | 25473 | 1811 | ψ Ori |
| 22667 | 1556 | 4 Ori | 23482 | 1649 | η ¹ πc | 24738 | 1722 | PU Aur | 25473 | 1811 | ψ ² Ori |
| 22701 | 1560 | 61 Eri | 23595 | 1652 | γ ¹ Cae | 24727 | 1726 | 16 Aur | 25473 | 1811 | ψ Ori |
| 22701 | 1560 | ω Eri | 23596 | 1653 | γ ² Cae | 24740 | 1728 | 17 Aur | 25473 | 1811 | 30 Ori |
| 22730 | 1562 | 5 Ori | 23596 | 1653 | X Cae | 24740 | 1728 | AR Aur | 25555 | 1814 | 116 Tau |
| 22531 | 1563 | ι πc | 23685 | 1654 | ε Lep | 24813 | 1729 | λ Aur | 25583 | 1816 | 117 Tau |
| 22534 | 1564 | ι πc | 23685 | 1654 | 2 Lep | 24813 | 1729 | 15 Aur | 25303 | 1818 | θ πc |
| 22797 | 1567 | π05 Ori | 23835 | 1656 | 104 Tau | 24799 | 1732 | IQ Aur | 25695 | 1821 | 118 Tau |
| 22797 | 1567 | π ⁵ Ori | 23835 | 1656 | m Tau | 24832 | 1734 | 18 Aur | 25973 | 1828 | 18 Cam |
| 22797 | 1567 | 8 Ori | 23794 | 1657 | EN Eri | 24674 | 1735 | 20 Ori | 25606 | 1829 | β Lep |
| 23040 | 1568 | 7 Cam | 23794 | 1657 | 66 Eri | 24674 | 1735 | τ Ori | 25606 | 1829 | 9 Lep |
| 22833 | 1569 | 6 Ori | 23871 | 1658 | 106 Tau | 24822 | 1739 | n Tau | 25737 | 1834 | 31 Ori |
| 22833 | 1569 | g Ori | 23871 | 1658 | 1 Tau | 24822 | 1739 | 109 Tau | 25737 | 1834 | CI Ori |
| 22845 | 1570 | π ¹ Ori | 23900 | 1659 | 103 Tau | 24879 | 1740 | 19 Aur | 25429 | 1836 | λ Dor |
| 22845 | 1570 | 7 Ori | 23883 | 1660 | 105 Tau | 24659 | 1743 | o Col | 25785 | 1837 | CK Ori |
| 23015 | 1577 | ι Aur | 23883 | 1660 | V115 Tau | 24372 | 1744 | θ Dor | 25813 | 1839 | 32 Ori |
| 23015 | 1577 | 3 Aur | 23852 | 1662 | 13 Ori | 24817 | 1746 | 21 Ori | 25861 | 1842 | 33 Ori |
| 22957 | 1580 | o ² Ori | 23649 | 1663 | η ² πc | 25048 | 1749 | 20 Aur | 25861 | 1842 | n ¹ Ori |
| 22957 | 1580 | 9 Ori | 23879 | 1664 | 14 Ori | 25048 | 1749 | ρ Aur | 25984 | 1843 | x Aur |
| 22881 | 1581 | R Eri | 23879 | 1664 | i Ori | 25197 | 1751 | 16 Cam | 25984 | 1843 | 25 Aur |
| 22958 | 1582 | b Eri | 23875 | 1666 | β Eri | 24827 | 1754 | TX Lep | 25945 | 1845 | 119 Tau |
| 22958 | 1582 | 62 Eri | 23875 | 1666 | 67 Eri | 24845 | 1756 | λ Lep | 25945 | 1845 | CE Tau |
| 23068 | 1586 | 99 Tau | 24019 | 1670 | V115 Tau | 24845 | 1756 | 6 Lep | 25853 | 1849 | 10 Lep |
| 23216 | 1588 | 8 Cam | 23983 | 1672 | 16 Ori | 24873 | 1757 | 7 Lep | 25930 | 1852 | δ Ori |
| 23088 | 1590 | k Tau | 23983 | 1672 | h Ori | 24873 | 1757 | v Lep | 25930 | 1852 | δ Ori |
| 23088 | 1590 | 98 Tau | 23941 | 1673 | 68 Eri | 25011 | 1761 | V136 Ori | 25930 | 1852 | 34 Ori |
| 23179 | 1592 | 4 Aur | 23693 | 1674 | ζ Dor | 25044 | 1765 | 22 Ori | 25923 | 1855 | v Ori |
| 23261 | 1599 | 5 Aur | 24010 | 1676 | 15 Ori | 25044 | 1765 | o Ori | 25923 | 1855 | 36 Ori |
| 23123 | 1601 | 10 Ori | 23467 | 1677 | β Men | 24829 | 1767 | ζ πc | 26408 | 1857 | 19 Cam |
| 23123 | 1601 | π ⁶ Ori | 24348 | 1678 | 14 Cam | 25192 | 1768 | 22 Aur | 26064 | 1858 | 120 Tau |
| 23268 | 1602 | 6 Aur | 23972 | 1679 | λ Eri | 25142 | 1770 | 23 Ori | 26064 | 1858 | V960 Tau |
| 23522 | 1603 | 10 Cam | 23972 | 1679 | 69 Eri | 25292 | 1773 | σ Aur | 25859 | 1862 | ε Col |
| 23522 | 1603 | β Cam | 23972 | 1679 | λ Eri | 25292 | 1773 | 21 Aur | 26093 | 1864 | 35 Ori |
| 23416 | 1605 | ε Aur | 24340 | 1689 | μ Aur | 25216 | 1774 | 110 Tau | 25985 | 1865 | 11 Lep |
| 23416 | 1605 | ε Aur | 24340 | 1689 | 11 Aur | 25278 | 1780 | V111 Tau | 25985 | 1865 | α Lep |
| 23416 | 1605 | 7 Aur | 24196 | 1690 | V108 Ori | 25278 | 1780 | 111 Tau | 26063 | 1868 | VV Ori |
| 23203 | 1607 | R Lep | 24169 | 1693 | RX Lep | 25202 | 1783 | 8 Lep | 26126 | 1872 | 38 Ori |
| 23221 | 1608 | 63 Eri | 23840 | 1695 | WZ Dor | 25247 | 1784 | 29 Ori | 26126 | 1872 | n ² Ori |
| 23231 | 1611 | 64 Eri | 24244 | 1696 | ι Lep | 25247 | 1784 | e Ori | 26248 | 1875 | 121 Tau |
| 23231 | 1611 | S Eri | 24244 | 1696 | 3 Lep | 25282 | 1787 | p Ori | 26176 | 1876 | 37 Ori |
| 23453 | 1612 | 8 Aur | 24331 | 1698 | ρ Ori | 25282 | 1787 | 27 Ori | 26176 | 1876 | φ ¹ Ori |
| 23453 | 1612 | ζ Aur | 24331 | 1698 | 17 Ori | 25281 | 1788 | η Ori | 26207 | 1879 | λ Ori |
| 23453 | 1612 | ζ Aur | 24305 | 1702 | μ Lep | 25281 | 1788 | 28 Ori | 26207 | 1879 | 39 Ori |
| 23364 | 1617 | ψ Eri | 24305 | 1702 | μ Lep | 25281 | 1788 | η Ori | 26207 | 1880 | λ Ori |
| 23364 | 1617 | 65 Eri | 24305 | 1702 | 5 Lep | 25302 | 1789 | V108 Ori | 26207 | 1880 | 39 Ori |
| 23497 | 1620 | ι Tau | 24327 | 1705 | κ Lep | 25302 | 1789 | 25 Ori | 26233 | 1890 | V104 Ori |
| 23497 | 1620 | 102 Tau | 24327 | 1705 | 4 Lep | 25302 | 1789 | ψ ¹ Ori | 26237 | 1892 | c Ori |
| 23734 | 1622 | BV Cam | 24504 | 1706 | KW Aur | 25336 | 1790 | 24 Ori | 26237 | 1892 | 42 Ori |
| 23734 | 1622 | 11 Cam | 24504 | 1706 | 14 Aur | 25336 | 1790 | γ Ori | 26220 | 1893 | 41 Ori |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 26220 | 1893 | V101 Ori | 27196 | 1971 | 27 Aur | 28358 | 2077 | δ Aur | 29388 | 2176 | 41 Aur |
| 26220 | 1893 | θ ¹ Ori | 26868 | 1973 | WZ Col | 28358 | 2077 | 33 Aur | 29034 | 2177 | θ Col |
| 26220 | 1893 | θ ¹ Ori | 27181 | 1977 | Y Tau | 28237 | 2084 | 139 Tau | 29064 | 2181 | π ² Col |
| 26220 | 1894 | 41 Ori | 27072 | 1983 | γ Lep | 28103 | 2085 | η Lep | 29379 | 2185 | 5 Gem |
| 26220 | 1894 | V101 Ori | 27072 | 1983 | 13 Lep | 28103 | 2085 | 16 Lep | 29416 | 2190 | TV Gem |
| 26220 | 1894 | θ ¹ Ori | 27265 | 1985 | 129 Tau | 28010 | 2087 | ξ Col | 29433 | 2193 | 68 Ori |
| 26220 | 1894 | θ ¹ Ori | 27316 | 1989 | 131 Tau | 28360 | 2088 | β Aur | 28909 | 2194 | η ¹ Dor |
| 26221 | 1895 | 41 Ori | 27338 | 1990 | 130 Tau | 28360 | 2088 | 34 Aur | 29323 | 2195 | V653 Mon |
| 26221 | 1895 | θ ¹ Ori | 26264 | 1991 | ι Men | 28360 | 2088 | β Aur | 29450 | 2197 | 6 Gem |
| 26224 | 1896 | 41 Ori | 26264 | 1991 | ι Men | 28404 | 2091 | 35 Aur | 29450 | 2197 | BU Gem |
| 26224 | 1896 | θ ¹ Ori | 27592 | 1992 | 29 Cam | 28404 | 2091 | π Aur | 29434 | 2198 | f ¹ Ori |
| 26235 | 1897 | θ ² Ori | 27364 | 1993 | 133 Tau | 28404 | 2091 | π Aur | 29434 | 2198 | 69 Ori |
| 26235 | 1897 | 43 Ori | 27483 | 1995 | 29 Aur | 28098 | 2092 | σ Col | 29426 | 2199 | ξ Ori |
| 26241 | 1899 | 44 Ori | 27483 | 1995 | τ Aur | 28380 | 2095 | 37 Aur | 29426 | 2199 | 70 Ori |
| 26241 | 1899 | ι Ori | 27204 | 1996 | μ Col | 28380 | 2095 | θ Aur | 29730 | 2201 | 40 Cam |
| 26263 | 1900 | V137 Ori | 27288 | 1998 | ζ Lep | 28380 | 2095 | θ Aur | 29401 | 2202 | V638 Mon |
| 26268 | 1901 | 45 Ori | 27288 | 1998 | 14 Lep | 28271 | 2100 | V100 Ori | 29263 | 2203 | AF Col |
| 26311 | 1903 | ε Ori | 27386 | 1999 | 52 Ori | 28271 | 2100 | 59 Ori | 29276 | 2212 | δ πc |
| 26311 | 1903 | 46 Ori | 27341 | 2001 | V103 Ori | 28499 | 2101 | V444 Aur | 29276 | 2212 | δ πc |
| 26311 | 1903 | ε Ori | 27468 | 2002 | 132 Tau | 28499 | 2101 | 36 Aur | 29488 | 2213 | IP CMa |
| 26382 | 1905 | 122 Tau | 27366 | 2004 | κ Ori | 28296 | 2103 | 60 Ori | 29919 | 2215 | UW Lyn |
| 26366 | 1907 | 40 Ori | 27366 | 2004 | 53 Ori | 28199 | 2106 | γ Col | 29919 | 2215 | 1 Lyn |
| 26366 | 1907 | φ ² Ori | 27731 | 2006 | 30 Cam | 28321 | 2107 | V474 Mon | 29655 | 2216 | η Gem |
| 26451 | 1910 | ζ Tau | 27511 | 2010 | 134 Tau | 28321 | 2107 | 1 Mon | 29655 | 2216 | η Gem |
| 26451 | 1910 | 123 Tau | 27639 | 2011 | 31 Aur | 28325 | 2108 | 2 Mon | 29655 | 2216 | 7 Gem |
| 26451 | 1910 | ζ Tau | 27639 | 2011 | υ Aur | 28677 | 2119 | 38 Aur | 29696 | 2219 | 44 Aur |
| 26536 | 1914 | 26 Aur | 27673 | 2012 | 32 Aur | 28328 | 2120 | η Col | 29696 | 2219 | κ Aur |
| 26069 | 1922 | β Dor | 27673 | 2012 | ν Aur | 28614 | 2124 | 61 Ori | 29650 | 2220 | 71 Ori |
| 26069 | 1922 | β Dor | 27100 | 2015 | δ Dor | 28614 | 2124 | μ Ori | 29134 | 2221 | ν Dor |
| 26606 | 1924 | V433 Aur | 27581 | 2016 | 135 Tau | 27566 | 2125 | κ Men | 29704 | 2223 | f ² Ori |
| 26412 | 1926 | v ¹ Col | 27661 | 2018 | V440 Aur | 28574 | 2128 | 3 Mon | 29704 | 2223 | 72 Ori |
| 26300 | 1927 | YX πc | 27321 | 2020 | β πc | 28691 | 2130 | 64 Ori | 29651 | 2227 | 5 Mon |
| 26640 | 1928 | 125 Tau | 26394 | 2022 | π Men | 28823 | 2132 | 39 Aur | 29651 | 2227 | γ Mon |
| 26549 | 1931 | σ Ori | 27971 | 2027 | 31 Cam | 28734 | 2134 | 1 Gem | 29884 | 2228 | 42 Aur |
| 26549 | 1931 | 48 Ori | 27971 | 2027 | TU Cam | 28716 | 2135 | x ² Ori | 29736 | 2229 | 73 Ori |
| 26594 | 1934 | 47 Ori | 27949 | 2029 | ξ Aur | 28716 | 2135 | x ² Ori | 29789 | 2230 | 8 Gem |
| 26594 | 1934 | ω Ori | 27949 | 2029 | 30 Aur | 28716 | 2135 | 62 Ori | 30060 | 2238 | UZ Lyn |
| 26594 | 1934 | ω Ori | 27658 | 2031 | 55 Ori | 28744 | 2142 | V696 Mon | 30060 | 2238 | 2 Lyn |
| 26460 | 1935 | v ² Col | 27743 | 2033 | V809 Tau | 28946 | 2143 | 40 Aur | 29949 | 2239 | 43 Aur |
| 26563 | 1937 | d Ori | 27743 | 2033 | 137 Tau | 28812 | 2144 | 63 Ori | 29840 | 2240 | 9 Gem |
| 26563 | 1937 | 49 Ori | 27830 | 2034 | 136 Tau | 28814 | 2145 | 66 Ori | 29840 | 2240 | PX Gem |
| 26718 | 1939 | NO Aur | 27654 | 2035 | δ Lep | 28930 | 2146 | V394 Aur | 29800 | 2241 | 74 Ori |
| 26942 | 1941 | 24 Cam | 27654 | 2035 | 15 Lep | 28816 | 2148 | SS Lep | 29800 | 2241 | k Ori |
| 27046 | 1943 | 23 Cam | 27750 | 2037 | 56 Ori | 28816 | 2148 | 17 Lep | 29353 | 2245 | η ² Dor |
| 26777 | 1946 | 126 Tau | 27628 | 2040 | β Col | 28756 | 2149 | 72 Col | 29850 | 2247 | 75 Ori |
| 26727 | 1948 | ζ Ori | 27530 | 2042 | γ πc | 28596 | 2151 | SW πc | 29850 | 2247 | 1 Ori |
| 26727 | 1948 | 50 Ori | 27913 | 2047 | 54 Ori | 29246 | 2152 | 37 Cam | 29885 | 2255 | 6 Mon |
| 26727 | 1949 | ζ Ori | 27913 | 2047 | x ¹ Ori | 28910 | 2155 | θ Lep | 29807 | 2256 | κ Col |
| 26727 | 1949 | 50 Ori | 27965 | 2052 | 57 Ori | 28910 | 2155 | 18 Lep | 30272 | 2257 | 4 Lyn |
| 25918 | 1953 | γ Men | 28162 | 2054 | V403 Aur | 28874 | 2156 | S Lep | 30019 | 2258 | V115 Ori |
| 26634 | 1956 | α Col | 27810 | 2056 | λ Col | 29038 | 2159 | v Ori | 29271 | 2261 | α Men |
| 26728 | 1957 | V105 Ori | 27810 | 2056 | λ Col | 29038 | 2159 | 67 Ori | 30247 | 2264 | 45 Aur |
| 26964 | 1961 | V731 Tau | 25776 | 2059 | 31 Men | 28973 | 2161 | XZ Lep | 30073 | 2273 | 7 Mon |
| 26885 | 1963 | 51 Ori | 25776 | 2059 | TZ Men | 29490 | 2165 | 36 Cam | 30122 | 2282 | ζ CMa |
| 26885 | 1963 | b Ori | 27989 | 2061 | 58 Ori | 28984 | 2166 | YY Lep | 30122 | 2282 | 1 CMa |
| 26169 | 1964 | WX Men | 27989 | 2061 | α Ori | 29048 | 2168 | 19 Lep | 30214 | 2284 | FR CMa |
| 26865 | 1968 | 12 Lep | 27989 | 2061 | α Ori | 28957 | 2171 | π ¹ Col | 30343 | 2286 | μ Gem |
| 27249 | 1969 | 26 Cam | 27369 | 2062 | λ Men | 29225 | 2173 | 3 Gem | 30343 | 2286 | 13 Gem |
| 26953 | 1970 | V119 Ori | 28041 | 2063 | U Ori | 29225 | 2173 | PU Gem | 30343 | 2286 | μ Gem |
| 27196 | 1971 | o Aur | 27534 | 2064 | ε Dor | 29388 | 2175 | 41 Aur | 30520 | 2289 | ψ ¹ Aur |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|----------------|----------|------|----------------|----------|------|------------------|----------|------|----------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 30520 | 2289 | ψ^1 Aur | 31681 | 2421 | 24 Gem | 32921 | 2529 | d Gem | 33856 | 2646 | σ CMa |
| 30520 | 2289 | 46 Aur | 31681 | 2421 | γ Gem | 32838 | 2534 | V592 Mon | 33971 | 2648 | 19 Mon |
| 30651 | 2291 | RR Lyn | 31646 | 2422 | V640 Mon | 32759 | 2538 | κ CMa | 33971 | 2648 | V637 Mon |
| 30679 | 2293 | 5 Lyn | 31564 | 2423 | 6 CMa | 32759 | 2538 | κ CMa | 34088 | 2650 | 43 Gem |
| 30324 | 2294 | β CMa | 31564 | 2423 | ν^1 CMa | 32759 | 2538 | 13 CMa | 34088 | 2650 | ζ Gem |
| 30324 | 2294 | β CMa | 31737 | 2425 | 53 Aur | 33041 | 2539 | OX Aur | 34088 | 2650 | ζ Gem |
| 30324 | 2294 | 2 CMa | 31832 | 2427 | ψ^2 Aur | 33041 | 2539 | 59 Aur | 33977 | 2653 | σ^2 CMa |
| 30277 | 2296 | δ Col | 31832 | 2427 | 50 Aur | 33018 | 2540 | θ Gem | 33977 | 2653 | 24 CMa |
| 30419 | 2298 | 8 Mon | 31592 | 2429 | 7 CMa | 33018 | 2540 | 34 Gem | 33977 | 2653 | σ^2 CMa |
| 30419 | 2298 | ϵ Mon | 31592 | 2429 | ν^2 CMa | 33064 | 2541 | 60 Aur | 34045 | 2657 | γ CMa |
| 30422 | 2299 | ϵ Mon | 31697 | 2432 | V731 Mon | 32810 | 2545 | HZ CMa | 34045 | 2657 | 23 CMa |
| 30422 | 2299 | 8 Mon | 31852 | 2438 | 54 Aur | 33133 | 2547 | 61 Aur | 34182 | 2659 | 44 Gem |
| 30407 | 2301 | V721 Mon | 31766 | 2442 | V689 Mon | 33133 | 2547 | ψ^8 Aur | 34081 | 2666 | C Pup |
| 30426 | 2306 | IU CMa | 31700 | 2443 | ν^3 CMa | 32607 | 2550 | α π c | 34234 | 2670 | V569 Mon |
| 30564 | 2308 | BL Ori | 31700 | 2443 | 8 CMa | 32768 | 2553 | τ Pup | 34356 | 2671 | R Gem |
| 30541 | 2310 | T Mon | 31685 | 2451 | ν Pup | 33269 | 2557 | V352 Aur | 34059 | 2672 | H Pup |
| 30342 | 2320 | ν π c | 32019 | 2453 | 25 Gem | 31897 | 2559 | ζ Men | 34000 | 2674 | V450 Car |
| 30438 | 2326 | α Car | 31978 | 2456 | S Mon | 33449 | 2560 | 15 Lyn | 34301 | 2678 | FN CMa |
| 30769 | 2330 | 16 Gem | 31978 | 2456 | 15 Mon | 33202 | 2564 | e Gem | 34248 | 2680 | IL CMa |
| 31039 | 2331 | 6 Lyn | 32173 | 2459 | 55 Aur | 33202 | 2564 | 38 Gem | 34105 | 2683 | V386 Car |
| 30827 | 2332 | RT Aur | 32173 | 2459 | ψ^4 Aur | 33040 | 2567 | KX CMa | 34440 | 2684 | 45 Gem |
| 30827 | 2332 | 48 Aur | 32104 | 2466 | 26 Gem | 33377 | 2568 | ψ^9 Aur | 33384 | 2689 | θ Men |
| 30972 | 2338 | 47 Aur | 32438 | 2470 | 12 Lyn | 33277 | 2569 | 37 Gem | 34360 | 2690 | FV CMa |
| 30883 | 2343 | ν Gem | 32246 | 2473 | 27 Gem | 33092 | 2571 | EY CMa | 34444 | 2693 | δ CMa |
| 30883 | 2343 | 18 Gem | 32246 | 2473 | ϵ Gem | 33092 | 2571 | 15 CMa | 34444 | 2693 | 25 CMa |
| 30772 | 2344 | 10 Mon | 32489 | 2477 | 13 Lyn | 33160 | 2574 | θ CMa | 34752 | 2696 | 63 Aur |
| 30591 | 2348 | G Pup | 32249 | 2478 | 30 Gem | 33160 | 2574 | 14 CMa | 34693 | 2697 | 46 Gem |
| 30321 | 2352 | π^1 Dor | 32311 | 2480 | 28 Gem | 33152 | 2580 | σ^1 CMa | 34693 | 2697 | τ Gem |
| 30867 | 2356 | β Mon | 32480 | 2483 | 56 Aur | 33152 | 2580 | 16 CMa | 34722 | 2700 | 47 Gem |
| 30867 | 2356 | 11 Mon | 32480 | 2483 | ψ^5 Aur | 33152 | 2580 | σ^1 CMa | 34622 | 2701 | 20 Mon |
| 30867 | 2357 | β Mon | 32362 | 2484 | ξ Gem | 33165 | 2583 | EZ CMa | 34495 | 2702 | A Pup |
| 30867 | 2357 | 11 Mon | 32362 | 2484 | 31 Gem | 33485 | 2585 | ψ^1 Aur | 34912 | 2703 | UY Lyn |
| 30867 | 2358 | β Mon | 32562 | 2487 | 57 Aur | 33485 | 2585 | 16 Lyn | 34579 | 2704 | LZ CMa |
| 30867 | 2358 | 11 Mon | 32562 | 2487 | ψ^6 Aur | 33248 | 2588 | 17 CMa | 34819 | 2706 | 48 Gem |
| 30788 | 2361 | λ CMa | 32404 | 2489 | 32 Gem | 33302 | 2590 | π CMa | 34724 | 2707 | 21 Mon |
| 30840 | 2364 | IY CMa | 32864 | 2490 | 42 Cam | 33302 | 2590 | 19 CMa | 34724 | 2707 | V571 Mon |
| 31105 | 2371 | 19 Gem | 32349 | 2491 | 9 CMa | 33189 | 2591 | NP Pup | 34769 | 2714 | 22 Mon |
| 31173 | 2372 | WW Aur | 32349 | 2491 | α CMa | 33345 | 2593 | μ CMa | 34769 | 2714 | δ Mon |
| 31359 | 2376 | BQ Lyn | 32292 | 2492 | 10 CMa | 33345 | 2593 | 18 CMa | 35146 | 2715 | 18 Lyn |
| 31359 | 2376 | 7 Lyn | 32292 | 2492 | FT CMa | 33347 | 2596 | ι CMa | 34909 | 2717 | 51 Gem |
| 30565 | 2377 | π^2 Dor | 32463 | 2494 | 16 Mon | 33347 | 2596 | 20 CMa | 34909 | 2717 | BQ Gem |
| 31159 | 2382 | 12 Mon | 32385 | 2501 | HP CMa | 33347 | 2596 | ι CMa | 34798 | 2718 | 26 CMa |
| 31216 | 2385 | 13 Mon | 32533 | 2503 | 17 Mon | 33614 | 2600 | 62 Aur | 34798 | 2718 | MM CMa |
| 31125 | 2387 | 4 CMa | 32492 | 2504 | 11 CMa | 33595 | 2601 | 39 Gem | 34814 | 2724 | HN CMa |
| 31125 | 2387 | ξ^1 CMa | 32578 | 2506 | 18 Mon | 32912 | 2602 | ι Vol | 35025 | 2725 | 52 Gem |
| 31125 | 2387 | ξ^1 CMa | 32504 | 2509 | 12 CMa | 33447 | 2603 | HH CMa | 34817 | 2726 | V363 Pup |
| 31205 | 2392 | HR CMa | 32504 | 2509 | HK CMa | 33650 | 2605 | 40 Gem | 34802 | 2727 | E Pup |
| 31099 | 2393 | SX Col | 32434 | 2510 | V339 Pup | 37391 | 2609 | OV Cep | 34924 | 2734 | GY CMa |
| 31676 | 2394 | 8 Lyn | 33104 | 2511 | 43 Cam | 33715 | 2615 | 41 Gem | 34473 | 2735 | γ^1 Vol |
| 31434 | 2398 | 49 Aur | 32740 | 2512 | IS Gem | 33579 | 2618 | ϵ CMa | 34481 | 2736 | γ^2 Vol |
| 31665 | 2402 | 11 Lyn | 32844 | 2516 | ψ^7 Aur | 33579 | 2618 | 21 CMa | 35152 | 2738 | 53 Gem |
| 31385 | 2404 | 14 Mon | 32844 | 2516 | 58 Aur | 33558 | 2619 | t Pup | 34834 | 2740 | I Pup |
| 31579 | 2405 | UU Aur | 32682 | 2517 | V715 Mon | 33721 | 2628 | FU CMa | 34834 | 2740 | QW Pup |
| 31068 | 2410 | AE π c | 32537 | 2518 | x Pup | 33927 | 2630 | 42 Gem | 34937 | 2741 | GG CMa |
| 31137 | 2412 | μ π c | 32753 | 2519 | 33 Gem | 33927 | 2630 | ω Gem | 36547 | 2742 | VZ Cam |
| 31416 | 2414 | ξ^2 CMa | 32753 | 2519 | OV Gem | 33927 | 2630 | ω Gem | 35080 | 2744 | 24 Mon |
| 31416 | 2414 | 5 CMa | 33048 | 2520 | 14 Lyn | 33929 | 2631 | NP Gem | 34981 | 2745 | 27 CMa |
| 31771 | 2419 | 51 Aur | 32814 | 2525 | 35 Gem | 33804 | 2640 | LS CMa | 34981 | 2745 | EW CMa |
| 31789 | 2420 | ψ^3 Aur | 32531 | 2526 | V448 Car | 33856 | 2646 | σ CMa | 34899 | 2746 | OU Pup |
| 31789 | 2420 | 52 Aur | 32921 | 2529 | 36 Gem | 33856 | 2646 | 22 CMa | 34899 | 2746 | I Pup |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|----------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 34922 | 2748 | 1 Pup | 36186 | 2853 | NR CMa | 37949 | 2975 | 51 Cam | 38835 | 3102 | 11 Pup |
| 34922 | 2748 | L02 Pup | 36284 | 2854 | γ CMi | 37934 | 2977 | BC Cam | 38835 | 3102 | j Pup |
| 35037 | 2749 | ω CMa | 36284 | 2854 | 4 CMi | 37934 | 2977 | 49 Cam | 38945 | 3103 | BU CMi |
| 35037 | 2749 | 28 CMa | 36168 | 2855 | FY CMa | 37704 | 2983 | 76 Gem | 39261 | 3109 | AX Cam |
| 35037 | 2749 | ω CMa | 36393 | 2857 | 64 Gem | 37704 | 2983 | c Gem | 39261 | 3109 | 53 Cam |
| 35341 | 2753 | 64 Aur | 36429 | 2861 | b Gem | 37740 | 2985 | κ Gem | 38962 | 3110 | 14 CMi |
| 35029 | 2761 | PR Pup | 36429 | 2861 | 65 Gem | 37740 | 2985 | 77 Gem | 38872 | 3116 | N Pup |
| 35350 | 2763 | 54 Gem | 36425 | 2864 | 6 CMi | 37705 | 2989 | AZ CMi | 38827 | 3117 | x Car |
| 35350 | 2763 | λ Gem | 36363 | 2875 | y Pup | 37826 | 2990 | β Gem | 38827 | 3117 | x Car |
| 35210 | 2764 | 145 CMa | 36377 | 2878 | σ Pup | 37826 | 2990 | 78 Gem | 39348 | 3119 | AE Lyn |
| 35735 | 2772 | 47 Cam | 36377 | 2878 | σ Pup | 37811 | 2991 | 79 Gem | 39348 | 3119 | 54 Cam |
| 35264 | 2773 | π Pup | 36641 | 2880 | δ ¹ CMi | 37648 | 2993 | 1 Pup | 38917 | 3121 | O Pup |
| 35264 | 2773 | π Pup | 36641 | 2880 | 7 CMi | 37677 | 2996 | 3 Pup | 39079 | 3122 | 27 Mon |
| 35550 | 2777 | δ Gem | 36760 | 2886 | 68 Gem | 37677 | 2996 | 1 Pup | 39023 | 3123 | 12 Pup |
| 35550 | 2777 | 55 Gem | 36723 | 2887 | δ ² CMi | 37908 | 3003 | g Gem | 39191 | 3124 | ω ¹ Cnc |
| 35412 | 2781 | 29 CMa | 36723 | 2887 | 8 CMi | 37908 | 3003 | 81 Gem | 39191 | 3124 | 2 Cnc |
| 35412 | 2781 | UW CMa | 36608 | 2889 | PS Pup | 37751 | 3004 | V390 Pup | 38834 | 3126 | V341 Car |
| 35415 | 2782 | 30 CMa | 36850 | 2890 | 66 Gem | 37921 | 3008 | 11 CMi | 39177 | 3128 | 3 Cnc |
| 35415 | 2782 | τ CMa | 36850 | 2890 | α Gem | 37842 | 3009 | PV Pup | 38957 | 3129 | V Pup |
| 35415 | 2782 | τ CMa | 36850 | 2890 | 66 Gem | 37842 | 3009 | 2 Pup | 39263 | 3132 | ω ² Cnc |
| 35783 | 2783 | 19 Lyn | 36850 | 2891 | 66 Gem | 37843 | 3010 | 2 Pup | 39263 | 3132 | 4 Cnc |
| 35785 | 2784 | 19 Lyn | 36850 | 2891 | α Gem | 38016 | 3013 | π Gem | 39236 | 3134 | 5 Cnc |
| 35363 | 2787 | NV Pup | 36850 | 2891 | 66 Gem | 38016 | 3013 | 80 Gem | 39172 | 3135 | V695 Mon |
| 35487 | 2788 | R CMa | 36965 | 2898 | CC Lyn | 37891 | 3015 | 4 Pup | 39211 | 3141 | 28 Mon |
| 35406 | 2790 | v ² Pup | 36812 | 2901 | δ ³ CMi | 37819 | 3017 | c Pup | 39211 | 3141 | V645 Mon |
| 35406 | 2790 | NW Pup | 36812 | 2901 | 9 CMi | 38106 | 3021 | 82 Gem | 38994 | 3147 | V374 Car |
| 35393 | 2791 | F Pup | 36773 | 2902 | KQ Pup | 37915 | 3022 | V392 Pup | 39424 | 3149 | x Gem |
| 35710 | 2793 | 65 Aur | 36962 | 2905 | 69 Gem | 37504 | 3024 | ζ Vol | 39153 | 3151 | PY Pup |
| 35699 | 2795 | 56 Gem | 36962 | 2905 | υ Gem | 38031 | 3026 | QY Pup | 39070 | 3153 | V460 Car |
| 35611 | 2800 | HQ CMa | 36728 | 2907 | V376 Pup | 38048 | 3029 | 5 Pup | 39225 | 3157 | V461 Car |
| 35626 | 2802 | MZ CMa | 36778 | 2911 | OW Pup | 37982 | 3032 | OX Pup | 39360 | 3162 | V336 Pup |
| 35228 | 2803 | δ Vol | 36778 | 2911 | z Pup | 38070 | 3034 | o Pup | 39567 | 3163 | 8 Cnc |
| 35907 | 2805 | 66 Aur | 36039 | 2919 | ε Men | 38070 | 3034 | o Pup | 39429 | 3165 | ζ Pup |
| 35846 | 2808 | 57 Gem | 36981 | 2921 | V378 Pup | 38074 | 3041 | T Pup | 39722 | 3167 | 28 Lyn |
| 35842 | 2810 | 58 Gem | 37204 | 2924 | 70 Gem | 38211 | 3044 | 6 Pup | 39524 | 3168 | 14 Pup |
| 35941 | 2816 | 59 Gem | 37088 | 2927 | 25 Mon | 38170 | 3045 | ξ Pup | 39659 | 3169 | 9 Cnc |
| 35933 | 2817 | OT Gem | 37036 | 2928 | PT Pup | 38170 | 3045 | 7 Pup | 39659 | 3169 | μ ¹ Cnc |
| 36145 | 2818 | 21 Lyn | 37406 | 2929 | 23 Lyn | 38089 | 3046 | Q Pup | 39659 | 3169 | BL Cnc |
| 35795 | 2819 | NO CMa | 37265 | 2930 | 71 Gem | 38167 | 3049 | V397 Pup | 39487 | 3170 | MZ Pup |
| 35987 | 2820 | 1 CMi | 37265 | 2930 | o Gem | 38164 | 3055 | P Pup | 39847 | 3173 | 27 Lyn |
| 36046 | 2821 | 60 Gem | 37096 | 2937 | f Pup | 38159 | 3058 | QS Pup | 39780 | 3176 | μ Cnc |
| 36046 | 2821 | ι Gem | 37300 | 2938 | f Gem | 38373 | 3059 | 13 CMi | 39780 | 3176 | 10 Cnc |
| 35951 | 2825 | FW CMa | 37300 | 2938 | 74 Gem | 38373 | 3059 | ζ CMi | 39780 | 3176 | μ ² Cnc |
| 35904 | 2827 | η CMa | 37279 | 2943 | α CMi | 38406 | 3061 | BC CMi | 39584 | 3179 | MX Vel |
| 35904 | 2827 | η CMa | 37279 | 2943 | 10 CMi | 38372 | 3063 | 8 Pup | 39874 | 3184 | 12 Cnc |
| 35904 | 2827 | 31 CMa | 37173 | 2944 | PU Pup | 38382 | 3064 | 9 Pup | 39757 | 3185 | ρ Pup |
| 36041 | 2828 | 2 CMi | 37173 | 2944 | m Pup | 38623 | 3065 | 25 Lyn | 39757 | 3185 | ρ Pup |
| 36041 | 2828 | ε CMi | 37609 | 2946 | 24 Lyn | 38639 | 3066 | 26 Lyn | 39757 | 3185 | 15 Pup |
| 36156 | 2837 | 61 Gem | 37174 | 2957 | MY Pup | 38538 | 3067 | φ Gem | 39530 | 3186 | V375 Car |
| 35960 | 2842 | V368 Pup | 37297 | 2961 | n ¹ Pup | 38538 | 3067 | 83 Gem | 39863 | 3188 | ζ Mon |
| 35960 | 2843 | V368 Pup | 37322 | 2963 | d ² Pup | 38427 | 3073 | 10 Pup | 39863 | 3188 | 29 Mon |
| 36188 | 2845 | 3 CMi | 37329 | 2964 | d ³ Pup | 38370 | 3078 | QU Pup | 40023 | 3191 | 14 Cnc |
| 36188 | 2845 | β CMi | 37521 | 2967 | NZ Gem | 38414 | 3080 | a Pup | 40023 | 3191 | ψ Cnc |
| 36188 | 2845 | β CMi | 37447 | 2970 | 26 Mon | 38455 | 3084 | b Pup | 39906 | 3192 | 16 Pup |
| 36238 | 2846 | 63 Gem | 37447 | 2970 | α Mon | 38455 | 3084 | QZ Pup | 39866 | 3195 | PQ Pup |
| 36439 | 2849 | 22 Lyn | 37248 | 2971 | V390 Car | 38722 | 3086 | 85 Gem | 40035 | 3202 | 18 Pup |
| 36265 | 2851 | 5 CMi | 37629 | 2973 | 75 Gem | 38438 | 3088 | V372 Car | 39919 | 3203 | NN Vel |
| 36265 | 2851 | η CMi | 37629 | 2973 | σ Gem | 38518 | 3090 | J Pup | 39953 | 3207 | γ ² Vel |
| 36366 | 2852 | 62 Gem | 37629 | 2973 | σ Gem | 38848 | 3095 | 1 Cnc | 39953 | 3207 | γ ² Vel |
| 36366 | 2852 | ρ Gem | 37415 | 2974 | R Pup | 38792 | 3099 | PX Pup | 39953 | 3207 | γ Vel |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|----------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 40167 | 3208 | 16 Cnc | 41400 | 3319 | BP Cnc | 42515 | 3438 | β Pyx | 43409 | 3518 | γ Pyx |
| 40167 | 3208 | ζ ² Cnc | 41375 | 3321 | 2 Hya | 42540 | 3439 | NY Vel | 43584 | 3519 | 51 Cnc |
| 40167 | 3208 | ζ ¹ Cnc | 41375 | 3321 | LM Hya | 42459 | 3440 | HW Vel | 43584 | 3519 | o ¹ Cnc |
| 40167 | 3209 | 16 Cnc | 41250 | 3322 | V438 Pup | 42662 | 3441 | 9 Hya | 43347 | 3520 | g Vel |
| 40167 | 3209 | ζ ² Cnc | 41704 | 3323 | o UMa | 42504 | 3442 | NZ Vel | 43575 | 3521 | BO Cnc |
| 40167 | 3209 | ζ ¹ Cnc | 41704 | 3323 | 1 UMa | 42570 | 3445 | b Vel | 43575 | 3521 | 53 Cnc |
| 40167 | 3210 | 16 Cnc | 41361 | 3327 | NO Pup | 42536 | 3447 | o Vel | 43587 | 3522 | ρ ¹ Cnc |
| 40167 | 3210 | ζ ² Cnc | 41361 | 3328 | NO Pup | 42536 | 3447 | o Vel | 43587 | 3522 | 55 Cnc |
| 40167 | 3210 | ζ ¹ Cnc | 41574 | 3329 | 28 Cnc | 42806 | 3449 | 43 Cnc | 43496 | 3523 | 15 Hya |
| 40084 | 3211 | 19 Pup | 41574 | 3329 | CX Cnc | 42806 | 3449 | γ Cnc | 42794 | 3524 | RS Cha |
| 39970 | 3213 | IS Vel | 41578 | 3333 | 29 Cnc | 42795 | 3450 | 45 Cnc | 43413 | 3527 | f Vel |
| 40240 | 3215 | 15 Cnc | 41003 | 3334 | η Vol | 42624 | 3452 | n Vel | 43413 | 3527 | KX Vel |
| 40240 | 3215 | BM Cnc | 41475 | 3335 | VV Pyx | 42799 | 3454 | η Hya | 43685 | 3528 | CY Lyn |
| 39794 | 3223 | ε Vol | 41564 | 3337 | LO Hya | 42799 | 3454 | 7 Hya | 43903 | 3531 | 6 UMa |
| 40091 | 3225 | NS Pup | 40888 | 3340 | θ Cha | 42799 | 3454 | η Hya | 43721 | 3532 | 57 Cnc |
| 40091 | 3225 | h ¹ Pup | 41515 | 3343 | XY Pyx | 42679 | 3456 | LN Vel | 43834 | 3540 | ρ ² Cnc |
| 40259 | 3229 | 20 Pup | 41312 | 3347 | β Vol | 42568 | 3457 | V343 Car | 43834 | 3540 | 58 Cnc |
| 40155 | 3232 | AH Vel | 41483 | 3350 | GU Vel | 42568 | 3457 | d Car | 43811 | 3541 | X Cnc |
| 40646 | 3235 | 29 Lyn | 41483 | 3350 | F Vel | 42835 | 3459 | F Hya | 43813 | 3547 | 16 Hya |
| 40274 | 3237 | MX Pup | 42080 | 3354 | 2 UMa | 42425 | 3460 | θ Vol | 43813 | 3547 | ζ Hya |
| 40274 | 3237 | r Pup | 41816 | 3355 | 30 Cnc | 42911 | 3461 | δ Cnc | 43851 | 3550 | 60 Cnc |
| 40321 | 3240 | OS Pup | 41816 | 3355 | υ ¹ Cnc | 42911 | 3461 | 47 Cnc | 43822 | 3552 | 17 Hya |
| 40326 | 3243 | h ² Pup | 41822 | 3357 | 31 Cnc | 42712 | 3462 | HX Vel | 43822 | 3553 | 17 Hya |
| 40285 | 3244 | NO Vel | 41822 | 3357 | θ Cnc | 42954 | 3464 | 46 Cnc | 43932 | 3555 | o ² Cnc |
| 40534 | 3248 | R Cnc | 41726 | 3364 | AB Pyx | 42917 | 3465 | b Cnc | 43932 | 3555 | 59 Cnc |
| 40526 | 3249 | β Cnc | 41975 | 3365 | 32 Lyn | 42917 | 3465 | BI Cnc | 43825 | 3556 | δ Pyx |
| 40526 | 3249 | 17 Cnc | 41909 | 3366 | η Cnc | 42917 | 3465 | 49 Cnc | 43970 | 3561 | o Cnc |
| 40875 | 3254 | 30 Lyn | 41909 | 3366 | 33 Cnc | 42715 | 3466 | KT Vel | 43970 | 3561 | 62 Cnc |
| 40604 | 3257 | 21 Pup | 41940 | 3369 | 32 Cnc | 42726 | 3467 | HY Vel | 43807 | 3562 | IY Vel |
| 40843 | 3262 | x Cnc | 41940 | 3369 | υ ² Cnc | 42828 | 3468 | α Pyx | 44031 | 3563 | 61 Cnc |
| 40843 | 3262 | 18 Cnc | 41904 | 3372 | 34 Cnc | 42931 | 3469 | 10 Hya | 44001 | 3565 | o Cnc |
| 40766 | 3265 | HQ Hya | 42090 | 3377 | 33 Lyn | 42951 | 3472 | MX Hya | 44001 | 3565 | 63 Cnc |
| 40881 | 3268 | 19 Cnc | 41939 | 3385 | VX Pyx | 43100 | 3474 | 48 Cnc | 43763 | 3568 | V473 Car |
| 40881 | 3268 | λ Cnc | 42133 | 3387 | 35 Cnc | 43100 | 3474 | ι Cnc | 44127 | 3569 | 9 UMa |
| 40706 | 3270 | q Pup | 42438 | 3391 | 3 UMa | 43103 | 3475 | 48 Cnc | 44127 | 3569 | ι UMa |
| 41075 | 3275 | 31 Lyn | 42438 | 3391 | π ¹ UMa | 43103 | 3475 | ι Cnc | 43783 | 3571 | c Car |
| 40945 | 3282 | w Pup | 42146 | 3398 | 3 Hya | 42834 | 3476 | D Vel | 44066 | 3572 | α Cnc |
| 41117 | 3284 | 20 Cnc | 42146 | 3398 | HV Hya | 42884 | 3477 | d Vel | 44066 | 3572 | 65 Cnc |
| 41117 | 3284 | d ¹ Cnc | 42527 | 3403 | π ² UMa | 43121 | 3481 | 50 Cnc | 43878 | 3574 | H Vel |
| 41067 | 3289 | 22 Pup | 42527 | 3403 | 4 UMa | 43109 | 3482 | ε Hya | 44154 | 3575 | 64 Cnc |
| 41163 | 3290 | 21 Cnc | 42265 | 3406 | 36 Cnc | 43109 | 3482 | 11 Hya | 44154 | 3575 | o ³ Cnc |
| 41039 | 3294 | B Vel | 42265 | 3406 | c Cnc | 43109 | 3482 | ε Hya | 44390 | 3576 | 8 UMa |
| 41107 | 3296 | V436 Pup | 42088 | 3407 | C Vel | 43067 | 3484 | D Hya | 44390 | 3576 | ρ UMa |
| 41211 | 3297 | 1 Hya | 42313 | 3410 | 4 Hya | 43067 | 3484 | 12 Hya | 44126 | 3577 | FZ Cnc |
| 41319 | 3299 | 25 Cnc | 42313 | 3410 | δ Hya | 42913 | 3485 | δ Vel | 44248 | 3579 | 10 UMa |
| 41319 | 3299 | d ² Cnc | 42353 | 3412 | 37 Cnc | 43023 | 3487 | a Vel | 43937 | 3582 | V376 Car |
| 40817 | 3301 | κ ¹ Vol | 42177 | 3413 | HV Vel | 43114 | 3490 | AI Pyx | 43937 | 3582 | b ¹ Car |
| 40834 | 3302 | κ ² Vol | 42134 | 3414 | e ² Car | 43234 | 3492 | ρ Hya | 44307 | 3587 | 66 Cnc |
| 41377 | 3304 | ρ ¹ Cnc | 42129 | 3415 | e ¹ Car | 43234 | 3492 | 13 Hya | 44093 | 3588 | FZ Vel |
| 41377 | 3304 | 22 Cnc | 42402 | 3418 | σ Hya | 43082 | 3494 | OP Vel | 44342 | 3589 | 67 Cnc |
| 41037 | 3307 | ε Car | 42402 | 3418 | 5 Hya | 43105 | 3498 | V344 Car | 44191 | 3591 | w Vel |
| 41404 | 3310 | 23 Cnc | 42334 | 3420 | η Pyx | 43105 | 3498 | f Car | 44213 | 3593 | IU Vel |
| 41404 | 3310 | φ ² Cnc | 42604 | 3422 | 34 Lyn | 43305 | 3500 | 14 Hya | 44471 | 3594 | κ UMa |
| 41404 | 3311 | 23 Cnc | 42312 | 3426 | e Vel | 43305 | 3500 | KX Hya | 44471 | 3594 | 12 UMa |
| 41404 | 3311 | φ ² Cnc | 42516 | 3427 | 39 Cnc | 42637 | 3502 | η Cha | 44405 | 3595 | 69 Cnc |
| 41389 | 3312 | 24 Cnc | 42556 | 3429 | 41 Cnc | 43644 | 3505 | 5 UMa | 44405 | 3595 | v Cnc |
| 41389 | 3313 | 24 Cnc | 42556 | 3429 | ε Cnc | 43644 | 3505 | b UMa | 44143 | 3598 | b ² Car |
| 41307 | 3314 | C Hya | 42509 | 3431 | a Hya | 43531 | 3508 | 35 Lyn | 44299 | 3600 | IZ Vel |
| 40702 | 3318 | α Cha | 42509 | 3431 | 6 Hya | 43454 | 3510 | 54 Cnc | 44512 | 3601 | 70 Cnc |
| 41400 | 3319 | 27 Cnc | 42483 | 3433 | ζ Pyx | 43354 | 3517 | HZ Vel | 44337 | 3605 | OY Vel |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|----------------|----------|------|----------------|----------|------|----------------|----------|------|---------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 44857 | 3609 | 11 UMa | 45915 | 3698 | CG UMa | 47080 | 3815 | 11 LMi | 48341 | 3899 | 6 Sex |
| 44857 | 3609 | σ^1 UMa | 45556 | 3699 | ι Car | 47080 | 3815 | SV LMi | 48390 | 3900 | g Leo |
| 44659 | 3613 | 18 Hya | 45631 | 3703 | K Vel | 46806 | 3816 | R Car | 48390 | 3900 | 22 Leo |
| 44659 | 3613 | ω Hya | 45860 | 3705 | 40 Lyn | 47096 | 3818 | 7 Leo | 47956 | 3902 | v Cha |
| 44511 | 3614 | c Vel | 45860 | 3705 | α Lyn | 46950 | 3819 | L Vel | 48356 | 3903 | u^1 Hya |
| 44382 | 3615 | α Vol | 45751 | 3706 | 26 Hya | 46974 | 3825 | h Car | 48356 | 3903 | 39 Hya |
| 45038 | 3616 | 13 UMa | 45675 | 3708 | LR Vel | 47189 | 3826 | 8 Leo | 48455 | 3905 | μ Leo |
| 45038 | 3616 | σ^2 UMa | 45811 | 3709 | 27 Hya | 47205 | 3827 | 10 Leo | 48455 | 3905 | 24 Leo |
| 44738 | 3618 | NS Hya | 45615 | 3713 | V478 Car | 47300 | 3829 | 42 Lyn | 48414 | 3906 | 7 Sex |
| 44901 | 3619 | 15 UMa | 45902 | 3718 | θ Pyx | 47145 | 3831 | IM Vel | 48437 | 3909 | 8 Sex |
| 44901 | 3619 | f UMa | 46247 | 3722 | EZ UMa | 47249 | 3832 | 34 Hya | 48437 | 3909 | γ Sex |
| 44818 | 3621 | 72 Cnc | 45999 | 3724 | KU Hya | 47310 | 3834 | 2 Sex | 48374 | 3912 | m Vel |
| 44818 | 3621 | τ Cnc | 45856 | 3728 | k Car | 47175 | 3836 | M Vel | 48682 | 3917 | SY UMa |
| 44798 | 3623 | κ Cnc | 46146 | 3731 | κ Leo | 47654 | 3839 | 27 UMa | 48682 | 3917 | 31 UMa |
| 44798 | 3623 | 76 Cnc | 46146 | 3731 | 1 Leo | 47267 | 3842 | y Vel | 48469 | 3920 | QZ Vel |
| 44798 | 3623 | κ Cnc | 46026 | 3733 | λ Pyx | 47431 | 3845 | ι Hya | 48527 | 3924 | V335 Vel |
| 45075 | 3624 | τ UMa | 45941 | 3734 | κ Vel | 47431 | 3845 | 35 Hya | 48833 | 3928 | 19 LMi |
| 45075 | 3624 | 14 UMa | 46221 | 3738 | 28 Hya | 47427 | 3846 | OW Hya | 48883 | 3937 | 27 Leo |
| 44892 | 3626 | 75 Cnc | 46365 | 3744 | 29 Hya | 47427 | 3846 | 37 Hya | 48883 | 3937 | v Leo |
| 44946 | 3627 | ξ Cnc | 46390 | 3748 | α Hya | 47452 | 3849 | 38 Hya | 48774 | 3940 | ϕ Vel |
| 44946 | 3627 | 77 Cnc | 46390 | 3748 | 30 Hya | 47452 | 3849 | κ Hya | 48799 | 3941 | IV Vel |
| 44824 | 3628 | κ Pyx | 46371 | 3749 | G Hya | 47544 | 3850 | DR Leo | 48990 | 3945 | 12 Sex |
| 44883 | 3630 | 19 Hya | 46283 | 3753 | I Vel | 47570 | 3851 | 43 Lyn | 48943 | 3946 | OY Hya |
| 44816 | 3634 | λ Vel | 46454 | 3754 | 2 Leo | 47508 | 3852 | 14 Leo | 48926 | 3947 | η Ant |
| 44816 | 3634 | λ Vel | 46454 | 3754 | ω Leo | 47508 | 3852 | o Leo | 48782 | 3949 | V492 Car |
| 45058 | 3639 | RS Cnc | 46457 | 3755 | 3 Leo | 47550 | 3853 | 13 Leo | 49029 | 3950 | 29 Leo |
| 45033 | 3640 | 79 Cnc | 46733 | 3757 | 23 UMa | 47391 | 3856 | m Car | 49029 | 3950 | π Leo |
| 44961 | 3641 | 20 Hya | 46733 | 3757 | h UMa | 47631 | 3857 | 13 LMi | 49081 | 3951 | 20 LMi |
| 44626 | 3642 | V345 Car | 46509 | 3759 | τ^1 Hya | 47522 | 3858 | I Hya | 49220 | 3952 | EO Leo |
| 45001 | 3644 | ϵ Pyx | 46509 | 3759 | 31 Hya | 46928 | 3860 | ζ Cha | 49329 | 3961 | 13 Sex |
| 45333 | 3648 | 16 UMa | 46652 | 3764 | 7 LMi | 46928 | 3860 | ζ Cha | 49402 | 3970 | 40 Hya |
| 45333 | 3648 | c UMa | 46515 | 3765 | ϵ Ant | 47701 | 3861 | f Leo | 49402 | 3970 | u^2 Hya |
| 45170 | 3650 | π^1 Cnc | 47013 | 3768 | 22 UMa | 47701 | 3861 | 15 Leo | 49530 | 3973 | 14 Sex |
| 45170 | 3650 | 81 Cnc | 46735 | 3769 | 8 LMi | 47911 | 3865 | 28 UMa | 49593 | 3974 | 21 LMi |
| 45290 | 3652 | 36 Lyn | 46977 | 3771 | d UMa | 47723 | 3866 | 16 Leo | 49583 | 3975 | η Leo |
| 45085 | 3654 | GX Vel | 46977 | 3771 | 24 UMa | 47723 | 3866 | ψ Leo | 49583 | 3975 | 30 Leo |
| 45184 | 3655 | 21 Hya | 46977 | 3771 | DK UMa | 47965 | 3870 | CS UMa | 49477 | 3978 | R Vel |
| 45184 | 3655 | KW Hya | 46750 | 3773 | 4 Leo | 47758 | 3871 | θ Ant | 49637 | 3980 | 31 Leo |
| 45080 | 3659 | V357 Car | 46750 | 3773 | λ Leo | 47694 | 3872 | IP Vel | 49641 | 3981 | α Sex |
| 45080 | 3659 | a Car | 46853 | 3775 | 25 UMa | 47908 | 3873 | 17 Leo | 49641 | 3981 | 15 Sex |
| 45455 | 3660 | 17 UMa | 46853 | 3775 | θ UMa | 47908 | 3873 | ϵ Leo | 49669 | 3982 | α Leo |
| 45189 | 3661 | KL Vel | 46774 | 3779 | 6 Leo | 47717 | 3875 | O Vel | 49669 | 3982 | 32 Leo |
| 45493 | 3662 | DD UMa | 46657 | 3780 | ζ^1 Ant | 47959 | 3877 | 18 Leo | 49065 | 3983 | μ Cha |
| 45493 | 3662 | 18 UMa | 46657 | 3781 | ζ^1 Ant | 48029 | 3880 | 19 Leo | 49812 | 3989 | 17 Sex |
| 45493 | 3662 | e UMa | 46771 | 3782 | ξ Leo | 48036 | 3882 | R Leo | 49712 | 3990 | Q Vel |
| 45101 | 3663 | i Car | 46771 | 3782 | 5 Leo | 47893 | 3883 | V487 Car | 49841 | 3994 | 41 Hya |
| 45336 | 3665 | 22 Hya | 46651 | 3786 | ψ Vel | 47854 | 3884 | 1 Car | 49841 | 3994 | λ Hya |
| 45336 | 3665 | θ Hya | 46776 | 3787 | 32 Hya | 47854 | 3884 | 1 Car | 49865 | 3996 | 18 Sex |
| 45410 | 3669 | π Cnc | 46776 | 3787 | τ^2 Hya | 48319 | 3888 | u UMa | 49929 | 3998 | 34 Leo |
| 45410 | 3669 | 82 Cnc | 46734 | 3789 | ζ^2 Ant | 48319 | 3888 | u UMa | 49751 | 3999 | S Car |
| 45410 | 3669 | π^2 Cnc | 46904 | 3791 | 9 LMi | 48319 | 3888 | 29 UMa | 50027 | 4004 | 19 Sex |
| 45344 | 3674 | z Vel | 46620 | 3793 | V482 Car | 48218 | 3889 | DG Leo | 49926 | 4007 | V368 Car |
| 43908 | 3678 | ζ Oct | 46107 | 3795 | ι Cha | 48218 | 3889 | 20 Leo | 50222 | 4008 | U UMa |
| 45527 | 3681 | 23 Hya | 46810 | 3798 | S Ant | 48002 | 3890 | u Car | 49934 | 4009 | QY Car |
| 45439 | 3682 | l Vel | 47006 | 3799 | 26 UMa | 48002 | 3891 | u Car | 50218 | 4014 | 22 LMi |
| 45526 | 3683 | 24 Hya | 46952 | 3800 | 10 LMi | 48273 | 3893 | 4 Sex | 50070 | 4017 | LW Vel |
| 45448 | 3684 | k Vel | 46952 | 3800 | SU LMi | 48402 | 3894 | ϕ UMa | 50191 | 4023 | q Vel |
| 45238 | 3685 | β Car | 46701 | 3803 | N Vel | 48402 | 3894 | 30 UMa | 50303 | 4024 | 23 LMi |
| 45688 | 3690 | 38 Lyn | 46701 | 3803 | N Vel | 48324 | 3896 | 23 Leo | 50448 | 4026 | 32 UMa |
| 45496 | 3696 | g Car | 46982 | 3814 | 33 Hya | 48224 | 3898 | u Vel | 50316 | 4027 | 24 LMi |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 50319 | 4030 | 35 Leo | 51624 | 4133 | ρ Leo | 52943 | 4232 | v Hya | 54539 | 4335 | 52 UMa |
| 50335 | 4031 | ζ Leo | 51624 | 4133 | ρ Leo | 52633 | 4234 | δ ² Cha | 54463 | 4337 | x Car |
| 50335 | 4031 | 36 Leo | 51624 | 4133 | 47 Leo | 53043 | 4235 | 43 UMa | 54463 | 4337 | V382 Car |
| 50372 | 4033 | 33 UMa | 51685 | 4137 | 34 LMi | 53064 | 4236 | 42 UMa | 54461 | 4338 | V371 Car |
| 50372 | 4033 | λ UMa | 51576 | 4140 | p Car | 52980 | 4237 | 41 Sex | 54682 | 4343 | β Crt |
| 50333 | 4035 | 37 Leo | 51576 | 4140 | PP Car | 53261 | 4246 | 44 UMa | 54682 | 4343 | 11 Crt |
| 50099 | 4037 | ω Car | 51814 | 4141 | 37 UMa | 53229 | 4247 | 46 LMi | 54751 | 4352 | V533 Car |
| 50384 | 4039 | 39 Leo | 51635 | 4143 | t Vel | 53295 | 4248 | 45 UMa | 54849 | 4356 | p ⁵ Leo |
| 50414 | 4042 | 22 Sex | 51718 | 4145 | 44 Hya | 53295 | 4248 | ω UMa | 54849 | 4356 | 69 Leo |
| 50414 | 4042 | ε Sex | 51775 | 4146 | 48 Leo | 53154 | 4250 | V524 Car | 54872 | 4357 | 68 Leo |
| 50332 | 4045 | GY Vel | 51676 | 4147 | V369 Car | 53252 | 4251 | b ³ Hya | 54872 | 4357 | δ Leo |
| 50685 | 4047 | EN UMa | 51802 | 4148 | 49 Leo | 53273 | 4253 | p ¹ Leo | 54879 | 4359 | 70 Leo |
| 50456 | 4049 | AG Ant | 51802 | 4148 | TX Leo | 53355 | 4254 | 48 LMi | 54879 | 4359 | θ Leo |
| 50371 | 4050 | V337 Car | 51914 | 4150 | 35 LMi | 53253 | 4257 | u Car | 54951 | 4362 | FN Leo |
| 50371 | 4050 | q Car | 51821 | 4153 | U Ant | 53426 | 4258 | 46 UMa | 54951 | 4362 | 72 Leo |
| 50564 | 4054 | 40 Leo | 51905 | 4156 | φ ² Hya | 53417 | 4259 | 54 Leo | 55016 | 4365 | n Leo |
| 50583 | 4057 | 41 Leo | 51849 | 4159 | r Car | 53417 | 4260 | 54 Leo | 55016 | 4365 | 73 Leo |
| 50583 | 4057 | γ ² Leo | 52009 | 4163 | U Hya | 53379 | 4263 | KQ Vel | 55084 | 4368 | φ Leo |
| 50583 | 4057 | γ ¹ Leo | 51912 | 4164 | t ¹ Car | 53423 | 4265 | 55 Leo | 55084 | 4368 | 74 Leo |
| 50583 | 4058 | 41 Leo | 52098 | 4166 | 37 LMi | 53449 | 4267 | VY Leo | 55106 | 4369 | SV Crt |
| 50583 | 4058 | γ ² Leo | 51986 | 4167 | p Vel | 53449 | 4267 | 56 Leo | 55137 | 4371 | 75 Leo |
| 50583 | 4058 | γ ¹ Leo | 52139 | 4168 | 38 LMi | 53492 | 4270 | 50 LMi | 55203 | 4374 | 53 UMa |
| 50555 | 4063 | GZ Vel | 52004 | 4169 | V370 Car | 53394 | 4271 | T Car | 55203 | 4374 | ξ UMa |
| 50684 | 4064 | RS Sex | 52085 | 4171 | φ ³ Hya | 53502 | 4273 | ι Ant | 55203 | 4374 | ξ UMa |
| 50684 | 4064 | 23 Sex | 52085 | 4171 | φ Hya | 53530 | 4274 | IW Vel | 55203 | 4375 | 53 UMa |
| 50801 | 4069 | μ UMa | 52043 | 4173 | V514 Car | 53589 | 4276 | U Car | 55203 | 4375 | ξ UMa |
| 50801 | 4069 | 34 UMa | 51839 | 4174 | γ Cha | 53721 | 4277 | 47 UMa | 55203 | 4375 | ξ UMa |
| 50755 | 4070 | 42 Leo | 52353 | 4178 | 38 UMa | 53740 | 4287 | 7 Crt | 55219 | 4377 | v UMa |
| 50933 | 4072 | ET UMa | 52154 | 4180 | x Vel | 53740 | 4287 | α Crt | 55219 | 4377 | 54 UMa |
| 50676 | 4074 | J Vel | 52316 | 4182 | 33 Sex | 53838 | 4288 | 49 UMa | 55140 | 4379 | V535 Car |
| 50860 | 4075 | 27 LMi | 52366 | 4184 | RX LMi | 53807 | 4291 | 58 Leo | 55266 | 4380 | 55 UMa |
| 50851 | 4077 | 43 Leo | 52221 | 4185 | V364 Car | 53773 | 4293 | i Vel | 55249 | 4381 | 76 Leo |
| 50799 | 4080 | r Vel | 52478 | 4187 | 39 UMa | 53824 | 4294 | 59 Leo | 55282 | 4382 | δ Crt |
| 50935 | 4081 | 28 LMi | 52308 | 4188 | V429 Car | 53824 | 4294 | c Leo | 55282 | 4382 | 12 Crt |
| 50885 | 4082 | SS Sex | 52422 | 4189 | 40 LMi | 53910 | 4295 | β UMa | 55434 | 4386 | σ Leo |
| 50885 | 4082 | 25 Sex | 52457 | 4192 | 41 LMi | 53910 | 4295 | 48 UMa | 55434 | 4386 | 77 Leo |
| 51008 | 4088 | 44 Leo | 52452 | 4193 | 35 Sex | 53907 | 4299 | 61 Leo | 55425 | 4390 | π Cen |
| 51008 | 4088 | DE Leo | 52577 | 4195 | VY UMa | 53907 | 4299 | p ² Leo | 55560 | 4392 | 56 UMa |
| 51056 | 4090 | 30 LMi | 52370 | 4196 | V518 Car | 53954 | 4300 | 60 Leo | 55598 | 4395 | λ Crt |
| 51069 | 4094 | 42 Hya | 52405 | 4198 | V519 Car | 53954 | 4300 | b Leo | 55598 | 4395 | 13 Crt |
| 51069 | 4094 | μ Hya | 52419 | 4199 | θ Car | 54061 | 4301 | 50 UMa | 55642 | 4399 | 78 Leo |
| 51233 | 4100 | 31 LMi | 52468 | 4200 | w Car | 54061 | 4301 | α UMa | 55642 | 4399 | ι Leo |
| 51233 | 4100 | β LMi | 52468 | 4200 | V520 Car | 54049 | 4306 | 62 Leo | 55650 | 4400 | 79 Leo |
| 51213 | 4101 | CX Leo | 52584 | 4201 | 36 Sex | 54049 | 4306 | p ³ Leo | 55687 | 4402 | 14 Crt |
| 51213 | 4101 | 45 Leo | 52685 | 4202 | 41 UMa | 54136 | 4309 | 51 UMa | 55687 | 4402 | ε Crt |
| 51172 | 4104 | α Ant | 52638 | 4203 | 42 LMi | 54182 | 4310 | 63 Leo | 55705 | 4405 | γ Crt |
| 51401 | 4106 | 35 UMa | 52340 | 4206 | DR Cha | 54182 | 4310 | x Leo | 55705 | 4405 | 15 Crt |
| 51192 | 4110 | V399 Car | 52686 | 4208 | 51 Leo | 53702 | 4312 | η Oct | 55765 | 4408 | 81 Leo |
| 51459 | 4112 | 36 UMa | 52686 | 4208 | m Leo | 54204 | 4314 | x ¹ Hya | 55791 | 4410 | 80 Leo |
| 51420 | 4113 | 32 LMi | 52689 | 4209 | k Leo | 54255 | 4317 | x ² Hya | 55846 | 4414 | 83 Leo |
| 51232 | 4114 | s Car | 52689 | 4209 | 52 Leo | 54255 | 4317 | x ² Hya | 55874 | 4416 | 16 Crt |
| 51362 | 4116 | δ Sex | 52737 | 4214 | b ¹ Hya | 54336 | 4319 | 65 Leo | 55874 | 4416 | κ Crt |
| 51362 | 4116 | 29 Sex | 52727 | 4216 | μ Vel | 54336 | 4319 | p ⁴ Leo | 55945 | 4418 | ι Leo |
| 51376 | 4118 | δ Ant | 52882 | 4223 | 43 LMi | 54388 | 4322 | 64 Leo | 55945 | 4418 | 84 Leo |
| 51437 | 4119 | β Sex | 52911 | 4227 | l Leo | 54301 | 4325 | z Car | 55953 | 4420 | QT Hya |
| 51437 | 4119 | 30 Sex | 52911 | 4227 | 53 Leo | 54360 | 4327 | V815 Cen | 56034 | 4422 | 57 UMa |
| 51437 | 4119 | β Sex | 52827 | 4228 | V522 Car | 54540 | 4330 | EP UMa | 56080 | 4426 | 85 Leo |
| 51556 | 4124 | 33 LMi | 52913 | 4229 | 40 Sex | 54487 | 4332 | 67 Leo | 56135 | 4430 | EE UMa |
| 51585 | 4127 | 46 Leo | 52959 | 4230 | 44 LMi | 54522 | 4333 | CO UMa | 56148 | 4431 | 58 UMa |
| 51585 | 4127 | ES Leo | 52595 | 4231 | δ ¹ Cha | 54539 | 4335 | ψ UMa | 56127 | 4432 | 87 Leo |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|----------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 56127 | 4432 | e Leo | 57632 | 4534 | 94 Leo | 59608 | 4650 | 12 Vir | 60904 | 4752 | 17 Com |
| 56146 | 4433 | 86 Leo | 57632 | 4534 | β Leo | 59654 | 4652 | D Cen | 60904 | 4752 | AI Com |
| 56211 | 4434 | λ Dra | 57632 | 4534 | β Leo | 59678 | 4653 | DL Cru | 60941 | 4753 | 18 Com |
| 56211 | 4434 | 1 Dra | 57669 | 4537 | j Cen | 59747 | 4656 | δ Cru | 60979 | 4755 | V928 Cen |
| 56242 | 4437 | 88 Leo | 57757 | 4540 | 5 Vir | 59747 | 4656 | δ Cru | 60957 | 4756 | 20 Com |
| 56201 | 4438 | V809 Cen | 57757 | 4540 | β Vir | 59774 | 4660 | 69 UMa | 60965 | 4757 | 7 Crv |
| 56243 | 4441 | o ¹ Cen | 57803 | 4546 | B Cen | 59774 | 4660 | δ UMa | 60965 | 4757 | δ Crv |
| 56243 | 4441 | o ¹ Cen | 57936 | 4552 | β Hya | 59803 | 4662 | γ Crv | 60978 | 4760 | 74 UMa |
| 56250 | 4442 | o ² Cen | 57936 | 4552 | β Hya | 59803 | 4662 | 4 Crv | 60988 | 4761 | 7 CVn |
| 56250 | 4442 | o ² Cen | 58001 | 4554 | γ UMa | 59819 | 4663 | 6 Com | 60992 | 4762 | 75 UMa |
| 56280 | 4443 | 17 Crt | 58001 | 4554 | 64 UMa | 59796 | 4665 | DK Dra | 61084 | 4763 | γ Cru |
| 56280 | 4444 | 17 Crt | 58110 | 4559 | 6 Vir | 59831 | 4666 | 2 CVn | 60998 | 4765 | CQ Dra |
| 56343 | 4450 | ξ Hya | 58112 | 4560 | 65 UMa | 59847 | 4667 | 7 Com | 60998 | 4765 | 4 Dra |
| 56445 | 4455 | 89 Leo | 58112 | 4560 | DN UMa | 59929 | 4671 | ε μs | 61071 | 4766 | UU Com |
| 56473 | 4456 | 90 Leo | 58117 | 4561 | 65 UMa | 59929 | 4671 | ε μs | 61071 | 4766 | 21 Com |
| 56480 | 4460 | A Cen | 58159 | 4564 | 95 Leo | 60000 | 4674 | β Cha | 61136 | 4768 | BG Cru |
| 56583 | 4461 | 2 Dra | 58159 | 4564 | o Leo | 60009 | 4679 | ζ Cru | 61136 | 4768 | 35 Cru |
| 56518 | 4463 | V763 Cen | 58181 | 4566 | 66 UMa | 60030 | 4681 | 13 Vir | 61199 | 4773 | γ μs |
| 56518 | 4463 | c ¹ Cen | 58188 | 4567 | η Crt | 60059 | 4682 | F Cen | 61174 | 4775 | η Crv |
| 56573 | 4466 | c ² Cen | 58188 | 4567 | 30 Crt | 60066 | 4684 | FM Com | 61174 | 4775 | 8 Crv |
| 56561 | 4467 | λ Cen | 58272 | 4571 | LV Hya | 60087 | 4685 | 8 Com | 61246 | 4777 | 20 Vir |
| 56633 | 4468 | 21 Crt | 58484 | 4583 | ε Cha | 60098 | 4688 | 9 Com | 61295 | 4780 | 22 Com |
| 56633 | 4468 | θ Crt | 58510 | 4585 | 7 Vir | 60129 | 4689 | η Vir | 61318 | 4781 | 21 Vir |
| 56647 | 4471 | 91 Leo | 58510 | 4585 | b Vir | 60129 | 4689 | 15 Vir | 61318 | 4781 | q Vir |
| 56647 | 4471 | v Leo | 58545 | 4586 | FR Cam | 60122 | 4690 | 3 CVn | 61317 | 4785 | 8 CVn |
| 56700 | 4476 | c ³ Cen | 58590 | 4589 | 8 Vir | 60172 | 4695 | c Vir | 61317 | 4785 | β CVn |
| 56770 | 4477 | 59 UMa | 58590 | 4589 | π Vir | 60172 | 4695 | 16 Vir | 61359 | 4786 | β Crv |
| 56675 | 4479 | π Cha | 58587 | 4590 | TY Crv | 60189 | 4696 | 5 Crv | 61359 | 4786 | 9 Crv |
| 56789 | 4480 | 60 UMa | 58587 | 4590 | 31 Crt | 60189 | 4696 | ζ Crv | 61281 | 4787 | κ Dra |
| 56779 | 4483 | ω Vir | 58684 | 4594 | 67 UMa | 60202 | 4697 | 11 Com | 61281 | 4787 | κ Dra |
| 56779 | 4483 | ω Vir | 58684 | 4594 | DP UMa | 60260 | 4700 | ε Cru | 61281 | 4787 | 5 Dra |
| 56779 | 4483 | 1 Vir | 58758 | 4599 | θ ¹ Cru | 60212 | 4701 | 70 UMa | 61394 | 4789 | 23 Com |
| 56802 | 4488 | ι Crt | 58858 | 4602 | 2 Com | 60320 | 4703 | ζ ² μs | 61415 | 4791 | 24 Com |
| 56802 | 4488 | 24 Crt | 58867 | 4603 | θ ² Cru | 60329 | 4704 | ζ ¹ μs | 61418 | 4792 | 24 Com |
| 56899 | 4491 | VX Crt | 58867 | 4603 | θ ² Cru | 60351 | 4707 | 12 Com | 61384 | 4795 | 6 Dra |
| 56862 | 4492 | GT μs | 58905 | 4605 | κ Cha | 60353 | 4708 | 17 Vir | 61496 | 4797 | TU Crv |
| 56922 | 4494 | o Hya | 58948 | 4608 | 9 Vir | 60425 | 4711 | 6 Crv | 61585 | 4798 | α μs |
| 56975 | 4495 | 92 Leo | 58948 | 4608 | o Vir | 60449 | 4712 | x ¹ Cen | 61585 | 4798 | a μs |
| 56997 | 4496 | 61 UMa | 59072 | 4616 | η Cru | 60467 | 4715 | AI CVn | 61558 | 4799 | 25 Vir |
| 56970 | 4497 | V914 Cen | 59173 | 4618 | V863 Cen | 60467 | 4715 | 4 CVn | 61558 | 4799 | f Vir |
| 57029 | 4501 | 62 UMa | 59184 | 4620 | E Cen | 60485 | 4716 | 5 CVn | 61532 | 4800 | T UMa |
| 57111 | 4504 | 3 Dra | 59196 | 4621 | δ Cen | 60514 | 4717 | GN Com | 61571 | 4801 | 25 Com |
| 57175 | 4511 | V810 Cen | 59196 | 4621 | δ Cen | 60514 | 4717 | 13 Com | 61622 | 4802 | τ Cen |
| 57283 | 4514 | 27 Crt | 59199 | 4623 | α Crv | 60610 | 4724 | x ² Cen | 61703 | 4806 | KY μs |
| 57283 | 4514 | ζ Crt | 59199 | 4623 | 1 Crv | 60584 | 4726 | 71 UMa | 61658 | 4807 | FW Vir |
| 57328 | 4515 | 2 Vir | 59229 | 4624 | V788 Cen | 60646 | 4728 | 6 CVn | 61667 | 4808 | R Vir |
| 57328 | 4515 | ξ Vir | 59232 | 4625 | V817 Cen | 60718 | 4730 | α ¹ Cru | 61692 | 4811 | 9 CVn |
| 57380 | 4517 | v Vir | 59285 | 4626 | 10 Vir | 60718 | 4730 | α ² Cru | 61740 | 4813 | 26 Vir |
| 57380 | 4517 | 3 Vir | 59309 | 4629 | 11 Vir | 60718 | 4731 | α ¹ Cru | 61740 | 4813 | x Vir |
| 57380 | 4517 | v Vir | 59316 | 4630 | 2 Crv | 60718 | 4731 | α ² Cru | 61796 | 4814 | FH μs |
| 57399 | 4518 | x UMa | 59316 | 4630 | ε Crv | 60710 | 4732 | G Cen | 61724 | 4815 | 26 Com |
| 57399 | 4518 | 63 UMa | 59352 | 4632 | 3 Com | 60697 | 4733 | 14 Com | 61748 | 4816 | AX CVn |
| 57363 | 4520 | λ μs | 59394 | 4635 | 3 Crv | 60742 | 4737 | γ Com | 61789 | 4817 | 1 Cen |
| 57512 | 4526 | V918 Cen | 59449 | 4638 | ρ Cen | 60742 | 4737 | 15 Com | 61932 | 4819 | γ Cen |
| 57565 | 4527 | 93 Leo | 59468 | 4640 | 4 Com | 60746 | 4738 | 16 Com | 61981 | 4820 | R μs |
| 57565 | 4527 | DQ Leo | 59458 | 4641 | 68 UMa | 60781 | 4739 | BL Cru | 61910 | 4821 | VV Crv |
| 57562 | 4528 | 4 Vir | 59501 | 4643 | 5 Com | 60823 | 4743 | σ Cen | 61910 | 4822 | VV Crv |
| 57581 | 4530 | μ μs | 59551 | 4645 | S μs | 60795 | 4745 | 73 UMa | 61966 | 4823 | CH Cru |
| 57581 | 4530 | μ μs | 59504 | 4646 | CO Cam | 60813 | 4746 | FT Vir | 61966 | 4823 | 39 Cru |
| 57613 | 4532 | II Hya | 59588 | 4647 | V335 Hya | 60855 | 4748 | u Cen | 61937 | 4824 | GG Vir |

Número de estrellas (Catálogo Hiparco), 2020

| Estrella | | | | Estrella | | | | Estrella | | | | Estrella | | | |
|----------|------|------------|---------|----------|------|------------|---------|----------|------|----------|---------|----------|------|------------|-----|
| NH | NBSC | nombre | | NH | NBSC | nombre | | NH | NBSC | nombre | | NH | NBSC | nombre | |
| 61937 | 4824 | 27 | Vir | 63210 | 4913 | H | Cen | 64792 | 5011 | 59 | Vir | 66607 | 5115 | DY | Cha |
| 61941 | 4825 | γ | Vir | 63210 | 4913 | V945 | Cen | 64792 | 5011 | e | Vir | 66458 | 5127 | 25 | CVn |
| 61941 | 4825 | 29 | Vir | 63121 | 4914 | 12 | CVn | 64852 | 5015 | σ | Vir | 66657 | 5132 | ϵ | Cen |
| 61941 | 4826 | γ | Vir | 63121 | 4914 | α^1 | CVn | 64852 | 5015 | 60 | Vir | 66657 | 5132 | ϵ | Cen |
| 61941 | 4826 | 29 | Vir | 63125 | 4915 | α^2 | CVn | 64844 | 5017 | 20 | CVn | 66666 | 5134 | V744 | Cen |
| 61960 | 4828 | ρ | Vir | 63125 | 4915 | 12 | CVn | 64844 | 5017 | AO | CVn | 66645 | 5135 | V765 | Cen |
| 61960 | 4828 | 30 | Vir | 63125 | 4915 | α^2 | CVn | 64924 | 5019 | 61 | Vir | 66821 | 5141 | Q | Cen |
| 61960 | 4828 | ρ | Vir | 63076 | 4916 | 8 | Dra | 64962 | 5020 | γ | Hya | 66634 | 5142 | 82 | UMa |
| 61968 | 4829 | d^1 | Vir | 63355 | 4920 | 36 | Com | 64962 | 5020 | 46 | Hya | 66727 | 5144 | 1 | Boo |
| 61968 | 4829 | 31 | Vir | 63414 | 4921 | k | Vir | 64906 | 5023 | 21 | CVn | 66825 | 5147 | T | Cen |
| 62027 | 4830 | BZ | Cru | 63414 | 4921 | 44 | Vir | 64906 | 5023 | BK | CVn | 66763 | 5149 | 2 | Boo |
| 62012 | 4831 | w | Cen | 63613 | 4923 | δ | μ s | 65112 | 5026 | V964 | Cen | 66803 | 5150 | m | Vir |
| 61936 | 4833 | 76 | UMa | 63462 | 4924 | 37 | Com | 65109 | 5028 | ι | Cen | 66803 | 5150 | 82 | Vir |
| 62268 | 4842 | ι | Cru | 63494 | 4925 | 46 | Vir | 65072 | 5032 | 23 | CVn | 66700 | 5153 | CQ | UMa |
| 62322 | 4844 | β | μ s | 63432 | 4928 | 9 | Dra | 65271 | 5035 | J | Cen | 66738 | 5154 | 83 | UMa |
| 62207 | 4845 | 10 | CVn | 63533 | 4929 | 38 | Com | 65241 | 5040 | 64 | Vir | 66738 | 5154 | IQ | UMa |
| 62223 | 4846 | Y | CVn | 63688 | 4930 | LS | μ s | 65387 | 5041 | m | Cen | 67036 | 5158 | V827 | Cen |
| 62267 | 4847 | 32 | Vir | 63503 | 4931 | 78 | UMa | 65468 | 5042 | ι | μ s | 66936 | 5159 | 84 | Vir |
| 62267 | 4847 | FM | Vir | 63608 | 4932 | ϵ | Vir | 65301 | 5044 | 63 | Vir | 67057 | 5165 | 83 | Vir |
| 62267 | 4847 | d^2 | Vir | 63608 | 4932 | 47 | Vir | 65323 | 5047 | 65 | Vir | 67153 | 5168 | 1 | Cen |
| 62325 | 4849 | 33 | Vir | 63724 | 4933 | ξ^1 | Cen | 65420 | 5050 | 66 | Vir | 67153 | 5168 | i | Cen |
| 62356 | 4851 | 27 | Com | 63750 | 4937 | 48 | Vir | 65628 | 5051 | ι | μ s | 67139 | 5170 | 85 | Vir |
| 62434 | 4853 | β | Cru | 63820 | 4938 | V789 | Cen | 65376 | 5052 | CL | CVn | 67261 | 5171 | V766 | Cen |
| 62434 | 4853 | β | Cru | 63945 | 4940 | f | Cen | 65378 | 5054 | 79 | UMa | 67234 | 5172 | M | Cen |
| 62376 | 4854 | EP | Vir | 64004 | 4942 | ξ^2 | Cen | 65378 | 5054 | ζ | UMa | 67172 | 5173 | 86 | Vir |
| 62394 | 4855 | 34 | Vir | 63901 | 4943 | 14 | CVn | 65378 | 5055 | 79 | UMa | 67244 | 5174 | z | Cen |
| 62443 | 4858 | 35 | Vir | 63948 | 4946 | 39 | Com | 65378 | 5055 | ζ | UMa | 67288 | 5181 | 87 | Vir |
| 62478 | 4861 | 28 | Com | 63950 | 4949 | 40 | Com | 65474 | 5056 | α | Vir | 67239 | 5182 | 3 | Boo |
| 62423 | 4863 | 7 | Dra | 63950 | 4949 | FS | Com | 65474 | 5056 | 67 | Vir | 67275 | 5185 | ι | Boo |
| 62541 | 4865 | 29 | Com | 64094 | 4952 | θ | μ s | 65474 | 5056 | α | Vir | 67275 | 5185 | 4 | Boo |
| 62516 | 4866 | 11 | CVn | 64094 | 4952 | θ | μ s | 65477 | 5062 | 80 | UMa | 67231 | 5187 | 84 | UMa |
| 62576 | 4869 | 30 | Com | 64022 | 4954 | 41 | Com | 65581 | 5064 | 68 | Vir | 67231 | 5187 | CR | UMa |
| 63031 | 4870 | ι | Oct | 64078 | 4955 | 49 | Vir | 65581 | 5064 | i | Vir | 67464 | 5190 | v | Cen |
| 62683 | 4874 | p | Cen | 64122 | 4957 | g | Vir | 65755 | 5066 | EZ | μ s | 67464 | 5190 | v | Cen |
| 62732 | 4876 | DS | Cru | 64166 | 4958 | 45 | Hya | 65639 | 5068 | 69 | Vir | 67301 | 5191 | η | UMa |
| 62757 | 4878 | 37 | Vir | 64166 | 4958 | ψ | Hya | 65810 | 5071 | K | Cen | 67301 | 5191 | 85 | UMa |
| 62763 | 4883 | 31 | Com | 64224 | 4961 | 50 | Vir | 65721 | 5072 | 70 | Vir | 67457 | 5192 | 2 | Cen |
| 62807 | 4884 | 32 | Com | 64238 | 4963 | 51 | Vir | 65835 | 5080 | R | Hya | 67457 | 5192 | V806 | Cen |
| 62867 | 4888 | e | Cen | 64238 | 4963 | θ | Vir | 65790 | 5081 | 71 | Vir | 67472 | 5193 | μ | Cen |
| 62896 | 4889 | n | Cen | 64320 | 4965 | V824 | Cen | 66121 | 5082 | S | Cha | 67472 | 5193 | μ | Cen |
| 62931 | 4890 | κ | Cru | 64217 | 4967 | 15 | CVn | 66753 | 5084 | κ | Oct | 67494 | 5196 | 89 | Vir |
| 62875 | 4891 | 38 | Vir | 64241 | 4968 | 42 | Com | 65892 | 5088 | 72 | Vir | 67410 | 5199 | R | CVn |
| 62886 | 4894 | 35 | Com | 64241 | 4968 | α | Com | 65936 | 5089 | d | Cen | 67459 | 5200 | u | Boo |
| 62986 | 4895 | S | Cru | 64241 | 4969 | 42 | Com | 66015 | 5094 | 73 | Vir | 67459 | 5200 | 5 | Boo |
| 63007 | 4897 | λ | Cru | 64241 | 4969 | α | Com | 66015 | 5094 | HX | Vir | 67480 | 5201 | e | Boo |
| 63007 | 4897 | λ | Cru | 64246 | 4971 | 17 | CVn | 66006 | 5095 | l | Vir | 67480 | 5201 | 6 | Boo |
| 63003 | 4898 | μ^1 | Cru | 64425 | 4975 | V831 | Cen | 66006 | 5095 | 74 | Vir | 67669 | 5210 | V983 | Cen |
| 63005 | 4899 | μ^2 | Cru | 64407 | 4981 | 53 | Vir | 66091 | 5099 | 75 | Vir | 67669 | 5210 | 3 | Cen |
| 63005 | 4899 | μ^2 | Cru | 64394 | 4983 | β | Com | 66098 | 5100 | 76 | Vir | 67669 | 5211 | V983 | Cen |
| 62933 | 4900 | 41 | Vir | 64394 | 4983 | 43 | Com | 66098 | 5100 | h | Vir | 67669 | 5211 | 3 | Cen |
| 62985 | 4902 | ψ | Vir | 64520 | 4990 | 54 | Vir | 66100 | 5101 | S | Vir | 67665 | 5219 | AW | CVn |
| 62985 | 4902 | 40 | Vir | 64520 | 4990 | LM | Vir | 66200 | 5105 | 78 | Vir | 67786 | 5221 | h | Cen |
| 62985 | 4902 | ψ | Vir | 64661 | 4993 | η | μ s | 66200 | 5105 | o | Vir | 67786 | 5221 | 4 | Cen |
| 62956 | 4905 | ϵ | UMa | 64661 | 4993 | η | μ s | 66200 | 5105 | CW | Vir | 67819 | 5222 | y | Cen |
| 62956 | 4905 | ϵ | UMa | 64577 | 4995 | 55 | Vir | 66249 | 5107 | ζ | Vir | 67861 | 5223 | V767 | Cen |
| 62956 | 4905 | 77 | UMa | 64607 | 4998 | LN | Vir | 66249 | 5107 | 79 | Vir | 67787 | 5225 | 7 | Boo |
| 63024 | 4909 | TU | CVn | 64725 | 5001 | 57 | Vir | 66198 | 5109 | 81 | UMa | 67627 | 5226 | i | Dra |
| 63090 | 4910 | δ | Vir | 64692 | 5004 | 19 | CVn | 66257 | 5110 | BH | CVn | 67627 | 5226 | 10 | Dra |
| 63090 | 4910 | 43 | Vir | 64769 | 5005 | DK | Vir | 66320 | 5111 | 80 | Vir | 67627 | 5226 | CU | Dra |
| 63159 | 4912 | LN | Hya | 64803 | 5006 | r | Cen | 66234 | 5112 | 24 | CVn | 68002 | 5231 | ζ | Cen |

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| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 67929 | 5232 | p Vir | 69701 | 5338 | 99 Vir | 71683 | 5459 | α^1 Cen | 72487 | 5533 | 38 Boo |
| 67929 | 5232 | 90 Vir | 69701 | 5338 | i Vir | 71681 | 5460 | α^2 Cen | 72631 | 5535 | 11 Lib |
| 67927 | 5235 | η Boo | 70638 | 5339 | δ Oct | 71908 | 5463 | α Cir | 72524 | 5538 | 39 Boo |
| 67927 | 5235 | 8 Boo | 69673 | 5340 | 16 Boo | 71908 | 5463 | α Cir | 72965 | 5539 | ζ Cir |
| 67848 | 5238 | 86 UMa | 69673 | 5340 | α Boo | 71618 | 5468 | 33 Boo | 73223 | 5540 | R Aps |
| 68092 | 5244 | 92 Vir | 69713 | 5350 | 21 Boo | 71860 | 5469 | α Lup | 72800 | 5543 | V101 Cen |
| 68103 | 5247 | 9 Boo | 69713 | 5350 | i Boo | 71860 | 5469 | α Lup | 72659 | 5544 | ξ Boo |
| 68245 | 5248 | φ Cen | 69713 | 5350 | i Boo | 72370 | 5470 | α Aps | 72659 | 5544 | 37 Boo |
| 68282 | 5249 | υ^1 Cen | 69732 | 5351 | 19 Boo | 71762 | 5475 | 29 Boo | 72659 | 5544 | ξ Boo |
| 68269 | 5250 | 47 Hya | 69732 | 5351 | λ Boo | 71762 | 5475 | π^2 Boo | 73771 | 5545 | π^2 Oct |
| 68276 | 5255 | 10 Boo | 69829 | 5352 | CY Boo | 71762 | 5475 | π^1 Boo | 72929 | 5548 | 12 Lib |
| 68390 | 5257 | 48 Hya | 69996 | 5354 | i Lup | 71762 | 5476 | 29 Boo | 73129 | 5551 | θ Cir |
| 68523 | 5260 | υ^2 Cen | 69929 | 5355 | CS Vir | 71762 | 5476 | π^2 Boo | 73129 | 5551 | θ Cir |
| 68815 | 5261 | θ Aps | 70069 | 5358 | v Cen | 71762 | 5476 | π^1 Boo | 72848 | 5553 | DE Boo |
| 68815 | 5261 | θ Aps | 69974 | 5359 | 100 Vir | 71795 | 5477 | ζ Boo | 72934 | 5554 | ξ^1 Lib |
| 68478 | 5263 | 11 Boo | 69974 | 5359 | λ Vir | 71795 | 5477 | 30 Boo | 72934 | 5554 | 13 Lib |
| 68520 | 5264 | τ Vir | 69879 | 5361 | A Boo | 71795 | 5478 | ζ Boo | 73095 | 5556 | c Lup |
| 68520 | 5264 | 93 Vir | 69989 | 5365 | 18 Boo | 71795 | 5478 | 30 Boo | 74296 | 5557 | ω Oct |
| 68702 | 5267 | β Cen | 70012 | 5366 | υ Vir | 71832 | 5480 | 31 Boo | 72607 | 5563 | β UMi |
| 68702 | 5267 | β Cen | 70012 | 5366 | 102 Vir | 71837 | 5481 | 32 Boo | 72607 | 5563 | 7 UMi |
| 68673 | 5269 | V828 Cen | 70090 | 5367 | ψ Cen | 71974 | 5484 | 4 Lib | 73133 | 5564 | 15 Lib |
| 68842 | 5278 | V992 Cen | 70027 | 5370 | 20 Boo | 72010 | 5485 | c^1 Cen | 73133 | 5564 | ξ^2 Lib |
| 68862 | 5285 | x Cen | 70270 | 5375 | HX Lup | 71957 | 5487 | μ Vir | 73165 | 5570 | 16 Lib |
| 68862 | 5285 | x Cen | 70300 | 5378 | V761 Cen | 71957 | 5487 | 107 Vir | 73273 | 5571 | β Lup |
| 68895 | 5287 | π Hya | 70300 | 5378 | a Cen | 72121 | 5488 | BU Cir | 73334 | 5576 | κ Cen |
| 68895 | 5287 | 49 Hya | 70306 | 5381 | 51 Hya | 72104 | 5489 | c^2 Cen | 73284 | 5577 | 59 Hya |
| 68933 | 5288 | 5 Cen | 70306 | 5381 | k Hya | 71995 | 5490 | W Boo | 73249 | 5578 | 17 Lib |
| 68933 | 5288 | θ Cen | 70336 | 5383 | 2 Lib | 71995 | 5490 | 34 Boo | 73310 | 5582 | 18 Lib |
| 68940 | 5290 | 95 Vir | 70574 | 5395 | τ^1 Lup | 75736 | 5491 | BP Oct | 73473 | 5586 | δ Lib |
| 68756 | 5291 | α Dra | 70574 | 5395 | τ^1 Lup | 71876 | 5492 | DL Dra | 73473 | 5586 | 19 Lib |
| 68756 | 5291 | 11 Dra | 70576 | 5396 | τ^2 Lup | 72290 | 5495 | b Lup | 73473 | 5586 | δ Lib |
| 69122 | 5292 | V883 Cen | 70497 | 5404 | θ Boo | 72197 | 5497 | 54 Hya | 73369 | 5588 | 40 Boo |
| 69174 | 5296 | V869 Cen | 70497 | 5404 | 23 Boo | 72197 | 5497 | m Hya | 73199 | 5589 | RR UMi |
| 69127 | 5298 | 96 Vir | 70602 | 5405 | 22 Boo | 72438 | 5500 | CO Cir | 73566 | 5591 | 60 Hya |
| 69038 | 5299 | BY Boo | 70602 | 5405 | f Boo | 72154 | 5501 | 108 Vir | 73776 | 5593 | η Cir |
| 69068 | 5300 | CF Boo | 70680 | 5406 | 104 Vir | 72125 | 5502 | o Boo | 73454 | 5597 | BX Boo |
| 69068 | 5300 | 13 Boo | 70753 | 5407 | 52 Hya | 72125 | 5502 | 35 Boo | 73568 | 5600 | ω Boo |
| 69269 | 5301 | ET Vir | 70753 | 5407 | 1 Hya | 72194 | 5503 | 5 Lib | 73568 | 5600 | 41 Boo |
| 69896 | 5303 | η Aps | 70755 | 5409 | 105 Vir | 72105 | 5505 | 36 Boo | 73620 | 5601 | 110 Vir |
| 69226 | 5304 | 12 Boo | 70755 | 5409 | φ Vir | 72105 | 5505 | ϵ Boo | 73555 | 5602 | β Boo |
| 69226 | 5304 | d Boo | 70794 | 5410 | 106 Vir | 72105 | 5506 | 36 Boo | 73555 | 5602 | 42 Boo |
| 68956 | 5305 | 3 UMi | 70791 | 5420 | g Boo | 72105 | 5506 | ϵ Boo | 73714 | 5603 | γ Sco |
| 69491 | 5311 | V716 Cen | 70791 | 5420 | 24 Boo | 72220 | 5511 | 109 Vir | 73714 | 5603 | σ Lib |
| 69415 | 5312 | 50 Hya | 71116 | 5421 | V Cen | 72208 | 5512 | EK Boo | 73714 | 5603 | 20 Lib |
| 69389 | 5313 | CU Vir | 71121 | 5425 | σ Lup | 72323 | 5514 | 55 Hya | 73714 | 5603 | σ Lib |
| 69427 | 5315 | κ Vir | 71121 | 5425 | σ Lup | 72357 | 5516 | 56 Hya | 73764 | 5604 | GM Lup |
| 69427 | 5315 | 98 Vir | 71053 | 5429 | ρ Boo | 72378 | 5517 | 57 Hya | 73807 | 5605 | π Lup |
| 69618 | 5316 | V795 Cen | 71053 | 5429 | 25 Boo | 72432 | 5519 | V768 Cen | 73807 | 5606 | π Lup |
| 69112 | 5321 | 4 UMi | 70692 | 5430 | 5 UMi | 72489 | 5523 | μ Lib | 73745 | 5616 | ψ Boo |
| 69536 | 5323 | 14 Boo | 71115 | 5434 | 26 Boo | 72489 | 5523 | 7 Lib | 73745 | 5616 | 43 Boo |
| 69754 | 5326 | R Cen | 71075 | 5435 | γ Boo | 73540 | 5525 | π^1 Oct | 73695 | 5618 | 44 Boo |
| 69481 | 5328 | 17 Boo | 71075 | 5435 | 27 Boo | 72571 | 5526 | 58 Hya | 73695 | 5618 | i Boo |
| 69481 | 5328 | κ^1 Boo | 71075 | 5435 | γ Boo | 72571 | 5526 | E Hya | 73695 | 5618 | i Boo |
| 69483 | 5329 | κ^2 Boo | 71040 | 5437 | ER Dra | 72773 | 5527 | AX Cir | 73937 | 5619 | HZ Lup |
| 69483 | 5329 | 17 Boo | 71352 | 5440 | η Cen | 72683 | 5528 | o Lup | 73945 | 5622 | 21 Lib |
| 69483 | 5329 | κ^2 Boo | 71168 | 5441 | CP Boo | 72603 | 5530 | α^1 Lib | 73945 | 5622 | v Lib |
| 69612 | 5330 | 15 Boo | 71284 | 5447 | σ Boo | 72603 | 5530 | 8 Lib | 74066 | 5624 | HR Lup |
| 69614 | 5331 | FS Vir | 71284 | 5447 | 28 Boo | 72622 | 5531 | 9 Lib | 74117 | 5626 | λ Lup |
| 70248 | 5336 | ϵ Aps | 71280 | 5452 | CH Boo | 72622 | 5531 | α^2 Lib | 73841 | 5627 | 47 Boo |
| 70248 | 5336 | ϵ Aps | 71536 | 5453 | ρ Lup | 72487 | 5533 | h Boo | 73841 | 5627 | k Boo |

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| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 73996 | 5634 | 45 Boo | 75312 | 5727 | η CrB | 76337 | 5795 | 15 Ser | 77336 | 5870 | υ Ser |
| 73996 | 5634 | c Boo | 75312 | 5727 | 2 CrB | 76552 | 5797 | ω Lup | 77645 | 5873 | V360 Nor |
| 74087 | 5638 | 46 Boo | 75312 | 5728 | η CrB | 76427 | 5799 | 14 Ser | 77450 | 5879 | 35 Ser |
| 74087 | 5638 | b Boo | 75312 | 5728 | 2 CrB | 76307 | 5800 | μ CrB | 77450 | 5879 | κ Ser |
| 74582 | 5644 | X TrA | 76996 | 5729 | ρ Oct | 76307 | 5800 | 6 CrB | 77442 | 5880 | R CrB |
| 74376 | 5646 | κ^1 Lup | 76013 | 5730 | κ^1 Aps | 76425 | 5802 | 16 Ser | 77516 | 5881 | μ Ser |
| 74380 | 5647 | κ^2 Lup | 76013 | 5730 | μ^1 Aps | 76424 | 5804 | τ^5 Ser | 77516 | 5881 | 32 Ser |
| 74395 | 5649 | ζ Lup | 75411 | 5733 | μ^1 Boo | 76424 | 5804 | 18 Ser | 77634 | 5883 | x Lup |
| 74449 | 5651 | e Lup | 75411 | 5733 | 51 Boo | 76600 | 5812 | τ Lib | 77634 | 5883 | 5 Lup |
| 74392 | 5652 | ι^1 Lib | 75415 | 5734 | μ^2 Boo | 76600 | 5812 | 40 Lib | 77635 | 5885 | 1 Sco |
| 74392 | 5652 | 24 Lib | 75415 | 5734 | 51 Boo | 76628 | 5814 | 41 Lib | 77635 | 5885 | b Sco |
| 74386 | 5654 | FL Ser | 75097 | 5735 | γ UMi | 76705 | 5820 | 3 Lup | 77578 | 5888 | ω Ser |
| 74493 | 5656 | ι^2 Lib | 75530 | 5739 | 9 Ser | 76705 | 5820 | ψ^1 Lup | 77578 | 5888 | 34 Ser |
| 74493 | 5656 | 25 Lib | 75530 | 5739 | τ^1 Ser | 76534 | 5823 | 54 Boo | 77512 | 5889 | 10 CrB |
| 74500 | 5657 | 23 Lib | 75730 | 5743 | 32 Lib | 76534 | 5823 | ϕ Boo | 77512 | 5889 | δ CrB |
| 74604 | 5660 | 1 Lup | 75730 | 5743 | ζ^1 Lib | 76742 | 5824 | 42 Lib | 77512 | 5889 | δ CrB |
| 74604 | 5660 | i Lup | 75458 | 5744 | ι Dra | 76829 | 5825 | g Lup | 77982 | 5891 | κ TrA |
| 74600 | 5662 | 26 Lib | 75458 | 5744 | 12 Dra | 76008 | 5826 | 15 UMi | 77622 | 5892 | ϵ Ser |
| 74778 | 5664 | δ Cir | 75761 | 5746 | 10 Ser | 76008 | 5826 | θ UMi | 77622 | 5892 | 37 Ser |
| 74778 | 5664 | δ Cir | 75695 | 5747 | 3 CrB | 76669 | 5833 | ζ^1 CrB | 77615 | 5894 | R Ser |
| 74837 | 5666 | ϵ Cir | 75695 | 5747 | β CrB | 76669 | 5833 | 7 CrB | 77660 | 5895 | 36 Ser |
| 74824 | 5670 | β Cir | 75695 | 5747 | β CrB | 76669 | 5833 | ζ^2 CrB | 77660 | 5895 | b Ser |
| 74946 | 5671 | γ TrA | 75944 | 5750 | ζ^3 Lib | 76669 | 5834 | ζ^1 CrB | 77952 | 5897 | β TrA |
| 74649 | 5675 | 3 Ser | 75944 | 5750 | 34 Lib | 76669 | 5834 | 7 CrB | 77661 | 5899 | ρ Ser |
| 74596 | 5676 | x Boo | 75973 | 5763 | 52 Boo | 76669 | 5834 | ζ^2 CrB | 77655 | 5901 | 11 CrB |
| 74596 | 5676 | 48 Boo | 75973 | 5763 | ν^1 Boo | 76939 | 5837 | h Lup | 77655 | 5901 | κ CrB |
| 74689 | 5679 | 4 Ser | 76126 | 5764 | 35 Lib | 76880 | 5838 | 43 Lib | 77811 | 5902 | 45 Lib |
| 74666 | 5681 | 49 Boo | 76126 | 5764 | ζ^4 Lib | 76880 | 5838 | κ Lib | 77811 | 5902 | λ Lib |
| 74666 | 5681 | δ Boo | 76126 | 5764 | ζ Lib | 76945 | 5839 | 4 Lup | 77055 | 5903 | 16 UMi |
| 74911 | 5683 | μ Lup | 76069 | 5770 | 12 Ser | 76945 | 5839 | ψ^2 Lup | 77055 | 5903 | ζ UMi |
| 74785 | 5685 | β Lib | 76069 | 5770 | τ^2 Ser | 76810 | 5840 | 19 Ser | 77840 | 5904 | 2 Sco |
| 74785 | 5685 | 27 Lib | 76440 | 5771 | ϵ TrA | 76810 | 5840 | τ^6 Ser | 77859 | 5907 | V104 Sco |
| 74857 | 5686 | 2 Lup | 76133 | 5772 | 11 Ser | 76852 | 5842 | ι Ser | 77853 | 5908 | 46 Lib |
| 74857 | 5686 | f Lup | 76041 | 5774 | 53 Boo | 76852 | 5842 | 21 Ser | 77853 | 5908 | θ Lib |
| 74950 | 5687 | GG Lup | 76041 | 5774 | ν^2 Boo | 76866 | 5843 | x Ser | 77801 | 5911 | 39 Ser |
| 74975 | 5694 | MQ Ser | 76259 | 5775 | 36 Lib | 76866 | 5843 | 20 Ser | 77909 | 5912 | V927 Sco |
| 74975 | 5694 | 5 Ser | 76297 | 5776 | γ Lup | 76866 | 5843 | x Ser | 77909 | 5912 | 3 Sco |
| 75141 | 5695 | δ Lup | 76297 | 5776 | γ Lup | 76878 | 5845 | 22 Ser | 77760 | 5914 | x Her |
| 75206 | 5698 | ν^1 Lup | 76219 | 5777 | 37 Lib | 76878 | 5845 | τ^7 Ser | 77760 | 5914 | 1 Her |
| 75181 | 5699 | ν^2 Lup | 76127 | 5778 | θ CrB | 77060 | 5848 | 44 Lib | 77939 | 5915 | 47 Lib |
| 75110 | 5701 | 28 Lib | 76127 | 5778 | 4 CrB | 77060 | 5848 | η Lib | 77984 | 5917 | 4 Sco |
| 75118 | 5703 | o Lib | 76127 | 5778 | θ CrB | 76952 | 5849 | γ CrB | 77910 | 5919 | FP Ser |
| 75118 | 5703 | 29 Lib | 76243 | 5780 | IU Lib | 76952 | 5849 | 8 CrB | 77910 | 5919 | 40 Ser |
| 75323 | 5704 | γ Cir | 76371 | 5781 | d Lup | 76952 | 5849 | γ CrB | 78105 | 5925 | ξ^1 Lup |
| 75323 | 5704 | γ Cir | 76371 | 5781 | KT Lup | 77052 | 5853 | 23 Ser | 78106 | 5926 | ξ^2 Lup |
| 75177 | 5705 | ϕ^1 Lup | 76750 | 5782 | κ^2 Aps | 77052 | 5853 | ψ Ser | 78104 | 5928 | 5 Sco |
| 75264 | 5708 | ϵ Lup | 76333 | 5787 | 38 Lib | 77070 | 5854 | α Ser | 78104 | 5928 | ρ Sco |
| 75049 | 5709 | 1 CrB | 76333 | 5787 | γ Lib | 77070 | 5854 | 24 Ser | 77907 | 5932 | 2 Her |
| 75049 | 5709 | o CrB | 76276 | 5788 | δ Ser | 77048 | 5855 | 9 CrB | 78072 | 5933 | 41 Ser |
| 75119 | 5710 | 6 Ser | 76276 | 5788 | δ Ser | 77048 | 5855 | π CrB | 78072 | 5933 | γ Ser |
| 75304 | 5712 | ϕ^2 Lup | 76276 | 5788 | 13 Ser | 76957 | 5857 | BP Boo | 78012 | 5936 | 12 CrB |
| 74793 | 5714 | 11 UMi | 76276 | 5789 | δ Ser | 77111 | 5858 | 26 Ser | 78012 | 5936 | λ CrB |
| 75230 | 5717 | 7 Ser | 76276 | 5789 | δ Ser | 77111 | 5858 | τ^8 Ser | 77986 | 5938 | 4 Her |
| 75178 | 5718 | 50 Boo | 76276 | 5789 | 13 Ser | 77227 | 5863 | 25 Ser | 77986 | 5938 | V839 Her |
| 75439 | 5719 | υ Lup | 76267 | 5793 | α CrB | 77227 | 5863 | PT Ser | 78476 | 5939 | S TrA |
| 75342 | 5721 | 8 Ser | 76267 | 5793 | α CrB | 77233 | 5867 | β Ser | 78132 | 5940 | ϕ Ser |
| 75379 | 5723 | ϵ Lib | 76267 | 5793 | 5 CrB | 77233 | 5867 | 28 Ser | 78207 | 5941 | 48 Lib |
| 75379 | 5723 | 31 Lib | 76470 | 5794 | υ Lib | 77257 | 5868 | λ Ser | 78207 | 5941 | FX Lib |
| 75501 | 5724 | k Lup | 76470 | 5794 | 39 Lib | 77257 | 5868 | 27 Ser | 78246 | 5942 | V913 Sco |
| 75665 | 5725 | LX TrA | 76337 | 5795 | τ^3 Ser | 77336 | 5870 | 31 Ser | 78265 | 5944 | π Sco |

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| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 78265 | 5944 | π Sco | 79374 | 6027 | ν Sco | 80197 | 6107 | 20 CrB | 81305 | 6164 | V918 Sco |
| 78265 | 5944 | 6 Sco | 79374 | 6027 | 14 Sco | 80197 | 6107 | ν^1 CrB | 81266 | 6165 | τ Sco |
| 78159 | 5947 | ϵ CrB | 79404 | 6028 | 13 Sco | 80214 | 6108 | 21 CrB | 81266 | 6165 | 23 Sco |
| 78159 | 5947 | 13 CrB | 79404 | 6028 | c^2 Sco | 80214 | 6108 | ν^2 CrB | 81126 | 6168 | 35 Her |
| 78384 | 5948 | η Lup | 79399 | 6029 | c^1 Sco | 80645 | 6109 | ι TrA | 81126 | 6168 | σ Her |
| 78401 | 5953 | 7 Sco | 79399 | 6029 | 12 Sco | 80351 | 6111 | 21 Her | 81300 | 6171 | 12 Oph |
| 78401 | 5953 | δ Sco | 79664 | 6030 | δ TrA | 80351 | 6111 | \omicron Her | 81300 | 6171 | V213 Oph |
| 78400 | 5954 | 49 Lib | 79375 | 6031 | ψ Sco | 80473 | 6112 | 5 Oph | 81710 | 6172 | η^1 TrA |
| 78322 | 5958 | T CrB | 79375 | 6031 | 15 Sco | 80473 | 6112 | ρ Oph | 81472 | 6174 | V100 Sco |
| 78436 | 5959 | 50 Lib | 79387 | 6033 | 16 Sco | 80473 | 6113 | 5 Oph | 81377 | 6175 | ζ Oph |
| 78180 | 5960 | CL Dra | 79332 | 6035 | q Her | 80473 | 6113 | ρ Oph | 81377 | 6175 | ζ Oph |
| 78662 | 5961 | ι^1 Nor | 79349 | 6039 | LQ Her | 80582 | 6115 | ϵ Nor | 81377 | 6175 | 13 Oph |
| 78639 | 5962 | η Nor | 79349 | 6039 | 10 Her | 79822 | 6116 | η UMi | 81337 | 6176 | V773 Her |
| 78481 | 5966 | 5 Her | 79530 | 6042 | V105 Sco | 79822 | 6116 | 21 UMi | 81290 | 6184 | 16 Dra |
| 78481 | 5966 | r Her | 79653 | 6045 | θ Nor | 80463 | 6117 | 24 Her | 81292 | 6185 | 17 Dra |
| 78459 | 5968 | 15 CrB | 79488 | 6047 | 9 Her | 80463 | 6117 | ω Her | 81292 | 6186 | 17 Dra |
| 78459 | 5968 | ρ CrB | 79540 | 6048 | x Sco | 80463 | 6117 | ω Her | 81634 | 6194 | 36 Her |
| 78493 | 5971 | ι CrB | 79540 | 6048 | 17 Sco | 80569 | 6118 | x Oph | 81641 | 6195 | 37 Her |
| 78493 | 5971 | 14 CrB | 79754 | 6055 | V368 Nor | 80569 | 6118 | x Oph | 81497 | 6200 | 42 Her |
| 78554 | 5972 | π Ser | 79593 | 6056 | δ Oph | 80569 | 6118 | 7 Oph | 82129 | 6204 | LP TrA |
| 78554 | 5972 | 44 Ser | 79593 | 6056 | 1 Oph | 80488 | 6119 | U Her | 81734 | 6205 | 14 Oph |
| 78685 | 5976 | 43 Ser | 79790 | 6058 | γ^1 Nor | 80788 | 6120 | V378 Nor | 81693 | 6212 | 40 Her |
| 78727 | 5977 | ξ Sco | 79672 | 6060 | 18 Sco | 80460 | 6123 | 25 Her | 81693 | 6212 | ζ Her |
| 78727 | 5978 | ξ Sco | 79932 | 6062 | S Nor | 80375 | 6127 | DQ Dra | 81729 | 6213 | 39 Her |
| 78914 | 5980 | δ Nor | 79607 | 6063 | TZ CrB | 80620 | 6128 | V210 Oph | 82273 | 6217 | α TrA |
| 78592 | 5982 | υ Her | 79607 | 6063 | σ CrB | 80628 | 6129 | 3 Oph | 81833 | 6220 | 44 Her |
| 78592 | 5982 | 6 Her | 79607 | 6063 | 17 CrB | 80628 | 6129 | υ Oph | 81833 | 6220 | η Her |
| 78820 | 5984 | 8 Sco | 79607 | 6064 | TZ CrB | 80782 | 6131 | QU Nor | 81660 | 6223 | g Dra |
| 78820 | 5984 | β^1 Sco | 79607 | 6064 | σ CrB | 80331 | 6132 | η Dra | 81660 | 6223 | 18 Dra |
| 78821 | 5985 | 8 Sco | 79607 | 6064 | 17 CrB | 80331 | 6132 | 14 Dra | 82037 | 6224 | 16 Oph |
| 78821 | 5985 | β^2 Sco | 79666 | 6065 | 16 Her | 80763 | 6134 | α Sco | 82140 | 6225 | 25 Sco |
| 78527 | 5986 | 13 Dra | 79881 | 6070 | d Sco | 80763 | 6134 | 21 Sco | 82073 | 6228 | i Her |
| 78527 | 5986 | θ Dra | 79963 | 6071 | λ Nor | 80763 | 6134 | α Sco | 82073 | 6228 | 43 Her |
| 78918 | 5987 | θ Lup | 80000 | 6072 | γ^2 Nor | 83255 | 6139 | CW Oct | 82363 | 6229 | η Ara |
| 78877 | 5988 | V929 Sco | 79757 | 6074 | υ CrB | 80815 | 6141 | i Sco | 82162 | 6232 | 19 Oph |
| 78933 | 5993 | 9 Sco | 79757 | 6074 | 18 CrB | 80815 | 6141 | 22 Sco | 82216 | 6234 | 1 Her |
| 78933 | 5993 | ω^1 Sco | 79882 | 6075 | ϵ Oph | 80945 | 6142 | V105 Sco | 82216 | 6234 | V776 Her |
| 79153 | 5994 | ι^2 Nor | 79882 | 6075 | 2 Oph | 80704 | 6146 | 30 Her | 82216 | 6234 | 45 Her |
| 78990 | 5997 | ω^2 Sco | 79280 | 6079 | 19 UMi | 80704 | 6146 | g Her | 82339 | 6240 | V101 Oph |
| 78990 | 5997 | 10 Sco | 80079 | 6081 | \omicron Sco | 80704 | 6146 | g Her | 82396 | 6241 | ϵ Sco |
| 79080 | 5999 | V856 Sco | 80079 | 6081 | 19 Sco | 80894 | 6147 | ϕ Oph | 82396 | 6241 | 26 Sco |
| 79005 | 6002 | 11 Sco | 79420 | 6082 | 20 UMi | 80894 | 6147 | 8 Oph | 82172 | 6242 | V636 Her |
| 79007 | 6004 | 45 Ser | 80112 | 6084 | σ Sco | 80816 | 6148 | 27 Her | 82369 | 6243 | 20 Oph |
| 79043 | 6008 | 7 Her | 80112 | 6084 | 20 Sco | 80816 | 6148 | β Her | 82493 | 6245 | V973 Sco |
| 79043 | 6008 | κ Her | 80112 | 6084 | σ Sco | 80883 | 6149 | 10 Oph | 82514 | 6247 | μ^1 Sco |
| 79045 | 6009 | 7 Her | 79804 | 6086 | AT Dra | 80883 | 6149 | λ Oph | 82514 | 6247 | μ^1 Sco |
| 79072 | 6010 | 47 Ser | 79992 | 6092 | 22 Her | 81252 | 6151 | θ TrA | 82543 | 6249 | V919 Sco |
| 79072 | 6010 | FS Ser | 79992 | 6092 | τ Her | 80843 | 6152 | s Her | 82402 | 6250 | 47 Her |
| 79102 | 6013 | 8 Her | 79992 | 6092 | τ Her | 80975 | 6153 | ω Oph | 82402 | 6250 | k Her |
| 79119 | 6018 | 16 CrB | 80179 | 6093 | 50 Ser | 80975 | 6153 | ω Oph | 82545 | 6252 | μ^2 Sco |
| 79119 | 6018 | τ CrB | 80179 | 6093 | σ Ser | 80975 | 6153 | 9 Oph | 82321 | 6254 | 52 Her |
| 79497 | 6019 | ζ Nor | 80170 | 6095 | 20 Her | 81122 | 6155 | μ Nor | 82321 | 6254 | V637 Her |
| 80047 | 6020 | δ^1 Aps | 80170 | 6095 | γ Her | 81122 | 6155 | μ Nor | 82480 | 6255 | 21 Oph |
| 80047 | 6020 | δ^1 Aps | 80170 | 6095 | γ Her | 80809 | 6156 | 34 Her | 82650 | 6257 | V106 Sco |
| 80057 | 6021 | δ^2 Aps | 80686 | 6098 | ζ TrA | 81007 | 6158 | 28 Her | 82422 | 6258 | 50 Her |
| 79490 | 6022 | V367 Nor | 81065 | 6102 | γ Aps | 81007 | 6158 | n Her | 82669 | 6261 | V900 Sco |
| 79101 | 6023 | ϕ Her | 80181 | 6103 | 19 CrB | 81008 | 6159 | h Her | 82671 | 6262 | ζ^1 Sco |
| 79101 | 6023 | ϕ Her | 80181 | 6103 | ξ CrB | 81008 | 6159 | 29 Her | 82671 | 6262 | ζ^1 Sco |
| 79101 | 6023 | 11 Her | 80343 | 6104 | ψ Oph | 80650 | 6161 | 15 Dra | 82526 | 6268 | 49 Her |
| 79509 | 6024 | κ Nor | 80343 | 6104 | 4 Oph | 81852 | 6163 | β Aps | 82526 | 6268 | V823 Her |

Número de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 82504 | 6270 | 51 Her | 84401 | 6397 | V107 Sco | 85340 | 6486 | 44 Oph | 86414 | 6588 | 85 Her |
| 82729 | 6271 | ζ ² Sco | 84405 | 6401 | 36 Oph | 85423 | 6492 | d Oph | 86414 | 6588 | ι Her |
| 82868 | 6274 | V846 Ara | 84405 | 6402 | 36 Oph | 85423 | 6492 | 45 Oph | 86736 | 6595 | 58 Oph |
| 83150 | 6276 | MX TrA | 84345 | 6406 | 64 Her | 85302 | 6495 | V640 Her | 86201 | 6596 | ω Dra |
| 82587 | 6279 | 53 Her | 84345 | 6406 | α ¹ Her | 85355 | 6498 | 49 Oph | 86201 | 6596 | 28 Dra |
| 82730 | 6280 | 23 Oph | 84345 | 6406 | α Her | 85355 | 6498 | σ Oph | 86667 | 6602 | 83 Her |
| 82673 | 6281 | ι Oph | 84345 | 6406 | α ² Her | 85727 | 6500 | δ Ara | 86742 | 6603 | 60 Oph |
| 82673 | 6281 | 25 Oph | 84345 | 6407 | 64 Her | 85751 | 6505 | V862 Ara | 86742 | 6603 | β Oph |
| 82911 | 6283 | V861 Sco | 84345 | 6407 | α ¹ Her | 85696 | 6508 | 34 Sco | 86731 | 6608 | 84 Her |
| 83081 | 6285 | ζ Ara | 84345 | 6407 | α Her | 85696 | 6508 | υ Sco | 86831 | 6609 | 61 Oph |
| 82960 | 6288 | 27 Sco | 84345 | 6407 | α ² Her | 85379 | 6509 | x Her | 86809 | 6611 | V624 Her |
| 82798 | 6290 | V644 Her | 84379 | 6410 | 65 Her | 85379 | 6509 | 77 Her | 87073 | 6615 | ι Sco |
| 82925 | 6291 | 24 Oph | 84379 | 6410 | δ Her | 85792 | 6510 | α Ara | 87072 | 6616 | X Sgr |
| 82780 | 6292 | 56 Her | 84979 | 6411 | ι Aps | 85792 | 6510 | α Ara | 87072 | 6616 | 3 Sgr |
| 82802 | 6293 | 54 Her | 84479 | 6412 | V236 Oph | 85755 | 6519 | c Oph | 87163 | 6621 | V389 Sgr |
| 83153 | 6295 | ε ¹ Ara | 84500 | 6414 | U Oph | 85755 | 6519 | 51 Oph | 87314 | 6622 | V539 Ara |
| 83000 | 6299 | 27 Oph | 84514 | 6415 | 41 Oph | 85839 | 6522 | V949 Sco | 86974 | 6623 | μ Her |
| 83000 | 6299 | κ Oph | 84969 | 6417 | ζ Aps | 85693 | 6526 | 76 Her | 86974 | 6623 | 86 Her |
| 83000 | 6299 | κ Oph | 84380 | 6418 | 67 Her | 85693 | 6526 | λ Her | 86946 | 6626 | V826 Her |
| 83323 | 6304 | V828 Ara | 84380 | 6418 | π Her | 85927 | 6527 | λ Sco | 87108 | 6629 | 62 Oph |
| 82987 | 6305 | 57 Her | 84650 | 6422 | V107 Sco | 85927 | 6527 | λ Sco | 87108 | 6629 | γ Oph |
| 83196 | 6310 | 26 Oph | 84626 | 6424 | ο Oph | 85927 | 6527 | 35 Sco | 87294 | 6631 | ι Sco |
| 83431 | 6314 | ε ² Ara | 84626 | 6424 | 39 Oph | 85790 | 6533 | 78 Her | 86614 | 6636 | ψ ¹ Dra |
| 82860 | 6315 | h Dra | 84625 | 6425 | 39 Oph | 86011 | 6535 | V103 Sco | 86614 | 6636 | 31 Dra |
| 82860 | 6315 | 19 Dra | 84625 | 6425 | ο Oph | 85670 | 6536 | β Dra | 86620 | 6637 | ψ ¹ Dra |
| 83262 | 6318 | 30 Oph | 85760 | 6429 | NO Aps | 85670 | 6536 | 23 Dra | 86620 | 6637 | 31 Dra |
| 82898 | 6319 | 20 Dra | 84573 | 6431 | u Her | 86092 | 6537 | σ Ara | 87194 | 6644 | 87 Her |
| 83331 | 6321 | 29 Oph | 84573 | 6431 | u Her | 85934 | 6543 | V642 Her | 87460 | 6647 | V957 Sco |
| 82080 | 6322 | ε UMi | 84573 | 6431 | 68 Her | 86060 | 6545 | V212 Oph | 87212 | 6656 | 30 Dra |
| 82080 | 6322 | 22 UMi | 84671 | 6433 | e Oph | 86060 | 6545 | 52 Oph | 87495 | 6661 | Y Oph |
| 82080 | 6322 | ε UMi | 84704 | 6434 | V211 Oph | 85998 | 6548 | f Oph | 87616 | 6662 | V906 Sco |
| 83207 | 6324 | ε Her | 84606 | 6436 | e Her | 85998 | 6548 | 53 Oph | 87624 | 6663 | V951 Sco |
| 83207 | 6324 | 58 Her | 84606 | 6436 | 69 Her | 86305 | 6549 | π Ara | 87280 | 6664 | 88 Her |
| 83308 | 6326 | V451 Her | 84893 | 6445 | 40 Oph | 86228 | 6553 | θ Sco | 87280 | 6664 | V744 Her |
| 83491 | 6327 | V923 Sco | 84893 | 6445 | ξ Oph | 85819 | 6554 | 24 Dra | 87280 | 6664 | z Her |
| 83313 | 6332 | 59 Her | 84880 | 6446 | 53 Ser | 85819 | 6554 | v ¹ Dra | 87706 | 6672 | 63 Oph |
| 83313 | 6332 | d Her | 84880 | 6446 | v Ser | 85829 | 6555 | v ² Dra | 87655 | 6676 | V238 Oph |
| 83574 | 6334 | k Sco | 84496 | 6448 | VW Dra | 85829 | 6555 | 25 Dra | 87563 | 6677 | f Her |
| 83574 | 6334 | V107 Sco | 85020 | 6450 | V975 Sco | 86032 | 6556 | 55 Oph | 87563 | 6677 | 90 Her |
| 83462 | 6346 | V931 Her | 85079 | 6451 | ι Ara | 86032 | 6556 | α Oph | 87812 | 6684 | V205 Oph |
| 83462 | 6346 | 61 Her | 85079 | 6451 | ι Ara | 86263 | 6561 | ξ Ser | 87747 | 6685 | 89 Her |
| 83706 | 6347 | V107 Sco | 84833 | 6452 | V656 Her | 86263 | 6561 | 55 Ser | 87747 | 6685 | V441 Her |
| 83601 | 6349 | V221 Oph | 84970 | 6453 | θ Oph | 85805 | 6566 | 27 Dra | 87585 | 6688 | 32 Dra |
| 83613 | 6355 | 60 Her | 84970 | 6453 | θ Oph | 85805 | 6566 | f Dra | 87585 | 6688 | ξ Dra |
| 83608 | 6369 | 21 Dra | 84970 | 6453 | 42 Oph | 86284 | 6567 | μ Oph | 87808 | 6695 | θ Her |
| 83608 | 6369 | μ Dra | 84887 | 6457 | 70 Her | 86284 | 6567 | 57 Oph | 87808 | 6695 | 91 Her |
| 83608 | 6370 | 21 Dra | 84862 | 6458 | 72 Her | 86486 | 6569 | λ Ara | 88048 | 6698 | 64 Oph |
| 83608 | 6370 | μ Dra | 84862 | 6458 | w Her | 86254 | 6571 | 79 Her | 88048 | 6698 | v Oph |
| 84105 | 6374 | V854 Ara | 85084 | 6459 | 43 Oph | 86036 | 6573 | 26 Dra | 88116 | 6700 | 4 Sgr |
| 83838 | 6377 | c Her | 85258 | 6461 | β Ara | 86182 | 6574 | 82 Her | 87234 | 6701 | 35 Dra |
| 84012 | 6378 | η Oph | 85267 | 6462 | γ Ara | 86182 | 6574 | y Her | 87850 | 6702 | OP Her |
| 84012 | 6378 | 35 Oph | 84835 | 6464 | 74 Her | 86628 | 6576 | V626 Ara | 87933 | 6703 | ξ Her |
| 84143 | 6380 | η Sco | 85312 | 6468 | κ Ara | 86670 | 6580 | κ Sco | 87933 | 6703 | 92 Her |
| 84311 | 6384 | V829 Ara | 84949 | 6469 | V819 Her | 86670 | 6580 | κ Sco | 87933 | 6703 | ξ Her |
| 84054 | 6391 | V620 Her | 85157 | 6480 | 73 Her | 86565 | 6581 | ο Ser | 87833 | 6705 | 33 Dra |
| 84054 | 6391 | 63 Her | 85112 | 6484 | ρ Her | 86565 | 6581 | 56 Ser | 87833 | 6705 | γ Dra |
| 84332 | 6392 | V915 Sco | 85112 | 6484 | 75 Her | 86565 | 6581 | ο Ser | 87998 | 6707 | 94 Her |
| 84177 | 6393 | 37 Oph | 85112 | 6485 | ρ Her | 86929 | 6582 | η Pav | 87998 | 6707 | v Her |
| 83895 | 6396 | 22 Dra | 85112 | 6485 | 75 Her | 86796 | 6585 | μ Ara | 87998 | 6707 | v Her |
| 83895 | 6396 | ζ Dra | 85340 | 6486 | b Oph | 86414 | 6588 | ι Her | 88148 | 6709 | V212 Oph |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|----------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 88175 | 6710 | ζ Ser | 89341 | 6812 | 13 Sgr | 90830 | 6934 | δ ¹ Tel | 92175 | 7063 | β Sct |
| 88175 | 6710 | 57 Ser | 89172 | 6815 | 104 Her | 90642 | 6935 | c Ser | 92202 | 7066 | R Sct |
| 88149 | 6712 | 66 Oph | 89172 | 6815 | V669 Her | 90642 | 6935 | 60 Ser | 92382 | 7068 | η ² CrA |
| 88149 | 6712 | V204 Oph | 89369 | 6816 | 14 Sgr | 90853 | 6938 | δ ² Tel | 92161 | 7069 | 111 Her |
| 88128 | 6713 | 93 Her | 89605 | 6819 | QV Tel | 90344 | 6945 | 42 Dra | 92609 | 7074 | λ Pav |
| 88192 | 6714 | 67 Oph | 89439 | 6822 | 15 Sgr | 90836 | 6947 | U Sgr | 92609 | 7074 | λ Pav |
| 88258 | 6715 | 6 Sgr | 89440 | 6823 | 16 Sgr | 90982 | 6951 | θ CrA | 92390 | 7078 | 29 Sgr |
| 88030 | 6718 | V771 Her | 89470 | 6825 | V438 Sgr | 90968 | 6952 | κ ² CrA | 92133 | 7084 | CX Dra |
| 88172 | 6720 | V974 Her | 90133 | 6829 | φ Oct | 90969 | 6953 | κ ¹ CrA | 92646 | 7087 | κ Tel |
| 92824 | 6721 | x Oct | 89642 | 6832 | η Sgr | 90844 | 6957 | 61 Ser | 92480 | 7088 | 30 Sgr |
| 88290 | 6723 | 68 Oph | 89642 | 6832 | η Sgr | 90858 | 6958 | MV Ser | 92442 | 7089 | S Sct |
| 88380 | 6724 | 7 Sgr | 89637 | 6833 | RS Sgr | 90913 | 6959 | V450 Sct | 92398 | 7100 | v ¹ Lyr |
| 87728 | 6725 | 34 Dra | 89527 | 6834 | V239 Oph | 91004 | 6961 | 24 Sgr | 92398 | 7100 | 8 Lyr |
| 87728 | 6725 | ψ ² Dra | 89348 | 6850 | 36 Dra | 91066 | 6965 | 25 Sgr | 92524 | 7101 | 8 Aql |
| 88267 | 6729 | 95 Her | 90098 | 6855 | ξ Pav | 90971 | 6967 | V239 Oph | 92405 | 7102 | 9 Lyr |
| 88267 | 6730 | 95 Her | 89931 | 6859 | 19 Sgr | 91132 | 6969 | V419 Sgr | 92405 | 7102 | v ² Lyr |
| 88404 | 6733 | τ Oph | 89931 | 6859 | δ Sgr | 90970 | 6971 | V532 Lyr | 92405 | 7102 | v Lyr |
| 88404 | 6733 | 69 Oph | 89773 | 6860 | 105 Her | 91117 | 6973 | α Sct | 92649 | 7105 | V440 Sgr |
| 88404 | 6734 | τ Oph | 89980 | 6861 | V402 Sgr | 90905 | 6978 | d Dra | 92420 | 7106 | β Lyr |
| 88404 | 6734 | 69 Oph | 89968 | 6863 | Y Sgr | 90905 | 6978 | 45 Dra | 92420 | 7106 | β Lyr |
| 88469 | 6736 | 9 Sgr | 89448 | 6865 | 37 Dra | 91792 | 6982 | ζ Pav | 92420 | 7106 | 10 Lyr |
| 88331 | 6738 | V820 Her | 89918 | 6866 | 74 Oph | 91494 | 6991 | V718 CrA | 93015 | 7107 | κ Pav |
| 88331 | 6738 | 96 Her | 89861 | 6868 | 106 Her | 91322 | 6993 | e Ser | 93015 | 7107 | κ Pav |
| 88346 | 6741 | 97 Her | 89962 | 6869 | 58 Ser | 91262 | 7001 | 3 Lyr | 92593 | 7109 | V822 Her |
| 88567 | 6742 | γ ¹ Sgr | 89962 | 6869 | η Sgr | 91262 | 7001 | α Lyr | 92614 | 7113 | 112 Her |
| 88567 | 6742 | W Sgr | 90074 | 6870 | V405 Sgr | 91262 | 7001 | α Lyr | 92747 | 7114 | 33 Sgr |
| 88714 | 6743 | θ Ara | 89826 | 6872 | 1 Lyr | 91389 | 7002 | X Oph | 92761 | 7116 | v ¹ Sgr |
| 88866 | 6745 | π Pav | 89826 | 6872 | κ Lyr | 91250 | 7003 | V533 Lyr | 92761 | 7116 | 32 Sgr |
| 88635 | 6746 | 10 Sgr | 89977 | 6873 | NW Ser | 91373 | 7009 | XY Lyr | 92845 | 7120 | v ² Sgr |
| 88635 | 6746 | γ ² Sgr | 89925 | 6876 | 108 Her | 91689 | 7011 | 26 Sgr | 92845 | 7120 | 35 Sgr |
| 88635 | 6746 | γ Sgr | 89935 | 6877 | 107 Her | 91726 | 7020 | δ Sct | 92855 | 7121 | 34 Sgr |
| 88522 | 6747 | V986 Oph | 89935 | 6877 | t Her | 91726 | 7020 | δ Sct | 92855 | 7121 | σ Sgr |
| 88601 | 6752 | V239 Oph | 90185 | 6879 | 20 Sgr | 91875 | 7021 | λ CrA | 92112 | 7124 | 50 Dra |
| 88601 | 6752 | 70 Oph | 90185 | 6879 | ε Sgr | 91781 | 7023 | V387 Sgr | 92512 | 7125 | o Dra |
| 88528 | 6754 | V831 Her | 90135 | 6884 | ζ Sct | 91845 | 7032 | ε Sct | 92512 | 7125 | o Dra |
| 89042 | 6761 | ι Pav | 90260 | 6888 | 18 Sgr | 92294 | 7036 | θ Pav | 92512 | 7125 | 47 Dra |
| 88657 | 6765 | 98 Her | 90139 | 6895 | 109 Her | 92041 | 7039 | 27 Sgr | 93163 | 7127 | ω Pav |
| 88765 | 6770 | 71 Oph | 90289 | 6896 | 21 Sgr | 92041 | 7039 | φ Sgr | 92989 | 7129 | V686 CrA |
| 88771 | 6771 | 72 Oph | 90422 | 6897 | α Tel | 91975 | 7040 | 4 Aql | 92728 | 7131 | δ ¹ Lyr |
| 88905 | 6773 | V379 Sgr | 90313 | 6902 | V229 Oph | 92079 | 7045 | V440 Sgr | 92728 | 7131 | 11 Lyr |
| 88745 | 6775 | b Her | 90191 | 6903 | μ Lyr | 92111 | 7046 | 28 Sgr | 92818 | 7133 | 113 Her |
| 88745 | 6775 | 99 Her | 90191 | 6903 | 2 Lyr | 91755 | 7049 | c Dra | 93148 | 7134 | λ Tel |
| 88794 | 6779 | o Her | 90568 | 6905 | ζ Tel | 91755 | 7049 | 46 Dra | 92791 | 7139 | 12 Lyr |
| 88794 | 6779 | o Her | 90496 | 6913 | 22 Sgr | 92226 | 7050 | μ CrA | 92791 | 7139 | δ ² Lyr |
| 88794 | 6779 | 103 Her | 90496 | 6913 | λ Sgr | 91919 | 7051 | 4 Lyr | 92791 | 7139 | δ ² Lyr |
| 88818 | 6781 | 100 Her | 90797 | 6916 | v Pav | 91919 | 7051 | ε ¹ Lyr | 92946 | 7141 | θ ¹ Ser |
| 88817 | 6782 | 100 Her | 90797 | 6916 | v Pav | 91919 | 7052 | 4 Lyr | 92946 | 7141 | 63 Ser |
| 89112 | 6783 | ε Tel | 90441 | 6918 | d Ser | 91919 | 7052 | ε ¹ Lyr | 92951 | 7142 | θ ² Ser |
| 88886 | 6787 | 102 Her | 90441 | 6918 | 59 Ser | 91926 | 7053 | ε ² Lyr | 92951 | 7142 | 63 Ser |
| 85822 | 6789 | 23 UMi | 90441 | 6918 | d Ser | 91926 | 7053 | 5 Lyr | 93057 | 7145 | ξ ¹ Sgr |
| 85822 | 6789 | δ UMi | 89908 | 6920 | 43 Dra | 91926 | 7054 | ε ² Lyr | 93057 | 7145 | 36 Sgr |
| 88899 | 6794 | 101 Her | 89908 | 6920 | φ Dra | 91926 | 7054 | 5 Lyr | 92934 | 7147 | V828 Her |
| 88964 | 6795 | 73 Oph | 89908 | 6920 | φ Dra | 91971 | 7056 | ζ ¹ Lyr | 93026 | 7149 | η Sct |
| 89178 | 6802 | V404 Sgr | 90156 | 6923 | b Dra | 91971 | 7056 | 6 Lyr | 93085 | 7150 | 37 Sgr |
| 89290 | 6804 | V692 CrA | 90156 | 6923 | 39 Dra | 91973 | 7057 | ζ ² Lyr | 93085 | 7150 | ξ ² Sgr |
| 88127 | 6809 | 40 Dra | 89937 | 6927 | x Dra | 91973 | 7057 | 7 Lyr | 93174 | 7152 | ε CrA |
| 88136 | 6810 | 41 Dra | 89937 | 6927 | 44 Dra | 92036 | 7058 | V535 Her | 93174 | 7152 | ε CrA |
| 85699 | 6811 | 24 UMi | 90610 | 6929 | V403 Sgr | 92117 | 7059 | 5 Aql | 92862 | 7157 | R Lyr |
| 89341 | 6812 | μ Sgr | 90595 | 6930 | γ Sct | 92043 | 7061 | 110 Her | 92862 | 7157 | 13 Lyr |
| 89341 | 6812 | μ Sgr | 90651 | 6932 | V432 Sct | 92308 | 7062 | η ¹ CrA | 93051 | 7158 | 64 Ser |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|----------------|----------|------|----------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 93124 | 7165 | FF Aql | 94141 | 7264 | π Sgr | 94648 | 7352 | τ Dra | 96302 | 7441 | 9 Cyg |
| 93179 | 7167 | V128 Aql | 94141 | 7264 | 41 Sgr | 94648 | 7352 | 60 Dra | 96198 | 7442 | V174 Cyg |
| 93179 | 7167 | 10 Aql | 94068 | 7266 | 19 Aql | 95260 | 7358 | 3 Vul | 96483 | 7446 | κ Aql |
| 93203 | 7172 | 11 Aql | 94724 | 7274 | τ Pav | 95260 | 7358 | V377 Vul | 96483 | 7446 | 39 Aql |
| 93104 | 7174 | V542 Lyr | 94013 | 7275 | V176 Cyg | 95477 | 7362 | x^1 Sgr | 96468 | 7447 | 41 Aql |
| 92997 | 7175 | 48 Dra | 94385 | 7279 | 20 Aql | 95477 | 7362 | 47 Sgr | 96468 | 7447 | ι Aql |
| 93244 | 7176 | 13 Aql | 94311 | 7283 | V471 Lyr | 95503 | 7363 | 49 Sgr | 96387 | 7457 | 11 Cyg |
| 93244 | 7176 | ϵ Aql | 94311 | 7283 | 19 Lyr | 95503 | 7363 | x^3 Sgr | 96458 | 7458 | U Vul |
| 93194 | 7178 | 14 Lyr | 94377 | 7285 | V338 Sge | 95398 | 7369 | 2 Sge | 96556 | 7460 | 42 Aql |
| 93194 | 7178 | γ Lyr | 94477 | 7287 | V128 Aql | 95081 | 7371 | 58 Dra | 96721 | 7461 | QQ Tel |
| 93177 | 7179 | V543 Lyr | 94477 | 7287 | 21 Aql | 95081 | 7371 | π Dra | 96100 | 7462 | 61 Dra |
| 92782 | 7180 | u Dra | 94140 | 7290 | 55 Dra | 95372 | 7372 | 2 Cyg | 96100 | 7462 | σ Dra |
| 92782 | 7180 | 52 Dra | 94643 | 7292 | 42 Sgr | 95447 | 7373 | b Aql | 96516 | 7463 | 4 Sge |
| 93270 | 7183 | V387 Vul | 94643 | 7292 | ψ Sgr | 95447 | 7373 | 31 Aql | 96516 | 7463 | ϵ Sge |
| 93210 | 7185 | V545 Lyr | 94302 | 7295 | 53 Dra | 95564 | 7375 | 50 Sgr | 96739 | 7464 | V409 Sgr |
| 93542 | 7188 | ζ CrA | 94730 | 7296 | RY Sgr | 95501 | 7377 | 30 Aql | 96441 | 7469 | 13 Cyg |
| 93279 | 7192 | λ Lyr | 94481 | 7298 | η Lyr | 95501 | 7377 | 6 Aql | 96441 | 7469 | θ Cyg |
| 93279 | 7192 | 15 Lyr | 94481 | 7298 | 20 Lyr | 95498 | 7385 | 4 Vul | 96729 | 7470 | 53 Sgr |
| 93429 | 7193 | i Aql | 94620 | 7301 | 1 Sge | 95585 | 7387 | v Aql | 96665 | 7474 | σ Aql |
| 93429 | 7193 | 12 Aql | 94727 | 7303 | 22 Aql | 95585 | 7387 | 32 Aql | 96665 | 7474 | 44 Aql |
| 93506 | 7194 | 38 Sgr | 94820 | 7304 | 43 Sgr | 95560 | 7390 | 5 Vul | 96665 | 7474 | σ Aql |
| 93506 | 7194 | ζ Sgr | 94820 | 7304 | d Sgr | 95932 | 7393 | μ Tel | 96688 | 7475 | V340 Sge |
| 93552 | 7197 | V701 CrA | 94703 | 7306 | 1 Vul | 84535 | 7394 | λ UMi | 96808 | 7476 | 54 Sgr |
| 93309 | 7201 | V547 Lyr | 94685 | 7308 | V473 Lyr | 84535 | 7394 | λ UMi | 96808 | 7476 | e ¹ Sgr |
| 93526 | 7209 | 14 Aql | 94490 | 7309 | 54 Dra | 95556 | 7395 | 4 Cyg | 96683 | 7478 | 12 Cyg |
| 93526 | 7209 | g Aql | 94376 | 7310 | 57 Dra | 95556 | 7395 | V174 Cyg | 96683 | 7478 | ϕ Cyg |
| 93815 | 7213 | p Tel | 94376 | 7310 | δ Dra | 95793 | 7400 | c Aql | 96757 | 7479 | a Sge |
| 93408 | 7215 | 16 Lyr | 94083 | 7312 | 59 Dra | 95793 | 7400 | 35 Aql | 96757 | 7479 | 5 Sge |
| 93683 | 7217 | 39 Sgr | 94713 | 7314 | 21 Lyr | 95820 | 7402 | U Aql | 96807 | 7480 | 45 Aql |
| 93683 | 7217 | o Sgr | 94713 | 7314 | θ Lyr | 95673 | 7403 | V558 Lyr | 96693 | 7483 | 14 Cyg |
| 93340 | 7218 | 49 Dra | 94834 | 7315 | ω^1 Aql | 95771 | 7405 | a Vul | 96620 | 7484 | V114 Cyg |
| 93666 | 7220 | V Aql | 94834 | 7315 | 25 Aql | 95771 | 7405 | 6 Vul | 96840 | 7486 | QS Aql |
| 93603 | 7222 | LT Vul | 94827 | 7318 | ES Vul | 95785 | 7406 | 8 Vul | 96837 | 7488 | β Sge |
| 93187 | 7224 | EE Dra | 94827 | 7318 | 2 Vul | 95656 | 7408 | ι^1 Cyg | 96837 | 7488 | 6 Sge |
| 93717 | 7225 | 15 Aql | 94885 | 7319 | 23 Aql | 95656 | 7408 | 7 Cyg | 96950 | 7489 | e ² Sgr |
| 93717 | 7225 | h Aql | 94913 | 7321 | 24 Aql | 95818 | 7409 | 7 Vul | 96950 | 7489 | 55 Sgr |
| 93825 | 7226 | γ CrA | 94910 | 7326 | U Sge | 95937 | 7414 | e Aql | 96931 | 7493 | 46 Aql |
| 93825 | 7227 | γ CrA | 94779 | 7328 | κ Cyg | 95937 | 7414 | 36 Aql | 96957 | 7497 | x Aql |
| 104382 | 7228 | σ Oct | 94779 | 7328 | 1 Cyg | 95929 | 7415 | V923 Aql | 96957 | 7497 | 47 Aql |
| 104382 | 7228 | σ Oct | 95261 | 7329 | η Tel | 96178 | 7416 | PW Tel | 96988 | 7501 | V127 Cyg |
| 93864 | 7234 | 40 Sgr | 94982 | 7331 | V120 Aql | 95947 | 7417 | 6 Cyg | 96895 | 7503 | 16 Cyg |
| 93864 | 7234 | τ Sgr | 94982 | 7331 | 28 Aql | 95947 | 7417 | β^1 Cyg | 97077 | 7506 | 10 Vul |
| 93747 | 7235 | 17 Aql | 95002 | 7332 | ω^2 Aql | 95951 | 7418 | 6 Cyg | 97091 | 7508 | PS Vul |
| 93747 | 7235 | ζ Aql | 95002 | 7332 | 29 Aql | 95951 | 7418 | β^2 Cyg | 96919 | 7509 | V135 Cyg |
| 93805 | 7236 | 16 Aql | 95066 | 7333 | 26 Aql | 95853 | 7420 | ι^2 Cyg | 97421 | 7510 | v Tel |
| 93805 | 7236 | λ Aql | 95066 | 7333 | f Aql | 95853 | 7420 | 10 Cyg | 97139 | 7511 | 48 Aql |
| 93887 | 7241 | V419 Sgr | 95073 | 7336 | 27 Aql | 95853 | 7420 | ι Cyg | 97139 | 7511 | ψ Aql |
| 94005 | 7242 | δ CrA | 95073 | 7336 | d Aql | 96234 | 7422 | V408 Sgr | 97290 | 7515 | f Sgr |
| 93820 | 7243 | R Aql | 95241 | 7337 | β^1 Sgr | 96341 | 7424 | ι Tel | 97290 | 7515 | 56 Sgr |
| 93867 | 7248 | Y Aql | 95159 | 7339 | V419 Sgr | 96052 | 7426 | 8 Cyg | 97118 | 7517 | 15 Cyg |
| 93867 | 7248 | 18 Aql | 95168 | 7340 | ρ^1 Sgr | 96003 | 7428 | V181 Cyg | 97150 | 7518 | SU Cyg |
| 93996 | 7249 | V402 Sgr | 95168 | 7340 | 44 Sgr | 96229 | 7429 | μ Aql | 97229 | 7519 | 49 Aql |
| 93713 | 7251 | 51 Dra | 95168 | 7340 | ρ^1 Sgr | 96229 | 7429 | 38 Aql | 97229 | 7519 | u Aql |
| 94114 | 7254 | a CrA | 95176 | 7342 | 46 Sgr | 96327 | 7430 | 37 Aql | 97142 | 7520 | V209 Cyg |
| 93808 | 7258 | V550 Lyr | 95176 | 7342 | u Sgr | 96406 | 7431 | h ¹ Sgr | 97151 | 7523 | V973 Cyg |
| 94160 | 7259 | β CrA | 95176 | 7342 | v Sgr | 96406 | 7431 | 51 Sgr | 97674 | 7524 | NZ Pav |
| 93917 | 7261 | 17 Lyr | 95294 | 7343 | β^2 Sgr | 96275 | 7437 | 9 Vul | 97278 | 7525 | 50 Aql |
| 93903 | 7262 | ι Lyr | 95188 | 7344 | 45 Sgr | 96440 | 7439 | V433 Sgr | 97278 | 7525 | γ Aql |
| 93903 | 7262 | ι Lyr | 95188 | 7344 | ρ^2 Sgr | 96465 | 7440 | 52 Sgr | 97165 | 7528 | δ Cyg |
| 93903 | 7262 | 18 Lyr | 95347 | 7348 | a Sgr | 96465 | 7440 | h ² Sgr | 97165 | 7528 | 18 Cyg |

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| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|----------------|----------|------|--------------------|----------|------|--------------------|----------|------|---------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 97295 | 7534 | 17 Cyg | 98103 | 7610 | φ Aql | 99303 | 7708 | b ² Cyg | 100469 | 7779 | κ^1 Sgr |
| 97365 | 7536 | 7 Sge | 98103 | 7610 | 61 Aql | 99303 | 7708 | V162 Cyg | 100250 | 7786 | V158 Cyg |
| 97365 | 7536 | 8 Sge | 98624 | 7612 | μ^2 Pav | 99303 | 7708 | 28 Cyg | 100591 | 7787 | κ^2 Sgr |
| 97365 | 7536 | 8 Sge | 98068 | 7613 | 22 Cyg | 99457 | 7709 | BE Cap | 100435 | 7789 | 25 Vul |
| 97473 | 7544 | π Aql | 98258 | 7614 | g Sgr | 99473 | 7710 | θ Aql | 100751 | 7790 | α Pav |
| 97473 | 7544 | 52 Aql | 98258 | 7614 | 61 Sgr | 99473 | 7710 | 65 Aql | 100221 | 7792 | DE Dra |
| 97496 | 7546 | 8 Sge | 98110 | 7615 | 21 Cyg | 99404 | 7711 | 18 Vul | 100221 | 7792 | 71 Dra |
| 97496 | 7546 | ζ Sge | 98110 | 7615 | η Cyg | 99529 | 7712 | ξ^1 Cap | 100453 | 7796 | 37 Cyg |
| 97485 | 7551 | V176 Cyg | 98353 | 7618 | 60 Sgr | 99529 | 7712 | 1 Cap | 100453 | 7796 | γ Cyg |
| 97749 | 7552 | V396 Sgr | 98055 | 7619 | 24 Cyg | 99572 | 7715 | ξ Cap | 100261 | 7804 | AC Dra |
| 97650 | 7553 | 51 Aql | 98055 | 7619 | ψ Cyg | 99572 | 7715 | ξ^2 Cap | 100587 | 7806 | 39 Cyg |
| 97607 | 7554 | V133 Aql | 98234 | 7622 | 11 Sge | 99572 | 7715 | 2 Cap | 100574 | 7807 | V211 Cyg |
| 97572 | 7556 | V379 Vul | 98412 | 7623 | θ^1 Sgr | 99518 | 7718 | 19 Vul | 100881 | 7814 | 10 Cap |
| 97649 | 7557 | 53 Aql | 98421 | 7624 | θ^2 Sgr | 99531 | 7719 | 20 Vul | 100881 | 7814 | π Cap |
| 97649 | 7557 | α Aql | 98608 | 7625 | v Pav | 99631 | 7720 | 66 Aql | 100977 | 7821 | 68 Aql |
| 97675 | 7560 | o Aql | 98337 | 7635 | 12 Sge | 99742 | 7724 | 67 Aql | 101027 | 7822 | 11 Cap |
| 97675 | 7560 | 54 Aql | 98337 | 7635 | γ Sge | 99742 | 7724 | ρ Aql | 101027 | 7822 | ρ Cap |
| 97783 | 7561 | 57 Sgr | 98375 | 7641 | 14 Vul | 99500 | 7727 | 68 Dra | 100907 | 7826 | 40 Cyg |
| 97326 | 7563 | CN Dra | 98438 | 7645 | 13 Sge | 99920 | 7728 | V443 Sgr | 100859 | 7828 | 43 Cyg |
| 97629 | 7564 | x Cyg | 98438 | 7645 | VZ Sgr | 99639 | 7730 | 30 Cyg | 100859 | 7828 | V212 Cyg |
| 97629 | 7564 | x Cyg | 98425 | 7647 | V174 Cyg | 99738 | 7731 | 21 Vul | 101120 | 7829 | o Cap |
| 97679 | 7565 | V395 Vul | 98425 | 7647 | 25 Cyg | 99738 | 7731 | v Vul | 101120 | 7829 | 12 Cap |
| 97679 | 7565 | 12 Vul | 98633 | 7649 | 63 Sgr | 99675 | 7735 | 31 Cyg | 101123 | 7830 | 12 Cap |
| 97630 | 7566 | 19 Cyg | 98688 | 7650 | V387 Sgr | 99675 | 7735 | o ¹ Cyg | 101123 | 7830 | o Cap |
| 97630 | 7566 | V150 Cyg | 98688 | 7650 | c Sgr | 99675 | 7735 | V695 Cyg | 101101 | 7831 | 69 Aql |
| 97634 | 7567 | V380 Cyg | 98688 | 7650 | 62 Sgr | 99770 | 7736 | V164 Cyg | 101076 | 7834 | 41 Cyg |
| 97651 | 7568 | V209 Cyg | 98379 | 7651 | V210 Cyg | 99770 | 7736 | b ³ Cyg | 101067 | 7835 | 42 Cyg |
| 97804 | 7570 | η Aql | 98543 | 7653 | 15 Vul | 99770 | 7736 | 29 Cyg | 101160 | 7836 | 1 δ |
| 97804 | 7570 | 55 Aql | 98543 | 7653 | NT Vul | 99918 | 7738 | 3 Cap | 101138 | 7844 | V201 Cyg |
| 97804 | 7570 | η Aql | 98636 | 7657 | 16 Vul | 99824 | 7739 | QR Vul | 101138 | 7844 | o ¹ Cyg |
| 97849 | 7571 | V505 Sgr | 98571 | 7660 | 26 Cyg | 99655 | 7740 | 33 Cyg | 101138 | 7844 | 45 Cyg |
| 97787 | 7572 | V146 Aql | 98571 | 7660 | e Cyg | 99853 | 7741 | 22 Vul | 101477 | 7846 | v Mic |
| 97796 | 7574 | 9 Sge | 99240 | 7665 | δ Pav | 99853 | 7741 | QS Vul | 101214 | 7847 | 44 Cyg |
| 97796 | 7574 | QZ Sge | 98844 | 7667 | 62 Aql | 99874 | 7744 | 23 Vul | 101612 | 7848 | φ^1 Pav |
| 97871 | 7575 | V129 Aql | 98823 | 7669 | 63 Aql | 99913 | 7746 | 18 Sge | 101093 | 7850 | 2 Cep |
| 97635 | 7576 | 20 Cyg | 98823 | 7669 | τ Aql | 100027 | 7747 | 5 Cap | 101093 | 7850 | θ Cep |
| 97635 | 7576 | d Cyg | 98910 | 7671 | V140 Aql | 100027 | 7747 | α^1 Cap | 101243 | 7851 | o ² Cyg |
| 97944 | 7578 | V420 Sgr | 98819 | 7672 | 15 Sge | 100062 | 7748 | 4 Cap | 101243 | 7851 | 46 Cyg |
| 98032 | 7581 | ι Sgr | 99120 | 7673 | ξ Tel | 99255 | 7750 | 1 Cep | 101421 | 7852 | 2 δ |
| 97433 | 7582 | 63 Dra | 98953 | 7675 | 65 Sgr | 99255 | 7750 | κ Cep | 101421 | 7852 | ϵ δ |
| 97433 | 7582 | ϵ Dra | 98583 | 7676 | e Dra | 99848 | 7751 | V148 Cyg | 101483 | 7858 | 3 δ |
| 97928 | 7584 | 56 Aql | 98583 | 7676 | 64 Dra | 99848 | 7751 | o ² Cyg | 101483 | 7858 | η δ |
| 98495 | 7590 | ϵ Pav | 98863 | 7678 | V176 Cyg | 99848 | 7751 | 32 Cyg | 101773 | 7859 | ρ Pav |
| 97886 | 7592 | 13 Vul | 98920 | 7679 | η Sge | 99951 | 7753 | 24 Vul | 101773 | 7859 | ρ Pav |
| 97966 | 7593 | 57 Aql | 98920 | 7679 | 16 Sge | 100064 | 7754 | 6 Cap | 102162 | 7863 | μ^1 Oct |
| 97967 | 7594 | 57 Aql | 98954 | 7680 | V147 Aql | 100064 | 7754 | α^2 Cap | 102125 | 7864 | μ^2 Oct |
| 97938 | 7595 | ξ Aql | 98658 | 7682 | 65 Dra | 100195 | 7761 | 7 Cap | 101474 | 7866 | V212 Cyg |
| 97938 | 7595 | 59 Aql | 98702 | 7685 | ρ Dra | 100195 | 7761 | σ Cap | 101474 | 7866 | 47 Cyg |
| 97980 | 7596 | 58 Aql | 98702 | 7685 | 67 Dra | 100044 | 7763 | P Cyg | 101772 | 7869 | α Ind |
| 98066 | 7597 | ω Sgr | 98401 | 7686 | 69 Dra | 100044 | 7763 | 34 Cyg | 101475 | 7870 | V201 Cyg |
| 98066 | 7597 | 58 Sgr | 99080 | 7688 | 17 Vul | 100044 | 7763 | P Cyg | 101589 | 7871 | ζ δ |
| 97845 | 7600 | V819 Cyg | 99031 | 7689 | b ¹ Cyg | 100108 | 7769 | 36 Cyg | 101589 | 7871 | 4 δ |
| 98036 | 7602 | 60 Aql | 99031 | 7689 | V200 Cyg | 100122 | 7770 | 35 Cyg | 101692 | 7873 | 70 Aql |
| 98036 | 7602 | β Aql | 99031 | 7689 | 27 Cyg | 100310 | 7773 | v Cap | 101641 | 7874 | 26 Vul |
| 98478 | 7603 | μ^1 Pav | 99171 | 7690 | 64 Aql | 100310 | 7773 | 8 Cap | 101983 | 7875 | φ^2 Pav |
| 98162 | 7604 | 59 Sgr | 99221 | 7694 | AV Cap | 100325 | 7775 | β^2 Cap | 101260 | 7879 | AF Dra |
| 98162 | 7604 | b Sgr | 99176 | 7696 | V344 Sge | 100345 | 7776 | 9 Cap | 101260 | 7879 | 73 Dra |
| 97870 | 7608 | 23 Cyg | 98962 | 7701 | 66 Dra | 100345 | 7776 | β^1 Cap | 101716 | 7880 | 27 Vul |
| 98085 | 7609 | S Sge | 99352 | 7705 | 17 Sge | 100345 | 7776 | β Cap | 102157 | 7881 | u Pav |
| 98085 | 7609 | 10 Sge | 99352 | 7705 | θ Sge | 100142 | 7777 | V177 Cyg | 101769 | 7882 | β δ |

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|----------|------|----------------|-----|----------|------|----------------|-----|----------|------|----------------|-----|----------|------|----------------|-----|
| NH | NBSC | nombre | | NH | NBSC | nombre | | NH | NBSC | nombre | | NH | NBSC | nombre | |
| 101769 | 7882 | 6 | δ | 102790 | 7952 | ζ | Ind | 104019 | 8060 | 22 | Cap | 105269 | 8157 | V133 | Cyg |
| 101800 | 7883 | ι | δ | 102633 | 7953 | 13 | δ | 103828 | 8062 | V198 | Cyg | 105412 | 8160 | 16 | Aqr |
| 101800 | 7883 | 5 | δ | 102571 | 7956 | T | Cyg | 104031 | 8066 | 3 | Equ | 105199 | 8162 | α | Cep |
| 101847 | 7884 | 1 | Aql | 102422 | 7957 | η | Cep | 104177 | 8069 | η | Mic | 105199 | 8162 | 5 | Cep |
| 101847 | 7884 | 71 | Aql | 102422 | 7957 | 3 | Cep | 104148 | 8070 | δ | Mic | 105413 | 8163 | 9 | Equ |
| 101765 | 7885 | 48 | Cyg | 102589 | 7963 | 54 | Cyg | 104139 | 8075 | 23 | Cap | 105259 | 8164 | V381 | Cep |
| 101810 | 7886 | EU | δ | 102589 | 7963 | λ | Cyg | 104139 | 8075 | θ | Cap | 105515 | 8167 | ι | Cap |
| 101923 | 7889 | τ | Cap | 102589 | 7963 | λ | Cyg | 104101 | 8077 | 4 | Equ | 105515 | 8167 | ι | Cap |
| 101923 | 7889 | τ ² | Cap | 102831 | 7965 | α | Mic | 104060 | 8079 | ξ | Cyg | 105515 | 8167 | 32 | Cap |
| 101923 | 7889 | 14 | Cap | 102950 | 7968 | ι | Ind | 104060 | 8079 | 62 | Cyg | 105268 | 8171 | V382 | Cep |
| 101867 | 7891 | 29 | Vul | 102805 | 7973 | 15 | δ | 104234 | 8080 | 24 | Cap | 105268 | 8171 | 6 | Cep |
| 101882 | 7892 | 8 | δ | 102819 | 7974 | 14 | δ | 104185 | 8084 | DT | Cyg | 105502 | 8173 | 1 | Peg |
| 101882 | 7892 | θ | δ | 102724 | 7977 | V166 | Cyg | 104214 | 8085 | 61 | Cyg | 105574 | 8175 | 17 | Aqr |
| 101868 | 7894 | 28 | Vul | 102724 | 7977 | 55 | Cyg | 104214 | 8085 | V180 | Cyg | 105570 | 8178 | β | Equ |
| 101916 | 7896 | κ | δ | 102989 | 7979 | β | Mic | 104217 | 8086 | 61 | Cyg | 105570 | 8178 | 10 | Equ |
| 101916 | 7896 | 7 | δ | 102978 | 7980 | 18 | Cap | 104365 | 8087 | x | Cap | 105696 | 8180 | θ ² | Mic |
| 101936 | 7897 | 1 | Aqr | 102978 | 7980 | ω | Cap | 104365 | 8087 | 25 | Cap | 105858 | 8181 | γ | Pav |
| 101984 | 7900 | 15 | Cap | 102945 | 7982 | 4 | Aqr | 104194 | 8089 | f ² | Cyg | 105665 | 8183 | 33 | Cap |
| 101984 | 7900 | υ | Cap | 102827 | 7983 | V213 | Cyg | 104194 | 8089 | 63 | Cyg | 105668 | 8187 | 18 | Aqr |
| 100965 | 7901 | 75 | Dra | 102843 | 7984 | 56 | Cyg | 104452 | 8091 | 27 | Cap | 105841 | 8188 | γ | Ind |
| 101958 | 7906 | α | δ | 103005 | 7985 | 5 | Aqr | 104755 | 8092 | o | Pav | 105729 | 8192 | 20 | Aqr |
| 101958 | 7906 | 9 | δ | 103227 | 7986 | β | Ind | 104459 | 8093 | v | Aqr | 105761 | 8195 | 19 | Aqr |
| 101082 | 7908 | 74 | Dra | 102949 | 7988 | T | Vul | 104459 | 8093 | 13 | Aqr | 106044 | 8196 | SX | Pav |
| 101949 | 7911 | V213 | Cyg | 103045 | 7990 | 6 | Aqr | 104371 | 8094 | V389 | Cyg | 105767 | 8199 | 21 | Aqr |
| 102395 | 7913 | β | Pav | 103045 | 7990 | μ | Aqr | 104521 | 8097 | γ | Equ | 105881 | 8204 | 34 | Cap |
| 102080 | 7918 | 10 | δ | 103004 | 7995 | 31 | Vul | 104521 | 8097 | γ | Equ | 105881 | 8204 | ζ | Cap |
| 102333 | 7920 | η | Ind | 103168 | 7997 | BY | Mic | 104521 | 8097 | 5 | Equ | 105733 | 8206 | V193 | Cyg |
| 102066 | 7921 | 49 | Cyg | 103226 | 8000 | 19 | Cap | 104538 | 8098 | 6 | Equ | 105928 | 8207 | 35 | Cap |
| 102158 | 7923 | LU | δ | 103089 | 8001 | 57 | Cyg | 104634 | 8102 | EW | Aqr | 105811 | 8209 | V215 | Cyg |
| 102098 | 7924 | 50 | Cyg | 102208 | 8002 | 76 | Dra | 104483 | 8103 | V214 | Cyg | 105811 | 8209 | 69 | Cyg |
| 102098 | 7924 | α | Cyg | 103261 | 8006 | EM | Aqr | 104451 | 8113 | T | Cep | 105860 | 8210 | IK | Peg |
| 102098 | 7924 | α | Cyg | 103191 | 8007 | BW | Vul | 104732 | 8115 | ζ | Cyg | 106039 | 8213 | b | Cap |
| 102195 | 7927 | V568 | Cyg | 103200 | 8008 | 32 | Vul | 104732 | 8115 | 64 | Cyg | 106039 | 8213 | 36 | Cap |
| 102281 | 7928 | δ | δ | 103294 | 8011 | 17 | δ | 104858 | 8123 | δ | Equ | 106067 | 8214 | 5 | PsA |
| 102281 | 7928 | 11 | δ | 103298 | 8012 | 16 | δ | 104858 | 8123 | 7 | Equ | 105942 | 8215 | 70 | Cyg |
| 102281 | 7928 | δ | δ | 103401 | 8015 | 7 | Aqr | 104963 | 8127 | φ | Cap | 105966 | 8217 | 35 | Vul |
| 102177 | 7929 | 51 | Cyg | 103312 | 8020 | V214 | Cyg | 104963 | 8127 | 28 | Cap | 106062 | 8223 | NV | Peg |
| 102276 | 7932 | X | Cyg | 104043 | 8021 | α | Oct | 104974 | 8128 | 29 | Cap | 105949 | 8224 | V426 | Cep |
| 102773 | 7934 | σ | Pav | 104043 | 8021 | α | Oct | 104887 | 8130 | 65 | Cyg | 106140 | 8225 | 2 | Peg |
| 102485 | 7936 | 16 | Cap | 103545 | 8024 | DV | Aqr | 104887 | 8130 | τ | Cyg | 105972 | 8227 | 7 | Cep |
| 102485 | 7936 | ψ | Cap | 103413 | 8028 | v | Cyg | 104887 | 8130 | τ | Cyg | 106093 | 8228 | g | Cyg |
| 102487 | 7937 | 17 | Cap | 103413 | 8028 | 58 | Cyg | 104987 | 8131 | α | Equ | 106093 | 8228 | 71 | Cyg |
| 102388 | 7939 | 30 | Vul | 103527 | 8030 | 18 | δ | 104987 | 8131 | 8 | Equ | 106327 | 8229 | ξ | Gru |
| 102258 | 7940 | V379 | Cep | 103511 | 8032 | 33 | Vul | 105140 | 8135 | ε | Mic | 106340 | 8230 | 6 | PsA |
| 102440 | 7941 | U | δ | 103616 | 8033 | AO | Cap | 105143 | 8137 | 30 | Cap | 106278 | 8232 | 22 | Aqr |
| 102453 | 7942 | 52 | Cyg | 103616 | 8033 | 20 | Cap | 105168 | 8139 | 31 | Cap | 106278 | 8232 | β | Aqr |
| 102693 | 7943 | ι | Mic | 103569 | 8034 | ε | Equ | 105319 | 8140 | θ | Ind | 106032 | 8238 | 8 | Cep |
| 102358 | 7944 | V414 | Cep | 103569 | 8034 | 1 | Equ | 105164 | 8141 | 15 | Aqr | 106032 | 8238 | β | Cep |
| 102253 | 7945 | 4 | Cep | 103738 | 8039 | γ | Mic | 105102 | 8143 | 67 | Cyg | 106032 | 8238 | β | Cep |
| 102531 | 7947 | γ ¹ | δ | 103682 | 8041 | 11 | Aqr | 105102 | 8143 | σ | Cyg | 106559 | 8245 | 37 | Cap |
| 102531 | 7947 | 12 | δ | 103632 | 8047 | f ¹ | Cyg | 105334 | 8145 | T | Ind | 106481 | 8252 | ρ | Cyg |
| 102532 | 7948 | 12 | δ | 103632 | 8047 | V832 | Cyg | 105138 | 8146 | υ | Cyg | 106481 | 8252 | 73 | Cyg |
| 102532 | 7948 | γ ² | δ | 103632 | 8047 | 59 | Cyg | 105138 | 8146 | 66 | Cyg | 106654 | 8253 | 8 | PsA |
| 102488 | 7949 | 53 | Cyg | 103882 | 8048 | ζ | Mic | 105138 | 8146 | υ | Cyg | 107089 | 8254 | v | Oct |
| 102488 | 7949 | ε | Cyg | 103732 | 8053 | V193 | Cyg | 105382 | 8151 | θ ¹ | Mic | 106551 | 8255 | 72 | Cyg |
| 102618 | 7950 | 2 | Aqr | 103732 | 8053 | 60 | Cyg | 105382 | 8151 | θ ¹ | Mic | 106703 | 8256 | 7 | PsA |
| 102618 | 7950 | ε | Aqr | 104085 | 8055 | μ | Ind | 105091 | 8153 | V421 | Cep | 106723 | 8260 | 39 | Cap |
| 102624 | 7951 | 3 | Aqr | 103981 | 8058 | 12 | Aqr | 105186 | 8154 | 68 | Cyg | 106723 | 8260 | ε | Cap |
| 102624 | 7951 | k | Aqr | 103981 | 8059 | 12 | Aqr | 105186 | 8154 | V180 | Cyg | 106723 | 8260 | ε | Cap |
| 102624 | 7951 | EN | Aqr | 104019 | 8060 | η | Cap | 105678 | 8156 | Y | Pav | 106642 | 8262 | W | Cyg |

Número de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 106786 | 8264 | ξ Aqr | 107608 | 8326 | 10 PsA | 108917 | 8417 | ξ Cep | 110273 | 8512 | ρ Aqr |
| 106786 | 8264 | 23 Aqr | 107608 | 8326 | θ PsA | 109139 | 8418 | 33 Aqr | 110298 | 8513 | 30 Peg |
| 106783 | 8265 | 3 Peg | 107575 | 8328 | 11 Peg | 109139 | 8418 | ι Aqr | 110618 | 8515 | v Ind |
| 106711 | 8266 | 74 Cyg | 107835 | 8333 | o Ind | 109056 | 8419 | 23 Peg | 110391 | 8516 | 47 Aqr |
| 106787 | 8267 | 5 Peg | 107418 | 8334 | v Cep | 109033 | 8421 | HT Lac | 110346 | 8517 | PT Peg |
| 106856 | 8270 | 4 Peg | 107418 | 8334 | 10 Cep | 109268 | 8425 | α Gru | 110395 | 8518 | 48 Aqr |
| 106752 | 8272 | CP Cyg | 107418 | 8334 | v Cep | 109005 | 8426 | 20 Cep | 110395 | 8518 | γ Aqr |
| 106897 | 8276 | NZ Peg | 107533 | 8335 | 81 Cyg | 109082 | 8427 | V365 Lac | 110386 | 8520 | 31 Peg |
| 106944 | 8277 | d Aqr | 107533 | 8335 | π ² Cyg | 109017 | 8428 | 19 Cep | 110386 | 8520 | IN Peg |
| 106944 | 8277 | 25 Aqr | 107586 | 8339 | 12 Cep | 109176 | 8430 | 24 Peg | 110478 | 8521 | π ¹ Gru |
| 106985 | 8278 | 40 Cap | 107763 | 8343 | 14 Peg | 109176 | 8430 | ι Peg | 110478 | 8521 | π ¹ Gru |
| 106985 | 8278 | γ Cap | 107788 | 8344 | 13 Peg | 109285 | 8431 | μ PsA | 110371 | 8522 | 32 Peg |
| 106801 | 8279 | V337 Cep | 107856 | 8349 | V161 Cyg | 109285 | 8431 | 14 PsA | 110351 | 8523 | 2 Lac |
| 106801 | 8279 | 9 Cep | 107956 | 8350 | HO Peg | 109289 | 8433 | υ PsA | 110506 | 8524 | π ² Gru |
| 107843 | 8280 | λ Oct | 108036 | 8351 | 51 Cap | 109124 | 8434 | V444 Cep | 110408 | 8528 | V405 Lac |
| 107095 | 8283 | 42 Cap | 108036 | 8351 | μ Cap | 109212 | 8436 | OY Peg | 110529 | 8529 | 49 Aqr |
| 106999 | 8284 | 75 Cyg | 108085 | 8353 | γ Gru | 109240 | 8438 | 25 Peg | 110548 | 8532 | 33 Peg |
| 107128 | 8285 | 41 Cap | 107975 | 8354 | 15 Peg | 109332 | 8439 | 35 Aqr | 110578 | 8533 | 51 Aqr |
| 107144 | 8287 | 26 Aqr | 108022 | 8356 | OQ Peg | 109205 | 8443 | V399 Lac | 110602 | 8534 | 50 Aqr |
| 107188 | 8288 | 43 Cap | 108022 | 8356 | 16 Peg | 109422 | 8447 | τ PsA | 110538 | 8538 | 3 Lac |
| 107188 | 8288 | κ Cap | 108281 | 8362 | π Ind | 109422 | 8447 | 15 PsA | 110538 | 8538 | β Lac |
| 107151 | 8289 | 7 Peg | 108347 | 8367 | BZ Gru | 109303 | 8448 | AR Lac | 110672 | 8539 | π Aqr |
| 107097 | 8291 | 76 Cyg | 108431 | 8368 | δ Ind | 109352 | 8449 | π ¹ Peg | 110672 | 8539 | 52 Aqr |
| 112355 | 8294 | CG Oct | 108478 | 8369 | κ ¹ Ind | 109352 | 8449 | 27 Peg | 110672 | 8539 | π Aqr |
| 107232 | 8295 | 44 Cap | 108478 | 8369 | BG Ind | 109427 | 8450 | 26 Peg | 110838 | 8540 | δ Tuc |
| 107129 | 8297 | V460 Cyg | 108165 | 8371 | 13 Cep | 109427 | 8450 | θ Peg | 110609 | 8541 | 4 Lac |
| 107140 | 8298 | V133 Cyg | 108339 | 8373 | 17 Peg | 109472 | 8452 | 38 Aqr | 110778 | 8544 | 53 Aqr |
| 107162 | 8300 | 77 Cyg | 108348 | 8377 | V217 Cyg | 109472 | 8452 | e Aqr | 110778 | 8545 | 53 Aqr |
| 107136 | 8301 | π ¹ Cyg | 108494 | 8378 | BW Cap | 109410 | 8454 | π Peg | 110785 | 8548 | 34 Peg |
| 107136 | 8301 | 80 Cyg | 108317 | 8383 | VV Cep | 109410 | 8454 | 29 Peg | 110882 | 8551 | 35 Peg |
| 107302 | 8302 | 45 Cap | 108612 | 8385 | 18 Peg | 109410 | 8454 | π ² Peg | 110936 | 8552 | v Gru |
| 107380 | 8305 | 9 PsA | 108661 | 8386 | η PsA | 109458 | 8459 | 28 Peg | 110997 | 8556 | δ ¹ Gru |
| 107380 | 8305 | ι PsA | 108661 | 8386 | 12 PsA | 109624 | 8462 | 39 Aqr | 110960 | 8558 | ζ ¹ Aqr |
| 107253 | 8307 | 79 Cyg | 108870 | 8387 | ε Ind | 109492 | 8465 | ζ Cep | 110960 | 8558 | 55 Aqr |
| 107315 | 8308 | ε Peg | 108691 | 8390 | 28 Aqr | 109492 | 8465 | ζ Cep | 110960 | 8558 | ζ ² Aqr |
| 107315 | 8308 | 8 Peg | 108693 | 8392 | 20 Peg | 109492 | 8465 | 21 Cep | 110960 | 8559 | ζ ¹ Aqr |
| 107315 | 8308 | ε Peg | 108699 | 8393 | 19 Peg | 109400 | 8468 | 24 Cep | 110960 | 8559 | 55 Aqr |
| 107310 | 8309 | 78 Cyg | 108797 | 8396 | DX Aqr | 109556 | 8469 | λ Cep | 110960 | 8559 | ζ ² Aqr |
| 107310 | 8309 | μ ² Cyg | 108797 | 8396 | 29 Aqr | 109556 | 8469 | 22 Cep | 111043 | 8560 | δ ² Gru |
| 107310 | 8309 | μ ¹ Cyg | 108535 | 8400 | 16 Cep | 110078 | 8471 | ψ Oct | 111043 | 8560 | δ ² Gru |
| 107310 | 8310 | 78 Cyg | 108868 | 8401 | 30 Aqr | 109789 | 8478 | λ PsA | 110817 | 8561 | 26 Cep |
| 107310 | 8310 | μ ² Cyg | 108874 | 8402 | o Aqr | 109789 | 8478 | 16 PsA | 110986 | 8562 | 36 Peg |
| 107310 | 8310 | μ ¹ Cyg | 108874 | 8402 | 31 Aqr | 109786 | 8480 | 41 Aqr | 111062 | 8566 | 37 Peg |
| 107382 | 8311 | c Cap | 108874 | 8402 | o Aqr | 110256 | 8481 | BO Oct | 111086 | 8567 | 56 Aqr |
| 107382 | 8311 | 46 Cap | 108875 | 8404 | 21 Peg | 110256 | 8481 | ε Oct | 111138 | 8570 | ζ PsA |
| 107348 | 8313 | 9 Peg | 108952 | 8405 | 13 PsA | 109908 | 8486 | μ ¹ Gru | 110991 | 8571 | δ Cep |
| 107350 | 8314 | HN Peg | 108772 | 8406 | 14 Cep | 109973 | 8488 | μ ² Gru | 110991 | 8571 | δ Cep |
| 107354 | 8315 | 10 Peg | 108772 | 8406 | LZ Cep | 109857 | 8494 | 23 Cep | 110991 | 8571 | 27 Cep |
| 107354 | 8315 | κ Peg | 108845 | 8407 | V194 Cyg | 109857 | 8494 | ε Cep | 111022 | 8572 | V412 Lac |
| 107259 | 8316 | μ Cep | 108975 | 8408 | UU PsA | 109857 | 8494 | ε Cep | 111022 | 8572 | 5 Lac |
| 107259 | 8316 | μ Cep | 109081 | 8409 | κ ² Ind | 110000 | 8496 | 42 Aqr | 111123 | 8573 | 57 Aqr |
| 107119 | 8317 | 11 Cep | 108991 | 8410 | 32 Aqr | 109937 | 8498 | 1 Lac | 111123 | 8573 | σ Aqr |
| 107487 | 8318 | 47 Cap | 109111 | 8411 | λ Gru | 110003 | 8499 | 43 Aqr | 111068 | 8574 | 38 Peg |
| 107487 | 8318 | AG Cap | 109068 | 8413 | v Peg | 110003 | 8499 | θ Aqr | 111072 | 8575 | V350 Lac |
| 107517 | 8319 | 48 Cap | 109068 | 8413 | 22 Peg | 110130 | 8502 | α Tuc | 111188 | 8576 | β PsA |
| 107517 | 8319 | λ Cap | 109074 | 8414 | α Aqr | 110023 | 8504 | 44 Aqr | 111188 | 8576 | 17 PsA |
| 107472 | 8321 | 12 Peg | 109074 | 8414 | 34 Aqr | 111196 | 8505 | υ Oct | 110787 | 8578 | 28 Cep |
| 107556 | 8322 | 49 Cap | 108924 | 8416 | MO Cep | 110179 | 8508 | 45 Aqr | 110787 | 8578 | ρ ¹ Cep |
| 107556 | 8322 | δ Cap | 108924 | 8416 | 18 Cep | 110103 | 8511 | 25 Cep | 111104 | 8579 | 6 Lac |
| 107556 | 8322 | δ Cap | 108917 | 8417 | 17 Cep | 110273 | 8512 | 46 Aqr | 111310 | 8582 | v Tuc |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 111310 | 8582 | v Tuc | 112615 | 8676 | 70 Aqr | 113797 | 8770 | V638 Cas | 115102 | 8863 | γ Scl |
| 111200 | 8583 | 58 Aqr | 112716 | 8679 | τ Aqr | 113889 | 8773 | 4 Psc | 115065 | 8864 | 9 And |
| 111191 | 8584 | GX Peg | 112716 | 8679 | 71 Aqr | 113889 | 8773 | β Psc | 115065 | 8864 | AN And |
| 111169 | 8585 | 7 Lac | 112716 | 8679 | τ ² Aqr | 113957 | 8774 | κ Gru | 115115 | 8865 | ψ ³ Aqr |
| 111169 | 8585 | α Lac | 112748 | 8684 | μ Peg | 113881 | 8775 | 53 Peg | 115115 | 8865 | 95 Aqr |
| 111278 | 8586 | 39 Peg | 112748 | 8684 | 48 Peg | 113881 | 8775 | β Peg | 115126 | 8866 | 94 Aqr |
| 111394 | 8590 | 60 Aqr | 112778 | 8690 | V360 Lac | 113881 | 8775 | β Peg | 115142 | 8868 | 96 Aqr |
| 111056 | 8591 | ρ Cep | 112778 | 8690 | 14 Lac | 113853 | 8777 | V387 Cep | 115088 | 8872 | 34 Cep |
| 111056 | 8591 | 29 Cep | 112862 | 8693 | 21 PsA | 113919 | 8780 | 3 And | 115088 | 8872 | o Cep |
| 111449 | 8592 | 59 Aqr | 112724 | 8694 | 32 Cep | 113963 | 8781 | 54 Peg | 115152 | 8874 | 11 And |
| 111449 | 8592 | υ Aqr | 112724 | 8694 | ι Cep | 113963 | 8781 | α Peg | 115191 | 8876 | 10 And |
| 111497 | 8597 | 62 Aqr | 112948 | 8695 | 22 PsA | 113996 | 8782 | 83 Aqr | 115227 | 8878 | 7 Psc |
| 111497 | 8597 | η Aqr | 112948 | 8695 | γ PsA | 113996 | 8782 | h Aqr | 115250 | 8880 | τ Peg |
| 111594 | 8600 | σ ¹ Gru | 112935 | 8697 | 49 Peg | 114131 | 8787 | θ Gru | 115250 | 8880 | ι Peg |
| 111643 | 8602 | σ ² Gru | 112935 | 8697 | σ Peg | 114119 | 8789 | 86 Aqr | 115250 | 8880 | 62 Peg |
| 111546 | 8603 | 8 Lac | 112961 | 8698 | λ Aqr | 114119 | 8789 | c ¹ Aqr | 115271 | 8882 | 63 Peg |
| 111710 | 8610 | 63 Aqr | 112961 | 8698 | 73 Aqr | 114132 | 8790 | υ Gru | 115280 | 8885 | 12 And |
| 111710 | 8610 | κ Aqr | 112961 | 8698 | λ Aqr | 114144 | 8795 | 55 Peg | 115355 | 8887 | 64 Peg |
| 111833 | 8611 | CC Gru | 112917 | 8699 | 15 Lac | 114155 | 8796 | 56 Peg | 115433 | 8889 | DR Tuc |
| 111674 | 8613 | 9 Lac | 113044 | 8700 | τ ¹ Gru | 114104 | 8797 | 1 Cas | 115404 | 8890 | 97 Aqr |
| 111532 | 8615 | 31 Cep | 113137 | 8701 | ρ Ind | 114187 | 8798 | V343 Peg | 115407 | 8891 | 65 Peg |
| 111809 | 8616 | VZ PsA | 112997 | 8703 | IM Peg | 114189 | 8799 | V342 Peg | 115438 | 8892 | b ¹ Aqr |
| 111810 | 8618 | 40 Peg | 113031 | 8704 | 74 Aqr | 114200 | 8804 | 4 And | 115438 | 8892 | 98 Aqr |
| 111795 | 8621 | V416 Lac | 113031 | 8704 | HI Aqr | 114210 | 8805 | 5 And | 115444 | 8893 | 66 Peg |
| 111841 | 8622 | 10 Lac | 113009 | 8706 | V377 Lac | 114273 | 8807 | 5 Psc | 115591 | 8903 | 67 Peg |
| 111884 | 8624 | 41 Peg | 113136 | 8709 | δ Aqr | 114341 | 8812 | c ² Aqr | 115590 | 8904 | 4 Cas |
| 111797 | 8627 | 30 Cep | 113136 | 8709 | 76 Aqr | 114341 | 8812 | 88 Aqr | 115623 | 8905 | υ Peg |
| 111954 | 8628 | ε PsA | 113127 | 8710 | 78 Aqr | 114347 | 8815 | 57 Peg | 115623 | 8905 | 68 Peg |
| 111954 | 8628 | 18 PsA | 113148 | 8711 | 77 Aqr | 114347 | 8815 | GZ Peg | 115669 | 8906 | b ² Aqr |
| 112405 | 8630 | β Oct | 113131 | 8714 | HR Peg | 114375 | 8817 | 89 Aqr | 115669 | 8906 | 99 Aqr |
| 111944 | 8632 | 11 Lac | 113167 | 8715 | 1 Psc | 114407 | 8818 | DL Gru | 115713 | 8907 | o Gru |
| 112029 | 8634 | ζ Peg | 113186 | 8717 | ρ Peg | 114222 | 8819 | 33 Cep | 115738 | 8911 | 8 Psc |
| 112029 | 8634 | 42 Peg | 113186 | 8717 | 50 Peg | 114222 | 8819 | π Cep | 115738 | 8911 | κ Psc |
| 112122 | 8636 | β Gru | 113246 | 8720 | δ PsA | 114421 | 8820 | ι Gru | 115738 | 8911 | κ Psc |
| 112122 | 8636 | β Gru | 113246 | 8720 | 23 PsA | 114389 | 8821 | 58 Peg | 115768 | 8912 | 9 Psc |
| 112102 | 8637 | 19 PsA | 113283 | 8721 | TW PsA | 114365 | 8822 | 2 Cas | 115755 | 8913 | V388 And |
| 112031 | 8640 | 12 Lac | 113307 | 8722 | τ ³ Gru | 114430 | 8825 | 6 And | 115755 | 8913 | 13 And |
| 112031 | 8640 | DD Lac | 113281 | 8725 | EN Lac | 114520 | 8826 | 59 Peg | 115806 | 8915 | 69 Peg |
| 112051 | 8641 | o Peg | 113281 | 8725 | 16 Lac | 114526 | 8827 | 60 Peg | 115806 | 8915 | HV Peg |
| 112051 | 8641 | 43 Peg | 113288 | 8726 | V424 Lac | 114570 | 8830 | 7 And | 115830 | 8916 | 10 Psc |
| 112203 | 8644 | ρ Gru | 113368 | 8728 | α PsA | 114724 | 8834 | 90 Aqr | 115830 | 8916 | θ Psc |
| 112179 | 8647 | 67 Aqr | 113368 | 8728 | 24 PsA | 114724 | 8834 | φ Aqr | 115908 | 8919 | CG Tuc |
| 112211 | 8649 | g Aqr | 113357 | 8729 | 51 Peg | 114855 | 8841 | ψ ¹ Aqr | 115919 | 8923 | 70 Peg |
| 112211 | 8649 | 66 Aqr | 113327 | 8731 | EW Lac | 114855 | 8841 | 91 Aqr | 115990 | 8926 | AR Cas |
| 112158 | 8650 | η Peg | 113503 | 8739 | 52 Peg | 114844 | 8842 | 61 Peg | 116076 | 8930 | 14 And |
| 112158 | 8650 | 44 Peg | 113532 | 8740 | WX PsA | 114996 | 8848 | γ Tuc | 116118 | 8932 | 100 Aqr |
| 112374 | 8655 | η Gru | 113521 | 8742 | 2 Psc | 114939 | 8850 | 92 Aqr | 116119 | 8933 | V354 Peg |
| 112242 | 8656 | 13 Lac | 113638 | 8747 | ζ Gru | 114939 | 8850 | x Aqr | 116146 | 8934 | 13 Psc |
| 112358 | 8660 | 45 Peg | 113610 | 8750 | 3 Psc | 114939 | 8850 | x Aqr | 116231 | 8937 | β Scl |
| 112781 | 8663 | ξ Oct | 113561 | 8752 | V509 Cas | 114831 | 8851 | V388 Cep | 116247 | 8939 | 101 Aqr |
| 112781 | 8663 | ξ Oct | 113674 | 8757 | 81 Aqr | 114971 | 8852 | 6 Psc | 116247 | 8939 | b ³ Aqr |
| 112447 | 8665 | 46 Peg | 113640 | 8758 | V378 And | 114971 | 8852 | γ Psc | 116264 | 8940 | HW Peg |
| 112447 | 8665 | ξ Peg | 113726 | 8762 | 1 And | 114904 | 8854 | V649 Cas | 116264 | 8940 | 71 Peg |
| 112440 | 8667 | 47 Peg | 113726 | 8762 | o And | 115033 | 8858 | ψ ² Aqr | 116310 | 8943 | 72 Peg |
| 112440 | 8667 | λ Peg | 113726 | 8762 | o And | 115033 | 8858 | ψ ² Aqr | 116323 | 8944 | 14 Psc |
| 112529 | 8670 | 68 Aqr | 113781 | 8763 | 82 Aqr | 115033 | 8858 | 93 Aqr | 116354 | 8947 | 15 And |
| 112542 | 8673 | 69 Aqr | 113788 | 8766 | 2 And | 115054 | 8859 | φ Gru | 116355 | 8948 | 73 Peg |
| 112542 | 8673 | τ ¹ Aqr | 113860 | 8767 | π PsA | 115022 | 8860 | 8 And | 116389 | 8949 | ι Phe |
| 112623 | 8675 | ε Gru | 113860 | 8767 | π PsA | 115036 | 8861 | ET And | 116389 | 8949 | ι Phe |
| 112615 | 8676 | FM Aqr | 113802 | 8768 | LN And | 115836 | 8862 | τ Oct | 116495 | 8954 | 16 Psc |

Nombre de estrellas (Catálogo Hiparco), 2020

| Estrella | | | Estrella | | | Estrella | | | Estrella | | |
|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|----------|------|--------------------|
| NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre | NH | NBSC | nombre |
| 116592 | 8960 | 74 Peg | 116928 | 8984 | 18 Psc | 117447 | 9018 | V566 Cas | 117863 | 9045 | ρ Cas |
| 116584 | 8961 | λ And | 116971 | 8988 | 105 Aqr | 117447 | 9018 | 6 Cas | 117887 | 9047 | XZ Psc |
| 116584 | 8961 | λ And | 116971 | 8988 | ω ² Aqr | 117491 | 9022 | 21 Psc | 117927 | 9048 | 26 Psc |
| 116584 | 8961 | 16 And | 116948 | 8989 | V816 Cas | 117503 | 9024 | OU And | 117931 | 9049 | AL Scl |
| 116611 | 8963 | KS Peg | 117020 | 8991 | 77 Peg | 117500 | 9025 | 79 Peg | 117957 | 9052 | V373 Cas |
| 116611 | 8963 | 75 Peg | 117054 | 8992 | R Aqr | 117628 | 9030 | HH Peg | 118027 | 9056 | V Cep |
| 116631 | 8965 | 17 And | 117073 | 8997 | 78 Peg | 117628 | 9030 | 80 Peg | 118114 | 9061 | γ ² Oct |
| 116631 | 8965 | ι And | 117089 | 8998 | i ¹ Aqr | 117629 | 9031 | ET Aqr | 118121 | 9062 | η Tuc |
| 116737 | 8966 | θ Phe | 117089 | 8998 | 106 Aqr | 117629 | 9031 | i ³ Aqr | 118131 | 9064 | ψ Peg |
| 116709 | 8967 | 18 And | 117218 | 9002 | i ² Aqr | 117629 | 9031 | 108 Aqr | 118131 | 9064 | 84 Peg |
| 116758 | 8968 | 102 Aqr | 117218 | 9002 | 107 Aqr | 117689 | 9032 | γ ¹ Oct | 118178 | 9065 | 1 Cet |
| 116758 | 8968 | ω ¹ Aqr | 117221 | 9003 | ψ And | 117683 | 9033 | 22 Psc | 118188 | 9066 | R Cas |
| 116771 | 8969 | 17 Psc | 117221 | 9003 | 20 And | 117718 | 9036 | φ Peg | 118209 | 9067 | 27 Psc |
| 116771 | 8969 | ι Psc | 117245 | 9004 | TX Psc | 117718 | 9036 | 81 Peg | 118234 | 9069 | π Phe |
| 116727 | 8974 | 35 Cep | 117245 | 9004 | 19 Psc | 117718 | 9036 | φ Peg | 118214 | 9070 | LQ And |
| 116727 | 8974 | γ Cep | 117315 | 9006 | σ Phe | 117730 | 9039 | HT Peg | 118243 | 9071 | σ Cas |
| 116820 | 8975 | μ Scl | 117301 | 9008 | τ Cas | 117730 | 9039 | 82 Peg | 118243 | 9071 | 8 Cas |
| 116805 | 8976 | 19 And | 117301 | 9008 | 5 Cas | 117761 | 9041 | 24 Psc | 118268 | 9072 | 28 Psc |
| 116805 | 8976 | κ And | 117375 | 9012 | 20 Psc | 117774 | 9042 | 25 Psc | 118268 | 9072 | ω Psc |
| 116889 | 8980 | 103 Aqr | 117452 | 9016 | δ Scl | 117863 | 9045 | 7 Cas | 118277 | 9073 | BU Scl |
| 116901 | 8982 | 104 Aqr | 117430 | 9017 | V650 Cas | 117863 | 9045 | ρ Cas | 118322 | 9076 | ε Tuc |
| 116928 | 8984 | λ Psc | | | | | | | | | |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----|----|------|-----|----|------|-----------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 118243 | 0 | 0 | 3.5 | +55 | 52 | 8.4 | 0.014631 | +55.869013 | 4.88 | -0.071 | -0.05 | B1V... |
| 118268 | 0 | 0 | 21.9 | +6 | 58 | 36.5 | 0.091326 | +6.976811 | 4.03 | 0.419 | 0.49 | F4IV |
| 118322 | 0 | 0 | 58.0 | -65 | 27 | 47.3 | 0.241875 | -65.463143 | 4.49 | -0.075 | -0.04 | B9IV |
| 122 | 0 | 2 | 37.3 | -76 | 57 | 9.4 | 0.655443 | -76.952599 | 4.78 | 1.254 | 1.26 | K2III |
| 154 | 0 | 3 | 0.7 | -5 | 54 | 0.7 | 0.752841 | -5.900195 | 4.37 | 1.631 | 2.35 | M3III |
| 301 | 0 | 4 | 47.3 | -17 | 13 | 19.0 | 1.197094 | -17.221935 | 4.55 | -0.047 | -0.03 | B9IVn |
| 355 | 0 | 5 | 33.0 | -10 | 23 | 43.8 | 1.387626 | -10.395504 | 4.99 | 1.619 | 1.64 | K3Ibvar |
| 443 | 0 | 6 | 23.1 | -5 | 35 | 35.0 | 1.596217 | -5.593053 | 4.61 | 1.029 | 1.04 | K1III |
| 677 | 0 | 9 | 27.1 | +29 | 12 | 12.8 | 2.362882 | +29.203553 | 2.07 | -0.038 | -0.10 | B9p |
| 746 | 0 | 10 | 17.0 | +59 | 15 | 46.0 | 2.570962 | +59.262787 | 2.28 | 0.380 | 0.40 | F2III-IV |
| 765 | 0 | 10 | 26.7 | -45 | 38 | 3.9 | 2.611214 | -45.634421 | 3.88 | 1.013 | 1.00 | K0III |
| 910 | 0 | 12 | 18.4 | -15 | 21 | 19.8 | 3.076600 | -15.355512 | 4.89 | 0.487 | 0.59 | F5V |
| 1067 | 0 | 14 | 17.6 | +15 | 17 | 50.8 | 3.573495 | +15.297457 | 2.83 | -0.190 | -0.22 | B2IV |
| 1168 | 0 | 15 | 40.0 | +20 | 19 | 14.1 | 3.916634 | +20.320576 | 4.79 | 1.572 | 1.93 | M2III |
| 1170 | 0 | 15 | 40.8 | -18 | 49 | 9.9 | 3.919959 | -18.819412 | 4.44 | 1.640 | 1.96 | M1III |
| 1366 | 0 | 18 | 10.1 | +38 | 47 | 43.1 | 4.542221 | +38.795312 | 4.61 | 0.059 | 0.07 | A2V |
| 1473 | 0 | 19 | 24.3 | +36 | 53 | 55.4 | 4.851104 | +36.898715 | 4.51 | 0.054 | 0.06 | A2V |
| 1562 | 0 | 20 | 28.3 | -8 | 42 | 37.6 | 5.117998 | -8.710451 | 3.56 | 1.214 | 1.13 | K2III |
| 1599 | 0 | 21 | 7.4 | -64 | 45 | 16.8 | 5.280890 | -64.754663 | 4.23 | 0.576 | 0.65 | F9V |
| 2021 | 0 | 26 | 47.7 | -77 | 8 | 20.7 | 6.698642 | -77.139075 | 2.82 | 0.618 | 0.68 | G2IV |
| 2072 | 0 | 27 | 12.4 | -43 | 33 | 58.7 | 6.801642 | -43.566308 | 3.93 | 0.175 | 0.20 | A7V |
| 2081 | 0 | 27 | 17.6 | -42 | 11 | 40.6 | 6.823334 | -42.194612 | 2.40 | 1.083 | 1.11 | K0III... |
| 2210 | 0 | 28 | 56.5 | -32 | 53 | 39.2 | 7.235418 | -32.894211 | 4.86 | 1.634 | 2.32 | M2/M3III |
| 2472 | 0 | 32 | 24.0 | -48 | 41 | 25.4 | 8.099846 | -48.690398 | 4.76 | 0.018 | 0.01 | A0V |
| 2484 | 0 | 32 | 28.5 | -62 | 50 | 43.9 | 8.118698 | -62.845518 | 4.36 | -0.064 | -0.02 | B9V |
| 2487 | 0 | 32 | 29.3 | -62 | 51 | 10.1 | 8.122082 | -62.852815 | 4.53 | 0.147 | 0.14 | A2V |
| 2505 | 0 | 32 | 54.9 | +54 | 38 | 6.7 | 8.228755 | +54.635185 | 4.74 | -0.098 | -0.08 | B8Vn |
| 2599 | 0 | 34 | 10.9 | +63 | 2 | 40.8 | 8.545339 | +63.044660 | 4.17 | 0.130 | 0.17 | B1Ia |
| 2912 | 0 | 37 | 58.9 | +33 | 49 | 54.9 | 9.495351 | +33.831918 | 4.34 | -0.123 | -0.08 | B5V |
| 2920 | 0 | 38 | 7.5 | +54 | 0 | 34.0 | 9.531227 | +54.009443 | 3.69 | -0.196 | -0.23 | B2IV |
| 3031 | 0 | 39 | 38.6 | +29 | 25 | 22.1 | 9.911012 | +29.422796 | 4.34 | 0.871 | 0.92 | G5III... |
| 3092 | 0 | 40 | 25.7 | +30 | 58 | 22.6 | 10.107193 | +30.972952 | 3.27 | 1.268 | 1.23 | K3III... |
| 3179 | 0 | 41 | 41.0 | +56 | 38 | 58.0 | 10.420835 | +56.649435 | 2.24 | 1.170 | 1.13 | K0II-IIIvar |
| 3245 | 0 | 42 | 17.4 | -45 | 58 | 22.0 | 10.572405 | -45.972782 | 4.59 | 0.953 | 0.95 | G8III |
| 3300 | 0 | 43 | 13.1 | +50 | 37 | 28.7 | 10.804643 | +50.624633 | 4.80 | -0.105 | -0.10 | B2.5V |
| 3405 | 0 | 44 | 16.1 | -57 | 21 | 3.4 | 11.067158 | -57.350940 | 4.36 | 0.024 | 0.02 | A0IV |
| 3414 | 0 | 44 | 36.7 | +47 | 8 | 10.9 | 11.152826 | +47.136352 | 4.95 | 0.170 | 0.19 | A5V |
| 3419 | 0 | 44 | 37.0 | -17 | 52 | 27.9 | 11.154308 | -17.874417 | 2.04 | 1.019 | 1.00 | K0III |
| 3455 | 0 | 45 | 13.4 | -10 | 29 | 53.6 | 11.305976 | -10.498235 | 4.77 | 0.998 | 0.98 | K0IIIvar |
| 3504 | 0 | 45 | 52.6 | +48 | 23 | 46.4 | 11.469293 | +48.396212 | 4.48 | -0.069 | 0.00 | B5III |
| 3693 | 0 | 48 | 25.8 | +24 | 22 | 42.1 | 12.107402 | +24.378354 | 4.08 | 1.100 | 1.06 | K1II |
| 3786 | 0 | 49 | 44.9 | +7 | 41 | 46.6 | 12.436961 | +7.696290 | 4.44 | 1.500 | 1.58 | K5III |
| 3801 | 0 | 50 | 0.4 | +51 | 4 | 46.5 | 12.501500 | +51.079583 | 4.90 | -0.091 | -0.07 | B9II |
| 3821 | 0 | 50 | 21.4 | +57 | 55 | 24.6 | 12.589317 | +57.923511 | 3.46 | 0.587 | 0.66 | G0V SB |
| 3881 | 0 | 50 | 57.1 | +41 | 11 | 24.6 | 12.738065 | +41.190177 | 4.53 | -0.136 | -0.14 | B5V SB |
| 4147 | 0 | 54 | 3.4 | -1 | 2 | 0.0 | 13.514225 | -1.033337 | 4.78 | 1.550 | 1.66 | M0III |
| 4151 | 0 | 54 | 18.6 | +61 | 14 | 9.3 | 13.577475 | +61.235909 | 4.80 | 0.540 | 0.61 | F8V |
| 4292 | 0 | 56 | 14.1 | +59 | 4 | 59.7 | 14.058626 | +59.083240 | 4.83 | 1.216 | 1.19 | K2III |
| 4422 | 0 | 57 | 54.1 | +59 | 17 | 28.9 | 14.475317 | +59.291371 | 4.62 | 0.957 | 1.01 | G8III-IV |
| 4427 | 0 | 57 | 57.8 | +60 | 49 | 38.2 | 14.490633 | +60.827279 | 2.15 | -0.046 | -0.02 | B0IV:evar |
| 4436 | 0 | 57 | 53.9 | +38 | 36 | 36.4 | 14.474612 | +38.610110 | 3.86 | 0.130 | 0.14 | A5V |
| 4463 | 0 | 58 | 18.3 | +23 | 31 | 40.4 | 14.576390 | +23.527900 | 4.40 | 0.940 | 0.94 | G8III-IV |
| 4577 | 0 | 59 | 35.5 | -29 | 14 | 49.5 | 14.897945 | -29.247075 | 4.30 | -0.154 | -0.12 | B7IIIp |
| 4906 | 1 | 4 | 0.6 | +8 | 0 | 0.2 | 16.002403 | +8.000043 | 4.27 | 0.952 | 0.98 | K0III |
| 5165 | 1 | 6 | 59.6 | -46 | 36 | 32.0 | 16.748469 | -46.608901 | 3.32 | 0.885 | 0.90 | G8IIvar |
| 5348 | 1 | 9 | 14.5 | -55 | 8 | 11.7 | 17.310465 | -55.136588 | 3.94 | -0.120 | -0.08 | B6V + B0V |
| 5364 | 1 | 9 | 37.3 | -10 | 4 | 26.6 | 17.405260 | -10.074069 | 3.46 | 1.161 | 1.11 | K2III |
| 5372 | 1 | 11 | 58.0 | +86 | 21 | 56.9 | 17.991489 | +86.365804 | 4.24 | 1.213 | 1.16 | K2II-III |
| 5434 | 1 | 10 | 42.1 | +47 | 21 | 1.9 | 17.675420 | +47.350536 | 4.26 | 0.012 | -0.02 | B7III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | δ | | Espectro | |
|----------|----------|----|------|----------|----|------|-----------|------------|----------|--------|----------|-------------|
| | NH | h | m | s | ° | ' | " | ° | ' | V | | U-V |
| 5447 | 1 | 10 | 53.2 | +35 | 43 | 43.4 | 17.721588 | +35.728718 | 2.07 | 1.576 | 1.74 | M0IIIvar |
| 5542 | 1 | 12 | 21.9 | +55 | 15 | 30.1 | 18.091077 | +55.258361 | 4.34 | 0.170 | 0.19 | A7Vvar |
| 5571 | 1 | 12 | 33.6 | +21 | 8 | 35.2 | 18.139898 | +21.143118 | 4.66 | 1.024 | 0.99 | K0III |
| 5586 | 1 | 12 | 47.7 | +30 | 11 | 52.5 | 18.198803 | +30.197921 | 4.51 | 1.092 | 1.05 | K0III-IV... |
| 5742 | 1 | 14 | 52.0 | +24 | 41 | 30.3 | 18.716698 | +24.691762 | 4.67 | 1.047 | 1.02 | K0III... |
| 5862 | 1 | 16 | 6.4 | -45 | 25 | 21.8 | 19.026627 | -45.422723 | 4.97 | 0.571 | 0.62 | F8V |
| 5896 | 1 | 16 | 27.7 | -68 | 46 | 2.4 | 19.115258 | -68.767344 | 4.25 | 0.480 | 0.55 | F6IV |
| 6193 | 1 | 20 | 35.9 | +27 | 22 | 16.4 | 20.149610 | +27.371219 | 4.74 | 0.032 | 0.10 | A3V |
| 6242 | 1 | 21 | 23.2 | +58 | 20 | 19.3 | 20.346816 | +58.338704 | 4.95 | 0.683 | 0.93 | F0Ia |
| 6411 | 1 | 23 | 33.4 | +45 | 38 | 8.0 | 20.889206 | +45.635546 | 4.87 | 1.077 | 1.04 | K0III-IV |
| 6537 | 1 | 25 | 2.9 | -8 | 4 | 40.7 | 21.262167 | -8.077969 | 3.60 | 1.065 | 1.05 | K0III |
| 6670 | 1 | 26 | 37.7 | -14 | 29 | 33.9 | 21.657154 | -14.492743 | 4.90 | 1.231 | 1.29 | K2III |
| 6686 | 1 | 27 | 10.5 | +60 | 20 | 27.9 | 21.793622 | +60.341089 | 2.66 | 0.160 | 0.19 | A5Vv SB |
| 6692 | 1 | 27 | 24.6 | +68 | 14 | 10.4 | 21.852433 | +68.236210 | 4.72 | 1.047 | 1.01 | K0III |
| 6813 | 1 | 28 | 53.5 | +45 | 30 | 42.6 | 22.223117 | +45.511831 | 4.83 | 0.421 | 0.49 | F5IV |
| 6867 | 1 | 29 | 15.2 | -43 | 12 | 49.5 | 22.313266 | -43.213736 | 3.41 | 1.542 | 1.73 | K5II-III |
| 7007 | 1 | 31 | 15.7 | +6 | 14 | 55.9 | 22.815360 | +6.248850 | 4.84 | 1.372 | 1.42 | K4III |
| 7083 | 1 | 32 | 6.1 | -48 | 58 | 0.3 | 23.025580 | -48.966742 | 3.93 | 0.972 | 1.00 | K0III-IV |
| 7097 | 1 | 32 | 35.0 | +15 | 27 | 3.0 | 23.145937 | +15.450839 | 3.62 | 0.974 | 0.94 | G8III |
| 7294 | 1 | 35 | 17.3 | +59 | 20 | 11.2 | 23.822041 | +59.336438 | 4.68 | 0.991 | 1.01 | K0III |
| 7513 | 1 | 38 | 0.5 | +41 | 30 | 26.3 | 24.502260 | +41.507303 | 4.10 | 0.536 | 0.58 | F8V |
| 7588 | 1 | 38 | 28.5 | -57 | 7 | 59.4 | 24.618606 | -57.133162 | 0.45 | -0.158 | -0.17 | B3Vp |
| 7607 | 1 | 39 | 15.7 | +48 | 43 | 52.7 | 24.815445 | +48.731296 | 3.59 | 1.275 | 1.23 | K3III |
| 7818 | 1 | 41 | 47.9 | +40 | 40 | 48.3 | 25.449662 | +40.680088 | 4.96 | -0.068 | -0.06 | B8III |
| 7884 | 1 | 42 | 30.0 | +5 | 35 | 26.3 | 25.625160 | +5.590637 | 4.45 | 1.347 | 1.37 | K3III |
| 7918 | 1 | 43 | 2.5 | +42 | 42 | 55.0 | 25.760487 | +42.715272 | 4.96 | 0.618 | 0.67 | G2V |
| 7999 | 1 | 43 | 45.8 | -3 | 35 | 15.6 | 25.940698 | -3.587664 | 4.98 | 1.378 | 1.26 | K3II-III |
| 8068 | 1 | 44 | 57.4 | +50 | 47 | 28.1 | 26.239374 | +50.791153 | 4.01 | -0.098 | -0.08 | B2Vpe |
| 8102 | 1 | 45 | 1.3 | -15 | 49 | 49.0 | 26.255396 | -15.830286 | 3.49 | 0.727 | 0.82 | G8V |
| 8198 | 1 | 46 | 28.7 | +9 | 15 | 36.3 | 26.619741 | +9.260089 | 4.26 | 0.942 | 0.93 | K0III |
| 8497 | 1 | 50 | 35.6 | -10 | 35 | 8.7 | 27.648148 | -10.585736 | 4.66 | 0.333 | 0.38 | F3III |
| 8645 | 1 | 52 | 28.4 | -10 | 14 | 4.2 | 28.118271 | -10.234486 | 3.74 | 1.136 | 1.07 | K2III |
| 8796 | 1 | 54 | 15.4 | +29 | 40 | 40.4 | 28.564043 | +29.677893 | 3.42 | 0.488 | 0.55 | F6IV |
| 8832 | 1 | 54 | 39.5 | +19 | 23 | 36.8 | 28.664788 | +19.393562 | 3.88 | -0.047 | -0.03 | A1p Si |
| 8833 | 1 | 54 | 37.2 | +3 | 17 | 16.6 | 28.654806 | +3.287932 | 4.61 | 0.928 | 0.93 | K0III SB |
| 8837 | 1 | 54 | 27.9 | -46 | 12 | 10.5 | 28.616401 | -46.202906 | 4.39 | 1.597 | 2.49 | M4III SB |
| 8886 | 1 | 55 | 53.6 | +63 | 46 | 12.0 | 28.973172 | +63.770008 | 3.35 | -0.150 | -0.12 | B2pvar |
| 8903 | 1 | 55 | 46.6 | +20 | 54 | 26.7 | 28.944190 | +20.907426 | 2.64 | 0.165 | 0.18 | A5V... |
| 8928 | 1 | 55 | 27.4 | -67 | 32 | 48.8 | 28.864264 | -67.546899 | 4.68 | 0.931 | 0.95 | G5III |
| 9007 | 1 | 56 | 45.2 | -51 | 30 | 27.4 | 29.188296 | -51.507601 | 3.69 | 0.844 | 0.90 | G5IV |
| 9009 | 1 | 57 | 37.4 | +68 | 47 | 5.3 | 29.406015 | +68.784796 | 4.97 | -0.084 | -0.06 | B8III |
| 9061 | 1 | 57 | 37.8 | -22 | 25 | 38.7 | 29.407400 | -22.427427 | 4.92 | 1.434 | 1.45 | K3III |
| 9095 | 1 | 57 | 58.7 | -47 | 17 | 8.9 | 29.494695 | -47.285806 | 4.82 | 0.864 | 0.89 | G8III |
| 9153 | 1 | 59 | 4.5 | +23 | 41 | 42.6 | 29.768930 | +23.695176 | 4.79 | 0.290 | 0.33 | F0V |
| 9236 | 1 | 59 | 24.9 | -61 | 28 | 14.4 | 29.853710 | -61.470662 | 2.86 | 0.290 | 0.34 | F0V |
| 9347 | 2 | 0 | 58.2 | -20 | 58 | 45.4 | 30.242690 | -20.979266 | 3.99 | 1.554 | 1.79 | K5/M0III |
| 9480 | 2 | 3 | 40.8 | +71 | 0 | 18.3 | 30.919894 | +71.005076 | 4.49 | 0.164 | 0.20 | A3IV |
| 9487 | 2 | 3 | 6.6 | +2 | 51 | 43.0 | 30.777425 | +2.861933 | 3.82 | 0.024 | 0.05 | A2 |
| 9505 | 2 | 3 | 40.9 | +54 | 35 | 8.1 | 30.920310 | +54.585593 | 4.99 | -0.071 | -0.02 | B8III |
| 9598 | 2 | 5 | 13.7 | +72 | 31 | 8.9 | 31.307110 | +72.519148 | 3.95 | -0.002 | 0.03 | A2V |
| 9640 | 2 | 5 | 10.0 | +42 | 25 | 37.6 | 31.291594 | +42.427118 | 2.10 | 1.370 | 1.37 | B8V |
| 9677 | 2 | 5 | 24.5 | -29 | 11 | 57.1 | 31.352233 | -29.199203 | 4.68 | -0.156 | -0.12 | B9.5p (Si) |
| 9884 | 2 | 8 | 20.0 | +23 | 33 | 30.4 | 32.083411 | +23.558450 | 2.01 | 1.151 | 1.13 | K2III |
| 9977 | 2 | 9 | 43.9 | +37 | 57 | 19.1 | 32.433085 | +37.955313 | 4.78 | 0.120 | 0.16 | A5IV-V |
| 10053 | 2 | 10 | 35.7 | +26 | 2 | 9.4 | 32.648569 | +26.035947 | 4.98 | 0.339 | 0.40 | F2III |
| 10064 | 2 | 10 | 46.2 | +35 | 4 | 59.8 | 32.692621 | +35.083278 | 3.00 | 0.140 | 0.17 | A5III |
| 10280 | 2 | 13 | 34.0 | +30 | 23 | 53.4 | 33.391679 | +30.398166 | 4.94 | 0.770 | 0.81 | F5V comp SB |
| 10324 | 2 | 14 | 5.4 | +8 | 56 | 30.9 | 33.522292 | +8.941919 | 4.36 | 0.878 | 0.90 | G8II: |
| 10340 | 2 | 14 | 31.0 | +44 | 19 | 36.3 | 33.629355 | +44.326760 | 4.84 | 1.476 | 1.49 | K4III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|-----------|------------|------|--------|-------|---------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 10602 | 2 | 17 | 14.5 | -51 | 25 | 4.5 | 34.310303 | -51.417928 | 3.56 | -0.120 | -0.11 | B8IV-V |
| 10644 | 2 | 18 | 18.7 | +34 | 19 | 1.2 | 34.577785 | +34.316990 | 4.84 | 0.607 | 0.76 | G0V |
| 10670 | 2 | 18 | 32.4 | +33 | 56 | 27.5 | 34.634949 | +33.940965 | 4.03 | 0.019 | -0.02 | A1Vnn |
| 11001 | 2 | 22 | 7.2 | -68 | 33 | 59.3 | 35.529992 | -68.566485 | 4.08 | 0.034 | 0.04 | A3V |
| 11313 | 2 | 27 | 0.2 | +50 | 22 | 12.7 | 36.750748 | +50.370188 | 4.73 | 1.532 | 1.58 | K4III |
| 11345 | 2 | 26 | 56.5 | -12 | 11 | 56.2 | 36.735317 | -12.198945 | 4.88 | -0.027 | -0.01 | A0V |
| 11407 | 2 | 27 | 44.2 | -47 | 36 | 45.2 | 36.934055 | -47.612545 | 4.24 | -0.136 | -0.11 | B5IV |
| 11484 | 2 | 29 | 15.1 | +8 | 33 | 3.2 | 37.312938 | +8.550895 | 4.30 | -0.053 | -0.06 | B9III |
| 11569 | 2 | 30 | 47.0 | +67 | 29 | 35.6 | 37.695879 | +67.493234 | 4.46 | 0.153 | 0.17 | A5p Sr |
| 11767 | 2 | 57 | 49.4 | +89 | 21 | 0.0 | 44.455661 | +89.350011 | 1.97 | 0.636 | 0.70 | F7:IIb-IIv SB |
| 11783 | 2 | 33 | 3.6 | -15 | 9 | 20.7 | 38.264800 | -15.155747 | 4.74 | 0.454 | 0.55 | F5V |
| 11918 | 2 | 34 | 44.6 | -28 | 8 | 35.3 | 38.685686 | -28.143138 | 4.96 | -0.050 | -0.04 | B9V |
| 12093 | 2 | 36 | 57.2 | +5 | 40 | 54.0 | 39.238208 | +5.681672 | 4.87 | 0.880 | 0.89 | G8III |
| 12387 | 2 | 40 | 32.1 | +0 | 24 | 57.3 | 40.133841 | +0.415908 | 4.08 | -0.212 | -0.22 | B2IV |
| 12390 | 2 | 40 | 33.4 | -11 | 47 | 9.9 | 40.139215 | -11.786074 | 4.83 | 0.447 | 0.53 | F5V |
| 12394 | 2 | 39 | 54.7 | -68 | 10 | 46.0 | 39.977910 | -68.179449 | 4.12 | -0.061 | -0.07 | B9III |
| 12413 | 2 | 40 | 34.8 | -42 | 48 | 15.8 | 40.145193 | -42.804400 | 4.74 | 0.061 | 0.09 | A2V |
| 12486 | 2 | 41 | 28.5 | -39 | 46 | 6.4 | 40.368939 | -39.768457 | 4.11 | 1.006 | 1.05 | K0III |
| 12623 | 2 | 43 | 33.0 | +40 | 16 | 45.9 | 40.887656 | +40.279411 | 4.91 | 0.582 | 0.62 | F9V |
| 12706 | 2 | 44 | 21.9 | +3 | 19 | 16.3 | 41.091263 | +3.321188 | 3.47 | 0.093 | 0.10 | A3V |
| 12719 | 2 | 44 | 39.6 | +27 | 47 | 35.5 | 41.165023 | +27.793194 | 4.65 | -0.122 | -0.12 | B3V |
| 12770 | 2 | 45 | 5.9 | -13 | 46 | 22.2 | 41.274745 | -13.772822 | 4.24 | -0.122 | -0.11 | B7IV |
| 12777 | 2 | 45 | 36.7 | +49 | 18 | 49.6 | 41.402763 | +49.313771 | 4.10 | 0.514 | 0.59 | F7V |
| 12828 | 2 | 46 | 3.2 | +10 | 11 | 58.6 | 41.513347 | +10.199606 | 4.27 | 0.311 | 0.37 | F1III-IV |
| 12843 | 2 | 46 | 3.6 | -18 | 29 | 12.3 | 41.515050 | -18.486760 | 4.47 | 0.481 | 0.54 | F5/F6V |
| 12876 | 2 | 45 | 52.0 | -67 | 31 | 50.9 | 41.466628 | -67.530811 | 4.83 | 0.058 | 0.08 | A2IV/V |
| 13061 | 2 | 49 | 8.1 | +29 | 19 | 51.8 | 42.283768 | +29.331046 | 4.52 | 1.112 | 1.04 | K1III |
| 13147 | 2 | 49 | 56.9 | -32 | 19 | 14.6 | 42.487041 | -32.320721 | 4.45 | 0.981 | 1.00 | G8III |
| 13209 | 2 | 51 | 11.7 | +27 | 20 | 37.7 | 42.798915 | +27.343792 | 3.61 | -0.100 | -0.08 | B8Vn |
| 13244 | 2 | 50 | 22.0 | -74 | 58 | 59.2 | 42.591681 | -74.983107 | 4.76 | 1.337 | 1.27 | K3III |
| 13254 | 2 | 51 | 53.2 | +38 | 24 | 6.3 | 42.971474 | +38.401753 | 4.22 | 0.343 | 0.41 | F2III |
| 13268 | 2 | 52 | 12.4 | +55 | 58 | 44.6 | 43.051819 | +55.979061 | 3.77 | 1.690 | 1.64 | K3Ib comp SB |
| 13288 | 2 | 51 | 58.2 | -20 | 55 | 13.8 | 42.992326 | -20.920487 | 4.76 | 0.906 | 0.91 | K0III |
| 13328 | 2 | 52 | 47.0 | +35 | 8 | 34.1 | 43.195921 | +35.142796 | 4.56 | 1.554 | 1.67 | K5III |
| 13531 | 2 | 55 | 43.4 | +52 | 50 | 41.6 | 43.931004 | +52.844887 | 3.93 | 0.758 | 0.80 | G4III... |
| 13701 | 2 | 57 | 25.8 | -8 | 49 | 3.4 | 44.357536 | -8.817604 | 3.89 | 1.088 | 1.08 | K1III-IV |
| 13847 | 2 | 59 | 2.3 | -40 | 13 | 24.1 | 44.759613 | -40.223366 | 2.88 | 0.128 | 0.17 | A4III+... |
| 13879 | 3 | 0 | 4.8 | +39 | 44 | 36.2 | 45.019939 | +39.743395 | 4.68 | 0.065 | 0.11 | A2Vn |
| 13884 | 2 | 59 | 11.3 | -63 | 59 | 24.8 | 44.797138 | -63.990211 | 4.98 | 0.126 | 0.14 | A5III |
| 13905 | 3 | 0 | 20.3 | +35 | 15 | 50.2 | 45.084531 | +35.263955 | 4.94 | 1.235 | 1.19 | K2III |
| 13914 | 3 | 0 | 23.3 | +21 | 25 | 16.1 | 45.097141 | +21.421152 | 4.63 | 0.048 | 0.05 | A2Vs |
| 13954 | 3 | 0 | 49.0 | +8 | 59 | 16.4 | 45.204160 | +8.987877 | 4.71 | -0.109 | -0.09 | B6III |
| 14135 | 3 | 3 | 21.2 | +4 | 10 | 8.4 | 45.838346 | +4.168988 | 2.54 | 1.630 | 1.97 | M2III |
| 14146 | 3 | 3 | 17.8 | -23 | 32 | 42.4 | 45.824002 | -23.545099 | 4.08 | 0.163 | 0.18 | A4V |
| 14328 | 3 | 6 | 17.7 | +53 | 35 | 6.5 | 46.573605 | +53.585130 | 2.91 | 0.716 | 0.77 | G8III+... |
| 14354 | 3 | 6 | 29.9 | +38 | 55 | 5.8 | 46.624385 | +38.918289 | 3.32 | 1.528 | 2.76 | M3IIIvar |
| 14382 | 3 | 7 | 5.7 | +56 | 47 | 4.4 | 46.773940 | +56.784544 | 4.77 | 1.018 | 0.99 | K0II-III |
| 14576 | 3 | 9 | 30.6 | +41 | 1 | 59.4 | 47.377646 | +41.033157 | 2.09 | -0.003 | 0.02 | B8V |
| 14632 | 3 | 10 | 33.4 | +49 | 41 | 23.7 | 47.639174 | +49.689922 | 4.05 | 0.595 | 0.65 | G0V |
| 14668 | 3 | 10 | 53.3 | +44 | 56 | 1.6 | 47.721927 | +44.933776 | 3.79 | 0.980 | 0.94 | K0III |
| 14817 | 3 | 12 | 37.2 | +39 | 41 | 16.7 | 48.155133 | +39.687981 | 4.61 | 1.115 | 1.09 | K1III |
| 14838 | 3 | 12 | 48.3 | +19 | 48 | 10.5 | 48.201398 | +19.802905 | 4.35 | 1.033 | 0.96 | K2IIIvar |
| 14862 | 3 | 14 | 12.7 | +74 | 28 | 8.9 | 48.553042 | +74.469137 | 4.85 | 0.035 | 0.05 | A2Vnn |
| 14879 | 3 | 12 | 56.8 | -28 | 54 | 29.0 | 48.236858 | -28.908052 | 3.80 | 0.543 | 0.63 | F8V |
| 15110 | 3 | 16 | 5.0 | +21 | 7 | 8.6 | 49.020991 | +21.119067 | 4.87 | -0.007 | 0.02 | A1V |
| 15197 | 3 | 16 | 49.9 | -8 | 44 | 41.1 | 49.207724 | -8.744738 | 4.80 | 0.232 | 0.28 | A5m |
| 15382 | 3 | 19 | 16.5 | -22 | 26 | 14.1 | 49.818798 | -22.437248 | 4.86 | 0.904 | 0.91 | K0III |
| 15416 | 3 | 20 | 1.1 | +34 | 17 | 46.3 | 50.004648 | +34.296192 | 4.85 | 1.491 | 1.41 | K2II |
| 15457 | 3 | 20 | 26.3 | +3 | 26 | 38.8 | 50.109731 | +3.444104 | 4.84 | 0.681 | 0.73 | G5Vvar |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|-----------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 15474 | 3 | 20 | 25.8 | -21 | 41 | 3.6 | 50.107292 | -21.684326 | 3.70 | 1.614 | 2.42 | M3/M4III |
| 15510 | 3 | 20 | 44.6 | -42 | 59 | 33.1 | 50.185897 | -42.992540 | 4.26 | 0.711 | 0.79 | G8V |
| 15520 | 3 | 21 | 48.9 | +65 | 43 | 30.8 | 50.453895 | +65.725218 | 4.74 | -0.108 | -0.12 | B2.5Vne |
| 15549 | 3 | 21 | 35.1 | +29 | 7 | 16.9 | 50.396212 | +29.121349 | 4.47 | 1.555 | 1.61 | K2II-III |
| 15648 | 3 | 22 | 49.4 | +43 | 24 | 7.9 | 50.706039 | +43.402181 | 4.96 | 0.051 | 0.06 | A3V |
| 15863 | 3 | 25 | 47.8 | +49 | 55 | 56.8 | 51.449245 | +49.932437 | 1.79 | 0.481 | 0.63 | F5Ib |
| 15900 | 3 | 25 | 55.1 | +9 | 5 | 58.9 | 51.479737 | +9.099707 | 3.61 | 0.887 | 0.90 | G8III |
| 16083 | 3 | 28 | 17.0 | +9 | 48 | 10.2 | 52.070702 | +9.802829 | 3.73 | -0.082 | -0.07 | B9Vn |
| 16147 | 3 | 29 | 31.1 | +49 | 7 | 57.6 | 52.379687 | +49.132663 | 4.99 | -0.091 | -0.07 | B5V |
| 16228 | 3 | 30 | 44.7 | +60 | 0 | 35.4 | 52.686447 | +60.009823 | 4.21 | 0.419 | 0.58 | B9Ia |
| 16244 | 3 | 30 | 50.6 | +49 | 34 | 41.6 | 52.710898 | +49.578211 | 4.67 | -0.096 | -0.07 | B3V |
| 16245 | 3 | 29 | 44.4 | -62 | 51 | 56.9 | 52.435132 | -62.865818 | 4.71 | 0.410 | 0.49 | F5IV-V |
| 16281 | 3 | 31 | 33.9 | +58 | 56 | 52.5 | 52.891237 | +58.947918 | 4.55 | 0.489 | 0.79 | A0Ia SB: |
| 16335 | 3 | 32 | 1.8 | +48 | 3 | 51.4 | 53.007415 | +48.064268 | 4.36 | 1.367 | 1.42 | K3III |
| 16341 | 3 | 31 | 38.2 | -5 | 0 | 21.9 | 52.909097 | -5.006084 | 4.74 | -0.092 | -0.07 | B9Vs |
| 16369 | 3 | 32 | 0.5 | +13 | 0 | 20.0 | 53.001936 | +13.005565 | 4.14 | 1.112 | 1.01 | K0II-III... |
| 16537 | 3 | 33 | 53.9 | -9 | 23 | 24.2 | 53.474620 | -9.390048 | 3.72 | 0.881 | 0.94 | K2V |
| 16611 | 3 | 34 | 41.6 | -21 | 33 | 54.9 | 53.673538 | -21.565256 | 4.26 | -0.106 | -0.09 | B9V |
| 16826 | 3 | 37 | 57.4 | +48 | 15 | 32.6 | 54.488969 | +48.259060 | 4.32 | -0.058 | 0.07 | B5Ve |
| 16852 | 3 | 37 | 55.3 | +0 | 27 | 55.8 | 54.480301 | +0.465494 | 4.29 | 0.575 | 0.66 | F9V |
| 16870 | 3 | 37 | 49.9 | -40 | 12 | 29.3 | 54.457827 | -40.208142 | 4.57 | 1.023 | 1.07 | K0III |
| 17304 | 3 | 43 | 3.9 | -31 | 52 | 26.1 | 55.766093 | -31.873919 | 4.99 | -0.159 | -0.15 | B5III |
| 17313 | 3 | 43 | 41.0 | +34 | 1 | 45.1 | 55.920644 | +34.029207 | 4.97 | -0.048 | -0.03 | B0.5V |
| 17351 | 3 | 43 | 35.7 | -37 | 14 | 59.2 | 55.898706 | -37.249781 | 4.59 | 1.191 | 1.12 | K2IIICN... |
| 17358 | 3 | 44 | 23.6 | +47 | 51 | 4.6 | 56.098390 | +47.851269 | 3.01 | -0.125 | -0.07 | B5III SB |
| 17378 | 3 | 44 | 13.9 | -9 | 41 | 43.3 | 56.058000 | -9.695354 | 3.52 | 0.915 | 0.94 | K0IV |
| 17440 | 3 | 44 | 27.7 | -64 | 44 | 34.1 | 56.115548 | -64.742795 | 3.84 | 1.133 | 1.11 | K0IV SB |
| 17448 | 3 | 45 | 36.6 | +32 | 21 | 5.8 | 56.402423 | +32.351602 | 3.84 | 0.022 | 0.12 | B1III |
| 17499 | 3 | 46 | 5.8 | +24 | 10 | 34.6 | 56.524260 | +24.176285 | 3.72 | -0.105 | -0.09 | B6III |
| 17529 | 3 | 46 | 35.6 | +42 | 38 | 29.7 | 56.648494 | +42.641584 | 3.77 | 0.425 | 0.52 | F5IIvar |
| 17531 | 3 | 46 | 26.0 | +24 | 31 | 48.4 | 56.608151 | +24.530103 | 4.30 | -0.110 | -0.08 | B6V |
| 17573 | 3 | 47 | 3.0 | +24 | 25 | 49.1 | 56.762672 | +24.430298 | 3.87 | -0.063 | -0.02 | B8III |
| 17587 | 3 | 47 | 51.0 | +63 | 24 | 27.3 | 56.962680 | +63.407590 | 4.78 | 0.747 | 0.79 | A3V... |
| 17593 | 3 | 47 | 6.8 | -12 | 2 | 18.7 | 56.778127 | -12.038535 | 4.43 | 1.604 | 1.89 | M1III |
| 17608 | 3 | 47 | 32.8 | +24 | 0 | 38.6 | 56.886758 | +24.010714 | 4.14 | -0.051 | 0.02 | B6IV |
| 17651 | 3 | 47 | 43.9 | -23 | 11 | 24.8 | 56.932718 | -23.190213 | 4.22 | 0.434 | 0.51 | F3/F5V |
| 17678 | 3 | 46 | 56.6 | -74 | 10 | 32.9 | 56.735932 | -74.175794 | 3.26 | 1.590 | 1.94 | M2III |
| 17702 | 3 | 48 | 42.4 | +24 | 10 | 1.2 | 57.176795 | +24.167007 | 2.85 | -0.086 | -0.01 | B7III |
| 17797 | 3 | 49 | 21.3 | -37 | 33 | 30.5 | 57.338781 | -37.558474 | 4.30 | -0.038 | -0.02 | A+... |
| 17847 | 3 | 50 | 23.1 | +24 | 6 | 52.5 | 57.596325 | +24.114574 | 3.62 | -0.070 | -0.03 | B8III |
| 17874 | 3 | 50 | 13.3 | -36 | 8 | 21.1 | 57.555483 | -36.139185 | 4.17 | 0.927 | 0.92 | G8III |
| 17884 | 3 | 51 | 25.2 | +65 | 35 | 13.2 | 57.854954 | +65.587009 | 4.39 | 1.870 | 2.58 | M1III |
| 17959 | 3 | 52 | 33.4 | +71 | 23 | 33.8 | 58.139080 | +71.392731 | 4.59 | 0.064 | 0.13 | A2IVn |
| 18216 | 3 | 54 | 35.1 | -24 | 33 | 9.8 | 58.646220 | -24.552710 | 4.64 | -0.136 | -0.13 | B5V |
| 18246 | 3 | 55 | 25.5 | +31 | 56 | 34.4 | 58.856386 | +31.942876 | 2.84 | 0.271 | 0.18 | B1Ib |
| 18255 | 3 | 55 | 19.4 | -2 | 53 | 43.6 | 58.830721 | -2.895442 | 4.46 | 0.672 | 0.73 | G8III |
| 18488 | 3 | 58 | 54.1 | +61 | 10 | 0.2 | 59.725528 | +61.166712 | 4.99 | 1.435 | 1.53 | K3I-II |
| 18505 | 3 | 59 | 15.1 | +63 | 7 | 48.2 | 59.812731 | +63.130068 | 4.95 | -0.074 | -0.01 | B9.5V |
| 18532 | 3 | 59 | 14.1 | +40 | 4 | 3.9 | 59.808917 | +40.067763 | 2.90 | -0.199 | -0.19 | B0.5V |
| 18543 | 3 | 58 | 59.2 | -13 | 27 | 5.2 | 59.746736 | -13.451437 | 2.97 | 1.588 | 1.78 | M1IIIb Ca-1 |
| 18597 | 3 | 59 | 4.5 | -61 | 20 | 33.9 | 59.768655 | -61.342741 | 4.56 | 1.590 | 1.85 | M2III |
| 18614 | 4 | 0 | 18.0 | +35 | 50 | 53.7 | 60.075160 | +35.848259 | 3.98 | 0.016 | 0.16 | O7.5Iab: |
| 18673 | 4 | 0 | 48.0 | -23 | 57 | 33.2 | 60.199867 | -23.959221 | 4.62 | -0.121 | -0.07 | Ap Si |
| 18724 | 4 | 1 | 49.1 | +12 | 32 | 48.5 | 60.454662 | +12.546796 | 3.41 | -0.099 | -0.08 | B3V + A |
| 18744 | 4 | 1 | 11.9 | -62 | 6 | 9.0 | 60.299467 | -62.102487 | 4.48 | 1.500 | 2.42 | M4III |
| 18772 | 4 | 1 | 38.3 | -61 | 1 | 18.8 | 60.409715 | -61.021877 | 4.97 | 1.386 | 1.41 | K4III |
| 18907 | 4 | 4 | 14.9 | +6 | 2 | 41.1 | 61.062258 | +6.044747 | 3.91 | 0.032 | 0.03 | A1V |
| 19018 | 4 | 6 | 10.5 | +59 | 12 | 36.9 | 61.543627 | +59.210254 | 5.00 | 0.495 | 0.69 | F0II |
| 19038 | 4 | 5 | 54.6 | +22 | 8 | 10.9 | 61.477669 | +22.136354 | 4.36 | 1.064 | 1.02 | K0III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----|----|------|-----|----|------|-----------|------------|------|--------|-------|------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 19167 | 4 | 8 | 7.2 | +50 | 24 | 17.7 | 62.030047 | +50.404916 | 4.25 | -0.011 | 0.08 | A0IVn |
| 19343 | 4 | 10 | 9.5 | +47 | 45 | 55.0 | 62.539418 | +47.765279 | 3.96 | -0.025 | 0.08 | B3Ve |
| 19515 | 4 | 11 | 32.1 | -41 | 56 | 27.7 | 62.883629 | -41.941026 | 4.93 | 0.334 | 0.41 | A9V |
| 19587 | 4 | 12 | 52.1 | -6 | 47 | 7.8 | 63.216961 | -6.785488 | 4.04 | 0.327 | 0.38 | F2II-III |
| 19740 | 4 | 15 | 3.4 | +9 | 18 | 51.7 | 63.764239 | +9.314348 | 4.84 | 0.799 | 0.86 | G5III |
| 19747 | 4 | 14 | 40.9 | -42 | 14 | 41.1 | 63.670525 | -42.244736 | 3.85 | 1.085 | 1.09 | K1III |
| 19777 | 4 | 15 | 22.3 | -10 | 12 | 24.0 | 63.842822 | -10.206662 | 4.87 | 1.156 | 1.12 | K3III |
| 19780 | 4 | 14 | 41.6 | -62 | 25 | 22.5 | 63.673329 | -62.422916 | 3.33 | 0.915 | 0.91 | G7III |
| 19811 | 4 | 16 | 17.4 | +40 | 32 | 1.5 | 64.072408 | +40.533758 | 4.67 | 1.007 | 1.07 | G5II comp |
| 19812 | 4 | 16 | 24.6 | +48 | 27 | 33.9 | 64.102675 | +48.459412 | 4.12 | 0.935 | 0.93 | G0Ib... |
| 19849 | 4 | 16 | 13.0 | -7 | 37 | 18.2 | 64.054316 | -7.621721 | 4.43 | 0.820 | 0.89 | K1V |
| 19860 | 4 | 16 | 39.0 | +8 | 56 | 32.0 | 64.162414 | +8.942217 | 4.27 | -0.054 | -0.02 | B3IV |
| 19893 | 4 | 16 | 33.9 | -51 | 26 | 8.6 | 64.141294 | -51.435735 | 4.26 | 0.312 | 0.37 | F4III |
| 19921 | 4 | 16 | 50.5 | -59 | 15 | 12.1 | 64.210230 | -59.253362 | 4.44 | 1.078 | 1.05 | K2IV |
| 19990 | 4 | 18 | 27.9 | +20 | 37 | 38.8 | 64.616350 | +20.627437 | 4.93 | 0.259 | 0.30 | A3m |
| 20042 | 4 | 18 | 40.3 | -33 | 44 | 57.8 | 64.667717 | -33.749387 | 3.55 | -0.108 | -0.09 | B9V |
| 20070 | 4 | 19 | 47.6 | +50 | 20 | 37.9 | 64.948354 | +50.343856 | 4.60 | 0.043 | 0.16 | A2V |
| 20205 | 4 | 20 | 57.8 | +15 | 40 | 32.0 | 65.240644 | +15.675563 | 3.65 | 0.981 | 0.95 | G8III |
| 20250 | 4 | 21 | 37.1 | +27 | 23 | 53.2 | 65.404505 | +27.398106 | 4.97 | 1.150 | 1.35 | K1III |
| 20252 | 4 | 21 | 44.8 | +34 | 36 | 51.9 | 65.436600 | +34.614424 | 4.93 | 0.950 | 0.94 | G8III |
| 20354 | 4 | 23 | 2.5 | +46 | 32 | 45.1 | 65.760573 | +46.545869 | 4.80 | -0.022 | 0.03 | B4IV |
| 20455 | 4 | 24 | 7.2 | +17 | 35 | 20.3 | 66.029951 | +17.588981 | 3.77 | 0.983 | 0.93 | G8III |
| 20535 | 4 | 24 | 48.5 | -33 | 58 | 13.1 | 66.202008 | -33.970307 | 3.97 | 1.468 | 1.53 | K4III |
| 20542 | 4 | 25 | 16.8 | +17 | 29 | 24.2 | 66.320123 | +17.490043 | 4.80 | 0.154 | 0.18 | A7V |
| 20635 | 4 | 26 | 35.7 | +22 | 20 | 20.9 | 66.648573 | +22.339137 | 4.21 | 0.136 | 0.16 | A7IV-V |
| 20648 | 4 | 26 | 40.7 | +17 | 58 | 23.5 | 66.669604 | +17.973192 | 4.30 | 0.049 | 0.08 | A2IV |
| 20711 | 4 | 27 | 32.2 | +22 | 51 | 30.3 | 66.884362 | +22.858407 | 4.28 | 0.263 | 0.32 | A8Vn |
| 20713 | 4 | 27 | 31.0 | +15 | 39 | 47.4 | 66.879064 | +15.663155 | 4.48 | 0.262 | 0.33 | F0V... |
| 20732 | 4 | 27 | 46.0 | +14 | 45 | 30.8 | 66.941725 | +14.758568 | 4.69 | 0.979 | 0.96 | G8III |
| 20877 | 4 | 29 | 36.8 | +16 | 24 | 14.0 | 67.403491 | +16.403886 | 4.96 | 1.137 | 1.12 | K2IIIvar |
| 20885 | 4 | 29 | 44.9 | +16 | 0 | 22.1 | 67.437123 | +16.006150 | 3.84 | 0.952 | 1.02 | G7III |
| 20889 | 4 | 29 | 49.0 | +19 | 13 | 27.3 | 67.454093 | +19.224255 | 3.53 | 1.014 | 1.04 | K0III |
| 20894 | 4 | 29 | 50.1 | +15 | 54 | 53.1 | 67.458822 | +15.914749 | 3.40 | 0.179 | 0.21 | A7III |
| 21029 | 4 | 31 | 44.2 | +16 | 14 | 13.2 | 67.934099 | +16.237013 | 4.78 | 0.170 | 0.19 | A6IV |
| 21139 | 4 | 32 | 55.7 | -0 | 0 | 5.4 | 68.232015 | -0.001496 | 4.91 | 1.320 | 1.25 | K3II-III |
| 21248 | 4 | 34 | 18.8 | -29 | 43 | 34.1 | 68.578536 | -29.726138 | 4.49 | 0.972 | 1.00 | K0III |
| 21273 | 4 | 35 | 0.9 | +14 | 53 | 9.2 | 68.753587 | +14.885901 | 4.65 | 0.255 | 0.28 | A8V |
| 21281 | 4 | 34 | 26.5 | -55 | 0 | 11.5 | 68.610443 | -55.003185 | 3.30 | -0.079 | -0.08 | A0V: |
| 21393 | 4 | 36 | 20.9 | -30 | 31 | 17.4 | 69.087123 | -30.521495 | 3.81 | 0.957 | 0.93 | G8III |
| 21402 | 4 | 36 | 46.9 | +10 | 12 | 4.6 | 69.195608 | +10.201290 | 4.25 | 0.184 | 0.21 | A5m |
| 21421 | 4 | 37 | 6.0 | +16 | 32 | 56.1 | 69.274798 | +16.548905 | 0.87 | 1.538 | 1.67 | K5III |
| 21444 | 4 | 37 | 20.7 | -3 | 18 | 43.1 | 69.336186 | -3.311978 | 3.93 | -0.210 | -0.20 | B2III SB |
| 21476 | 4 | 38 | 7.0 | +41 | 18 | 17.8 | 69.528975 | +41.304942 | 4.25 | 1.171 | 1.13 | G8II comp |
| 21589 | 4 | 39 | 18.3 | +12 | 33 | 1.4 | 69.826422 | +12.550375 | 4.27 | 0.122 | 0.15 | A6V |
| 21594 | 4 | 39 | 7.2 | -14 | 15 | 55.3 | 69.780041 | -14.265350 | 3.86 | 1.082 | 1.09 | K1III |
| 21644 | 4 | 39 | 51.0 | -12 | 5 | 2.0 | 69.962434 | -12.083897 | 4.99 | 0.074 | 0.13 | A0V |
| 21683 | 4 | 40 | 27.0 | +15 | 57 | 25.1 | 70.112480 | +15.956960 | 4.67 | 0.147 | 0.19 | A5Vn |
| 21763 | 4 | 41 | 20.4 | -19 | 38 | 0.3 | 70.334913 | -19.633422 | 4.32 | 1.599 | 2.27 | M3/M4III |
| 21770 | 4 | 41 | 13.4 | -41 | 49 | 32.0 | 70.305885 | -41.825558 | 4.44 | 0.342 | 0.40 | F2V |
| 21881 | 4 | 43 | 28.7 | +22 | 59 | 40.2 | 70.869538 | +22.994499 | 4.27 | -0.112 | -0.10 | B3V |
| 22109 | 4 | 46 | 31.7 | -3 | 13 | 6.7 | 71.632237 | -3.218533 | 4.01 | -0.148 | -0.13 | B5IV |
| 22449 | 4 | 50 | 57.3 | +6 | 59 | 43.7 | 72.738598 | +6.995462 | 3.19 | 0.484 | 0.53 | F6V |
| 22453 | 4 | 51 | 17.7 | +37 | 31 | 21.1 | 72.823617 | +37.522516 | 4.89 | 1.447 | 1.51 | K4II |
| 22509 | 4 | 51 | 43.9 | +8 | 56 | 1.5 | 72.932736 | +8.933757 | 4.35 | 0.010 | 0.04 | A1Vn |
| 22549 | 4 | 52 | 18.0 | +5 | 38 | 18.9 | 73.074866 | +5.638589 | 3.68 | -0.157 | -0.16 | B2III SB |
| 22667 | 4 | 53 | 41.7 | +14 | 16 | 59.4 | 73.423581 | +14.283161 | 4.71 | 1.773 | 2.63 | M3Sv |
| 22678 | 4 | 54 | 0.5 | +36 | 44 | 9.2 | 73.502244 | +36.735898 | 4.79 | 1.414 | 1.46 | K3III |
| 22701 | 4 | 53 | 54.2 | -5 | 25 | 11.5 | 73.475751 | -5.419861 | 4.36 | 0.257 | 0.33 | A9IV |
| 22783 | 4 | 56 | 6.1 | +66 | 22 | 28.6 | 74.025478 | +66.374613 | 4.26 | -0.008 | 0.09 | O9.5Ia SB: |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|-----------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 22797 | 4 | 55 | 19.3 | +2 | 28 | 21.7 | 73.830240 | +2.472706 | 3.71 | -0.179 | -0.18 | B2III SB |
| 22845 | 4 | 56 | 1.5 | +10 | 10 | 54.6 | 74.006380 | +10.181830 | 4.64 | 0.085 | 0.11 | A0V |
| 22957 | 4 | 57 | 31.5 | +13 | 32 | 42.8 | 74.381423 | +13.545209 | 4.06 | 1.158 | 1.16 | K2III |
| 23015 | 4 | 58 | 19.9 | +33 | 11 | 47.9 | 74.582944 | +33.196643 | 2.69 | 1.490 | 1.46 | K3IIvar |
| 23040 | 4 | 58 | 56.2 | +53 | 46 | 57.3 | 74.734143 | +53.782584 | 4.43 | -0.017 | 0.06 | A1V |
| 23123 | 4 | 59 | 36.7 | +1 | 44 | 38.2 | 74.903037 | +1.743947 | 4.47 | 1.369 | 1.32 | K2IIvar |
| 23179 | 5 | 0 | 39.1 | +37 | 55 | 9.3 | 75.162981 | +37.919256 | 4.93 | 0.037 | 0.06 | A1V |
| 23231 | 5 | 0 | 52.9 | -12 | 30 | 30.8 | 75.220605 | -12.508561 | 4.78 | 0.267 | 0.33 | F0V |
| 23362 | 5 | 2 | 19.0 | -20 | 1 | 24.1 | 75.579147 | -20.023372 | 4.91 | -0.047 | -0.04 | B9V |
| 23364 | 5 | 2 | 26.0 | -7 | 8 | 43.2 | 75.608523 | -7.145336 | 4.80 | -0.164 | -0.18 | B3V |
| 23416 | 5 | 3 | 26.6 | +43 | 51 | 5.5 | 75.861026 | +43.851525 | 3.03 | 0.537 | 0.61 | F0Ia |
| 23453 | 5 | 3 | 54.9 | +41 | 6 | 13.4 | 75.978696 | +41.103711 | 3.69 | 1.154 | 1.12 | K4II comp |
| 23497 | 5 | 4 | 19.4 | +21 | 37 | 2.9 | 76.080823 | +21.617480 | 4.62 | 0.155 | 0.19 | A7V |
| 23522 | 5 | 5 | 15.0 | +60 | 28 | 10.6 | 76.312528 | +60.469607 | 4.03 | 0.921 | 0.89 | G0Ib |
| 23595 | 5 | 5 | 8.7 | -35 | 27 | 21.6 | 76.286212 | -35.455996 | 4.55 | 1.177 | 1.19 | K2III |
| 23607 | 5 | 5 | 44.5 | +15 | 25 | 51.5 | 76.435600 | +15.430979 | 4.65 | -0.064 | 0.02 | A0p Si |
| 23685 | 5 | 6 | 19.8 | -22 | 20 | 41.1 | 76.582380 | -22.344746 | 3.19 | 1.460 | 1.50 | K4III |
| 23693 | 5 | 5 | 51.9 | -57 | 26 | 42.9 | 76.466196 | -57.445262 | 4.71 | 0.526 | 0.60 | F7V |
| 23767 | 5 | 7 | 57.4 | +41 | 15 | 36.5 | 76.989002 | +41.260133 | 3.18 | -0.148 | -0.17 | B3V |
| 23783 | 5 | 8 | 17.3 | +51 | 37 | 21.6 | 77.071924 | +51.622674 | 4.98 | 0.343 | 0.40 | F0V |
| 23835 | 5 | 8 | 39.8 | +18 | 40 | 14.9 | 77.165846 | +18.670793 | 4.91 | 0.657 | 0.74 | G4V |
| 23875 | 5 | 8 | 51.5 | -5 | 3 | 40.9 | 77.214728 | -5.061368 | 2.78 | 0.161 | 0.16 | A3IIIvar |
| 23972 | 5 | 10 | 7.7 | -8 | 43 | 45.2 | 77.532102 | -8.729219 | 4.25 | -0.187 | -0.16 | B2IVn |
| 24010 | 5 | 10 | 52.4 | +15 | 37 | 18.1 | 77.718537 | +15.621700 | 4.81 | 0.313 | 0.40 | F2IV |
| 24244 | 5 | 13 | 15.3 | -11 | 50 | 45.8 | 78.313913 | -11.846047 | 4.45 | -0.099 | -0.08 | B8V |
| 24305 | 5 | 13 | 51.2 | -16 | 10 | 57.0 | 78.463358 | -16.182513 | 3.29 | -0.110 | -0.09 | B9IV: HgMn |
| 24327 | 5 | 14 | 10.7 | -12 | 55 | 6.3 | 78.544720 | -12.918406 | 4.36 | -0.094 | -0.07 | B7V |
| 24331 | 5 | 14 | 21.9 | +2 | 53 | 2.9 | 78.591098 | +2.884126 | 4.46 | 1.166 | 1.12 | K3III... |
| 24340 | 5 | 14 | 50.1 | +38 | 30 | 24.4 | 78.708599 | +38.506781 | 4.82 | 0.189 | 0.23 | A4m |
| 24372 | 5 | 13 | 44.8 | -67 | 9 | 43.8 | 78.436670 | -67.162169 | 4.81 | 1.274 | 1.22 | K2III |
| 24436 | 5 | 15 | 31.4 | -8 | 10 | 45.8 | 78.881000 | -8.179398 | 0.18 | -0.030 | 0.03 | B8Ia |
| 24608 | 5 | 18 | 12.4 | +46 | 1 | 0.1 | 79.551727 | +46.016682 | 0.08 | 0.795 | 0.83 | M1: comp |
| 24659 | 5 | 18 | 13.5 | -34 | 52 | 34.4 | 79.556249 | -34.876213 | 4.81 | 0.987 | 1.00 | K0/K1III/IV |
| 24674 | 5 | 18 | 36.2 | -6 | 49 | 25.4 | 79.650722 | -6.823720 | 3.59 | -0.115 | -0.10 | B5III |
| 24727 | 5 | 19 | 31.4 | +33 | 23 | 27.9 | 79.880848 | +33.391096 | 4.54 | 1.252 | 1.32 | K3III... |
| 24813 | 5 | 20 | 35.1 | +40 | 6 | 54.8 | 80.146354 | +40.115236 | 4.69 | 0.630 | 0.70 | G0V |
| 24822 | 5 | 20 | 30.6 | +22 | 6 | 57.3 | 80.127567 | +22.115910 | 4.96 | 0.937 | 0.92 | G8III |
| 24845 | 5 | 20 | 31.2 | -13 | 9 | 25.3 | 80.130178 | -13.157024 | 4.29 | -0.235 | -0.26 | B0.5IV |
| 24927 | 5 | 21 | 19.5 | -21 | 13 | 13.6 | 80.331169 | -21.220439 | 4.70 | -0.048 | -0.03 | A0V |
| 25044 | 5 | 22 | 48.6 | -0 | 21 | 49.5 | 80.702517 | -0.363764 | 4.72 | -0.168 | -0.17 | B2IV-V |
| 25142 | 5 | 23 | 54.7 | +3 | 33 | 45.4 | 80.977950 | +3.562621 | 4.99 | -0.096 | -0.14 | B1V |
| 25247 | 5 | 24 | 56.1 | -7 | 47 | 26.5 | 81.233895 | -7.790681 | 4.13 | 0.943 | 0.97 | G8III |
| 25278 | 5 | 25 | 37.3 | +17 | 24 | 3.0 | 81.405515 | +17.400838 | 5.00 | 0.544 | 0.62 | F8V SB |
| 25281 | 5 | 25 | 30.5 | -2 | 22 | 47.3 | 81.377160 | -2.379803 | 3.35 | -0.240 | -0.16 | B1V + B2 |
| 25302 | 5 | 25 | 48.7 | +1 | 51 | 49.2 | 81.453063 | +1.863661 | 4.89 | -0.200 | -0.19 | B1V:pe |
| 25336 | 5 | 26 | 13.9 | +6 | 21 | 59.9 | 81.557918 | +6.366651 | 1.64 | -0.224 | -0.22 | B2III |
| 25428 | 5 | 27 | 35.4 | +28 | 37 | 22.4 | 81.897359 | +28.622884 | 1.65 | -0.130 | -0.09 | B7III |
| 25473 | 5 | 27 | 54.7 | +3 | 6 | 42.7 | 81.978043 | +3.111857 | 4.59 | -0.199 | -0.21 | B2IV |
| 25539 | 5 | 28 | 52.0 | +21 | 57 | 9.7 | 82.216866 | +21.952683 | 4.88 | -0.140 | -0.13 | B2.5IV |
| 25606 | 5 | 29 | 7.5 | -20 | 44 | 39.8 | 82.281113 | -20.744376 | 2.81 | 0.807 | 0.86 | G5II |
| 25737 | 5 | 30 | 46.5 | -1 | 4 | 39.4 | 82.693746 | -1.077616 | 4.71 | 1.592 | 1.70 | K5III |
| 25813 | 5 | 31 | 52.9 | +5 | 57 | 43.9 | 82.970527 | +5.962194 | 4.20 | -0.143 | -0.14 | B5V |
| 25859 | 5 | 31 | 56.5 | -35 | 27 | 23.7 | 82.985311 | -35.456594 | 3.86 | 1.130 | 1.09 | K1II/III |
| 25923 | 5 | 32 | 55.4 | -7 | 17 | 16.3 | 83.230876 | -7.287867 | 4.62 | -0.261 | -0.28 | B0V |
| 25930 | 5 | 33 | 3.3 | -0 | 17 | 7.6 | 83.263732 | -0.285446 | 2.25 | -0.175 | -0.21 | O9.5II |
| 25945 | 5 | 33 | 24.9 | +18 | 36 | 27.8 | 83.353894 | +18.607712 | 4.32 | 2.060 | 2.54 | M2Ib |
| 25984 | 5 | 34 | 3.8 | +32 | 12 | 18.8 | 83.515964 | +32.205215 | 4.71 | 0.281 | 0.51 | B5Iab |
| 25985 | 5 | 33 | 38.1 | -17 | 48 | 32.3 | 83.408795 | -17.808959 | 2.58 | 0.211 | 0.32 | F0Ib |
| 26069 | 5 | 33 | 48.3 | -62 | 28 | 36.1 | 83.451354 | -62.476698 | 3.76 | 0.640 | 0.69 | F6Ia |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|-----------|------------|------|--------|-------|------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 26176 | 5 | 35 | 56.8 | +9 | 30 | 6.5 | 83.986756 | +9.501797 | 4.39 | -0.157 | -0.13 | B0IV... |
| 26199 | 5 | 36 | 2.9 | -5 | 59 | 23.5 | 84.011890 | -5.989872 | 4.78 | -0.248 | -0.27 | B0.5V |
| 26207 | 5 | 36 | 16.1 | +9 | 56 | 46.4 | 84.067000 | +9.946222 | 3.39 | -0.160 | -0.13 | O... |
| 26220 | 5 | 36 | 16.3 | -5 | 22 | 31.0 | 84.067864 | -5.375273 | 4.98 | 0.000 | 0.00 | O7 |
| 26235 | 5 | 36 | 23.4 | -5 | 24 | 14.6 | 84.097313 | -5.404068 | 4.98 | -0.097 | 0.03 | O9.5Vpe |
| 26237 | 5 | 36 | 23.9 | -4 | 49 | 35.1 | 84.099579 | -4.826418 | 4.58 | -0.183 | -0.19 | B2III... |
| 26241 | 5 | 36 | 26.2 | -5 | 53 | 52.6 | 84.109169 | -5.897946 | 2.75 | -0.210 | -0.22 | O9III |
| 26311 | 5 | 37 | 15.3 | -1 | 11 | 25.3 | 84.313659 | -1.190363 | 1.69 | -0.184 | -0.16 | B0Ia |
| 26366 | 5 | 38 | 2.0 | +9 | 18 | 0.7 | 84.508378 | +9.300181 | 4.09 | 0.951 | 1.02 | G8III-IV |
| 26451 | 5 | 38 | 52.3 | +21 | 9 | 11.7 | 84.717780 | +21.153257 | 2.97 | -0.148 | -0.15 | B4IIIp |
| 26549 | 5 | 39 | 46.6 | -2 | 35 | 23.1 | 84.944040 | -2.589761 | 3.77 | -0.190 | -0.25 | O9.5V... |
| 26563 | 5 | 39 | 52.6 | -7 | 12 | 10.3 | 84.969353 | -7.202853 | 4.77 | 0.139 | 0.16 | A4V |
| 26594 | 5 | 40 | 16.1 | +4 | 7 | 53.6 | 85.067279 | +4.131547 | 4.50 | -0.098 | -0.02 | B3IIIe |
| 26634 | 5 | 40 | 23.5 | -34 | 3 | 51.5 | 85.098002 | -34.064307 | 2.65 | -0.120 | -0.07 | B7IV |
| 26727 | 5 | 41 | 47.6 | -1 | 55 | 59.7 | 85.448502 | -1.933247 | 1.74 | -0.199 | -0.18 | O9.5Ib SB |
| 26736 | 5 | 41 | 53.2 | -1 | 7 | 10.3 | 85.471700 | -1.119525 | 4.95 | -0.197 | -0.21 | B2IV-V |
| 26777 | 5 | 42 | 28.9 | +16 | 32 | 35.1 | 85.620270 | +16.543074 | 4.84 | -0.125 | -0.10 | B3IV... |
| 26885 | 5 | 43 | 32.3 | +1 | 28 | 58.8 | 85.884562 | +1.482998 | 4.90 | 1.144 | 1.17 | K1III |
| 27072 | 5 | 45 | 19.1 | -22 | 26 | 34.5 | 86.329627 | -22.442911 | 3.59 | 0.481 | 0.57 | F7V |
| 27100 | 5 | 44 | 48.7 | -65 | 43 | 40.5 | 86.202944 | -65.727926 | 4.34 | 0.217 | 0.27 | A7V |
| 27288 | 5 | 47 | 53.1 | -14 | 48 | 56.5 | 86.971321 | -14.815698 | 3.55 | 0.104 | 0.11 | A2Vann |
| 27321 | 5 | 47 | 46.3 | -51 | 3 | 35.5 | 86.942845 | -51.059853 | 3.85 | 0.171 | 0.18 | A3V |
| 27366 | 5 | 48 | 43.8 | -9 | 39 | 49.5 | 87.182348 | -9.663761 | 2.07 | -0.168 | -0.14 | B0.5Iavar |
| 27468 | 5 | 50 | 16.5 | +24 | 34 | 21.5 | 87.568855 | +24.572642 | 4.88 | 1.021 | 1.04 | G8IIIvar |
| 27483 | 5 | 50 | 35.7 | +39 | 11 | 9.5 | 87.648843 | +39.185963 | 4.51 | 0.949 | 0.95 | G8III |
| 27511 | 5 | 50 | 42.1 | +12 | 39 | 22.1 | 87.675315 | +12.656141 | 4.89 | -0.068 | -0.05 | B9IV |
| 27530 | 5 | 50 | 12.1 | -56 | 9 | 43.5 | 87.550301 | -56.162094 | 4.50 | 1.075 | 1.06 | K1III |
| 27628 | 5 | 51 | 41.0 | -35 | 45 | 42.3 | 87.920851 | -35.761742 | 3.12 | 1.146 | 1.10 | K1.5III |
| 27639 | 5 | 52 | 26.4 | +37 | 18 | 34.0 | 88.109943 | +37.309434 | 4.72 | 1.621 | 1.90 | M1III |
| 27654 | 5 | 52 | 12.2 | -20 | 52 | 42.9 | 88.050889 | -20.878591 | 3.76 | 0.984 | 1.05 | G8III/IV |
| 27673 | 5 | 52 | 54.7 | +39 | 9 | 8.5 | 88.228038 | +39.152363 | 3.97 | 1.132 | 1.07 | K0III |
| 27750 | 5 | 53 | 30.3 | +1 | 51 | 30.9 | 88.376451 | +1.858576 | 4.76 | 1.382 | 1.31 | K2IIvar |
| 27810 | 5 | 53 | 51.6 | -33 | 47 | 52.6 | 88.464913 | -33.797940 | 4.88 | -0.154 | -0.14 | B5V |
| 27830 | 5 | 54 | 37.0 | +27 | 36 | 54.8 | 88.654185 | +27.615208 | 4.56 | -0.008 | 0.00 | A0V |
| 27890 | 5 | 54 | 15.5 | -63 | 5 | 0.8 | 88.564623 | -63.083547 | 4.65 | 1.022 | 1.03 | K1III/IV |
| 27913 | 5 | 55 | 35.9 | +20 | 16 | 41.2 | 88.899574 | +20.278119 | 4.39 | 0.594 | 0.66 | G0V |
| 27949 | 5 | 56 | 34.0 | +55 | 42 | 33.0 | 89.141492 | +55.709179 | 4.96 | 0.052 | 0.09 | A2V |
| 27989 | 5 | 56 | 16.9 | +7 | 24 | 33.3 | 89.070558 | +7.409249 | 0.45 | 1.500 | 2.32 | M2Ib |
| 28010 | 5 | 56 | 12.3 | -37 | 7 | 7.5 | 89.051191 | -37.118738 | 4.97 | 1.102 | 1.03 | K1IIICN... |
| 28103 | 5 | 57 | 20.4 | -14 | 9 | 55.3 | 89.334809 | -14.165372 | 3.71 | 0.337 | 0.39 | F1V |
| 28199 | 5 | 58 | 15.9 | -35 | 16 | 55.8 | 89.566080 | -35.282174 | 4.36 | -0.165 | -0.16 | B2.5IV |
| 28237 | 5 | 59 | 16.0 | +25 | 57 | 16.5 | 89.816723 | +25.954583 | 4.81 | -0.088 | -0.04 | B1Ib |
| 28328 | 5 | 59 | 46.5 | -42 | 48 | 53.8 | 89.943735 | -42.814932 | 3.96 | 1.146 | 1.06 | K0III |
| 28358 | 6 | 1 | 13.0 | +54 | 17 | 1.4 | 90.303982 | +54.283724 | 3.72 | 1.010 | 0.99 | K0III |
| 28360 | 6 | 1 | 2.0 | +44 | 56 | 50.2 | 90.258271 | +44.947287 | 1.90 | 0.077 | 0.05 | A2V |
| 28380 | 6 | 1 | 7.2 | +37 | 12 | 43.1 | 90.279867 | +37.211965 | 2.65 | -0.083 | -0.06 | A0p Si |
| 28404 | 6 | 1 | 27.4 | +45 | 56 | 10.8 | 90.364265 | +45.936347 | 4.30 | 1.701 | 2.51 | M3IIvar |
| 28413 | 6 | 1 | 4.9 | -3 | 4 | 29.8 | 90.270496 | -3.074942 | 4.53 | 1.202 | 1.26 | K2IIIvar |
| 28574 | 6 | 2 | 48.3 | -10 | 35 | 56.6 | 90.701332 | -10.599068 | 4.92 | -0.128 | -0.08 | B5III |
| 28614 | 6 | 3 | 30.7 | +9 | 38 | 44.2 | 90.877934 | +9.645599 | 4.12 | 0.170 | 0.19 | Am... |
| 28716 | 6 | 5 | 8.3 | +20 | 8 | 10.2 | 91.284417 | +20.136180 | 4.64 | 0.236 | 0.41 | B2Iavar |
| 28734 | 6 | 5 | 22.0 | +23 | 15 | 37.1 | 91.341721 | +23.260313 | 4.16 | 0.835 | 0.88 | G7III |
| 28816 | 6 | 5 | 54.1 | -16 | 29 | 13.8 | 91.475209 | -16.487164 | 4.92 | 0.196 | 0.21 | Ap shell |
| 28910 | 6 | 7 | 5.0 | -14 | 56 | 18.5 | 91.770955 | -14.938478 | 4.67 | 0.046 | 0.04 | A0V |
| 29034 | 6 | 8 | 13.8 | -37 | 15 | 24.6 | 92.057703 | -37.256842 | 5.00 | -0.095 | -0.08 | B8:IV |
| 29038 | 6 | 8 | 44.6 | +14 | 45 | 51.5 | 92.185739 | +14.764292 | 4.42 | -0.164 | -0.17 | B3IV |
| 29276 | 6 | 10 | 41.9 | -54 | 58 | 25.8 | 92.674587 | -54.973835 | 4.72 | -0.229 | -0.24 | B0.5IV |
| 29426 | 6 | 13 | 6.3 | +14 | 12 | 8.7 | 93.276448 | +14.202419 | 4.45 | -0.180 | -0.16 | B3IV |
| 29434 | 6 | 13 | 14.2 | +16 | 7 | 26.5 | 93.309274 | +16.124018 | 4.95 | -0.149 | -0.12 | B5Vn |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | δ | | Espectro | |
|----------|----------|----|------|----------|----|------|------------|------------|----------|--------|----------|-----------|
| | NH | h | m | s | ° | ' | " | ° | ' | V | | U-V |
| 29651 | 6 | 15 | 51.3 | -6 | 16 | 57.1 | 93.963957 | -6.282529 | 3.99 | 1.319 | 1.27 | K3III |
| 29655 | 6 | 16 | 6.9 | +22 | 29 | 56.5 | 94.028826 | +22.499031 | 3.31 | 1.600 | 2.70 | M3III |
| 29696 | 6 | 16 | 41.1 | +29 | 29 | 19.1 | 94.171101 | +29.488645 | 4.32 | 1.021 | 1.04 | G8IIIvar |
| 29735 | 6 | 16 | 41.3 | -13 | 43 | 35.6 | 94.171932 | -13.726545 | 5.00 | -0.078 | -0.05 | B9V |
| 29807 | 6 | 17 | 16.9 | -35 | 8 | 54.4 | 94.320586 | -35.148449 | 4.37 | 0.978 | 0.94 | G8II |
| 29997 | 6 | 21 | 6.1 | +69 | 18 | 33.4 | 95.275248 | +69.309289 | 4.76 | 0.025 | 0.05 | A0Vn |
| 30060 | 6 | 21 | 25.8 | +59 | 0 | 3.2 | 95.357571 | +59.000892 | 4.44 | 0.032 | 0.05 | A2Vs |
| 30093 | 6 | 21 | 1.2 | -2 | 57 | 16.9 | 95.255068 | -2.954697 | 4.91 | 1.613 | 1.90 | M1III |
| 30122 | 6 | 21 | 6.0 | -30 | 4 | 25.1 | 95.275189 | -30.073644 | 3.02 | -0.160 | -0.20 | B2.5V |
| 30277 | 6 | 22 | 51.8 | -33 | 26 | 52.3 | 95.715919 | -33.447872 | 3.85 | 0.858 | 0.88 | G7II |
| 30324 | 6 | 23 | 36.2 | -17 | 58 | 2.7 | 95.900745 | -17.967430 | 1.98 | -0.240 | -0.24 | B1II/III |
| 30343 | 6 | 24 | 12.0 | +22 | 30 | 4.5 | 96.050119 | +22.501259 | 2.87 | 1.621 | 2.30 | M3IIIvar |
| 30419 | 6 | 24 | 51.3 | +4 | 34 | 51.0 | 96.213641 | +4.580841 | 4.39 | 0.215 | 0.25 | A5IV |
| 30438 | 6 | 24 | 24.4 | -52 | 42 | 27.2 | 96.101802 | -52.707548 | -0.62 | 0.164 | 0.23 | F0Ib |
| 30520 | 6 | 26 | 28.6 | +49 | 16 | 30.4 | 96.618983 | +49.275115 | 4.92 | 1.905 | 1.94 | K5Iabvar |
| 30788 | 6 | 28 | 55.8 | -32 | 35 | 38.8 | 97.232697 | -32.594116 | 4.47 | -0.169 | -0.16 | B4V |
| 30867 | 6 | 29 | 48.7 | -7 | 2 | 51.5 | 97.453073 | -7.047648 | 3.76 | -0.113 | -0.11 | B3Ve |
| 30883 | 6 | 30 | 10.8 | +20 | 11 | 50.5 | 97.545021 | +20.197370 | 4.13 | -0.115 | -0.10 | B6III |
| 31125 | 6 | 32 | 42.6 | -23 | 26 | 3.9 | 98.177688 | -23.434408 | 4.34 | -0.245 | -0.24 | B1III |
| 31216 | 6 | 34 | 0.7 | +7 | 18 | 58.8 | 98.503069 | +7.316331 | 4.47 | 0.023 | 0.09 | A0Ib |
| 31407 | 6 | 35 | 25.7 | -52 | 59 | 34.8 | 98.857079 | -52.993004 | 4.35 | -0.021 | 0.06 | B9III |
| 31416 | 6 | 35 | 55.0 | -22 | 58 | 56.3 | 98.979031 | -22.982301 | 4.54 | -0.035 | -0.01 | A0III |
| 31592 | 6 | 37 | 34.7 | -19 | 16 | 28.8 | 99.394625 | -19.274677 | 3.95 | 1.037 | 1.02 | K1III+... |
| 31681 | 6 | 38 | 53.7 | +16 | 22 | 47.6 | 99.723635 | +16.379896 | 1.93 | 0.001 | 0.04 | A0IV |
| 31685 | 6 | 38 | 23.3 | -43 | 12 | 53.4 | 99.597222 | -43.214828 | 3.17 | -0.103 | -0.07 | B8III SB |
| 31700 | 6 | 38 | 47.5 | -18 | 15 | 23.5 | 99.698085 | -18.256528 | 4.42 | 1.137 | 1.12 | K0II/III |
| 31827 | 6 | 40 | 13.0 | -14 | 9 | 55.8 | 100.053971 | -14.165496 | 4.82 | 1.459 | 1.45 | K2III |
| 31832 | 6 | 40 | 47.6 | +42 | 28 | 7.4 | 100.198128 | +42.468721 | 4.80 | 1.236 | 1.17 | K3III |
| 31978 | 6 | 42 | 6.4 | +9 | 52 | 30.6 | 100.526607 | +9.875168 | 4.66 | -0.233 | -0.22 | O7 |
| 32246 | 6 | 45 | 11.5 | +25 | 6 | 32.4 | 101.298115 | +25.109003 | 3.06 | 1.377 | 1.22 | A3mA6-A9 |
| 32249 | 6 | 45 | 8.6 | +13 | 12 | 20.4 | 101.285966 | +13.205678 | 4.49 | 1.167 | 1.11 | K1III |
| 32349 | 6 | 46 | 3.1 | -16 | 44 | 43.7 | 101.512986 | -16.745464 | -1.44 | 0.009 | -0.02 | A0m... |
| 32362 | 6 | 46 | 26.4 | +12 | 52 | 18.6 | 101.609907 | +12.871845 | 3.35 | 0.443 | 0.48 | F5IV |
| 32438 | 6 | 48 | 2.5 | +59 | 25 | 5.9 | 102.010429 | +59.418315 | 4.86 | 0.084 | 0.10 | A3V |
| 32533 | 6 | 48 | 26.6 | +8 | 0 | 48.7 | 102.110867 | +8.013517 | 4.77 | 1.396 | 1.36 | K4III |
| 32578 | 6 | 48 | 55.8 | +2 | 23 | 17.4 | 102.232441 | +2.388171 | 4.48 | 1.099 | 1.06 | K0III |
| 32607 | 6 | 48 | 24.0 | -61 | 57 | 50.1 | 102.100098 | -61.963917 | 3.24 | 0.225 | 0.28 | A7IV |
| 32759 | 6 | 50 | 36.4 | -32 | 31 | 59.8 | 102.651801 | -32.533264 | 3.50 | -0.116 | -0.10 | B1.5IVne |
| 32761 | 6 | 50 | 18.0 | -53 | 38 | 49.5 | 102.575128 | -53.647090 | 4.41 | 0.899 | 0.92 | G6II |
| 32768 | 6 | 50 | 26.7 | -50 | 38 | 23.0 | 102.611229 | -50.639719 | 2.94 | 1.207 | 1.14 | K0III... |
| 32844 | 6 | 52 | 12.8 | +41 | 45 | 18.1 | 103.053240 | +41.755040 | 4.99 | 1.256 | 1.23 | K3III |
| 32855 | 6 | 51 | 37.1 | -34 | 23 | 33.4 | 102.904665 | -34.392619 | 4.99 | 1.379 | 1.28 | K2/K3III |
| 33018 | 6 | 54 | 8.3 | +33 | 56 | 4.6 | 103.534594 | +33.934608 | 3.60 | 0.102 | 0.14 | A3III |
| 33092 | 6 | 54 | 26.1 | -20 | 15 | 3.1 | 103.608807 | -20.250868 | 4.82 | -0.212 | -0.21 | B1Ib |
| 33152 | 6 | 54 | 59.0 | -24 | 12 | 39.9 | 103.745914 | -24.211094 | 3.89 | 1.740 | 1.58 | K3Iab |
| 33160 | 6 | 55 | 8.6 | -12 | 3 | 56.4 | 103.785658 | -12.065671 | 4.08 | 1.418 | 1.49 | K4III |
| 33202 | 6 | 55 | 48.0 | +13 | 9 | 0.6 | 103.949932 | +13.150163 | 4.73 | 0.321 | 0.36 | F0Vp |
| 33302 | 6 | 56 | 30.8 | -20 | 9 | 50.1 | 104.128272 | -20.163917 | 4.66 | 0.374 | 0.46 | F2IV/V |
| 33345 | 6 | 57 | 3.0 | -14 | 4 | 16.6 | 104.262606 | -14.071280 | 5.00 | 1.182 | 1.30 | B9.5V |
| 33347 | 6 | 57 | 3.1 | -17 | 4 | 55.7 | 104.262914 | -17.082126 | 4.36 | -0.063 | 0.01 | B3Ib/II |
| 33357 | 6 | 56 | 48.8 | -48 | 44 | 56.3 | 104.203157 | -48.748966 | 4.94 | 1.668 | 2.05 | M1III |
| 33449 | 6 | 59 | 2.8 | +58 | 23 | 36.3 | 104.761493 | +58.393422 | 4.35 | 0.850 | 0.85 | G5III-IV |
| 33485 | 6 | 59 | 6.7 | +45 | 3 | 55.2 | 104.777814 | +45.065328 | 4.90 | 0.027 | 0.05 | A2Vn |
| 33579 | 6 | 59 | 25.9 | -29 | 0 | 4.1 | 104.857966 | -29.001140 | 1.50 | -0.211 | -0.20 | B2II |
| 33694 | 7 | 3 | 1.5 | +76 | 56 | 49.4 | 105.756387 | +76.947050 | 4.55 | 1.365 | 1.35 | K4III |
| 33856 | 7 | 2 | 32.2 | -27 | 57 | 55.3 | 105.634040 | -27.965363 | 3.49 | 1.729 | 1.82 | K4III |
| 33971 | 7 | 3 | 55.8 | -4 | 16 | 13.4 | 105.982675 | -4.270394 | 4.99 | -0.195 | -0.19 | B1V |
| 33977 | 7 | 3 | 52.9 | -23 | 51 | 52.1 | 105.970233 | -23.864460 | 3.02 | -0.077 | -0.03 | B3Ia |
| 34045 | 7 | 4 | 41.2 | -15 | 39 | 53.7 | 106.171460 | -15.664910 | 4.11 | -0.112 | -0.09 | B8II |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|-----------|
| | NH | h | m | s | ° | ' | | | | | | |
| 34059 | 7 | 4 | 25.6 | -49 | 36 | 52.8 | 106.106679 | -49.614679 | 4.92 | 0.140 | 0.15 | A4IV |
| 34088 | 7 | 5 | 19.4 | +20 | 32 | 18.6 | 106.330907 | +20.538494 | 4.01 | 0.899 | 0.90 | G3Ibv SB |
| 34444 | 7 | 9 | 13.5 | -26 | 25 | 37.0 | 107.306329 | -26.426931 | 1.83 | 0.671 | 0.67 | F8Ia |
| 34481 | 7 | 8 | 34.0 | -70 | 31 | 55.2 | 107.141816 | -70.532010 | 3.78 | 1.006 | 0.94 | G8IIIvar |
| 34495 | 7 | 9 | 32.4 | -39 | 41 | 22.4 | 107.384971 | -39.689551 | 4.83 | -0.179 | -0.17 | B3IV/V |
| 34622 | 7 | 11 | 14.8 | -4 | 16 | 14.0 | 107.811554 | -4.270562 | 4.91 | 1.020 | 1.03 | K0III |
| 34693 | 7 | 12 | 26.5 | +30 | 12 | 35.0 | 108.110562 | +30.209729 | 4.41 | 1.261 | 1.25 | K2III |
| 34752 | 7 | 13 | 3.7 | +39 | 17 | 6.5 | 108.265598 | +39.285126 | 4.91 | 1.451 | 1.48 | K4II-III |
| 34769 | 7 | 12 | 54.7 | -0 | 31 | 41.4 | 108.227748 | -0.528175 | 4.15 | -0.005 | 0.02 | A2V |
| 34834 | 7 | 13 | 8.7 | -46 | 47 | 39.8 | 108.286303 | -46.794378 | 4.49 | 0.324 | 0.40 | F0IV |
| 34899 | 7 | 13 | 50.2 | -45 | 13 | 9.2 | 108.459010 | -45.219217 | 4.87 | -0.003 | 0.02 | Ap |
| 34922 | 7 | 14 | 9.9 | -44 | 40 | 26.7 | 108.541182 | -44.674072 | 4.42 | 1.331 | 3.46 | M5e |
| 34981 | 7 | 15 | 5.4 | -26 | 23 | 20.4 | 108.772377 | -26.389012 | 4.42 | -0.170 | -0.12 | B3III |
| 35020 | 7 | 15 | 12.1 | -48 | 18 | 30.8 | 108.800263 | -48.308567 | 4.75 | -0.091 | -0.07 | B8/B9V |
| 35037 | 7 | 15 | 38.6 | -26 | 48 | 33.9 | 108.910742 | -26.809413 | 4.01 | -0.150 | -0.08 | B2IV/Ve |
| 35205 | 7 | 17 | 24.3 | -27 | 55 | 6.9 | 109.351317 | -27.918584 | 4.66 | 1.589 | 2.11 | M2III |
| 35210 | 7 | 17 | 28.7 | -23 | 21 | 11.6 | 109.369605 | -23.353223 | 4.83 | 1.601 | 1.77 | K4III |
| 35228 | 7 | 16 | 48.9 | -67 | 59 | 40.7 | 109.203776 | -67.994645 | 3.97 | 0.760 | 0.78 | F6II |
| 35264 | 7 | 17 | 52.0 | -37 | 8 | 7.0 | 109.466747 | -37.135291 | 2.71 | 1.616 | 1.65 | K3Ib |
| 35350 | 7 | 19 | 16.2 | +16 | 30 | 6.3 | 109.817481 | +16.501760 | 3.58 | 0.106 | 0.12 | A3V... |
| 35363 | 7 | 19 | 2.1 | -36 | 46 | 20.5 | 109.758939 | -36.772360 | 4.65 | -0.099 | 0.11 | B2V+... |
| 35384 | 7 | 20 | 5.1 | +49 | 25 | 33.9 | 110.021307 | +49.426071 | 5.00 | 0.087 | 0.16 | A4IIIln |
| 35412 | 7 | 19 | 31.6 | -24 | 35 | 50.3 | 109.881746 | -24.597295 | 4.88 | -0.160 | -0.06 | O7f |
| 35415 | 7 | 19 | 33.5 | -24 | 59 | 34.7 | 109.889637 | -24.992979 | 4.37 | -0.132 | -0.10 | O9Ib |
| 35550 | 7 | 21 | 20.7 | +21 | 56 | 34.5 | 110.336451 | +21.942904 | 3.50 | 0.374 | 0.44 | F0IV... |
| 35727 | 7 | 23 | 7.7 | -19 | 3 | 24.9 | 110.782153 | -19.056916 | 4.94 | -0.039 | 0.01 | B5II/III |
| 35904 | 7 | 24 | 54.4 | -29 | 20 | 39.1 | 111.226577 | -29.344195 | 2.45 | -0.083 | 0.01 | B5Ia |
| 36041 | 7 | 26 | 46.1 | +9 | 14 | 2.9 | 111.691980 | +9.234129 | 4.99 | 0.991 | 0.96 | G8III |
| 36046 | 7 | 26 | 59.9 | +27 | 45 | 20.2 | 111.749408 | +27.755620 | 3.78 | 1.024 | 1.01 | G9III+... |
| 36145 | 7 | 28 | 15.3 | +49 | 10 | 7.5 | 112.063729 | +49.168746 | 4.61 | -0.001 | 0.02 | A1V |
| 36188 | 7 | 28 | 15.7 | +8 | 14 | 47.4 | 112.065409 | +8.246489 | 2.89 | -0.097 | -0.07 | B8Vvar |
| 36284 | 7 | 29 | 16.7 | +8 | 52 | 57.0 | 112.319663 | +8.882509 | 4.33 | 1.425 | 1.48 | K3III SB |
| 36366 | 7 | 30 | 25.7 | +31 | 44 | 31.4 | 112.606970 | +31.742062 | 4.16 | 0.320 | 0.40 | F0V... |
| 36377 | 7 | 29 | 52.9 | -43 | 20 | 37.9 | 112.470296 | -43.343850 | 3.25 | 1.509 | 1.54 | K5III SB |
| 36425 | 7 | 30 | 56.2 | +11 | 57 | 45.4 | 112.734098 | +11.962618 | 4.55 | 1.276 | 1.21 | K2III |
| 36431 | 7 | 30 | 43.7 | -23 | 4 | 5.0 | 112.682007 | -23.068065 | 4.85 | 0.243 | 0.35 | A6Ib/II |
| 36514 | 7 | 31 | 30.5 | -31 | 0 | 23.2 | 112.876884 | -31.006456 | 4.65 | 0.904 | 0.89 | G2Ib... |
| 36547 | 7 | 35 | 15.7 | +82 | 21 | 58.0 | 113.815430 | +82.366106 | 4.92 | 1.633 | 2.66 | M4IIIa |
| 36773 | 7 | 34 | 44.5 | -14 | 34 | 10.2 | 113.685293 | -14.569499 | 4.82 | 1.362 | 1.37 | A4Ia |
| 36795 | 7 | 34 | 55.9 | -22 | 20 | 29.5 | 113.732722 | -22.341535 | 4.44 | 0.521 | 0.60 | F6V |
| 36850 | 7 | 35 | 54.1 | +31 | 50 | 29.0 | 113.975602 | +31.841380 | 1.58 | 0.034 | 0.05 | A2Vm |
| 36917 | 7 | 36 | 12.3 | -28 | 24 | 56.7 | 114.051225 | -28.415748 | 4.65 | -0.111 | -0.12 | B8V |
| 36942 | 7 | 36 | 10.1 | -52 | 34 | 49.0 | 114.042196 | -52.580278 | 4.93 | 1.373 | 1.39 | K3III |
| 36962 | 7 | 37 | 11.0 | +26 | 50 | 54.5 | 114.295761 | +26.848474 | 4.06 | 1.540 | 1.66 | K5III |
| 37096 | 7 | 38 | 7.7 | -35 | 0 | 56.3 | 114.531942 | -35.015647 | 4.53 | -0.081 | -0.08 | B8IV/V |
| 37173 | 7 | 39 | 9.3 | -25 | 24 | 45.0 | 114.788600 | -25.412494 | 4.69 | -0.100 | -0.07 | B8IV |
| 37229 | 7 | 39 | 40.3 | -26 | 51 | 5.8 | 114.917934 | -26.851597 | 3.80 | -0.159 | -0.15 | B5IV |
| 37265 | 7 | 40 | 30.0 | +34 | 32 | 7.9 | 115.125029 | +34.535538 | 4.89 | 0.413 | 0.47 | F3III |
| 37279 | 7 | 40 | 22.4 | +5 | 10 | 15.9 | 115.093533 | +5.171095 | 0.40 | 0.432 | 0.49 | F5IV-V |
| 37297 | 7 | 40 | 10.7 | -38 | 21 | 21.9 | 115.044588 | -38.356077 | 4.84 | -0.189 | -0.17 | B3V |
| 37379 | 7 | 41 | 19.5 | -15 | 18 | 45.7 | 115.331109 | -15.312689 | 4.98 | 1.543 | 1.49 | K3III |
| 37447 | 7 | 42 | 13.6 | -9 | 36 | 0.9 | 115.556627 | -9.600250 | 3.94 | 1.022 | 1.01 | K0III |
| 37504 | 7 | 41 | 33.4 | -72 | 39 | 18.0 | 115.389019 | -72.655002 | 3.93 | 1.033 | 1.02 | K0III |
| 37609 | 7 | 44 | 43.8 | +58 | 39 | 36.4 | 116.182605 | +58.660105 | 4.93 | 0.104 | 0.17 | A3IVn |
| 37629 | 7 | 44 | 35.4 | +28 | 49 | 56.0 | 116.147575 | +28.832221 | 4.23 | 1.118 | 1.12 | K1III SB |
| 37648 | 7 | 44 | 22.1 | -28 | 27 | 38.6 | 116.091946 | -28.460724 | 4.63 | 1.632 | 1.76 | K5III |
| 37677 | 7 | 44 | 37.9 | -29 | 0 | 17.7 | 116.157779 | -29.004928 | 3.94 | 0.160 | 0.34 | A2Iab |
| 37740 | 7 | 45 | 41.0 | +24 | 20 | 49.8 | 116.420746 | +24.347179 | 3.57 | 0.932 | 0.90 | G8III |
| 37819 | 7 | 45 | 59.1 | -38 | 1 | 9.5 | 116.496453 | -38.019300 | 3.62 | 1.706 | 1.82 | K4III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | δ | | Espectro | |
|----------|----------|----|------|----------|----|------|------------|------------|----------|--------|----------|-----------|
| | NH | h | m | s | ° | ' | " | ° | ' | " | | V |
| 37826 | 7 | 46 | 34.1 | +27 | 58 | 30.2 | 116.641962 | +27.975054 | 1.16 | 0.991 | 0.97 | K0IIIvar |
| 37908 | 7 | 47 | 18.6 | +18 | 27 | 30.7 | 116.827304 | +18.458520 | 4.89 | 1.425 | 1.54 | K5III |
| 38070 | 7 | 48 | 56.3 | -25 | 59 | 21.0 | 117.234650 | -25.989176 | 4.40 | -0.070 | 0.13 | B1IV:nne |
| 38089 | 7 | 48 | 56.8 | -47 | 7 | 48.9 | 117.236533 | -47.130249 | 4.69 | 1.039 | 1.03 | K0III |
| 38164 | 7 | 49 | 51.8 | -46 | 25 | 32.3 | 117.465761 | -46.425649 | 4.10 | -0.160 | -0.17 | B0III |
| 38170 | 7 | 50 | 9.4 | -24 | 54 | 44.5 | 117.539177 | -24.912361 | 3.34 | 1.218 | 1.08 | G6Ia |
| 38414 | 7 | 52 | 55.3 | -40 | 37 | 46.5 | 118.230590 | -40.629581 | 3.71 | 1.012 | 1.04 | G5III... |
| 38455 | 7 | 53 | 22.2 | -38 | 55 | 0.5 | 118.342511 | -38.916806 | 4.49 | -0.188 | -0.18 | B2V |
| 38500 | 7 | 53 | 38.3 | -49 | 40 | 1.7 | 118.409522 | -49.667129 | 4.63 | -0.228 | -0.24 | B1.5Vp |
| 38518 | 7 | 53 | 54.3 | -48 | 9 | 25.8 | 118.476260 | -48.157179 | 4.22 | -0.130 | -0.11 | B0.5Ib |
| 38538 | 7 | 54 | 44.9 | +26 | 42 | 40.0 | 118.687153 | +26.711105 | 4.97 | 0.098 | 0.14 | A3V |
| 38827 | 7 | 57 | 18.0 | -53 | 2 | 17.0 | 119.324852 | -53.038043 | 3.46 | -0.177 | -0.17 | B3IVp |
| 38835 | 7 | 57 | 44.4 | -22 | 56 | 9.4 | 119.435158 | -22.935940 | 4.20 | 0.718 | 0.75 | F7/F8II |
| 38901 | 7 | 58 | 29.2 | -30 | 23 | 26.7 | 119.621517 | -30.390757 | 4.76 | 0.151 | 0.24 | A7III |
| 38957 | 7 | 58 | 49.8 | -49 | 18 | 4.7 | 119.707517 | -49.301298 | 4.47 | -0.180 | -0.14 | B1Vp + B2 |
| 39079 | 8 | 0 | 45.6 | -3 | 44 | 12.3 | 120.189892 | -3.736757 | 4.93 | 1.205 | 1.22 | K2III |
| 39095 | 8 | 0 | 47.2 | -18 | 27 | 23.8 | 120.196566 | -18.456621 | 4.61 | 0.087 | 0.11 | A1V |
| 39138 | 8 | 0 | 35.3 | -63 | 37 | 28.6 | 120.146989 | -63.624605 | 4.81 | -0.173 | -0.16 | B3V |
| 39211 | 8 | 2 | 15.9 | -1 | 27 | 3.0 | 120.566118 | -1.450837 | 4.69 | 1.475 | 1.54 | K4III |
| 39311 | 8 | 3 | 19.9 | +2 | 16 | 36.8 | 120.832830 | +2.276897 | 4.39 | 1.252 | 1.27 | K2III |
| 39424 | 8 | 4 | 46.4 | +27 | 44 | 7.1 | 121.193428 | +27.735301 | 4.94 | 1.130 | 1.09 | K2III |
| 39429 | 8 | 4 | 18.3 | -40 | 3 | 42.5 | 121.076254 | -40.061804 | 2.21 | -0.269 | -0.22 | O5IAf |
| 39757 | 8 | 8 | 25.1 | -24 | 21 | 52.3 | 122.104394 | -24.364530 | 2.83 | 0.458 | 0.42 | F2mF5IIp |
| 39794 | 8 | 7 | 59.3 | -68 | 40 | 38.4 | 121.997085 | -68.677347 | 4.35 | -0.113 | -0.10 | B6IV |
| 39847 | 8 | 9 | 59.4 | +51 | 26 | 44.4 | 122.497607 | +51.445671 | 4.78 | 0.048 | 0.10 | A2V |
| 39863 | 8 | 9 | 37.4 | -3 | 2 | 41.1 | 122.405990 | -3.044747 | 4.36 | 0.970 | 0.92 | G2Ib |
| 39903 | 8 | 9 | 20.9 | -61 | 21 | 54.2 | 122.337187 | -61.365051 | 4.74 | 0.437 | 0.53 | F5V |
| 39906 | 8 | 9 | 56.6 | -19 | 18 | 22.1 | 122.485689 | -19.306142 | 4.40 | -0.160 | -0.14 | B5V |
| 39953 | 8 | 10 | 9.9 | -47 | 23 | 52.0 | 122.541124 | -47.397783 | 1.75 | -0.145 | -0.14 | WC8 + O9I |
| 40084 | 8 | 12 | 14.0 | -12 | 59 | 20.4 | 123.058387 | -12.989002 | 4.72 | 0.939 | 0.93 | K0III |
| 40091 | 8 | 12 | 5.5 | -39 | 40 | 50.0 | 123.022750 | -39.680565 | 4.44 | 1.590 | 1.62 | K4III |
| 40096 | 8 | 12 | 7.5 | -43 | 2 | 57.5 | 123.031119 | -43.049311 | 4.73 | 0.164 | 0.30 | A7Ib |
| 40167 | 8 | 13 | 23.1 | +17 | 35 | 4.0 | 123.346140 | +17.584447 | 4.67 | 0.531 | 0.60 | G0V |
| 40259 | 8 | 14 | 16.5 | -15 | 51 | 4.1 | 123.568788 | -15.851140 | 4.99 | 1.066 | 1.02 | G5Ib/II |
| 40274 | 8 | 14 | 16.0 | -35 | 57 | 44.6 | 123.566585 | -35.962396 | 4.78 | -0.110 | -0.01 | B2ne |
| 40326 | 8 | 14 | 46.6 | -40 | 24 | 41.1 | 123.694301 | -40.411412 | 4.42 | 1.170 | 1.15 | K1II/III |
| 40526 | 8 | 17 | 37.5 | +9 | 7 | 15.7 | 124.406399 | +9.121021 | 3.53 | 1.481 | 1.47 | K4III |
| 40702 | 8 | 17 | 57.9 | -76 | 59 | 1.9 | 124.491314 | -76.983867 | 4.05 | 0.413 | 0.49 | F5III |
| 40706 | 8 | 19 | 19.4 | -36 | 43 | 25.5 | 124.830785 | -36.723749 | 4.44 | 0.222 | 0.25 | A4m... |
| 40888 | 8 | 19 | 59.5 | -77 | 32 | 59.4 | 124.998074 | -77.549832 | 4.34 | 1.161 | 1.10 | K0III-IV |
| 40945 | 8 | 22 | 11.5 | -33 | 7 | 13.9 | 125.547928 | -33.120534 | 4.83 | 1.419 | 1.35 | K2/K3III |
| 41037 | 8 | 22 | 56.0 | -59 | 34 | 33.3 | 125.733209 | -59.575917 | 1.86 | 1.196 | 1.16 | K3III+B2V |
| 41039 | 8 | 23 | 9.6 | -48 | 33 | 25.0 | 125.789818 | -48.556952 | 4.79 | -0.146 | -0.12 | B1V |
| 41075 | 8 | 24 | 13.9 | +43 | 7 | 14.5 | 126.057908 | +43.120691 | 4.25 | 1.550 | 1.61 | K5III |
| 41307 | 8 | 26 | 41.1 | -3 | 58 | 28.2 | 126.671083 | -3.974505 | 3.91 | -0.012 | -0.02 | A0V |
| 41312 | 8 | 25 | 57.2 | -66 | 12 | 20.0 | 126.488478 | -66.205551 | 3.77 | 1.132 | 1.10 | K2IIIvar |
| 41704 | 8 | 31 | 57.1 | +60 | 38 | 51.6 | 127.987842 | +60.647666 | 3.35 | 0.856 | 0.87 | G4II-III |
| 42134 | 8 | 35 | 48.7 | -58 | 4 | 50.6 | 128.952927 | -58.080725 | 4.84 | 0.981 | 0.98 | K0III |
| 42312 | 8 | 38 | 21.9 | -43 | 3 | 41.8 | 129.591343 | -43.061616 | 4.11 | 0.109 | 0.20 | A6II |
| 42313 | 8 | 38 | 44.4 | +5 | 37 | 51.9 | 129.684997 | +5.631081 | 4.14 | 0.003 | 0.02 | A1Vnn |
| 42402 | 8 | 39 | 49.7 | +3 | 16 | 5.7 | 129.956910 | +3.268263 | 4.45 | 1.216 | 1.12 | K2III |
| 42483 | 8 | 40 | 33.6 | -29 | 38 | 6.0 | 130.139812 | -29.634993 | 4.86 | 0.900 | 0.99 | G5III |
| 42509 | 8 | 40 | 59.7 | -12 | 32 | 56.1 | 130.248946 | -12.548913 | 4.98 | 1.415 | 1.40 | K3III |
| 42515 | 8 | 40 | 54.3 | -35 | 22 | 55.2 | 130.226413 | -35.382014 | 3.97 | 0.936 | 0.91 | G5II/III |
| 42527 | 8 | 41 | 59.1 | +64 | 15 | 15.5 | 130.496112 | +64.254314 | 4.59 | 1.179 | 1.18 | K2III |
| 42536 | 8 | 40 | 52.8 | -52 | 59 | 43.0 | 130.220097 | -52.995267 | 3.60 | -0.168 | -0.16 | B3IV |
| 42568 | 8 | 41 | 4.1 | -59 | 50 | 4.7 | 130.267120 | -59.834648 | 4.31 | -0.117 | -0.08 | B1.5III |
| 42570 | 8 | 41 | 18.4 | -46 | 43 | 20.8 | 130.326735 | -46.722440 | 3.77 | 0.670 | 0.92 | F3Ia |
| 42624 | 8 | 41 | 53.5 | -47 | 23 | 27.7 | 130.472890 | -47.391029 | 4.74 | 0.137 | 0.25 | A5II |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----|----|------|-----|----|------|------------|------------|------|--------|-------|------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 42662 | 8 | 42 | 40.4 | -16 | 1 | 5.2 | 130.668387 | -16.018108 | 4.87 | 1.063 | 1.04 | K0IIICN... |
| 42726 | 8 | 43 | 0.6 | -53 | 11 | 17.7 | 130.752704 | -53.188238 | 4.83 | -0.173 | -0.18 | B3IV |
| 42799 | 8 | 44 | 17.7 | +3 | 19 | 26.0 | 131.073734 | +3.323880 | 4.30 | -0.192 | -0.20 | B3V... |
| 42806 | 8 | 44 | 28.1 | +21 | 23 | 36.5 | 131.117255 | +21.393463 | 4.66 | 0.010 | 0.03 | A1IV |
| 42828 | 8 | 44 | 25.0 | -33 | 15 | 40.3 | 131.104203 | -33.261194 | 3.68 | -0.180 | -0.17 | B1.5III |
| 42835 | 8 | 44 | 40.8 | -7 | 18 | 31.2 | 131.169808 | -7.308668 | 4.63 | 0.840 | 0.85 | G2Ib |
| 42884 | 8 | 45 | 7.9 | -42 | 43 | 27.6 | 131.283028 | -42.724321 | 4.05 | 0.874 | 0.89 | G5III |
| 42911 | 8 | 45 | 50.8 | +18 | 4 | 39.7 | 131.461818 | +18.077699 | 3.94 | 1.083 | 1.01 | K0III |
| 42913 | 8 | 45 | 16.2 | -54 | 47 | 4.7 | 131.317463 | -54.784636 | 1.93 | 0.043 | 0.05 | A1V |
| 43023 | 8 | 46 | 43.4 | -46 | 7 | 2.1 | 131.680767 | -46.117255 | 3.87 | 0.015 | 0.09 | A1III |
| 43067 | 8 | 47 | 20.7 | -13 | 37 | 25.3 | 131.836055 | -13.623689 | 4.32 | 0.900 | 0.91 | G8III |
| 43103 | 8 | 47 | 56.0 | +28 | 41 | 0.8 | 131.983346 | +28.683550 | 4.03 | 1.007 | 0.96 | G8Iab: |
| 43105 | 8 | 47 | 14.3 | -56 | 50 | 44.5 | 131.809675 | -56.845705 | 4.50 | -0.169 | -0.16 | B3Vne |
| 43109 | 8 | 47 | 51.5 | +6 | 20 | 32.9 | 131.964642 | +6.342483 | 3.38 | 0.685 | 0.78 | G0III-IV |
| 43234 | 8 | 49 | 31.0 | +5 | 45 | 39.3 | 132.379324 | +5.760929 | 4.35 | -0.044 | -0.03 | A0Vn |
| 43347 | 8 | 50 | 30.2 | -45 | 23 | 5.8 | 132.625921 | -45.384944 | 4.94 | 0.043 | 0.06 | A2III |
| 43409 | 8 | 51 | 24.2 | -27 | 47 | 12.5 | 132.850719 | -27.786803 | 4.02 | 1.272 | 1.24 | K3III |
| 43783 | 8 | 55 | 30.6 | -60 | 43 | 24.2 | 133.877474 | -60.723386 | 3.84 | -0.104 | -0.08 | B8III |
| 43813 | 8 | 56 | 28.6 | +5 | 51 | 59.0 | 134.119011 | +5.866398 | 3.11 | 0.978 | 0.96 | G8III-IV |
| 43825 | 8 | 56 | 24.4 | -27 | 45 | 42.1 | 134.101553 | -27.761691 | 4.87 | 0.142 | 0.16 | A3IV |
| 43878 | 8 | 56 | 56.4 | -52 | 48 | 10.4 | 134.235026 | -52.802890 | 4.68 | -0.115 | -0.11 | B5V |
| 43937 | 8 | 57 | 28.5 | -59 | 18 | 32.4 | 134.368582 | -59.308998 | 4.93 | -0.182 | -0.21 | B2IV-V |
| 44066 | 8 | 59 | 36.4 | +11 | 46 | 37.9 | 134.901576 | +11.777184 | 4.26 | 0.141 | 0.14 | A5m |
| 44127 | 9 | 0 | 36.1 | +47 | 57 | 35.9 | 135.150512 | +47.959976 | 3.12 | 0.223 | 0.25 | A7IV |
| 44191 | 9 | 0 | 51.4 | -41 | 20 | 3.0 | 135.214141 | -41.334159 | 4.45 | 0.646 | 0.75 | Fp |
| 44248 | 9 | 1 | 57.7 | +41 | 42 | 2.0 | 135.490464 | +41.700547 | 3.96 | 0.463 | 0.53 | F5V |
| 44382 | 9 | 2 | 45.9 | -66 | 28 | 41.6 | 135.691350 | -66.478212 | 4.00 | 0.145 | 0.15 | Am |
| 44390 | 9 | 4 | 21.9 | +67 | 32 | 52.2 | 136.091212 | +67.547822 | 4.74 | 1.542 | 2.15 | M3III |
| 44471 | 9 | 5 | 0.9 | +47 | 4 | 26.5 | 136.253912 | +47.074019 | 3.57 | 0.007 | 0.03 | A1Vn |
| 44511 | 9 | 4 | 51.8 | -47 | 10 | 48.2 | 136.215695 | -47.180053 | 3.75 | 1.174 | 1.11 | K2III |
| 44599 | 9 | 5 | 11.3 | -72 | 41 | 6.8 | 136.296911 | -72.685221 | 4.47 | 0.607 | 0.67 | F6II-III |
| 44626 | 9 | 5 | 47.8 | -70 | 37 | 16.0 | 136.449362 | -70.621121 | 4.66 | -0.149 | -0.13 | B2IVe |
| 44659 | 9 | 7 | 3.0 | +5 | 0 | 33.5 | 136.762646 | +5.009304 | 4.99 | 1.189 | 1.17 | K2II-III |
| 44700 | 9 | 7 | 49.6 | +38 | 22 | 8.2 | 136.956735 | +38.368958 | 4.56 | 1.037 | 0.97 | G8Ib-II |
| 44816 | 9 | 8 | 45.1 | -43 | 30 | 57.9 | 137.187791 | -43.516095 | 2.23 | 1.665 | 1.69 | K4Ib-II |
| 44824 | 9 | 8 | 56.9 | -25 | 56 | 31.8 | 137.237153 | -25.942160 | 4.62 | 1.594 | 1.66 | K4/K5III |
| 44901 | 9 | 10 | 18.4 | +51 | 31 | 13.7 | 137.576460 | +51.520473 | 4.46 | 0.288 | 0.30 | Am |
| 45038 | 9 | 12 | 10.1 | +67 | 2 | 56.2 | 138.042232 | +67.048950 | 4.80 | 0.489 | 0.57 | F7IV-V |
| 45075 | 9 | 12 | 35.1 | +63 | 25 | 42.9 | 138.146420 | +63.428572 | 4.67 | 0.381 | 0.45 | Am |
| 45080 | 9 | 11 | 30.4 | -59 | 3 | 4.9 | 137.876871 | -59.051366 | 3.43 | -0.190 | -0.17 | B2IV |
| 45085 | 9 | 11 | 49.1 | -44 | 57 | 9.0 | 137.954605 | -44.952496 | 4.99 | 0.222 | 0.36 | B5Ia |
| 45101 | 9 | 11 | 44.6 | -62 | 24 | 5.5 | 137.935696 | -62.401529 | 3.96 | -0.180 | -0.18 | B3IV |
| 45238 | 9 | 13 | 25.0 | -69 | 48 | 6.6 | 138.354241 | -69.801839 | 1.67 | 0.070 | 0.02 | A2IV |
| 45336 | 9 | 15 | 25.8 | +2 | 13 | 36.5 | 138.857320 | +2.226818 | 3.89 | -0.060 | -0.07 | B9.5V |
| 45439 | 9 | 16 | 25.3 | -38 | 39 | 22.1 | 139.105292 | -38.656126 | 4.92 | 1.084 | 1.06 | K1III |
| 45448 | 9 | 16 | 34.4 | -37 | 29 | 57.7 | 139.143252 | -37.499361 | 4.63 | 0.473 | 0.52 | F3/F5V |
| 45493 | 9 | 17 | 39.1 | +53 | 56 | 8.8 | 139.412779 | +53.935766 | 4.80 | 0.199 | 0.26 | A5V |
| 45496 | 9 | 16 | 46.8 | -57 | 37 | 40.2 | 139.195038 | -57.627839 | 4.34 | 1.602 | 1.83 | M1III |
| 45556 | 9 | 17 | 38.3 | -59 | 21 | 42.2 | 139.409641 | -59.361724 | 2.21 | 0.189 | 0.28 | A8Ib |
| 45688 | 9 | 20 | 6.8 | +36 | 42 | 52.8 | 140.028358 | +36.714660 | 3.82 | 0.066 | 0.12 | A1V |
| 45751 | 9 | 20 | 45.6 | -12 | 3 | 44.2 | 140.190138 | -12.062287 | 4.77 | 0.927 | 0.91 | G8III |
| 45811 | 9 | 21 | 29.1 | -9 | 38 | 36.9 | 140.371122 | -9.643574 | 4.80 | 0.913 | 0.92 | F5V+... |
| 45856 | 9 | 21 | 26.3 | -62 | 29 | 32.7 | 140.359457 | -62.492428 | 4.79 | 0.926 | 0.96 | G6III |
| 45860 | 9 | 22 | 17.9 | +34 | 18 | 16.9 | 140.574576 | +34.304694 | 3.14 | 1.550 | 1.65 | M0IIIvar |
| 45902 | 9 | 22 | 24.1 | -26 | 3 | 12.7 | 140.600424 | -26.053526 | 4.71 | 1.633 | 1.91 | M0III |
| 45941 | 9 | 22 | 45.0 | -55 | 5 | 55.7 | 140.687303 | -55.098795 | 2.47 | -0.141 | -0.17 | B2IV |
| 46026 | 9 | 24 | 5.6 | -28 | 55 | 20.4 | 141.023178 | -28.922331 | 4.71 | 0.892 | 0.91 | G8III |
| 46146 | 9 | 25 | 50.6 | +26 | 5 | 34.7 | 141.461020 | +26.092984 | 4.47 | 1.222 | 1.20 | K2III |
| 46371 | 9 | 28 | 14.7 | -22 | 26 | 4.1 | 142.061375 | -22.434472 | 4.72 | 1.154 | 1.11 | K1III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|----------|
| | NH | h | m | s | ° | ' | " | ° | | | | |
| 46390 | 9 | 28 | 35.7 | -8 | 44 | 54.1 | 142.148648 | -8.748369 | 1.99 | 1.440 | 1.39 | K3III |
| 46509 | 9 | 30 | 11.2 | -2 | 51 | 33.9 | 142.546845 | -2.859414 | 4.59 | 0.411 | 0.52 | F6V |
| 46515 | 9 | 30 | 5.6 | -36 | 2 | 30.3 | 142.523235 | -36.041740 | 4.51 | 1.408 | 1.37 | K3III |
| 46651 | 9 | 31 | 30.6 | -40 | 33 | 26.5 | 142.877575 | -40.557365 | 3.60 | 0.371 | 0.43 | F2IV |
| 46701 | 9 | 31 | 50.7 | -57 | 7 | 31.2 | 142.961436 | -57.125339 | 3.16 | 1.538 | 1.59 | K5III |
| 46733 | 9 | 33 | 7.4 | +62 | 58 | 14.8 | 143.280686 | +62.970776 | 3.65 | 0.360 | 0.41 | F0IV |
| 46750 | 9 | 32 | 53.2 | +22 | 52 | 35.5 | 143.221621 | +22.876527 | 4.32 | 1.541 | 1.63 | K5IIIvar |
| 46771 | 9 | 33 | 2.9 | +11 | 12 | 29.1 | 143.262159 | +11.208076 | 4.99 | 1.046 | 0.89 | K0IIIvar |
| 46776 | 9 | 33 | 1.6 | -1 | 16 | 33.5 | 143.256631 | -1.275972 | 4.54 | 0.109 | 0.16 | A3V |
| 46853 | 9 | 34 | 13.1 | +51 | 34 | 57.8 | 143.554425 | +51.582735 | 3.17 | 0.475 | 0.56 | F6IV |
| 46952 | 9 | 35 | 28.4 | +36 | 18 | 19.6 | 143.868140 | +36.305449 | 4.54 | 0.914 | 0.91 | G8III |
| 46974 | 9 | 35 | 2.4 | -59 | 19 | 18.0 | 143.759846 | -59.321670 | 4.08 | -0.013 | 0.01 | B5II |
| 46977 | 9 | 36 | 15.5 | +69 | 44 | 19.1 | 144.064690 | +69.738639 | 4.54 | 0.781 | 0.83 | G4III-IV |
| 47006 | 9 | 36 | 13.0 | +51 | 57 | 32.7 | 144.054128 | +51.959090 | 4.47 | 0.027 | 0.08 | A2V |
| 47029 | 9 | 36 | 20.1 | +39 | 31 | 45.8 | 144.083915 | +39.529376 | 4.81 | 0.992 | 1.00 | K0III |
| 47175 | 9 | 37 | 33.7 | -49 | 26 | 50.9 | 144.390237 | -49.447458 | 4.34 | 0.173 | 0.18 | A5V |
| 47193 | 9 | 39 | 51.6 | +81 | 13 | 59.7 | 144.964815 | +81.233254 | 4.28 | 1.488 | 1.46 | K3III |
| 47205 | 9 | 38 | 17.5 | +6 | 44 | 34.9 | 144.572920 | +6.743033 | 5.00 | 1.051 | 1.03 | K1IIIvar |
| 47310 | 9 | 39 | 31.4 | +4 | 33 | 21.0 | 144.880712 | +4.555829 | 4.68 | 1.310 | 1.35 | K3III |
| 47391 | 9 | 39 | 55.1 | -61 | 25 | 16.8 | 144.979527 | -61.421329 | 4.51 | -0.070 | -0.06 | B9V |
| 47431 | 9 | 40 | 54.1 | -1 | 14 | 12.3 | 145.225548 | -1.236745 | 3.90 | 1.313 | 1.29 | K3IIIvar |
| 47508 | 9 | 42 | 14.6 | +9 | 47 | 53.3 | 145.560696 | +9.798142 | 3.52 | 0.516 | 0.59 | A5V+... |
| 47522 | 9 | 42 | 13.2 | -23 | 41 | 7.7 | 145.554985 | -23.685471 | 4.76 | -0.117 | -0.10 | B5V |
| 47592 | 9 | 43 | 10.0 | -24 | 0 | 30.1 | 145.791678 | -24.008348 | 4.93 | 0.534 | 0.58 | G0V |
| 47758 | 9 | 45 | 7.0 | -27 | 51 | 50.6 | 146.279172 | -27.864049 | 4.78 | 0.516 | 0.61 | A7V+... |
| 47854 | 9 | 45 | 48.6 | -62 | 36 | 10.4 | 146.452540 | -62.602885 | 3.69 | 1.010 | 1.03 | G5Iab/Ib |
| 47908 | 9 | 47 | 0.7 | +23 | 40 | 44.1 | 146.752759 | +23.678925 | 2.97 | 0.808 | 0.81 | G0II |
| 48002 | 9 | 47 | 36.8 | -65 | 10 | 3.0 | 146.903398 | -65.167509 | 2.92 | 0.273 | 0.42 | A9 |
| 48319 | 9 | 52 | 25.8 | +58 | 56 | 28.3 | 148.107581 | +58.941197 | 3.78 | 0.291 | 0.39 | F0IV |
| 48356 | 9 | 52 | 27.9 | -14 | 56 | 36.6 | 148.116209 | -14.943491 | 4.11 | 0.918 | 0.92 | G6/G8III |
| 48374 | 9 | 52 | 28.3 | -46 | 38 | 39.7 | 148.117980 | -46.644360 | 4.58 | 1.172 | 1.10 | G5Ib |
| 48402 | 9 | 53 | 29.3 | +53 | 58 | 2.8 | 148.371889 | +53.967455 | 4.55 | 0.038 | 0.09 | A3IV |
| 48455 | 9 | 53 | 55.5 | +25 | 54 | 34.3 | 148.481362 | +25.909520 | 3.88 | 1.222 | 1.13 | K0III |
| 48559 | 9 | 55 | 8.1 | -26 | 1 | 46.2 | 148.783908 | -26.029502 | 4.87 | 1.199 | 1.19 | K2III |
| 48615 | 9 | 55 | 50.3 | -19 | 6 | 26.0 | 148.959498 | -19.107214 | 4.94 | 1.559 | 1.75 | K5III |
| 48774 | 9 | 57 | 35.1 | -54 | 39 | 57.2 | 149.396081 | -54.665902 | 3.52 | -0.067 | -0.04 | B5Ib |
| 49029 | 10 | 1 | 17.7 | +7 | 56 | 42.3 | 150.323791 | +7.945088 | 4.68 | 1.589 | 1.96 | M2III |
| 49402 | 10 | 6 | 7.4 | -13 | 9 | 53.0 | 151.530819 | -13.164711 | 4.60 | -0.087 | -0.07 | B8V |
| 49583 | 10 | 8 | 26.8 | +16 | 39 | 43.0 | 152.111854 | +16.661931 | 3.48 | -0.031 | 0.06 | A0Ib |
| 49593 | 10 | 8 | 37.9 | +35 | 8 | 38.2 | 152.158091 | +35.143933 | 4.49 | 0.190 | 0.19 | A7V |
| 49637 | 10 | 8 | 59.4 | +9 | 53 | 46.6 | 152.247662 | +9.896291 | 4.39 | 1.448 | 1.51 | K4III |
| 49641 | 10 | 8 | 59.2 | -0 | 28 | 21.1 | 152.246594 | -0.472521 | 4.48 | -0.032 | -0.01 | A0III |
| 49669 | 10 | 9 | 27.7 | +11 | 51 | 58.6 | 152.365397 | +11.866265 | 1.36 | -0.087 | -0.10 | B7V |
| 49712 | 10 | 9 | 43.0 | -51 | 54 | 44.4 | 152.429349 | -51.912323 | 4.85 | -0.120 | -0.10 | B3IV |
| 49841 | 10 | 11 | 35.3 | -12 | 27 | 22.0 | 152.896997 | -12.456109 | 3.61 | 1.007 | 0.96 | K0III |
| 50099 | 10 | 14 | 13.4 | -70 | 8 | 23.9 | 153.555697 | -70.139981 | 3.29 | -0.074 | -0.03 | B8III |
| 50191 | 10 | 15 | 36.0 | -42 | 13 | 26.6 | 153.899830 | -42.224047 | 3.85 | 0.051 | 0.03 | A2V |
| 50335 | 10 | 17 | 49.6 | +23 | 18 | 52.0 | 154.456690 | +23.314432 | 3.43 | 0.307 | 0.39 | F0III |
| 50371 | 10 | 17 | 46.2 | -61 | 26 | 6.5 | 154.442569 | -61.435143 | 3.39 | 1.541 | 1.45 | K3II |
| 50372 | 10 | 18 | 19.5 | +42 | 48 | 40.3 | 154.581184 | +42.811193 | 3.45 | 0.029 | 0.05 | A2IV |
| 50555 | 10 | 20 | 23.2 | -55 | 7 | 57.7 | 155.096533 | -55.132704 | 4.59 | 1.600 | 1.50 | K3II |
| 50564 | 10 | 20 | 50.9 | +19 | 21 | 58.5 | 155.212263 | +19.366239 | 4.78 | 0.452 | 0.53 | F6IV |
| 50583 | 10 | 21 | 6.0 | +19 | 44 | 13.6 | 155.274874 | +19.737104 | 2.01 | 1.128 | 1.17 | K0III |
| 50676 | 10 | 21 | 40.8 | -56 | 8 | 48.9 | 155.419886 | -56.146905 | 4.50 | -0.102 | -0.08 | B3III |
| 50799 | 10 | 23 | 12.5 | -41 | 45 | 13.0 | 155.802178 | -41.753619 | 4.82 | 1.095 | 1.06 | K1IIIvar |
| 50801 | 10 | 23 | 32.6 | +41 | 23 | 44.4 | 155.885701 | +41.395675 | 3.06 | 1.603 | 1.77 | M0III SB |
| 50847 | 10 | 23 | 34.7 | -67 | 0 | 19.9 | 155.894709 | -67.005537 | 4.97 | -0.128 | -0.12 | B8V |
| 50933 | 10 | 25 | 35.1 | +65 | 27 | 42.8 | 156.396256 | +65.461886 | 4.94 | -0.052 | -0.02 | A0sp... |
| 50954 | 10 | 24 | 47.8 | -74 | 8 | 10.1 | 156.199273 | -74.136134 | 3.99 | 0.369 | 0.43 | F2IV |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----|----|------|-----|----|------|------------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 51056 | 10 | 27 | 5.0 | +33 | 41 | 27.8 | 156.770764 | +33.691045 | 4.72 | 0.260 | 0.31 | F0V |
| 51069 | 10 | 27 | 5.0 | -16 | 56 | 29.4 | 156.770763 | -16.941500 | 3.83 | 1.456 | 1.47 | K4III |
| 51172 | 10 | 28 | 5.5 | -31 | 10 | 21.7 | 157.023009 | -31.172694 | 4.28 | 1.429 | 1.47 | K4III |
| 51192 | 10 | 28 | 10.5 | -57 | 44 | 37.6 | 157.043868 | -57.743786 | 4.65 | 0.474 | 0.69 | A6Ia |
| 51232 | 10 | 28 | 38.1 | -58 | 50 | 40.1 | 157.158796 | -58.844483 | 3.81 | 0.317 | 0.41 | F2II |
| 51233 | 10 | 29 | 3.7 | +36 | 36 | 5.3 | 157.265597 | +36.601469 | 4.20 | 0.908 | 0.89 | G8III-IV |
| 51438 | 10 | 30 | 51.1 | -72 | 5 | 54.6 | 157.713083 | -72.098500 | 4.72 | 0.042 | 0.06 | A2III |
| 51459 | 10 | 31 | 55.5 | +55 | 52 | 28.9 | 157.981154 | +55.874682 | 4.82 | 0.541 | 0.58 | F8V |
| 51495 | 10 | 31 | 30.6 | -73 | 19 | 37.6 | 157.877704 | -73.327116 | 4.94 | 1.677 | 1.71 | K4/K5III |
| 51523 | 10 | 32 | 9.9 | -53 | 49 | 12.3 | 158.041137 | -53.820079 | 4.89 | 0.500 | 0.58 | F6V |
| 51576 | 10 | 32 | 45.4 | -61 | 47 | 28.1 | 158.189355 | -61.791146 | 3.30 | -0.089 | 0.02 | B4Vne |
| 51624 | 10 | 33 | 53.3 | +9 | 12 | 1.8 | 158.472262 | +9.200511 | 3.84 | -0.148 | -0.13 | B1Ib SB |
| 51658 | 10 | 34 | 25.2 | +40 | 19 | 10.1 | 158.605090 | +40.319463 | 4.72 | 0.222 | 0.23 | A7IV |
| 51808 | 10 | 36 | 46.7 | +75 | 36 | 22.8 | 159.194522 | +75.606342 | 4.86 | 0.957 | 0.94 | K0III |
| 51839 | 10 | 35 | 41.7 | -78 | 42 | 51.1 | 158.923771 | -78.714181 | 4.11 | 1.580 | 1.71 | M0III |
| 51849 | 10 | 36 | 22.8 | -57 | 39 | 51.0 | 159.095070 | -57.664168 | 4.45 | 1.604 | 1.62 | K3/K4II |
| 51979 | 10 | 38 | 11.6 | -27 | 31 | 9.7 | 159.548267 | -27.519351 | 4.87 | 1.626 | 1.89 | M1III |
| 51986 | 10 | 38 | 10.1 | -48 | 19 | 56.9 | 159.542166 | -48.332469 | 3.84 | 0.300 | 0.35 | A3m+... |
| 52009 | 10 | 38 | 34.1 | -13 | 29 | 29.9 | 159.641964 | -13.491651 | 4.89 | 2.800 | 2.27 | C |
| 52085 | 10 | 39 | 35.0 | -16 | 59 | 0.6 | 159.895686 | -16.983498 | 4.91 | 0.922 | 0.85 | G8III |
| 52098 | 10 | 39 | 52.1 | +31 | 52 | 9.0 | 159.967204 | +31.869166 | 4.68 | 0.823 | 0.82 | G0II |
| 52102 | 10 | 39 | 32.1 | -59 | 17 | 24.3 | 159.883722 | -59.290078 | 4.69 | 1.562 | 1.63 | K4/K5III: |
| 52154 | 10 | 40 | 7.6 | -55 | 42 | 37.5 | 160.031769 | -55.710428 | 4.29 | 1.025 | 0.96 | G2II |
| 52370 | 10 | 42 | 58.1 | -64 | 34 | 26.5 | 160.741898 | -64.574031 | 4.76 | -0.139 | -0.13 | B3V |
| 52419 | 10 | 43 | 41.6 | -64 | 30 | 7.8 | 160.923189 | -64.502169 | 2.74 | -0.220 | -0.24 | B0Vp |
| 52468 | 10 | 44 | 19.4 | -60 | 40 | 28.2 | 161.080955 | -60.674487 | 4.58 | 1.700 | 1.79 | K3Ib |
| 52502 | 10 | 44 | 51.7 | -64 | 4 | 8.3 | 161.215478 | -64.068980 | 4.80 | -0.134 | -0.12 | B5Vn |
| 52633 | 10 | 45 | 57.2 | -80 | 38 | 54.1 | 161.488260 | -80.648349 | 4.45 | -0.188 | -0.19 | B2.5IV |
| 52727 | 10 | 47 | 39.3 | -49 | 31 | 44.3 | 161.913890 | -49.528960 | 2.69 | 0.901 | 0.91 | G5III SB |
| 52736 | 10 | 47 | 36.3 | -64 | 29 | 30.6 | 161.901321 | -64.491832 | 4.87 | -0.149 | -0.18 | B3IV |
| 52943 | 10 | 50 | 38.3 | -16 | 18 | 5.0 | 162.659389 | -16.301394 | 3.11 | 1.232 | 1.22 | K0/K1III |
| 53229 | 10 | 54 | 27.2 | +34 | 6 | 14.0 | 163.613219 | +34.103884 | 3.79 | 1.040 | 1.07 | K0III-IV |
| 53253 | 10 | 54 | 20.0 | -58 | 57 | 44.5 | 163.583248 | -58.962358 | 3.78 | 0.945 | 0.96 | K0III-IV... |
| 53295 | 10 | 55 | 9.1 | +43 | 4 | 49.2 | 163.787841 | +43.080326 | 4.66 | -0.039 | 0.01 | A1Vs |
| 53417 | 10 | 56 | 43.2 | +24 | 38 | 23.7 | 164.179902 | +24.639920 | 4.30 | 0.016 | 0.07 | A1 |
| 53502 | 10 | 57 | 40.6 | -37 | 14 | 53.9 | 164.419101 | -37.248313 | 4.60 | 1.006 | 0.99 | K0III |
| 53740 | 11 | 0 | 46.5 | -18 | 24 | 30.0 | 165.193774 | -18.408326 | 4.08 | 1.079 | 1.06 | K1III |
| 53773 | 11 | 1 | 6.0 | -42 | 20 | 10.1 | 165.274823 | -42.336139 | 4.37 | 0.116 | 0.13 | A3IV |
| 53807 | 11 | 1 | 37.1 | +3 | 30 | 25.3 | 165.404727 | +3.507040 | 4.84 | 1.144 | 1.13 | K1III |
| 53824 | 11 | 1 | 48.5 | +5 | 59 | 27.4 | 165.452086 | +5.990938 | 4.98 | 0.166 | 0.18 | A5III |
| 53907 | 11 | 2 | 52.4 | -2 | 35 | 43.1 | 165.718402 | -2.595308 | 4.73 | 1.593 | 1.77 | K5III |
| 53910 | 11 | 3 | 3.9 | +56 | 16 | 19.5 | 165.766325 | +56.272079 | 2.34 | 0.033 | 0.02 | A1V |
| 53954 | 11 | 3 | 25.3 | +20 | 4 | 10.1 | 165.855286 | +20.069475 | 4.42 | 0.053 | 0.03 | A1m |
| 54061 | 11 | 4 | 58.5 | +61 | 38 | 24.3 | 166.243928 | +61.640072 | 1.81 | 1.061 | 1.03 | F7V comp |
| 54182 | 11 | 6 | 4.4 | +7 | 13 | 29.4 | 166.518414 | +7.224837 | 4.62 | 0.332 | 0.39 | F2III-IVvar |
| 54204 | 11 | 6 | 19.3 | -27 | 24 | 16.5 | 166.580565 | -27.404590 | 4.92 | 0.369 | 0.43 | F3IV/V |
| 54301 | 11 | 7 | 23.3 | -62 | 32 | 6.5 | 166.847075 | -62.535131 | 4.62 | 0.988 | 0.97 | G8III |
| 54463 | 11 | 9 | 28.3 | -59 | 5 | 10.8 | 167.368098 | -59.086328 | 3.93 | 1.225 | 1.19 | G0Ia0 |
| 54539 | 11 | 10 | 48.5 | +44 | 23 | 12.8 | 167.702123 | +44.386901 | 3.00 | 1.144 | 1.09 | K1III |
| 54682 | 11 | 12 | 40.1 | -22 | 56 | 16.9 | 168.167219 | -22.938034 | 4.46 | 0.025 | 0.04 | A1V |
| 54751 | 11 | 13 | 29.2 | -60 | 25 | 45.6 | 168.371793 | -60.429339 | 4.59 | 0.541 | 0.70 | A6Ia |
| 54872 | 11 | 15 | 11.7 | +20 | 24 | 40.0 | 168.798942 | +20.411105 | 2.56 | 0.128 | 0.12 | A4V |
| 54879 | 11 | 15 | 18.8 | +15 | 19 | 2.0 | 168.828463 | +15.317230 | 3.33 | -0.003 | 0.01 | A2V |
| 54951 | 11 | 16 | 17.5 | +22 | 59 | 0.4 | 169.072763 | +22.983457 | 4.56 | 1.657 | 2.27 | M3III |
| 55084 | 11 | 17 | 42.3 | -3 | 45 | 50.1 | 169.426076 | -3.763927 | 4.45 | 0.210 | 0.25 | A7IVn |
| 55219 | 11 | 19 | 34.9 | +32 | 58 | 55.8 | 169.895387 | +32.982164 | 3.49 | 1.400 | 1.37 | K3III SB |
| 55266 | 11 | 20 | 14.6 | +38 | 4 | 22.2 | 170.060821 | +38.072826 | 4.76 | 0.113 | 0.11 | A2V |
| 55282 | 11 | 20 | 22.0 | -14 | 53 | 23.1 | 170.091848 | -14.889760 | 3.56 | 1.112 | 1.12 | K0III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | δ | | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|----------|--------|-------|-----|-----------|----------|
| | NH | h | m | s | ° | ' | " | ° | ° | | | | | |
| 55425 | 11 | 21 | 56.9 | -54 | 36 | 12.7 | 170.487179 | -54.603536 | 3.90 | -0.157 | -0.16 | | B5Vn | |
| 55434 | 11 | 22 | 11.6 | +5 | 55 | 0.2 | 170.548249 | +5.916730 | 4.05 | -0.058 | -0.06 | | B9.5Vs | |
| 55560 | 11 | 23 | 56.7 | +43 | 22 | 11.9 | 170.986131 | +43.369966 | 4.99 | 0.998 | 0.94 | | G8II | |
| 55588 | 11 | 24 | 12.5 | -36 | 16 | 38.9 | 171.052117 | -36.277458 | 5.00 | 1.464 | 1.47 | | K4III | |
| 55642 | 11 | 24 | 59.5 | +10 | 24 | 58.8 | 171.247736 | +10.416333 | 4.00 | 0.423 | 0.47 | | F2IV SB | |
| 55687 | 11 | 25 | 38.8 | -10 | 58 | 19.1 | 171.411622 | -10.971982 | 4.81 | 1.556 | 1.67 | | K5III | |
| 55705 | 11 | 25 | 54.5 | -17 | 47 | 48.5 | 171.477090 | -17.796807 | 4.06 | 0.216 | 0.24 | | A9V | |
| 55945 | 11 | 28 | 59.5 | +2 | 44 | 35.4 | 172.247826 | +2.743173 | 4.95 | 1.000 | 0.95 | | G8II-III | |
| 56127 | 11 | 31 | 21.8 | -3 | 7 | 0.4 | 172.840690 | -3.116786 | 4.77 | 1.529 | 1.62 | | K4III | |
| 56211 | 11 | 32 | 35.9 | +69 | 13 | 3.8 | 173.149653 | +69.217709 | 3.82 | 1.613 | 1.79 | | M0IIIvar | |
| 56280 | 11 | 33 | 17.6 | -29 | 22 | 24.7 | 173.323260 | -29.373530 | 4.93 | 0.540 | 0.61 | | F8V | |
| 56343 | 11 | 34 | 0.9 | -31 | 58 | 16.3 | 173.503548 | -31.971208 | 3.54 | 0.947 | 0.92 | | G8III | |
| 56480 | 11 | 35 | 44.5 | -54 | 22 | 38.8 | 173.935211 | -54.377447 | 4.62 | -0.077 | -0.06 | | B9V | |
| 56561 | 11 | 36 | 44.2 | -63 | 8 | 0.2 | 174.184337 | -63.133381 | 3.11 | -0.044 | -0.01 | | B9II: | |
| 56633 | 11 | 37 | 43.4 | -9 | 54 | 56.8 | 174.430800 | -9.915780 | 4.70 | -0.073 | -0.06 | | B9.5Vn | |
| 56647 | 11 | 37 | 59.9 | -0 | 56 | 13.5 | 174.499677 | -0.937070 | 4.30 | 0.983 | 0.98 | | G9III | |
| 56922 | 11 | 41 | 14.2 | -34 | 51 | 30.2 | 175.308960 | -34.858380 | 4.70 | -0.070 | -0.05 | | B9V | |
| 56986 | 11 | 41 | 52.4 | -62 | 12 | 13.8 | 175.468409 | -62.203832 | 4.93 | 1.111 | 1.11 | | G3Ib | |
| 57175 | 11 | 44 | 30.5 | -62 | 36 | 11.6 | 176.127224 | -62.603225 | 5.00 | 0.784 | 0.87 | | F9Ia | |
| 57283 | 11 | 45 | 48.3 | -18 | 27 | 52.9 | 176.451086 | -18.464689 | 4.71 | 0.958 | 0.94 | | G8III | |
| 57328 | 11 | 46 | 20.4 | +8 | 8 | 38.8 | 176.584983 | +8.144098 | 4.84 | 0.174 | 0.19 | | A4V | |
| 57363 | 11 | 46 | 35.2 | -66 | 50 | 32.9 | 176.646835 | -66.842481 | 3.63 | 0.160 | 0.17 | | A7III | |
| 57380 | 11 | 46 | 54.7 | +6 | 24 | 52.1 | 176.728119 | +6.414465 | 4.04 | 1.501 | 1.79 | | M0III | |
| 57399 | 11 | 47 | 7.5 | +47 | 39 | 56.3 | 176.781386 | +47.665646 | 3.69 | 1.181 | 1.15 | | K0III | |
| 57439 | 11 | 47 | 31.0 | -61 | 17 | 32.7 | 176.879038 | -61.292419 | 4.11 | 0.895 | 0.88 | | G0II | |
| 57443 | 11 | 47 | 30.1 | -40 | 36 | 43.3 | 176.875368 | -40.612041 | 4.89 | 0.664 | 0.73 | | G3/G5V | |
| 57565 | 11 | 49 | 2.5 | +20 | 6 | 17.8 | 177.260269 | +20.104939 | 4.50 | 0.547 | 0.69 | | A comp SB | |
| 57581 | 11 | 49 | 14.5 | -66 | 55 | 44.3 | 177.310514 | -66.928976 | 4.75 | 1.522 | 1.62 | | K4III | |
| 57632 | 11 | 50 | 6.2 | +14 | 27 | 26.8 | 177.526016 | +14.457433 | 2.14 | 0.090 | 0.10 | | A3Vvar | |
| 57669 | 11 | 50 | 41.7 | -63 | 54 | 8.9 | 177.673566 | -63.902462 | 4.30 | -0.149 | -0.09 | | B3V | |
| 57696 | 11 | 50 | 56.4 | -70 | 20 | 23.3 | 177.735126 | -70.339815 | 4.98 | 1.360 | 1.31 | | G5Ib | |
| 57757 | 11 | 51 | 45.8 | +1 | 38 | 57.1 | 177.940707 | +1.649182 | 3.59 | 0.518 | 0.61 | | F8V | |
| 57803 | 11 | 52 | 10.6 | -45 | 17 | 15.2 | 178.044092 | -45.287556 | 4.47 | 1.283 | 1.24 | | K4III | |
| 57851 | 11 | 52 | 52.2 | -65 | 19 | 12.0 | 178.217363 | -65.319996 | 4.89 | -0.123 | -0.11 | | B4V | |
| 57936 | 11 | 53 | 56.9 | -34 | 1 | 19.8 | 178.487209 | -34.022177 | 4.29 | -0.100 | -0.07 | | Ap Si | |
| 58001 | 11 | 54 | 54.0 | +53 | 34 | 50.7 | 178.725147 | +53.580744 | 2.41 | 0.044 | 0.06 | | A0V SB | |
| 58484 | 12 | 0 | 40.4 | -78 | 20 | 9.6 | 180.168426 | -78.335999 | 4.88 | -0.054 | -0.02 | | B9Vn | |
| 58590 | 12 | 1 | 55.4 | +6 | 30 | 0.2 | 180.480842 | +6.500047 | 4.65 | 0.122 | 0.14 | | A5V | |
| 58758 | 12 | 4 | 4.9 | -63 | 25 | 37.2 | 181.020527 | -63.426995 | 4.32 | 0.280 | 0.36 | | Am | |
| 58867 | 12 | 5 | 23.3 | -63 | 16 | 47.3 | 181.347277 | -63.279798 | 4.72 | -0.081 | -0.06 | | B2IV | |
| 58948 | 12 | 6 | 15.2 | +8 | 37 | 9.2 | 181.563206 | +8.619228 | 4.12 | 0.967 | 0.96 | | G8III | |
| 59072 | 12 | 7 | 57.9 | -64 | 43 | 40.8 | 181.991302 | -64.727991 | 4.14 | 0.353 | 0.41 | | F2III | |
| 59173 | 12 | 9 | 9.4 | -50 | 46 | 31.3 | 182.289352 | -50.775365 | 4.46 | -0.163 | -0.16 | | B2IIIne | |
| 59196 | 12 | 9 | 25.7 | -50 | 50 | 11.4 | 182.357222 | -50.836488 | 2.58 | -0.128 | -0.12 | | B2IVne | |
| 59199 | 12 | 9 | 28.5 | -24 | 50 | 35.2 | 182.368705 | -24.843120 | 4.02 | 0.334 | 0.40 | | F0IV/V | |
| 59316 | 12 | 11 | 10.9 | -22 | 44 | 1.3 | 182.795586 | -22.733697 | 3.02 | 1.326 | 1.23 | | K2III | |
| 59449 | 12 | 12 | 43.9 | -52 | 28 | 57.1 | 183.183098 | -52.482514 | 3.97 | -0.156 | -0.17 | | B3V | |
| 59747 | 12 | 16 | 14.7 | -58 | 51 | 46.2 | 184.061453 | -58.862833 | 2.79 | -0.193 | -0.25 | | B2IV | |
| 59774 | 12 | 16 | 25.9 | +56 | 55 | 7.8 | 184.107993 | +56.918823 | 3.32 | 0.077 | 0.03 | | A3Vvar | |
| 59803 | 12 | 16 | 51.8 | -17 | 39 | 20.3 | 184.215822 | -17.655629 | 2.58 | -0.107 | -0.10 | | B8III | |
| 59847 | 12 | 17 | 22.6 | +23 | 49 | 53.7 | 184.344328 | +23.831572 | 4.93 | 0.957 | 0.94 | | K0III | |
| 59856 | 12 | 17 | 31.8 | +32 | 56 | 49.6 | 184.382338 | +32.947107 | 4.99 | 1.140 | 1.12 | | K1III | |
| 59929 | 12 | 18 | 41.8 | -68 | 4 | 28.7 | 184.674368 | -68.074638 | 4.06 | 1.603 | 2.82 | | M5III | |
| 60000 | 12 | 19 | 35.6 | -79 | 25 | 33.2 | 184.898525 | -79.425895 | 4.24 | -0.123 | -0.11 | | B5Vn | |
| 60009 | 12 | 19 | 33.8 | -64 | 7 | 0.7 | 184.891008 | -64.116849 | 4.06 | -0.168 | -0.18 | | B2.5V | |
| 60129 | 12 | 20 | 57.3 | -0 | 46 | 50.1 | 185.238918 | -0.780592 | 3.89 | 0.026 | 0.03 | | A2IV | |
| 60172 | 12 | 21 | 23.5 | +3 | 11 | 54.9 | 185.347826 | +3.198585 | 4.97 | 1.172 | 1.19 | | K1III | |
| 60202 | 12 | 21 | 45.1 | +17 | 40 | 47.1 | 185.437889 | +17.679736 | 4.72 | 1.010 | 1.02 | | G8III | |
| 60260 | 12 | 22 | 28.8 | -60 | 30 | 51.2 | 185.619973 | -60.514228 | 3.59 | 1.389 | 1.39 | | K3/K4III | |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 60351 | 12 | 23 | 32.0 | +25 | 43 | 57.3 | 185.883336 | +25.732573 | 4.78 | 0.515 | 0.61 | F8:p... |
| 60485 | 12 | 25 | 0.9 | +51 | 26 | 55.9 | 186.253652 | +51.448859 | 4.76 | 0.877 | 0.89 | G7III |
| 60697 | 12 | 27 | 25.4 | +27 | 9 | 17.5 | 186.855931 | +27.154853 | 4.92 | 0.277 | 0.28 | F0p |
| 60710 | 12 | 27 | 38.8 | -51 | 33 | 50.4 | 186.911607 | -51.564007 | 4.82 | -0.141 | -0.16 | B3Vn |
| 60718 | 12 | 27 | 45.2 | -63 | 12 | 44.9 | 186.938438 | -63.212485 | 0.77 | -0.243 | -0.26 | B0.5IV |
| 60742 | 12 | 27 | 57.4 | +28 | 9 | 16.8 | 186.989259 | +28.154677 | 4.35 | 1.128 | 1.04 | K2IIICN+... |
| 60746 | 12 | 28 | 0.7 | +26 | 42 | 44.5 | 187.002737 | +26.712356 | 4.98 | 0.088 | 0.05 | A4V |
| 60823 | 12 | 29 | 9.4 | -50 | 20 | 38.1 | 187.289375 | -50.343929 | 3.91 | -0.192 | -0.20 | B3V |
| 60965 | 12 | 30 | 55.7 | -16 | 37 | 45.5 | 187.731970 | -16.629317 | 2.94 | -0.012 | -0.04 | B9.5V |
| 61084 | 12 | 32 | 18.9 | -57 | 13 | 39.7 | 188.078835 | -57.227700 | 1.59 | 1.600 | 2.37 | M4III |
| 61174 | 12 | 33 | 7.8 | -16 | 18 | 33.5 | 188.282504 | -16.309293 | 4.30 | 0.388 | 0.44 | F2V |
| 61199 | 12 | 33 | 43.1 | -72 | 14 | 45.4 | 188.429555 | -72.245942 | 3.84 | -0.157 | -0.14 | B5V |
| 61281 | 12 | 34 | 20.8 | +69 | 40 | 31.6 | 188.586735 | +69.675435 | 3.85 | -0.116 | -0.02 | B6IIp |
| 61317 | 12 | 34 | 42.7 | +41 | 14 | 46.5 | 188.678101 | +41.246264 | 4.24 | 0.588 | 0.67 | G0V |
| 61359 | 12 | 35 | 28.1 | -23 | 30 | 35.5 | 188.866964 | -23.509860 | 2.65 | 0.893 | 0.88 | G5II |
| 61384 | 12 | 35 | 35.4 | +69 | 54 | 32.4 | 188.897700 | +69.908990 | 4.95 | 1.312 | 1.27 | K2III |
| 61394 | 12 | 35 | 52.3 | +22 | 30 | 60.0 | 188.967835 | +22.516660 | 4.80 | 0.012 | 0.03 | A0IV |
| 61585 | 12 | 38 | 25.7 | -69 | 14 | 53.5 | 189.607231 | -69.248197 | 2.69 | -0.176 | -0.23 | B2IV-V |
| 61622 | 12 | 38 | 50.0 | -48 | 39 | 13.9 | 189.708257 | -48.653866 | 3.85 | 0.049 | 0.06 | A2V |
| 61740 | 12 | 40 | 18.4 | -8 | 6 | 29.2 | 190.076514 | -8.108100 | 4.66 | 1.240 | 1.15 | K2III |
| 61789 | 12 | 40 | 59.5 | -40 | 5 | 59.2 | 190.248032 | -40.099782 | 4.63 | -0.082 | -0.06 | B8II/III |
| 61932 | 12 | 42 | 39.4 | -49 | 4 | 19.5 | 190.664359 | -49.072089 | 2.20 | -0.023 | -0.01 | A1IV |
| 61941 | 12 | 42 | 42.0 | -1 | 33 | 40.4 | 190.674929 | -1.561224 | 2.74 | 0.368 | 0.43 | FOV+... |
| 61960 | 12 | 42 | 55.3 | +10 | 7 | 22.7 | 190.730397 | +10.122963 | 4.88 | 0.076 | 0.08 | A0V |
| 61966 | 12 | 43 | 8.2 | -59 | 47 | 52.8 | 190.784162 | -59.797992 | 4.91 | -0.044 | -0.02 | B6IV |
| 62012 | 12 | 43 | 44.1 | -48 | 55 | 31.3 | 190.933772 | -48.925372 | 4.66 | 1.075 | 1.03 | K0III |
| 62268 | 12 | 46 | 51.3 | -61 | 5 | 36.5 | 191.713795 | -61.093476 | 4.69 | 1.049 | 1.03 | K1III |
| 62322 | 12 | 47 | 33.6 | -68 | 13 | 11.7 | 191.889955 | -68.219906 | 3.04 | -0.178 | -0.19 | B2V |
| 62327 | 12 | 47 | 34.1 | -56 | 36 | 2.2 | 191.892093 | -56.600621 | 4.62 | -0.150 | -0.16 | B3V |
| 62434 | 12 | 48 | 56.0 | -59 | 48 | 1.5 | 192.233312 | -59.800420 | 1.25 | -0.238 | -0.27 | B0.5III |
| 62683 | 12 | 51 | 48.3 | -34 | 6 | 38.4 | 192.951067 | -34.110654 | 4.90 | -0.031 | -0.01 | B9V |
| 62763 | 12 | 52 | 41.7 | +27 | 25 | 46.2 | 193.173840 | +27.429498 | 4.93 | 0.681 | 0.70 | G0III |
| 62867 | 12 | 54 | 17.1 | -49 | 3 | 16.0 | 193.571215 | -49.054450 | 4.33 | 1.344 | 1.33 | K3/K4III |
| 62886 | 12 | 54 | 18.2 | +21 | 8 | 1.6 | 193.576023 | +21.133782 | 4.89 | 0.904 | 0.91 | G8III |
| 62896 | 12 | 54 | 34.8 | -40 | 17 | 23.8 | 193.644845 | -40.289952 | 4.25 | 0.224 | 0.27 | A4IV |
| 62956 | 12 | 54 | 55.5 | +55 | 50 | 55.9 | 193.731332 | +55.848868 | 1.76 | -0.022 | -0.04 | A0p |
| 62985 | 12 | 55 | 25.3 | -9 | 38 | 59.9 | 193.855285 | -9.649960 | 4.77 | 1.590 | 2.18 | M3IIIvar |
| 63003 | 12 | 55 | 48.7 | -57 | 17 | 19.7 | 193.953051 | -57.288818 | 4.03 | -0.180 | -0.26 | B2IV-V |
| 63007 | 12 | 55 | 53.1 | -59 | 15 | 27.3 | 193.971252 | -59.257594 | 4.62 | -0.153 | -0.15 | B4Vn |
| 63090 | 12 | 56 | 38.2 | +3 | 17 | 11.3 | 194.159258 | +3.286468 | 3.39 | 1.571 | 2.24 | M3III |
| 63125 | 12 | 56 | 59.0 | +38 | 12 | 28.9 | 194.245960 | +38.208023 | 2.89 | -0.115 | -0.13 | A0spe... |
| 63355 | 12 | 59 | 56.2 | +17 | 17 | 57.6 | 194.984271 | +17.299342 | 4.76 | 1.568 | 1.79 | M0III |
| 63462 | 13 | 1 | 15.2 | +30 | 40 | 29.5 | 195.313344 | +30.674861 | 4.88 | 1.165 | 1.13 | K1IIIp |
| 63503 | 13 | 1 | 36.2 | +56 | 15 | 22.6 | 195.400653 | +56.256280 | 4.93 | 0.368 | 0.45 | F2V |
| 63608 | 13 | 3 | 11.8 | +10 | 50 | 57.8 | 195.799291 | +10.849390 | 2.85 | 0.934 | 0.83 | G8IIIvar |
| 63613 | 13 | 3 | 42.8 | -71 | 39 | 31.7 | 195.928163 | -71.658813 | 3.61 | 1.190 | 1.17 | K2III |
| 63724 | 13 | 4 | 45.1 | -49 | 38 | 13.2 | 196.188030 | -49.636997 | 4.83 | 0.029 | 0.05 | A0V |
| 63945 | 13 | 7 | 28.6 | -48 | 34 | 21.6 | 196.869114 | -48.572659 | 4.71 | -0.148 | -0.14 | B5V |
| 64004 | 13 | 8 | 7.1 | -50 | 0 | 55.8 | 197.029501 | -50.015512 | 4.27 | -0.182 | -0.18 | B1.5V |
| 64022 | 13 | 8 | 9.7 | +27 | 30 | 54.7 | 197.040209 | +27.515188 | 4.80 | 1.482 | 1.55 | K5III |
| 64166 | 13 | 10 | 9.8 | -23 | 13 | 37.9 | 197.540746 | -23.227181 | 4.94 | 1.048 | 1.02 | K0III |
| 64238 | 13 | 11 | 0.8 | -5 | 38 | 52.6 | 197.753283 | -5.647951 | 4.38 | -0.008 | 0.01 | A1V |
| 64241 | 13 | 10 | 59.1 | +17 | 25 | 17.0 | 197.746143 | +17.421393 | 4.32 | 0.455 | 0.53 | F5V |
| 64394 | 13 | 12 | 49.7 | +27 | 46 | 28.6 | 198.207196 | +27.774612 | 4.23 | 0.572 | 0.67 | G0V |
| 64408 | 13 | 13 | 12.2 | -37 | 54 | 40.3 | 198.300850 | -37.911192 | 4.85 | 0.693 | 0.73 | G3V |
| 64425 | 13 | 13 | 35.4 | -60 | 1 | 44.6 | 198.397420 | -60.029058 | 4.58 | -0.073 | -0.07 | B8V |
| 64540 | 13 | 14 | 38.5 | +40 | 2 | 41.2 | 198.660614 | +40.044784 | 4.94 | 1.061 | 1.03 | K0III |
| 64583 | 13 | 15 | 32.3 | -59 | 12 | 43.8 | 198.884378 | -59.212168 | 4.90 | 0.489 | 0.56 | F7IV |
| 64661 | 13 | 16 | 39.8 | -68 | 0 | 9.2 | 199.166007 | -68.002551 | 4.79 | -0.078 | -0.09 | B8V |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|-------|--------|-------|------------|
| | NH | h | m | s | ° | ' | " | ° | | | | |
| 64820 | 13 | 18 | 37.3 | -66 | 53 | 27.8 | 199.655583 | -66.891054 | 4.86 | 1.480 | 1.50 | K2Ib/II |
| 64844 | 13 | 18 | 27.5 | +40 | 27 | 54.5 | 199.614742 | +40.465143 | 4.72 | 0.306 | 0.31 | F3III |
| 64852 | 13 | 18 | 38.4 | +5 | 21 | 44.6 | 199.660152 | +5.362378 | 4.78 | 1.638 | 1.97 | M2III |
| 64924 | 13 | 19 | 28.9 | -18 | 25 | 28.3 | 199.870476 | -18.424517 | 4.74 | 0.709 | 0.75 | G5V |
| 64962 | 13 | 20 | 2.4 | -23 | 16 | 44.6 | 200.010093 | -23.279059 | 2.99 | 0.920 | 0.90 | G8III |
| 65109 | 13 | 21 | 45.4 | -36 | 49 | 11.3 | 200.439082 | -36.819813 | 2.75 | 0.068 | 0.02 | A2V |
| 65271 | 13 | 23 | 58.5 | -61 | 5 | 42.5 | 200.993615 | -61.095134 | 4.52 | -0.141 | -0.13 | B3V |
| 65378 | 13 | 24 | 44.9 | +54 | 49 | 7.6 | 201.186880 | +54.818767 | 2.23 | 0.057 | 0.07 | A2V |
| 65387 | 13 | 25 | 24.4 | -64 | 38 | 31.9 | 201.351796 | -64.642191 | 4.52 | 0.822 | 0.87 | G5III-IV |
| 65474 | 13 | 26 | 16.5 | -11 | 16 | 3.8 | 201.568906 | -11.267719 | 0.98 | -0.235 | -0.25 | B1V |
| 65477 | 13 | 26 | 2.6 | +54 | 52 | 53.9 | 201.510858 | +54.881625 | 3.99 | 0.169 | 0.19 | A5V SB |
| 65639 | 13 | 28 | 33.0 | -16 | 4 | 45.3 | 202.137388 | -16.079261 | 4.76 | 1.096 | 1.02 | K1IIICN... |
| 65721 | 13 | 29 | 26.0 | +13 | 40 | 11.8 | 202.358284 | +13.669957 | 4.97 | 0.714 | 0.77 | G5V |
| 65936 | 13 | 32 | 14.4 | -39 | 30 | 44.9 | 203.060157 | -39.512480 | 3.90 | 1.186 | 1.10 | G8II/III |
| 66006 | 13 | 33 | 2.0 | -6 | 21 | 39.6 | 203.258194 | -6.361001 | 4.68 | 1.606 | 2.06 | M3III |
| 66200 | 13 | 35 | 10.3 | +3 | 33 | 15.5 | 203.793034 | +3.554315 | 4.92 | 0.029 | 0.03 | A1p SrCrEu |
| 66234 | 13 | 35 | 17.4 | +48 | 54 | 41.9 | 203.822390 | +48.911650 | 4.68 | 0.132 | 0.10 | A5V |
| 66249 | 13 | 35 | 44.4 | -0 | 41 | 59.8 | 203.934903 | -0.699956 | 3.38 | 0.114 | 0.12 | A3V |
| 66257 | 13 | 35 | 42.6 | +37 | 4 | 40.7 | 203.927538 | +37.077963 | 4.91 | 0.404 | 0.55 | F2IV SB |
| 66458 | 13 | 38 | 22.2 | +36 | 11 | 28.2 | 204.592435 | +36.191174 | 4.82 | 0.239 | 0.31 | A7III |
| 66657 | 13 | 41 | 12.0 | -53 | 34 | 11.2 | 205.299955 | -53.569771 | 2.29 | -0.171 | -0.23 | B1III |
| 66738 | 13 | 41 | 30.8 | +54 | 34 | 42.2 | 205.378267 | +54.578388 | 4.63 | 1.630 | 1.97 | M2IIvar |
| 66821 | 13 | 43 | 4.4 | -54 | 39 | 44.9 | 205.768175 | -54.662470 | 4.99 | -0.055 | -0.03 | B8Vn+... |
| 67153 | 13 | 46 | 51.5 | -33 | 8 | 47.7 | 206.714691 | -33.146597 | 4.23 | 0.390 | 0.44 | F3V |
| 67234 | 13 | 47 | 58.0 | -51 | 32 | 5.1 | 206.991508 | -51.534751 | 4.64 | 0.955 | 0.93 | G8/K0III |
| 67275 | 13 | 48 | 14.2 | +17 | 21 | 19.7 | 207.059223 | +17.355474 | 4.50 | 0.508 | 0.51 | F7V |
| 67301 | 13 | 48 | 20.8 | +49 | 12 | 41.4 | 207.086633 | +49.211491 | 1.85 | -0.099 | -0.08 | B3V SB |
| 67457 | 13 | 50 | 38.4 | -34 | 33 | 8.3 | 207.659912 | -34.552318 | 4.19 | 1.520 | 3.00 | M5III |
| 67459 | 13 | 50 | 28.0 | +15 | 41 | 48.9 | 207.616574 | +15.696906 | 4.05 | 1.520 | 1.60 | K5IIvar |
| 67464 | 13 | 50 | 44.6 | -41 | 47 | 20.4 | 207.685652 | -41.789013 | 3.41 | -0.225 | -0.24 | B2IV |
| 67472 | 13 | 50 | 51.6 | -42 | 34 | 30.0 | 207.714994 | -42.575003 | 3.47 | -0.170 | -0.21 | B2IV-Ve |
| 67480 | 13 | 50 | 41.0 | +21 | 9 | 46.9 | 207.670742 | +21.163027 | 4.92 | 1.432 | 1.38 | K4III |
| 67494 | 13 | 50 | 59.3 | -18 | 14 | 7.8 | 207.747270 | -18.235497 | 4.96 | 1.059 | 1.09 | K0III |
| 67627 | 13 | 52 | 1.9 | +64 | 37 | 20.7 | 208.007783 | +64.622429 | 4.58 | 1.572 | 2.35 | M3III |
| 67665 | 13 | 52 | 41.7 | +34 | 20 | 36.1 | 208.173559 | +34.343365 | 4.76 | 1.611 | 1.63 | K5III |
| 67669 | 13 | 53 | 1.0 | -33 | 5 | 41.7 | 208.254034 | -33.094913 | 4.32 | -0.146 | -0.12 | B5 |
| 67786 | 13 | 54 | 23.7 | -32 | 1 | 40.8 | 208.598730 | -32.028003 | 4.75 | -0.111 | -0.10 | B4IV |
| 67927 | 13 | 55 | 39.7 | +18 | 17 | 44.6 | 208.915210 | +18.295724 | 2.68 | 0.580 | 0.65 | G0IV |
| 68002 | 13 | 56 | 49.7 | -47 | 23 | 18.2 | 209.207226 | -47.388384 | 2.55 | -0.176 | -0.18 | B2.5IV |
| 68191 | 13 | 59 | 9.2 | -63 | 47 | 10.0 | 209.788371 | -63.786098 | 4.71 | 1.075 | 1.05 | K4III |
| 68245 | 13 | 59 | 31.5 | -42 | 11 | 59.9 | 209.881445 | -42.199961 | 3.83 | -0.224 | -0.23 | B2IV |
| 68282 | 13 | 59 | 57.3 | -44 | 54 | 9.7 | 209.988670 | -44.902698 | 3.87 | -0.208 | -0.22 | B2IV-V |
| 68520 | 14 | 2 | 41.5 | +1 | 26 | 46.1 | 210.672853 | +1.446135 | 4.23 | 0.121 | 0.14 | A3V |
| 68523 | 14 | 3 | 0.8 | -45 | 42 | 6.4 | 210.753307 | -45.701766 | 4.34 | 0.598 | 0.65 | F6II |
| 68702 | 14 | 5 | 17.3 | -60 | 28 | 15.1 | 211.322072 | -60.470849 | 0.61 | -0.231 | -0.25 | B1III |
| 68756 | 14 | 4 | 56.7 | +64 | 16 | 41.9 | 211.236334 | +64.278304 | 3.67 | -0.049 | -0.08 | A0III SB |
| 68862 | 14 | 7 | 18.4 | -41 | 16 | 36.7 | 211.826482 | -41.276873 | 4.36 | -0.198 | -0.21 | B2V |
| 68895 | 14 | 7 | 32.6 | -26 | 46 | 48.7 | 211.886038 | -26.780190 | 3.25 | 1.091 | 1.10 | K2III |
| 68933 | 14 | 7 | 53.8 | -36 | 28 | 11.3 | 211.974061 | -36.469793 | 2.06 | 1.011 | 1.01 | K0IIIb |
| 69112 | 14 | 8 | 47.9 | +77 | 27 | 4.1 | 212.199722 | +77.451145 | 4.80 | 1.368 | 1.34 | K3III |
| 69191 | 14 | 11 | 17.5 | -53 | 32 | 7.9 | 212.822848 | -53.535529 | 4.74 | 0.938 | 0.92 | G8III |
| 69226 | 14 | 11 | 20.0 | +24 | 59 | 43.2 | 212.833396 | +24.995334 | 4.82 | 0.541 | 0.57 | F9IVw |
| 69269 | 14 | 11 | 57.9 | -16 | 23 | 52.6 | 212.991171 | -16.397954 | 4.93 | 1.684 | 1.94 | M1III |
| 69389 | 14 | 13 | 18.2 | +2 | 18 | 49.7 | 213.325658 | +2.313798 | 4.99 | -0.118 | -0.11 | B9p Si |
| 69427 | 14 | 13 | 59.5 | -10 | 22 | 5.6 | 213.498045 | -10.368229 | 4.18 | 1.323 | 1.35 | K3III |
| 69483 | 14 | 14 | 13.0 | +51 | 41 | 41.0 | 213.554254 | +51.694709 | 4.53 | 0.233 | 0.23 | A8IV |
| 69673 | 14 | 16 | 35.8 | +19 | 4 | 36.2 | 214.149357 | +19.076732 | -0.05 | 1.239 | 1.22 | K2IIp |
| 69701 | 14 | 17 | 5.5 | -6 | 5 | 50.4 | 214.272899 | -6.097328 | 4.07 | 0.511 | 0.59 | F7V |
| 69713 | 14 | 16 | 53.4 | +51 | 16 | 23.8 | 214.222689 | +51.273271 | 4.75 | 0.236 | 0.19 | A9V |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----|----|------|-----|----|------|-------------|------------|-------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 69732 | 14 | 17 | 9.7 | +45 | 59 | 41.3 | 214.290536 | +45.994801 | 4.18 | 0.087 | 0.04 | A0sh |
| 69879 | 14 | 18 | 51.8 | +35 | 24 | 56.4 | 214.715747 | +35.415663 | 4.80 | 1.057 | 1.00 | K1III |
| 69896 | 14 | 20 | 56.3 | -81 | 6 | 6.2 | 215.234581 | -81.101718 | 4.89 | 0.243 | 0.24 | A2m... |
| 69974 | 14 | 20 | 13.3 | -13 | 27 | 52.2 | 215.055581 | -13.464502 | 4.52 | 0.128 | 0.11 | A1V |
| 69996 | 14 | 20 | 43.6 | -46 | 9 | 5.7 | 215.181509 | -46.151571 | 3.55 | -0.184 | -0.18 | B2.5IV |
| 70027 | 14 | 20 | 43.5 | +16 | 12 | 50.0 | 215.181176 | +16.213876 | 4.84 | 1.228 | 1.16 | K3III |
| 70069 | 14 | 21 | 46.4 | -56 | 28 | 47.0 | 215.443250 | -56.479714 | 4.30 | 0.082 | 0.21 | B6Ib |
| 70090 | 14 | 21 | 48.7 | -37 | 58 | 42.6 | 215.452864 | -37.978494 | 4.05 | -0.030 | -0.02 | A0IV |
| 70104 | 14 | 22 | 1.7 | -45 | 16 | 50.0 | 215.506901 | -45.280552 | 4.78 | 0.310 | 0.36 | F0IV |
| 70264 | 14 | 24 | 6.2 | -58 | 33 | 5.5 | 216.025646 | -58.551528 | 4.76 | 0.795 | 0.83 | G8/K1 + F/G |
| 70300 | 14 | 24 | 18.5 | -39 | 36 | 15.7 | 216.077083 | -39.604354 | 4.41 | -0.185 | -0.20 | B2V |
| 70306 | 14 | 24 | 17.0 | -27 | 50 | 49.5 | 216.070727 | -27.847075 | 4.78 | 1.300 | 1.31 | K3III |
| 70327 | 14 | 24 | 23.3 | +8 | 21 | 15.2 | 216.096876 | +8.354211 | 4.86 | 0.010 | 0.07 | A0V |
| 70497 | 14 | 25 | 53.7 | +51 | 45 | 24.0 | 216.473628 | +51.756661 | 4.04 | 0.497 | 0.59 | F7V |
| 70574 | 14 | 27 | 27.8 | -45 | 18 | 46.8 | 216.865628 | -45.312994 | 4.56 | -0.147 | -0.14 | B2IV |
| 70576 | 14 | 27 | 30.5 | -45 | 28 | 14.8 | 216.877027 | -45.470791 | 4.33 | 0.434 | 0.58 | A7:+... |
| 70638 | 14 | 30 | 27.3 | -83 | 45 | 32.0 | 217.613796 | -83.758888 | 4.31 | 1.300 | 1.30 | K2III |
| 70692 | 14 | 27 | 30.4 | +75 | 36 | 17.4 | 216.876552 | +75.604837 | 4.25 | 1.431 | 1.42 | K4III |
| 70753 | 14 | 29 | 22.8 | -29 | 34 | 57.6 | 217.345006 | -29.582670 | 4.97 | -0.074 | -0.05 | B7/B8V |
| 70755 | 14 | 29 | 15.6 | -2 | 19 | 8.0 | 217.315161 | -2.318888 | 4.81 | 0.693 | 0.73 | G2III |
| 71053 | 14 | 32 | 42.8 | +30 | 16 | 56.2 | 218.178281 | +30.282267 | 3.57 | 1.298 | 1.22 | K3III |
| 71075 | 14 | 32 | 54.2 | +38 | 13 | 9.6 | 218.225715 | +38.219325 | 3.04 | 0.191 | 0.17 | A7IIIvar |
| 71121 | 14 | 34 | 0.6 | -50 | 32 | 48.3 | 218.502633 | -50.546757 | 4.44 | -0.177 | -0.18 | B2III |
| 71284 | 14 | 35 | 34.4 | +29 | 39 | 24.9 | 218.893135 | +29.656913 | 4.47 | 0.364 | 0.41 | F3Vvvar |
| 71352 | 14 | 36 | 49.0 | -42 | 14 | 47.9 | 219.204312 | -42.246636 | 2.33 | -0.157 | -0.17 | B1Vn + A |
| 71536 | 14 | 39 | 16.6 | -49 | 30 | 49.9 | 219.819328 | -49.513857 | 4.05 | -0.152 | -0.16 | B5V |
| 71681 | 14 | 40 | 59.9 | -60 | 55 | 9.1 | 220.249562 | -60.919202 | 1.35 | 0.900 | 0.88 | K1V |
| 71683 | 14 | 41 | 1.1 | -60 | 55 | 7.1 | 220.254580 | -60.918627 | -0.01 | 0.710 | 0.69 | G2V |
| 71762 | 14 | 41 | 41.4 | +16 | 19 | 52.9 | 220.422527 | +16.331350 | 4.49 | -0.002 | 0.02 | B9p MnHg |
| 71795 | 14 | 42 | 7.7 | +13 | 38 | 28.8 | 220.532218 | +13.641342 | 3.78 | 0.044 | 0.06 | A3IVn |
| 71832 | 14 | 42 | 39.2 | +8 | 4 | 30.2 | 220.663454 | +8.075059 | 4.86 | 0.992 | 0.96 | G8IIIvar |
| 71860 | 14 | 43 | 18.2 | -47 | 28 | 29.7 | 220.825711 | -47.474907 | 2.30 | -0.154 | -0.21 | B1.5III |
| 71865 | 14 | 43 | 14.4 | -37 | 52 | 48.9 | 220.810125 | -37.880246 | 4.01 | -0.157 | -0.18 | B2.5V |
| 71908 | 14 | 44 | 11.3 | -65 | 3 | 46.0 | 221.047012 | -65.062775 | 3.18 | 0.256 | 0.26 | F1Vp |
| 71957 | 14 | 44 | 8.6 | -5 | 44 | 46.4 | 221.035772 | -5.746235 | 3.87 | 0.385 | 0.47 | F2III |
| 71995 | 14 | 44 | 19.4 | +26 | 26 | 29.7 | 221.080951 | +26.441595 | 4.80 | 1.672 | 2.13 | M3III |
| 72010 | 14 | 44 | 55.1 | -35 | 15 | 38.4 | 221.229473 | -35.260665 | 4.06 | 1.356 | 1.35 | K3III |
| 72104 | 14 | 46 | 15.0 | -35 | 16 | 38.7 | 221.562684 | -35.277427 | 4.92 | 0.013 | 0.02 | A0V |
| 72105 | 14 | 45 | 52.9 | +26 | 59 | 19.3 | 221.470584 | +26.988682 | 2.35 | 0.966 | 0.95 | A0 |
| 72125 | 14 | 46 | 11.9 | +16 | 52 | 42.4 | 221.549556 | +16.878441 | 4.60 | 0.972 | 0.94 | K0III |
| 72220 | 14 | 47 | 17.2 | +1 | 48 | 27.2 | 221.821718 | +1.807553 | 3.73 | -0.005 | 0.01 | A0V |
| 72370 | 14 | 50 | 30.3 | -79 | 7 | 45.3 | 222.626221 | -79.129245 | 3.83 | 1.433 | 1.42 | K5III |
| 72571 | 14 | 51 | 29.9 | -28 | 2 | 40.4 | 222.874433 | -28.044549 | 4.42 | 1.366 | 1.43 | K3III |
| 72607 | 14 | 50 | 40.0 | +74 | 4 | 18.0 | 222.666565 | +74.071670 | 2.07 | 1.465 | 1.46 | K4IIIvar |
| 72622 | 14 | 52 | 1.0 | -16 | 7 | 32.9 | 223.004040 | -16.125805 | 2.75 | 0.147 | 0.16 | A3IV |
| 72631 | 14 | 52 | 5.0 | -2 | 23 | 0.4 | 223.020758 | -2.383445 | 4.93 | 0.988 | 0.97 | G8... |
| 72659 | 14 | 52 | 20.2 | +19 | 0 | 59.6 | 223.084071 | +19.016562 | 4.54 | 0.720 | 0.82 | G8V + K4V |
| 72683 | 14 | 52 | 59.1 | -43 | 39 | 31.9 | 223.246304 | -43.658858 | 4.32 | -0.154 | -0.14 | B5IV |
| 73165 | 14 | 58 | 15.4 | -4 | 25 | 43.7 | 224.564048 | -4.428809 | 4.47 | 0.318 | 0.38 | F0V |
| 73199 | 14 | 57 | 54.9 | +65 | 51 | 4.2 | 224.478891 | +65.851162 | 4.63 | 1.590 | 2.85 | M5III |
| 73273 | 14 | 59 | 53.0 | -43 | 12 | 54.5 | 224.970845 | -43.215141 | 2.68 | -0.184 | -0.23 | B2III |
| 73334 | 15 | 0 | 30.2 | -42 | 11 | 6.2 | 225.125824 | -42.185060 | 3.13 | -0.208 | -0.21 | B2IV |
| 73473 | 15 | 2 | 4.2 | -8 | 35 | 56.8 | 225.517603 | -8.599114 | 4.91 | 0.000 | 0.07 | B9.5V |
| 73555 | 15 | 2 | 43.1 | +40 | 18 | 37.9 | 225.679601 | +40.310539 | 3.49 | 0.956 | 0.89 | G8III |
| 73568 | 15 | 3 | 0.4 | +24 | 55 | 41.1 | 225.751724 | +24.928085 | 4.80 | 1.506 | 1.54 | K4III |
| 73620 | 15 | 3 | 56.3 | +2 | 0 | 42.8 | 225.984543 | +2.011898 | 4.39 | 1.026 | 1.04 | K0III |
| 73695 | 15 | 4 | 27.9 | +47 | 34 | 29.8 | 226.116146 | +47.574939 | 4.83 | 0.647 | 0.71 | G2V + G2V |
| 73714 | 15 | 5 | 16.5 | -25 | 21 | 40.5 | 226.3318705 | -25.361240 | 3.25 | 1.674 | 2.23 | M3/M4III |
| 73745 | 15 | 5 | 19.5 | +26 | 52 | 7.2 | 226.331142 | +26.868672 | 4.52 | 1.240 | 1.23 | K2III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|------------|
| | NH | h | m | s | ° | ' | " | ° | | | | |
| 73807 | 15 | 6 | 31.4 | -47 | 7 | 47.9 | 226.630946 | -47.129976 | 3.91 | -0.144 | -0.15 | B5 |
| 73996 | 15 | 8 | 12.1 | +24 | 47 | 25.3 | 227.050461 | +24.790374 | 4.93 | 0.429 | 0.51 | F5V |
| 74117 | 15 | 10 | 14.0 | -45 | 21 | 26.2 | 227.558309 | -45.357265 | 4.07 | -0.162 | -0.18 | B3V |
| 74376 | 15 | 13 | 22.2 | -48 | 48 | 51.1 | 228.342503 | -48.814200 | 3.88 | -0.029 | -0.02 | B9V |
| 74392 | 15 | 13 | 23.6 | -19 | 52 | 4.6 | 228.348475 | -19.867948 | 4.54 | -0.071 | -0.06 | Asp... |
| 74395 | 15 | 13 | 46.2 | -52 | 10 | 32.2 | 228.442351 | -52.175617 | 3.41 | 0.918 | 0.91 | G8III |
| 74449 | 15 | 14 | 12.7 | -44 | 34 | 34.8 | 228.553032 | -44.576329 | 4.83 | -0.177 | -0.19 | B3IV |
| 74604 | 15 | 15 | 53.0 | -31 | 35 | 39.3 | 228.970808 | -31.594255 | 4.91 | 0.374 | 0.48 | F3III |
| 74666 | 15 | 16 | 19.8 | +33 | 14 | 21.6 | 229.082370 | +33.239324 | 3.46 | 0.961 | 0.96 | G8III |
| 74785 | 15 | 18 | 6.8 | -9 | 27 | 26.3 | 229.528190 | -9.457309 | 2.61 | -0.071 | -0.08 | B8V |
| 74824 | 15 | 19 | 8.1 | -58 | 52 | 33.4 | 229.783787 | -58.875948 | 4.07 | 0.088 | 0.08 | A3V |
| 74837 | 15 | 19 | 24.1 | -63 | 41 | 3.6 | 229.850211 | -63.684328 | 4.85 | 1.260 | 1.20 | K2.5III |
| 74857 | 15 | 19 | 5.0 | -30 | 13 | 21.5 | 229.770798 | -30.222634 | 4.35 | 1.100 | 1.03 | K1II/III |
| 74911 | 15 | 19 | 58.2 | -47 | 56 | 56.7 | 229.992311 | -47.949089 | 4.27 | -0.086 | -0.07 | B8V |
| 74946 | 15 | 20 | 51.2 | -68 | 45 | 11.2 | 230.213344 | -68.753118 | 2.87 | 0.014 | 0.04 | A1V |
| 75097 | 15 | 20 | 42.7 | +71 | 45 | 39.7 | 230.177918 | +71.761040 | 3.00 | 0.058 | 0.12 | A3II-III |
| 75141 | 15 | 22 | 43.5 | -40 | 43 | 12.8 | 230.681206 | -40.720217 | 3.22 | -0.227 | -0.23 | B1.5IV |
| 75177 | 15 | 23 | 6.8 | -36 | 20 | 3.3 | 230.778324 | -36.334262 | 3.57 | 1.534 | 1.59 | K5III |
| 75206 | 15 | 23 | 34.5 | -48 | 0 | 2.8 | 230.893892 | -48.000783 | 4.99 | 0.515 | 0.59 | F8V |
| 75264 | 15 | 24 | 4.9 | -44 | 45 | 42.4 | 231.020415 | -44.761786 | 3.37 | -0.191 | -0.20 | B2IV-V |
| 75304 | 15 | 24 | 28.3 | -36 | 55 | 49.8 | 231.117993 | -36.930493 | 4.54 | -0.155 | -0.16 | B4V |
| 75312 | 15 | 24 | 3.1 | +30 | 12 | 53.6 | 231.013085 | +30.214876 | 4.99 | 0.577 | 0.65 | G2V |
| 75323 | 15 | 25 | 1.6 | -59 | 23 | 33.8 | 231.256682 | -59.392725 | 4.48 | 0.169 | 0.18 | B5III + F8 |
| 75379 | 15 | 25 | 18.7 | -10 | 23 | 40.7 | 231.328038 | -10.394634 | 4.92 | 0.453 | 0.52 | F5IV |
| 75411 | 15 | 25 | 15.9 | +37 | 18 | 22.2 | 231.316345 | +37.306164 | 4.31 | 0.309 | 0.35 | F0V |
| 75458 | 15 | 25 | 23.3 | +58 | 53 | 41.3 | 231.347147 | +58.894799 | 3.29 | 1.166 | 1.07 | K2III |
| 75501 | 15 | 26 | 40.4 | -38 | 48 | 17.0 | 231.668272 | -38.804729 | 4.60 | 0.000 | 0.02 | A0V |
| 75695 | 15 | 28 | 40.5 | +29 | 2 | 9.7 | 232.168656 | +29.036029 | 3.66 | 0.319 | 0.37 | F0p |
| 76008 | 15 | 30 | 50.8 | +77 | 16 | 49.3 | 232.711586 | +77.280361 | 5.00 | 1.545 | 1.61 | K5III |
| 76041 | 15 | 32 | 31.1 | +40 | 49 | 50.3 | 233.129402 | +40.830636 | 4.98 | 0.086 | 0.15 | A5V |
| 76127 | 15 | 33 | 45.4 | +31 | 17 | 27.4 | 233.439221 | +31.290945 | 4.14 | -0.127 | -0.12 | B6Vnn |
| 76219 | 15 | 35 | 18.1 | -10 | 8 | 0.3 | 233.825321 | -10.133407 | 4.61 | 1.000 | 1.02 | K1IV |
| 76267 | 15 | 35 | 33.4 | +26 | 38 | 48.4 | 233.889067 | +26.646771 | 2.22 | 0.032 | 0.05 | A0V |
| 76276 | 15 | 35 | 47.0 | +10 | 28 | 17.5 | 233.945753 | +10.471527 | 3.80 | 0.268 | 0.30 | F0IV |
| 76297 | 15 | 36 | 30.8 | -41 | 14 | 2.5 | 234.128490 | -41.234041 | 2.80 | -0.216 | -0.22 | B2IV |
| 76333 | 15 | 36 | 40.6 | -14 | 51 | 23.5 | 234.169027 | -14.856530 | 3.91 | 1.007 | 1.02 | K0III |
| 76371 | 15 | 37 | 18.4 | -45 | 1 | 31.2 | 234.326807 | -45.025340 | 4.55 | -0.175 | -0.20 | B3IVp |
| 76440 | 15 | 38 | 37.2 | -66 | 23 | 1.5 | 234.654992 | -66.383739 | 4.11 | 1.161 | 1.12 | K0III |
| 76470 | 15 | 38 | 16.4 | -28 | 12 | 5.4 | 234.568282 | -28.201506 | 3.60 | 1.361 | 1.36 | K3III |
| 76552 | 15 | 39 | 26.5 | -42 | 37 | 58.8 | 234.860499 | -42.632997 | 4.34 | 1.412 | 1.42 | K4.5III |
| 76600 | 15 | 39 | 55.2 | -29 | 50 | 37.1 | 234.979971 | -29.843643 | 3.66 | -0.177 | -0.18 | B2.5V |
| 76669 | 15 | 40 | 9.0 | +36 | 34 | 12.8 | 235.037616 | +36.570228 | 4.64 | -0.103 | -0.09 | B7V+... |
| 76705 | 15 | 41 | 4.4 | -34 | 28 | 38.2 | 235.268442 | -34.477282 | 4.66 | 0.964 | 0.97 | G8/K0III |
| 76742 | 15 | 41 | 29.8 | -23 | 52 | 59.6 | 235.374373 | -23.883212 | 4.97 | 1.302 | 1.25 | K3III |
| 76829 | 15 | 42 | 36.4 | -44 | 43 | 38.5 | 235.651739 | -44.727357 | 4.64 | 0.413 | 0.47 | F5IV-V |
| 76852 | 15 | 42 | 27.9 | +19 | 36 | 19.9 | 235.616450 | +19.605530 | 4.51 | 0.062 | 0.07 | A1V |
| 76880 | 15 | 43 | 7.9 | -19 | 44 | 37.8 | 235.782843 | -19.743820 | 4.75 | 1.574 | 1.74 | K5III |
| 76945 | 15 | 43 | 59.7 | -34 | 46 | 28.8 | 235.998870 | -34.774659 | 4.75 | -0.151 | -0.15 | B5V |
| 76952 | 15 | 43 | 36.3 | +26 | 13 | 54.4 | 235.901053 | +26.231768 | 3.81 | 0.020 | 0.04 | A1Vs |
| 77055 | 15 | 43 | 22.1 | +77 | 43 | 50.0 | 235.842006 | +77.730551 | 4.29 | 0.038 | 0.05 | A3Vn |
| 77070 | 15 | 45 | 16.7 | +6 | 21 | 44.6 | 236.319737 | +6.362383 | 2.63 | 1.167 | 1.09 | K2III |
| 77233 | 15 | 47 | 8.1 | +15 | 21 | 32.0 | 236.783684 | +15.358889 | 3.65 | 0.073 | 0.09 | A3V |
| 77257 | 15 | 47 | 26.4 | +7 | 17 | 24.4 | 236.859997 | +7.290101 | 4.42 | 0.604 | 0.66 | G0Vvar |
| 77450 | 15 | 49 | 39.8 | +18 | 4 | 45.9 | 237.415826 | +18.079424 | 4.09 | 1.616 | 1.73 | M1III |
| 77512 | 15 | 50 | 27.3 | +26 | 0 | 24.3 | 237.613642 | +26.006738 | 4.59 | 0.794 | 0.82 | G5III-IV |
| 77516 | 15 | 50 | 41.5 | -3 | 29 | 29.8 | 237.672944 | -3.491607 | 3.54 | -0.036 | -0.03 | A0V |
| 77622 | 15 | 51 | 50.4 | +4 | 25 | 2.4 | 237.959856 | +4.417321 | 3.71 | 0.147 | 0.13 | A2m |
| 77634 | 15 | 52 | 16.0 | -33 | 41 | 16.6 | 238.066701 | -33.687937 | 3.97 | -0.045 | -0.05 | B9.5III-IV |
| 77635 | 15 | 52 | 13.0 | -25 | 48 | 43.5 | 238.054010 | -25.812073 | 4.63 | -0.072 | -0.04 | B1.5Vn |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|-----------|
| | NH | h | m | s | ° | ' | | | | | | |
| 77655 | 15 | 52 | 0.3 | +35 | 35 | 41.4 | 238.001349 | +35.594822 | 4.79 | 0.996 | 0.97 | K0III-IV |
| 77661 | 15 | 52 | 10.0 | +20 | 55 | 2.7 | 238.041575 | +20.917429 | 4.74 | 1.534 | 1.60 | K5III |
| 77760 | 15 | 53 | 23.1 | +42 | 23 | 41.9 | 238.346166 | +42.394984 | 4.60 | 0.563 | 0.63 | F9V |
| 77840 | 15 | 54 | 50.8 | -25 | 23 | 12.5 | 238.711678 | -25.386808 | 4.59 | -0.073 | -0.06 | B2.5Vn |
| 77853 | 15 | 54 | 59.7 | -16 | 47 | 16.8 | 238.748952 | -16.787990 | 4.13 | 1.003 | 1.02 | K0III |
| 77952 | 15 | 56 | 58.0 | -63 | 29 | 30.2 | 239.241856 | -63.491709 | 2.83 | 0.315 | 0.36 | F2III |
| 78072 | 15 | 57 | 24.1 | +15 | 35 | 46.0 | 239.350265 | +15.596120 | 3.85 | 0.478 | 0.54 | F6V |
| 78104 | 15 | 58 | 9.3 | -29 | 16 | 20.4 | 239.538667 | -29.272334 | 3.87 | -0.199 | -0.18 | B2IV/V |
| 78159 | 15 | 58 | 26.2 | +26 | 49 | 10.7 | 239.609264 | +26.819635 | 4.14 | 1.231 | 1.17 | K3III |
| 78180 | 15 | 58 | 16.8 | +54 | 41 | 32.8 | 239.569868 | +54.692452 | 4.96 | 0.269 | 0.29 | F0IV |
| 78207 | 15 | 59 | 20.4 | -14 | 20 | 13.3 | 239.835058 | -14.337039 | 4.95 | -0.080 | -0.06 | B8Ia/Iab |
| 78265 | 16 | 0 | 5.8 | -26 | 10 | 17.5 | 240.023969 | -26.171530 | 2.89 | -0.180 | -0.18 | B1V + B2V |
| 78323 | 16 | 0 | 54.4 | -41 | 48 | 5.4 | 240.226782 | -41.801495 | 4.99 | 0.988 | 0.97 | G8III |
| 78384 | 16 | 1 | 29.2 | -38 | 27 | 12.8 | 240.371605 | -38.453565 | 3.42 | -0.206 | -0.23 | B2.5IV |
| 78401 | 16 | 1 | 32.9 | -22 | 40 | 42.8 | 240.387275 | -22.678564 | 2.29 | -0.117 | -0.09 | B0.2IV |
| 78493 | 16 | 2 | 15.9 | +29 | 47 | 41.2 | 240.566161 | +29.794769 | 4.98 | -0.050 | -0.03 | A0p... |
| 78527 | 16 | 2 | 16.6 | +58 | 30 | 39.4 | 240.569142 | +58.510955 | 4.01 | 0.528 | 0.55 | F8IV-V |
| 78554 | 16 | 3 | 10.7 | +22 | 44 | 55.4 | 240.794597 | +22.748716 | 4.82 | 0.066 | 0.09 | A3V |
| 78592 | 16 | 3 | 26.3 | +45 | 58 | 50.4 | 240.859493 | +45.980660 | 4.72 | -0.094 | -0.06 | B9III |
| 78639 | 16 | 4 | 43.8 | -49 | 17 | 5.9 | 241.182572 | -49.284971 | 4.65 | 0.902 | 0.91 | G8III |
| 78650 | 16 | 4 | 35.2 | -25 | 55 | 14.8 | 241.146585 | -25.920786 | 4.96 | 1.234 | 1.25 | K3III |
| 78655 | 16 | 4 | 46.3 | -38 | 39 | 28.7 | 241.193072 | -38.657983 | 4.90 | -0.146 | -0.15 | B6III/IV |
| 78662 | 16 | 5 | 12.9 | -57 | 49 | 50.4 | 241.303765 | -57.830659 | 4.63 | 0.252 | 0.30 | A7IV |
| 78727 | 0 | 1 | 3.0 | +0 | 6 | 50.8 | 0.262632 | +0.114113 | 4.16 | 0.460 | 0.53 | F6IV |
| 78820 | 16 | 6 | 37.9 | -19 | 51 | 36.1 | 241.658059 | -19.860025 | 2.56 | -0.065 | -0.04 | B0.5V |
| 78821 | 16 | 6 | 38.2 | -19 | 51 | 22.8 | 241.659234 | -19.856333 | 4.90 | -0.024 | 0.00 | B2V |
| 78914 | 16 | 7 | 56.8 | -45 | 13 | 36.8 | 241.986705 | -45.226894 | 4.73 | 0.230 | 0.20 | Am |
| 78918 | 16 | 7 | 56.6 | -36 | 51 | 22.9 | 241.985952 | -36.856354 | 4.22 | -0.184 | -0.19 | B2.5Vn |
| 78933 | 16 | 8 | 0.6 | -20 | 43 | 23.4 | 242.002356 | -20.723156 | 3.93 | -0.046 | 0.01 | B1V |
| 78990 | 16 | 8 | 36.7 | -20 | 55 | 21.3 | 242.152723 | -20.922584 | 4.31 | 0.831 | 0.85 | G6/G8III |
| 79043 | 16 | 9 | 0.1 | +16 | 59 | 37.0 | 242.250407 | +16.993615 | 5.00 | 0.931 | 0.93 | G8III |
| 79101 | 16 | 9 | 25.0 | +44 | 52 | 55.3 | 242.354147 | +44.882015 | 4.23 | -0.045 | -0.02 | B9MNp... |
| 79119 | 16 | 9 | 43.3 | +36 | 26 | 23.5 | 242.430567 | +36.439874 | 4.73 | 1.015 | 1.00 | K0III-IV |
| 79374 | 16 | 13 | 11.4 | -19 | 30 | 44.6 | 243.297494 | -19.512390 | 4.00 | 0.076 | 0.14 | B2IV |
| 79375 | 16 | 13 | 7.3 | -10 | 6 | 57.5 | 243.280576 | -10.115964 | 4.93 | 0.087 | 0.09 | A3IV |
| 79404 | 16 | 13 | 34.2 | -27 | 58 | 40.4 | 243.392486 | -27.977890 | 4.58 | -0.172 | -0.15 | B2V |
| 79509 | 16 | 15 | 6.3 | -54 | 40 | 53.0 | 243.776376 | -54.681378 | 4.95 | 1.017 | 0.99 | G4III |
| 79593 | 16 | 15 | 25.3 | -3 | 44 | 44.3 | 243.855444 | -3.745639 | 2.73 | 1.584 | 1.82 | M1III |
| 79664 | 16 | 17 | 19.2 | -63 | 44 | 8.2 | 244.329925 | -63.735610 | 3.86 | 1.105 | 1.03 | G5II |
| 79790 | 16 | 18 | 33.5 | -50 | 7 | 2.5 | 244.639599 | -50.117365 | 4.97 | 0.788 | 0.88 | F9Ia |
| 79822 | 16 | 16 | 55.8 | +75 | 42 | 26.2 | 244.232444 | +75.707283 | 4.95 | 0.393 | 0.46 | F5V |
| 79881 | 16 | 19 | 34.4 | -28 | 39 | 47.8 | 244.893350 | -28.663284 | 4.80 | 0.008 | -0.01 | A0V: |
| 79882 | 16 | 19 | 24.5 | -4 | 44 | 27.7 | 244.851975 | -4.741024 | 3.23 | 0.966 | 0.96 | G8III |
| 79992 | 16 | 20 | 21.5 | +46 | 15 | 55.4 | 245.089483 | +46.265382 | 3.91 | -0.151 | -0.19 | B5IV |
| 80000 | 16 | 21 | 22.9 | -50 | 12 | 13.5 | 245.345538 | -50.203751 | 4.01 | 1.080 | 1.03 | G8III |
| 80047 | 16 | 23 | 28.7 | -78 | 44 | 35.9 | 245.869543 | -78.743309 | 4.68 | 1.680 | 2.67 | M5III |
| 80079 | 16 | 21 | 52.4 | -24 | 13 | 1.4 | 245.468275 | -24.217060 | 4.55 | 0.758 | 0.80 | A4II/III |
| 80112 | 16 | 22 | 26.3 | -25 | 38 | 25.1 | 245.609489 | -25.640302 | 2.90 | 0.299 | 0.31 | B1III |
| 80170 | 16 | 22 | 49.5 | +19 | 6 | 22.4 | 245.706368 | +19.106226 | 3.74 | 0.299 | 0.34 | A9III |
| 80179 | 16 | 23 | 6.7 | +0 | 58 | 56.1 | 245.778060 | +0.982253 | 4.82 | 0.338 | 0.39 | F0V |
| 80181 | 16 | 22 | 53.8 | +30 | 50 | 43.8 | 245.724136 | +30.845498 | 4.86 | 0.970 | 0.93 | K0III |
| 80331 | 16 | 24 | 16.4 | +61 | 28 | 5.4 | 246.068311 | +61.468175 | 2.73 | 0.910 | 0.84 | G8III |
| 80343 | 16 | 25 | 18.3 | -20 | 5 | 1.3 | 246.326391 | -20.083683 | 4.48 | 0.996 | 0.99 | K0III |
| 80463 | 16 | 26 | 21.8 | +13 | 59 | 14.6 | 246.590723 | +13.987385 | 4.57 | 0.002 | 0.02 | B9p Cr |
| 80473 | 16 | 26 | 49.1 | -23 | 29 | 33.8 | 246.704376 | -23.492727 | 4.57 | 0.227 | 0.25 | B2V |
| 80569 | 16 | 28 | 12.9 | -18 | 30 | 4.1 | 247.053656 | -18.501135 | 4.22 | 0.217 | 0.24 | B2Vne |
| 80582 | 16 | 28 | 41.6 | -47 | 35 | 58.3 | 247.173432 | -47.599515 | 4.46 | -0.070 | -0.04 | B4V |
| 80628 | 16 | 28 | 54.9 | -8 | 24 | 58.4 | 247.228544 | -8.416223 | 4.62 | 0.185 | 0.20 | A3m |
| 80650 | 16 | 27 | 57.1 | +68 | 43 | 25.4 | 246.988101 | +68.723724 | 4.94 | -0.051 | 0.02 | A0III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | | | | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|--------------|
| | NH | h | m | s | ° | ' | " | ° | ° | V | U-V | |
| 80686 | 16 | 30 | 41.8 | -70 | 7 | 39.5 | 247.674270 | -70.127642 | 4.90 | 0.555 | 0.64 | F9V |
| 80704 | 16 | 29 | 19.0 | +41 | 50 | 15.0 | 247.329179 | +41.837510 | 4.83 | 1.289 | 3.61 | M6III:var |
| 80763 | 16 | 30 | 40.1 | -26 | 28 | 32.8 | 247.666951 | -26.475782 | 1.06 | 1.865 | 2.90 | M1Ib + B2.5V |
| 80815 | 16 | 31 | 27.4 | -25 | 9 | 31.2 | 247.864135 | -25.158656 | 4.79 | -0.116 | -0.12 | B3V |
| 80816 | 16 | 31 | 6.1 | +21 | 26 | 46.2 | 247.775534 | +21.446169 | 2.78 | 0.947 | 0.94 | G8III |
| 80883 | 16 | 31 | 56.9 | +1 | 56 | 25.8 | 247.987265 | +1.940509 | 3.82 | 0.022 | 0.03 | A2V |
| 80894 | 16 | 32 | 18.9 | -16 | 39 | 20.9 | 248.078834 | -16.655816 | 4.29 | 0.924 | 0.89 | G8/K0III |
| 80911 | 16 | 32 | 43.5 | -34 | 44 | 49.9 | 248.181449 | -34.747190 | 4.24 | -0.168 | -0.17 | B2III-IV |
| 80975 | 16 | 33 | 21.3 | -21 | 30 | 30.9 | 248.338621 | -21.508590 | 4.45 | 0.130 | 0.12 | Ap |
| 81008 | 16 | 33 | 33.9 | +11 | 26 | 43.3 | 248.391335 | +11.445356 | 4.84 | 1.495 | 1.58 | K4III |
| 81065 | 16 | 36 | 39.6 | -78 | 56 | 20.1 | 249.164910 | -78.938914 | 3.86 | 0.923 | 0.92 | K0IV SB |
| 81122 | 16 | 35 | 32.8 | -44 | 5 | 12.4 | 248.886465 | -44.086772 | 4.86 | 0.045 | 0.18 | B0Ia |
| 81126 | 16 | 34 | 45.9 | +42 | 23 | 44.7 | 248.691244 | +42.395753 | 4.20 | -0.013 | 0.02 | B9Vvar |
| 81266 | 16 | 37 | 9.7 | -28 | 15 | 24.4 | 249.290478 | -28.256792 | 2.82 | -0.206 | -0.24 | B0V |
| 81304 | 16 | 37 | 43.6 | -35 | 17 | 44.4 | 249.431856 | -35.295663 | 4.18 | 1.535 | 1.72 | K5III |
| 81377 | 16 | 38 | 17.4 | -10 | 36 | 25.3 | 249.572415 | -10.607039 | 2.54 | 0.038 | 0.10 | O9.5V |
| 81497 | 16 | 39 | 18.3 | +48 | 53 | 20.4 | 249.826312 | +48.889008 | 4.86 | 1.562 | 2.03 | M2.5III |
| 81660 | 16 | 41 | 3.9 | +64 | 33 | 1.4 | 250.266420 | +64.550393 | 4.84 | 1.212 | 1.19 | K1p |
| 81693 | 16 | 42 | 3.6 | +31 | 33 | 59.0 | 250.515010 | +31.566396 | 2.81 | 0.650 | 0.70 | F9IV |
| 81724 | 16 | 42 | 45.7 | -17 | 46 | 48.7 | 250.690232 | -17.780184 | 4.91 | 1.095 | 1.13 | G8II/III |
| 81833 | 16 | 43 | 36.0 | +38 | 53 | 3.4 | 250.899935 | +38.884279 | 3.48 | 0.916 | 0.89 | G8III-IV |
| 81852 | 16 | 46 | 3.2 | -77 | 33 | 22.7 | 251.513381 | -77.556298 | 4.23 | 1.060 | 1.04 | K0III |
| 82020 | 16 | 45 | 41.3 | +56 | 44 | 44.9 | 251.422115 | +56.745800 | 4.84 | 0.375 | 0.44 | F2V |
| 82080 | 16 | 43 | 56.5 | +82 | 0 | 2.1 | 250.985422 | +82.000588 | 4.21 | 0.897 | 0.91 | G5IIIvar |
| 82273 | 16 | 50 | 51.2 | -69 | 3 | 44.4 | 252.713229 | -69.062325 | 1.91 | 1.447 | 1.45 | K2IIb-IIIa |
| 82321 | 16 | 49 | 50.3 | +45 | 56 | 54.6 | 252.459565 | +45.948505 | 4.82 | 0.087 | 0.10 | A2p... |
| 82363 | 16 | 51 | 33.9 | -59 | 4 | 31.8 | 252.891258 | -59.075510 | 3.77 | 1.562 | 1.67 | K5III |
| 82369 | 16 | 50 | 58.2 | -10 | 49 | 3.3 | 252.742388 | -10.817577 | 4.64 | 0.478 | 0.55 | F7IV |
| 82396 | 16 | 51 | 29.7 | -34 | 19 | 42.9 | 252.873760 | -34.328576 | 2.29 | 1.144 | 1.10 | K2IIIb |
| 82514 | 16 | 53 | 15.8 | -38 | 4 | 50.1 | 253.315724 | -38.080592 | 3.00 | -0.200 | -0.20 | B1.5IV + B |
| 82545 | 16 | 53 | 43.7 | -38 | 3 | 1.9 | 253.431954 | -38.050538 | 3.56 | -0.210 | -0.21 | B2IV |
| 82671 | 16 | 55 | 26.7 | -42 | 23 | 38.8 | 253.861414 | -42.394101 | 4.70 | 0.444 | 0.71 | B1Iae |
| 82673 | 16 | 54 | 58.7 | +10 | 7 | 58.8 | 253.744694 | +10.132993 | 4.39 | -0.088 | -0.13 | B8V |
| 82729 | 16 | 56 | 1.8 | -42 | 23 | 39.7 | 254.007535 | -42.394363 | 3.62 | 1.393 | 1.37 | K4III |
| 82860 | 16 | 56 | 8.7 | +65 | 6 | 13.2 | 254.036267 | +65.103670 | 4.88 | 0.481 | 0.56 | F6Vvar |
| 83000 | 16 | 58 | 38.4 | +9 | 20 | 40.4 | 254.659925 | +9.344557 | 3.19 | 1.160 | 1.10 | K2IIIvar |
| 83081 | 17 | 0 | 19.4 | -56 | 1 | 12.4 | 255.080844 | -56.020124 | 3.12 | 1.552 | 1.60 | K5III |
| 83153 | 17 | 1 | 13.4 | -53 | 11 | 22.8 | 255.305950 | -53.189657 | 4.06 | 1.452 | 1.42 | K4III |
| 83207 | 17 | 1 | 4.5 | +30 | 53 | 50.5 | 255.268661 | +30.897349 | 3.92 | -0.018 | -0.04 | A0V |
| 83262 | 17 | 2 | 8.5 | -4 | 15 | 6.6 | 255.535597 | -4.251839 | 4.82 | 1.483 | 1.49 | K4III |
| 83430 | 17 | 4 | 4.3 | +14 | 3 | 49.7 | 256.017824 | +14.063798 | 4.97 | 1.600 | 2.08 | M3III |
| 83574 | 17 | 6 | 10.4 | -34 | 8 | 59.4 | 256.543469 | -34.149829 | 4.83 | 0.257 | 0.38 | B2Iab |
| 83608 | 17 | 5 | 45.7 | +54 | 26 | 36.9 | 256.440577 | +54.443596 | 4.91 | 0.471 | 0.54 | F5 |
| 83613 | 17 | 6 | 19.8 | +12 | 42 | 50.6 | 256.582405 | +12.714058 | 4.89 | 0.125 | 0.11 | A4IV |
| 83895 | 17 | 8 | 51.0 | +65 | 41 | 22.3 | 257.212518 | +65.689518 | 3.17 | -0.120 | -0.14 | B6III |
| 84012 | 17 | 11 | 33.3 | -15 | 44 | 54.9 | 257.888821 | -15.748595 | 2.43 | 0.059 | 0.06 | A2.5Va |
| 84143 | 17 | 13 | 37.5 | -43 | 15 | 50.7 | 258.406202 | -43.264076 | 3.32 | 0.441 | 0.47 | F3p |
| 84345 | 17 | 15 | 35.0 | +14 | 22 | 5.9 | 258.895807 | +14.368310 | 2.78 | 1.164 | 1.13 | M5IIvar |
| 84379 | 17 | 15 | 52.5 | +24 | 48 | 58.6 | 258.968663 | +24.816288 | 3.12 | 0.080 | 0.06 | A3IVv SB |
| 84380 | 17 | 15 | 45.7 | +36 | 47 | 13.6 | 258.940500 | +36.787113 | 3.16 | 1.437 | 1.31 | K3IIvar |
| 84405 | 17 | 16 | 36.8 | -26 | 37 | 51.5 | 259.153239 | -26.630969 | 4.33 | 0.855 | 0.92 | K2:III: |
| 84514 | 17 | 17 | 39.9 | -0 | 28 | 0.7 | 259.416200 | -0.466868 | 4.72 | 1.119 | 1.09 | K2III |
| 84573 | 17 | 18 | 5.1 | +33 | 4 | 44.9 | 259.521043 | +33.079130 | 4.80 | -0.166 | -0.17 | B1.5Vp |
| 84606 | 17 | 18 | 22.7 | +37 | 16 | 15.9 | 259.594640 | +37.271070 | 4.64 | 0.043 | 0.07 | A2V |
| 84880 | 17 | 21 | 58.9 | -12 | 51 | 57.5 | 260.495472 | -12.865985 | 4.32 | 0.037 | 0.07 | A0/A1V |
| 84893 | 17 | 22 | 14.2 | -21 | 7 | 59.1 | 260.559220 | -21.133087 | 4.39 | 0.394 | 0.47 | F2/F3V |
| 84969 | 17 | 24 | 8.6 | -67 | 47 | 20.5 | 261.035636 | -67.789021 | 4.76 | 1.194 | 1.18 | K1III |
| 84970 | 17 | 23 | 16.2 | -25 | 1 | 5.5 | 260.817515 | -25.018195 | 3.27 | -0.186 | -0.21 | B2IV |
| 85112 | 17 | 24 | 23.4 | +37 | 7 | 41.4 | 261.097608 | +37.128165 | 4.15 | -0.011 | 0.01 | B9.5III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----|----|------|-----|----|------|------------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 85258 | 17 | 27 | 0.5 | -55 | 32 | 48.5 | 261.751968 | -55.546811 | 2.84 | 1.479 | 1.50 | K3Ib-II |
| 85267 | 17 | 27 | 7.4 | -56 | 23 | 40.4 | 261.781010 | -56.394553 | 3.31 | -0.150 | -0.12 | B1Ib |
| 85340 | 17 | 27 | 37.4 | -24 | 11 | 32.4 | 261.905903 | -24.192338 | 4.16 | 0.283 | 0.30 | A3IV:m |
| 85355 | 17 | 27 | 32.0 | +4 | 7 | 26.5 | 261.883147 | +4.124038 | 4.34 | 1.480 | 1.44 | K3IIvar |
| 85365 | 17 | 27 | 43.2 | -5 | 6 | 11.2 | 261.930030 | -5.103120 | 4.53 | 0.385 | 0.46 | F3V |
| 85423 | 17 | 28 | 39.9 | -29 | 53 | 1.2 | 262.166280 | -29.883672 | 4.28 | 0.402 | 0.45 | F3III |
| 85670 | 17 | 30 | 53.8 | +52 | 17 | 12.8 | 262.724258 | +52.286886 | 2.79 | 0.954 | 0.93 | G2II |
| 85693 | 17 | 31 | 34.1 | +26 | 5 | 47.1 | 262.891900 | +26.096415 | 4.41 | 1.434 | 1.39 | K3IIIvar |
| 85696 | 17 | 32 | 9.6 | -37 | 18 | 36.5 | 263.039852 | -37.310144 | 2.70 | -0.179 | -0.23 | B2IV |
| 85727 | 17 | 32 | 57.2 | -60 | 41 | 53.9 | 263.238423 | -60.698293 | 3.60 | -0.104 | -0.10 | B8V |
| 85755 | 17 | 32 | 40.1 | -23 | 58 | 36.0 | 263.166993 | -23.976672 | 4.78 | 0.016 | 0.08 | A0V |
| 85792 | 17 | 33 | 25.7 | -49 | 53 | 24.4 | 263.357220 | -49.890110 | 2.84 | -0.136 | -0.15 | B2Vne |
| 85819 | 17 | 32 | 34.9 | +55 | 10 | 15.0 | 263.145256 | +55.170827 | 4.89 | 0.251 | 0.28 | Am... |
| 85822 | 17 | 25 | 42.3 | +86 | 34 | 16.9 | 261.426219 | +86.571353 | 4.35 | 0.021 | 0.04 | A1Vn |
| 85829 | 17 | 32 | 40.3 | +55 | 9 | 34.7 | 263.168002 | +55.159634 | 4.86 | 0.279 | 0.30 | Am |
| 85927 | 17 | 35 | 0.1 | -37 | 7 | 0.3 | 263.750529 | -37.116753 | 1.62 | -0.231 | -0.24 | B1.5IV+... |
| 86032 | 17 | 35 | 53.2 | +12 | 32 | 47.7 | 263.971623 | +12.546580 | 2.08 | 0.155 | 0.17 | A5III |
| 86092 | 17 | 37 | 11.3 | -46 | 31 | 3.4 | 264.297051 | -46.517614 | 4.56 | -0.020 | 0.01 | A0V |
| 86170 | 17 | 37 | 57.6 | -38 | 38 | 51.5 | 264.490087 | -38.647627 | 4.26 | 1.075 | 1.09 | G8/K0III/IV |
| 86201 | 17 | 36 | 50.0 | +68 | 44 | 53.8 | 264.208524 | +68.748269 | 4.77 | 0.430 | 0.49 | F5V |
| 86228 | 17 | 38 | 47.6 | -43 | 0 | 31.5 | 264.698325 | -43.008737 | 1.86 | 0.406 | 0.48 | F1II |
| 86263 | 17 | 38 | 45.7 | -15 | 24 | 35.1 | 264.690376 | -15.409747 | 3.54 | 0.262 | 0.29 | F0IIIp |
| 86284 | 17 | 38 | 57.6 | -8 | 7 | 46.6 | 264.740087 | -8.129620 | 4.58 | 0.132 | 0.22 | B8II-IIIMNp |
| 86414 | 17 | 40 | 2.7 | +45 | 59 | 46.6 | 265.011055 | +45.996288 | 3.82 | -0.179 | -0.21 | B3V SB |
| 86486 | 17 | 41 | 58.9 | -49 | 25 | 33.3 | 265.495586 | -49.425927 | 4.76 | 0.415 | 0.49 | F3IV |
| 86565 | 17 | 42 | 34.0 | -12 | 53 | 4.5 | 265.641872 | -12.884570 | 4.24 | 0.086 | 0.10 | A2Va |
| 86614 | 17 | 41 | 34.8 | +72 | 8 | 17.8 | 265.394852 | +72.138274 | 4.57 | 0.434 | 0.50 | F5IV-V |
| 86670 | 17 | 43 | 54.4 | -39 | 2 | 18.5 | 265.976835 | -39.038482 | 2.39 | -0.171 | -0.22 | B1.5III |
| 86736 | 17 | 44 | 39.5 | -21 | 41 | 29.0 | 266.164791 | -21.691379 | 4.86 | 0.469 | 0.54 | F6/F7V |
| 86742 | 17 | 44 | 29.1 | +4 | 33 | 36.8 | 266.121455 | +4.560216 | 2.76 | 1.168 | 1.10 | K2III |
| 86929 | 17 | 47 | 44.9 | -64 | 43 | 50.8 | 266.937071 | -64.730782 | 3.61 | 1.161 | 1.09 | K1III |
| 86974 | 17 | 47 | 15.8 | +27 | 42 | 35.9 | 266.815652 | +27.709971 | 3.42 | 0.750 | 0.71 | G5IV |
| 87072 | 17 | 48 | 51.1 | -27 | 50 | 12.2 | 267.212883 | -27.836716 | 4.53 | 0.600 | 0.76 | F7II |
| 87073 | 17 | 49 | 1.2 | -40 | 7 | 58.3 | 267.254876 | -40.132854 | 2.99 | 0.509 | 0.64 | F3Ia |
| 87108 | 17 | 48 | 55.3 | +2 | 42 | 3.9 | 267.230289 | +2.701090 | 3.75 | 0.043 | 0.05 | A0V |
| 87220 | 17 | 50 | 30.4 | -31 | 42 | 29.9 | 267.626734 | -31.708303 | 4.79 | -0.028 | 0.01 | B8Ib/II |
| 87261 | 17 | 51 | 15.2 | -37 | 2 | 52.3 | 267.813492 | -37.047848 | 3.19 | 1.192 | 1.15 | K0/K1III |
| 87294 | 17 | 51 | 37.2 | -40 | 5 | 41.9 | 267.904953 | -40.094977 | 4.78 | 0.259 | 0.41 | A6Ib |
| 87585 | 17 | 53 | 53.0 | +56 | 52 | 11.8 | 268.470996 | +56.869948 | 3.73 | 1.177 | 1.11 | K2III |
| 87808 | 17 | 56 | 57.4 | +37 | 14 | 56.0 | 269.239139 | +37.248890 | 3.86 | 1.350 | 1.17 | K1IIvar |
| 87833 | 17 | 57 | 5.0 | +51 | 29 | 13.9 | 269.270712 | +51.487197 | 2.24 | 1.521 | 1.54 | K5II |
| 87846 | 17 | 58 | 17.2 | -44 | 20 | 36.9 | 269.571722 | -44.343579 | 4.85 | 1.176 | 1.15 | K2III |
| 87933 | 17 | 58 | 33.7 | +29 | 14 | 48.7 | 269.640449 | +29.246863 | 3.70 | 0.935 | 0.89 | K0III |
| 87936 | 17 | 59 | 15.2 | -41 | 43 | 1.6 | 269.813536 | -41.717112 | 4.88 | 1.617 | 1.88 | M0III |
| 87998 | 17 | 59 | 17.2 | +30 | 11 | 19.5 | 269.821865 | +30.188746 | 4.41 | 0.380 | 0.51 | F2II |
| 88048 | 18 | 0 | 9.3 | -9 | 46 | 28.1 | 270.038863 | -9.774479 | 3.32 | 0.987 | 0.95 | K0III |
| 88060 | 18 | 0 | 24.3 | -30 | 15 | 11.5 | 270.101211 | -30.253196 | 5.00 | 1.654 | 2.00 | K5/M0III |
| 88116 | 18 | 1 | 2.7 | -23 | 48 | 58.3 | 270.261106 | -23.816203 | 4.74 | -0.030 | -0.01 | B9V |
| 88128 | 18 | 0 | 58.2 | +16 | 45 | 4.0 | 270.242475 | +16.751117 | 4.67 | 1.254 | 1.12 | K0II-III |
| 88149 | 18 | 1 | 16.7 | +4 | 22 | 8.1 | 270.319751 | +4.368929 | 4.79 | -0.100 | -0.08 | B2Ve |
| 88175 | 18 | 1 | 34.0 | -3 | 41 | 24.0 | 270.391727 | -3.690003 | 4.62 | 0.390 | 0.45 | F3V |
| 88192 | 18 | 1 | 40.3 | +2 | 55 | 55.6 | 270.418105 | +2.932100 | 3.93 | 0.029 | 0.10 | B5Ib |
| 88267 | 18 | 2 | 22.6 | +21 | 35 | 49.1 | 270.594204 | +21.596966 | 4.26 | 0.406 | 0.47 | G5 |
| 88290 | 18 | 2 | 47.6 | +1 | 18 | 22.1 | 270.698444 | +1.306134 | 4.42 | 0.046 | 0.06 | A2Vn |
| 88404 | 18 | 4 | 11.9 | -8 | 10 | 43.5 | 271.049615 | -8.178744 | 4.77 | 0.410 | 0.45 | F5V+... |
| 88567 | 18 | 6 | 19.8 | -29 | 34 | 38.2 | 271.582511 | -29.577286 | 4.66 | 0.774 | 0.81 | G0Ib/II |
| 88601 | 18 | 6 | 29.3 | +2 | 29 | 51.8 | 271.622041 | +2.497726 | 4.03 | 0.860 | 0.96 | K0V SB |
| 88635 | 18 | 7 | 7.5 | -30 | 25 | 18.8 | 271.781287 | -30.421879 | 2.98 | 0.981 | 0.99 | K0III |
| 88657 | 18 | 6 | 53.7 | +22 | 13 | 19.4 | 271.723872 | +22.222069 | 4.96 | 1.656 | 2.18 | M3IIIa+... |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | | | | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|--------------|
| | NH | h | m | s | ° | ' | " | ° | ° | V | U-V | |
| 88714 | 18 | 8 | 13.6 | -50 | 5 | 16.2 | 272.056711 | -50.087829 | 3.65 | -0.101 | -0.06 | B2Ib |
| 88726 | 18 | 8 | 18.8 | -43 | 25 | 19.3 | 272.078530 | -43.422027 | 4.92 | 0.255 | 0.29 | A5V |
| 88765 | 18 | 8 | 17.2 | +8 | 44 | 16.5 | 272.071662 | +8.737918 | 4.64 | 0.951 | 0.92 | G8III-IV |
| 88771 | 18 | 8 | 19.3 | +9 | 34 | 5.5 | 272.080498 | +9.568192 | 3.71 | 0.159 | 0.18 | A4IVs |
| 88788 | 18 | 8 | 5.8 | +43 | 27 | 55.6 | 272.024307 | +43.465448 | 5.00 | 0.913 | 0.91 | G8III... |
| 88794 | 18 | 8 | 20.6 | +28 | 45 | 59.3 | 272.085654 | +28.766486 | 3.84 | -0.018 | -0.02 | B9.5V |
| 88839 | 18 | 9 | 22.9 | -28 | 27 | 10.5 | 272.345333 | -28.452920 | 4.55 | 0.938 | 1.00 | K0IIICNpvar |
| 88866 | 18 | 10 | 33.2 | -63 | 39 | 53.8 | 272.638266 | -63.664943 | 4.33 | 0.228 | 0.23 | Am |
| 88886 | 18 | 9 | 38.1 | +20 | 49 | 8.8 | 272.408810 | +20.819102 | 4.37 | -0.164 | -0.19 | B2IV |
| 89112 | 18 | 12 | 45.0 | -45 | 56 | 55.2 | 273.187652 | -45.948656 | 4.52 | 1.009 | 0.95 | G5III |
| 89153 | 18 | 12 | 58.4 | -23 | 41 | 42.9 | 273.243248 | -23.695243 | 4.96 | 1.055 | 1.02 | K0III |
| 89172 | 18 | 12 | 40.5 | +31 | 24 | 41.8 | 273.168613 | +31.411607 | 4.96 | 1.643 | 2.16 | M3III |
| 89341 | 18 | 14 | 59.4 | -21 | 3 | 6.1 | 273.747359 | -21.051686 | 3.84 | 0.195 | 0.21 | B2III: |
| 89348 | 18 | 14 | 0.9 | +64 | 24 | 16.0 | 273.503716 | +64.404438 | 4.99 | 0.440 | 0.51 | F5V |
| 89642 | 18 | 19 | 0.8 | -36 | 45 | 12.6 | 274.753513 | -36.753499 | 3.10 | 1.582 | 2.24 | M2III |
| 89678 | 18 | 19 | 20.2 | -27 | 2 | 0.1 | 274.834000 | -27.033357 | 4.66 | 1.629 | 1.62 | K3III |
| 89826 | 18 | 20 | 34.8 | +36 | 4 | 29.4 | 275.145180 | +36.074834 | 4.33 | 1.162 | 1.10 | K2IIIvar |
| 89861 | 18 | 21 | 10.0 | +21 | 58 | 16.6 | 275.291542 | +21.971278 | 4.92 | 1.594 | 1.82 | M1III |
| 89908 | 18 | 20 | 27.7 | +71 | 20 | 53.7 | 275.115218 | +71.348262 | 4.22 | -0.093 | -0.11 | A0p (Si) |
| 89918 | 18 | 21 | 53.5 | +3 | 23 | 16.2 | 275.472855 | +3.387843 | 4.85 | 0.911 | 0.90 | G8III |
| 89931 | 18 | 22 | 18.3 | -29 | 49 | 2.9 | 275.576452 | -29.817484 | 2.72 | 1.380 | 1.35 | K3III |
| 89937 | 18 | 20 | 41.0 | +72 | 44 | 28.6 | 275.170999 | +72.741278 | 3.55 | 0.489 | 0.62 | F7Vvar |
| 89962 | 18 | 22 | 22.3 | -2 | 53 | 30.7 | 275.592838 | -2.891861 | 3.23 | 0.941 | 0.96 | K0III-IV |
| 90098 | 18 | 25 | 6.8 | -61 | 28 | 54.8 | 276.278289 | -61.481878 | 4.35 | 1.462 | 1.50 | M1III SB |
| 90135 | 18 | 24 | 47.0 | -8 | 55 | 19.4 | 276.195685 | -8.922053 | 4.66 | 0.932 | 0.94 | K0III |
| 90139 | 18 | 24 | 34.3 | +21 | 46 | 49.4 | 276.143011 | +21.780400 | 3.85 | 1.168 | 1.13 | K2III |
| 90156 | 18 | 24 | 12.6 | +58 | 48 | 46.9 | 276.052317 | +58.813040 | 4.98 | 0.082 | 0.05 | A3V |
| 90185 | 18 | 25 | 31.9 | -34 | 22 | 22.6 | 276.382973 | -34.372954 | 1.79 | -0.031 | 0.01 | B9.5III |
| 90289 | 18 | 26 | 34.3 | -20 | 31 | 44.2 | 276.642821 | -20.528938 | 4.81 | 1.310 | 1.27 | A1/A2V |
| 90344 | 18 | 26 | 2.6 | +65 | 34 | 34.5 | 276.510879 | +65.576258 | 4.82 | 1.179 | 1.16 | K2III |
| 90422 | 18 | 28 | 29.5 | -45 | 57 | 17.9 | 277.123046 | -45.954979 | 3.49 | -0.179 | -0.18 | B3IV |
| 90496 | 18 | 29 | 14.1 | -25 | 24 | 30.7 | 277.308826 | -25.408529 | 2.82 | 1.025 | 1.04 | K1IIIb |
| 90568 | 18 | 30 | 24.5 | -49 | 3 | 25.7 | 277.602019 | -49.057151 | 4.10 | 0.995 | 1.02 | G8/K0III |
| 90595 | 18 | 30 | 21.9 | -14 | 33 | 3.8 | 277.591426 | -14.551044 | 4.67 | 0.076 | 0.10 | A1IV/V |
| 90797 | 18 | 33 | 17.0 | -62 | 15 | 45.0 | 278.320984 | -62.262510 | 4.63 | -0.116 | -0.11 | B8III |
| 90830 | 18 | 33 | 16.4 | -45 | 53 | 55.8 | 278.318505 | -45.898837 | 4.92 | -0.101 | -0.08 | B6IV |
| 90905 | 18 | 32 | 55.7 | +57 | 3 | 42.5 | 278.232195 | +57.061813 | 4.77 | 0.611 | 0.67 | F7Ib |
| 90982 | 18 | 34 | 57.9 | -42 | 17 | 44.3 | 278.741342 | -42.295643 | 4.62 | 0.994 | 0.95 | G5III |
| 91117 | 18 | 36 | 19.3 | -8 | 13 | 41.1 | 279.080621 | -8.228084 | 3.85 | 1.317 | 1.28 | K2III |
| 91262 | 18 | 37 | 38.0 | +38 | 48 | 13.6 | 279.408280 | +38.803775 | 0.03 | -0.001 | -0.01 | A0Vvar |
| 91726 | 18 | 43 | 23.8 | -9 | 1 | 52.8 | 280.848964 | -9.031332 | 4.70 | 0.358 | 0.40 | F2IIIp d Del |
| 91792 | 18 | 45 | 25.1 | -71 | 24 | 25.6 | 281.354686 | -71.407106 | 4.01 | 1.134 | 1.14 | K2III |
| 91845 | 18 | 44 | 38.2 | -8 | 15 | 12.0 | 281.159240 | -8.253337 | 4.88 | 1.112 | 1.07 | G8II |
| 91918 | 18 | 45 | 41.6 | -35 | 37 | 11.5 | 281.423526 | -35.619869 | 4.86 | -0.168 | -0.19 | B2V |
| 91919 | 18 | 45 | 1.1 | +39 | 41 | 33.2 | 281.254597 | +39.692565 | 4.67 | 0.170 | 0.19 | F1V |
| 91926 | 18 | 45 | 3.6 | +39 | 38 | 6.5 | 281.264901 | +39.635136 | 4.59 | 0.180 | 0.20 | A8Vn |
| 91971 | 18 | 45 | 28.7 | +37 | 37 | 39.3 | 281.369761 | +37.627588 | 4.34 | 0.192 | 0.18 | Am |
| 92024 | 18 | 47 | 27.2 | -64 | 50 | 56.8 | 281.863338 | -64.849113 | 4.78 | 0.199 | 0.21 | A7V |
| 92041 | 18 | 46 | 56.2 | -26 | 58 | 4.4 | 281.733971 | -26.967879 | 3.17 | -0.107 | -0.10 | B8.5III |
| 92043 | 18 | 46 | 32.7 | +20 | 34 | 2.1 | 281.636170 | +20.567245 | 4.19 | 0.483 | 0.55 | F6V |
| 92088 | 18 | 46 | 54.1 | +26 | 41 | 6.9 | 281.725263 | +26.685255 | 4.83 | 1.199 | 1.16 | K3III |
| 92161 | 18 | 47 | 55.6 | +18 | 12 | 20.3 | 281.981725 | +18.205651 | 4.34 | 0.148 | 0.16 | A5III |
| 92175 | 18 | 48 | 15.7 | -4 | 43 | 27.7 | 282.065475 | -4.724366 | 4.22 | 1.087 | 1.09 | G5II... |
| 92420 | 18 | 50 | 50.2 | +33 | 23 | 15.2 | 282.709259 | +33.387565 | 3.52 | 0.003 | 0.02 | A8:V comp SB |
| 92512 | 18 | 51 | 30.2 | +59 | 24 | 49.9 | 282.875736 | +59.413850 | 4.63 | 1.185 | 1.20 | K0II-III SB |
| 92609 | 18 | 54 | 6.6 | -62 | 9 | 41.2 | 283.527338 | -62.161433 | 4.22 | -0.150 | -0.14 | B2II-III |
| 92689 | 18 | 53 | 44.0 | +50 | 44 | 4.0 | 283.433368 | +50.734456 | 4.92 | 0.903 | 0.88 | G8III |
| 92761 | 18 | 55 | 24.4 | -22 | 43 | 4.2 | 283.851502 | -22.717844 | 4.86 | 1.412 | 1.35 | K1II |
| 92782 | 18 | 54 | 8.4 | +71 | 19 | 27.1 | 283.534940 | +71.324197 | 4.82 | 1.151 | 1.10 | K0III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | | δ | | | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|----------|-------|--------------------|---|-----|-----|----------|
| | NH | h | m | s | ° | ' | " | ° | ' | " | ° | ' | | | | |
| 92791 | 18 | 55 | 13.3 | +36 | 55 | 32.5 | 283.805495 | +36.925690 | 4.22 | 1.575 | 2.60 | M4IIvar | | | | |
| 92818 | 18 | 55 | 36.8 | +22 | 40 | 20.3 | 283.903428 | +22.672294 | 4.57 | 0.782 | 0.86 | G4III+... | | | | |
| 92845 | 18 | 56 | 21.4 | -22 | 38 | 38.5 | 284.089287 | -22.644017 | 5.00 | 1.348 | 1.25 | K1Ib/II | | | | |
| 92855 | 18 | 56 | 32.1 | -26 | 16 | 10.0 | 284.133763 | -26.269455 | 2.05 | -0.134 | -0.13 | B2.5V | | | | |
| 92862 | 18 | 55 | 57.5 | +43 | 58 | 26.3 | 283.989724 | +43.973974 | 4.08 | 1.397 | 3.14 | M5IIIvar | | | | |
| 92946 | 18 | 57 | 14.3 | +4 | 13 | 54.1 | 284.309609 | +4.231705 | 4.62 | 0.161 | 0.20 | A5V | | | | |
| 92951 | 18 | 57 | 15.8 | +4 | 13 | 49.0 | 284.315782 | +4.230278 | 4.98 | 0.204 | 0.22 | A5Vn | | | | |
| 93015 | 18 | 59 | 3.2 | -67 | 12 | 17.4 | 284.763201 | -67.204828 | 4.40 | 0.530 | 0.59 | F5Ib-II: | | | | |
| 93026 | 18 | 58 | 9.5 | -5 | 49 | 5.4 | 284.539551 | -5.818156 | 4.83 | 1.057 | 1.03 | K1III | | | | |
| 93085 | 18 | 58 | 57.1 | -21 | 4 | 40.7 | 284.737942 | -21.077985 | 3.52 | 1.151 | 1.09 | G8/K0II/III | | | | |
| 93148 | 19 | 0 | 5.9 | -52 | 54 | 34.2 | 285.024423 | -52.909488 | 4.85 | -0.051 | -0.03 | A0V | | | | |
| 93174 | 19 | 0 | 6.2 | -37 | 4 | 43.4 | 285.025847 | -37.078718 | 4.83 | 0.396 | 0.44 | F3IV/V | | | | |
| 93194 | 18 | 59 | 42.7 | +32 | 43 | 7.6 | 284.927711 | +32.718780 | 3.25 | -0.049 | -0.03 | B9III | | | | |
| 93244 | 19 | 0 | 33.2 | +15 | 5 | 50.9 | 285.138282 | +15.097466 | 4.02 | 1.082 | 1.00 | K2III | | | | |
| 93279 | 19 | 0 | 47.2 | +32 | 10 | 31.1 | 285.196839 | +32.175297 | 4.94 | 1.465 | 1.32 | K3III | | | | |
| 93408 | 19 | 2 | 1.2 | +46 | 57 | 52.9 | 285.504872 | +46.964701 | 5.00 | 0.186 | 0.23 | A7V | | | | |
| 93429 | 19 | 2 | 46.5 | -5 | 42 | 31.4 | 285.693629 | -5.708730 | 4.02 | 1.079 | 1.08 | K1IIIvar | | | | |
| 93506 | 19 | 3 | 54.9 | -29 | 50 | 56.3 | 285.978559 | -29.848983 | 2.60 | 0.062 | 0.06 | A3IV | | | | |
| 93542 | 19 | 4 | 33.8 | -42 | 3 | 50.3 | 286.140764 | -42.063978 | 4.74 | -0.027 | -0.02 | A0Vn | | | | |
| 93683 | 19 | 5 | 54.6 | -21 | 42 | 35.1 | 286.477482 | -21.709743 | 3.76 | 1.012 | 0.98 | K0III | | | | |
| 93747 | 19 | 6 | 21.1 | +13 | 53 | 43.1 | 286.588086 | +13.895303 | 2.99 | 0.014 | -0.01 | A0Vn | | | | |
| 93805 | 19 | 7 | 20.2 | -4 | 51 | 1.0 | 286.834071 | -4.850267 | 3.43 | -0.096 | -0.09 | B9Vn | | | | |
| 93825 | 19 | 7 | 48.1 | -37 | 1 | 55.4 | 286.950408 | -37.032049 | 4.23 | 0.523 | 0.59 | F7IV-V | | | | |
| 93864 | 19 | 8 | 13.1 | -27 | 38 | 19.1 | 287.054566 | -27.638651 | 3.32 | 1.169 | 1.15 | K1/K2III | | | | |
| 94005 | 19 | 9 | 46.4 | -40 | 27 | 46.7 | 287.443360 | -40.462982 | 4.57 | 1.070 | 1.06 | K1III | | | | |
| 94114 | 19 | 10 | 51.8 | -37 | 52 | 14.2 | 287.715991 | -37.870615 | 4.11 | 0.042 | 0.03 | A0/A1V | | | | |
| 94141 | 19 | 10 | 58.9 | -20 | 59 | 21.6 | 287.745365 | -20.989327 | 2.88 | 0.377 | 0.44 | F2II/III | | | | |
| 94160 | 19 | 11 | 26.2 | -39 | 18 | 22.8 | 287.859056 | -39.306337 | 4.10 | 1.163 | 1.11 | K0II/IIICN. | | | | |
| 94376 | 19 | 12 | 33.3 | +67 | 41 | 51.3 | 288.138620 | +67.697582 | 3.07 | 0.990 | 0.94 | G9III | | | | |
| 94481 | 19 | 14 | 27.4 | +39 | 10 | 56.0 | 288.614020 | +39.182225 | 4.43 | -0.150 | -0.19 | B2.5IV | | | | |
| 94490 | 19 | 14 | 17.0 | +57 | 44 | 27.6 | 288.570922 | +57.741009 | 5.00 | 1.156 | 1.12 | K2III | | | | |
| 94643 | 19 | 16 | 47.7 | -25 | 13 | 10.6 | 289.198886 | -25.219623 | 4.86 | 0.569 | 0.67 | K0/K1III+... | | | | |
| 94648 | 19 | 15 | 8.7 | +73 | 23 | 34.4 | 288.786409 | +73.392891 | 4.45 | 1.257 | 1.15 | K3III | | | | |
| 94703 | 19 | 17 | 5.9 | +21 | 25 | 40.3 | 289.274708 | +21.427856 | 4.76 | -0.058 | -0.05 | B4IV | | | | |
| 94713 | 19 | 17 | 4.8 | +38 | 10 | 16.4 | 289.270023 | +38.171231 | 4.35 | 1.258 | 1.13 | K0II | | | | |
| 94779 | 19 | 17 | 34.6 | +53 | 24 | 24.9 | 289.393972 | +53.406926 | 3.80 | 0.950 | 0.85 | K0III | | | | |
| 94820 | 19 | 18 | 49.9 | -18 | 54 | 53.2 | 289.708123 | -18.914764 | 4.88 | 1.013 | 0.99 | K0III | | | | |
| 95066 | 19 | 21 | 38.5 | -5 | 22 | 33.5 | 290.410478 | -5.375974 | 4.98 | 0.937 | 0.93 | G8III-IV... | | | | |
| 95081 | 19 | 20 | 46.1 | +65 | 45 | 14.9 | 290.192273 | +65.754129 | 4.60 | 0.033 | 0.01 | A2III _s | | | | |
| 95168 | 19 | 22 | 51.6 | -17 | 48 | 25.1 | 290.714994 | -17.806985 | 3.92 | 0.228 | 0.25 | F0III/IV | | | | |
| 95176 | 19 | 22 | 54.0 | -15 | 54 | 53.8 | 290.724907 | -15.914942 | 4.52 | 0.079 | 0.34 | F2p | | | | |
| 95241 | 19 | 24 | 6.4 | -44 | 25 | 6.5 | 291.026816 | -44.418485 | 3.96 | -0.085 | -0.07 | B9V | | | | |
| 95294 | 19 | 24 | 41.7 | -44 | 45 | 33.1 | 291.173819 | -44.759200 | 4.27 | 0.350 | 0.42 | F2III | | | | |
| 95347 | 19 | 25 | 18.2 | -40 | 34 | 31.6 | 291.325645 | -40.575439 | 3.96 | -0.105 | -0.10 | B8V | | | | |
| 95372 | 19 | 24 | 56.1 | +29 | 39 | 45.1 | 291.233709 | +29.662540 | 4.99 | -0.120 | -0.11 | B3IV | | | | |
| 95501 | 19 | 26 | 31.9 | +3 | 9 | 25.4 | 291.632808 | +3.157056 | 3.36 | 0.319 | 0.38 | F0IV | | | | |
| 95585 | 19 | 27 | 34.0 | +0 | 22 | 51.1 | 291.891499 | +0.380864 | 4.64 | 0.576 | 0.75 | F2Ib | | | | |
| 95771 | 19 | 29 | 33.5 | +24 | 42 | 27.3 | 292.389698 | +24.707581 | 4.44 | 1.502 | 1.68 | M0 comp | | | | |
| 95853 | 19 | 30 | 13.3 | +51 | 46 | 26.9 | 292.555563 | +51.774145 | 3.76 | 0.148 | 0.18 | A5Vn | | | | |
| 95947 | 19 | 31 | 32.9 | +28 | 0 | 13.8 | 292.887025 | +28.003842 | 3.05 | 1.088 | 1.05 | K3II+... | | | | |
| 96052 | 19 | 32 | 32.0 | +34 | 29 | 51.4 | 293.133540 | +34.497607 | 4.74 | -0.150 | -0.12 | B3IV | | | | |
| 96100 | 19 | 32 | 18.9 | +69 | 41 | 46.6 | 293.078774 | +69.696267 | 4.67 | 0.786 | 0.85 | K0V | | | | |
| 96229 | 19 | 35 | 5.4 | +7 | 25 | 25.9 | 293.772549 | +7.423852 | 4.45 | 1.176 | 1.14 | K3III | | | | |
| 96275 | 19 | 35 | 28.9 | +19 | 49 | 9.8 | 293.870518 | +19.819390 | 5.00 | -0.093 | -0.08 | B8III _n | | | | |
| 96341 | 19 | 36 | 43.9 | -48 | 3 | 10.8 | 294.182782 | -48.053006 | 4.88 | 1.096 | 1.06 | G9III | | | | |
| 96441 | 19 | 36 | 59.5 | +50 | 16 | 9.5 | 294.247973 | +50.269305 | 4.49 | 0.395 | 0.44 | F4V | | | | |
| 96465 | 19 | 37 | 57.1 | -24 | 50 | 12.2 | 294.488033 | -24.836732 | 4.59 | -0.075 | -0.06 | B8/B9V | | | | |
| 96468 | 19 | 37 | 46.9 | -1 | 14 | 23.0 | 294.445258 | -1.239732 | 4.36 | -0.079 | -0.06 | B5III | | | | |
| 96483 | 19 | 37 | 59.5 | -6 | 58 | 49.5 | 294.498115 | -6.980422 | 4.93 | -0.046 | 0.03 | B0.5III | | | | |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | δ | | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|----------|--------|-------|---------------------|-----|----------|
| | NH | h | m | s | ° | ' | " | ° | ° | | | | | |
| 96683 | 19 | 40 | 11.2 | +30 | 12 | 5.9 | 295.046669 | +30.201651 | 4.68 | 0.971 | 0.89 | G8III-IV... | | |
| 96757 | 19 | 41 | 0.8 | +18 | 3 | 44.1 | 295.253211 | +18.062259 | 4.39 | 0.777 | 0.77 | G0II | | |
| 96837 | 19 | 41 | 58.2 | +17 | 31 | 29.1 | 295.492423 | +17.524760 | 4.39 | 1.041 | 0.96 | G8II | | |
| 97118 | 19 | 45 | 1.0 | +37 | 24 | 17.5 | 296.254076 | +37.404865 | 4.89 | 0.948 | 0.94 | G8III | | |
| 97165 | 19 | 45 | 36.9 | +45 | 10 | 54.1 | 296.403790 | +45.181683 | 2.86 | -0.002 | -0.02 | B9.5III | | |
| 97278 | 19 | 47 | 14.0 | +10 | 39 | 52.2 | 296.808482 | +10.664495 | 2.72 | 1.507 | 1.44 | K3II | | |
| 97290 | 19 | 47 | 33.4 | -19 | 42 | 37.0 | 296.889012 | -19.710267 | 4.87 | 1.061 | 1.03 | K0III | | |
| 97295 | 19 | 47 | 12.3 | +33 | 46 | 35.0 | 296.801336 | +33.776387 | 5.00 | 0.476 | 0.55 | F5 | | |
| 97365 | 19 | 48 | 18.1 | +18 | 35 | 9.9 | 297.075381 | +18.586086 | 3.68 | 1.313 | 1.27 | M2II + B6 | | |
| 97433 | 19 | 48 | 5.6 | +70 | 19 | 12.1 | 297.023296 | +70.320015 | 3.84 | 0.888 | 0.88 | G8III | | |
| 97649 | 19 | 51 | 47.0 | +8 | 55 | 25.4 | 297.945680 | +8.923725 | 0.76 | 0.221 | 0.27 | A7IV-V | | |
| 97679 | 19 | 51 | 57.1 | +22 | 39 | 47.9 | 297.987827 | +22.663312 | 4.90 | -0.153 | -0.12 | B2.5V | | |
| 97804 | 19 | 53 | 31.0 | +1 | 3 | 34.7 | 298.379057 | +1.059631 | 3.87 | 0.630 | 0.73 | F6Ibv SB | | |
| 97886 | 19 | 54 | 20.0 | +24 | 8 | 3.2 | 298.583283 | +24.134222 | 4.57 | -0.047 | -0.02 | B9.5III | | |
| 97938 | 19 | 55 | 14.5 | +8 | 30 | 56.8 | 298.810267 | +8.515778 | 4.71 | 1.023 | 1.03 | K0III | | |
| 98032 | 19 | 56 | 40.2 | -41 | 48 | 45.7 | 299.167581 | -41.812692 | 4.12 | 1.063 | 1.09 | K0III | | |
| 98036 | 19 | 56 | 19.2 | +6 | 27 | 33.6 | 299.079940 | +6.459334 | 3.71 | 0.855 | 0.89 | G8IVvar | | |
| 98055 | 19 | 56 | 9.6 | +52 | 29 | 38.6 | 299.039801 | +52.494054 | 4.91 | 0.124 | 0.12 | A4Vn | | |
| 98066 | 19 | 57 | 5.5 | -26 | 14 | 36.8 | 299.272928 | -26.243565 | 4.70 | 0.748 | 0.79 | G3/G5III | | |
| 98068 | 19 | 56 | 35.7 | +38 | 32 | 31.7 | 299.148933 | +38.542133 | 4.95 | -0.086 | -0.07 | B5IV | | |
| 98073 | 19 | 56 | 18.7 | +58 | 54 | 4.4 | 299.078048 | +58.901229 | 4.98 | 1.584 | 1.56 | K5II-III | | |
| 98110 | 19 | 57 | 4.5 | +35 | 8 | 20.0 | 299.268895 | +35.138895 | 3.89 | 1.019 | 0.98 | K0IIIvar | | |
| 98162 | 19 | 58 | 12.1 | -27 | 6 | 50.3 | 299.550457 | -27.113973 | 4.54 | 1.462 | 1.39 | K3III | | |
| 98337 | 19 | 59 | 40.1 | +19 | 32 | 56.4 | 299.917187 | +19.548992 | 3.51 | 1.571 | 1.65 | K5III | | |
| 98353 | 20 | 0 | 11.9 | -26 | 8 | 19.5 | 300.049782 | -26.138755 | 4.84 | 0.882 | 0.91 | G8II/III | | |
| 98412 | 20 | 1 | 4.0 | -35 | 13 | 9.2 | 300.266515 | -35.219214 | 4.37 | -0.150 | -0.15 | B2.5IV | | |
| 98495 | 20 | 2 | 55.6 | -72 | 51 | 12.3 | 300.731739 | -72.853417 | 3.97 | -0.032 | -0.04 | A0V | | |
| 98543 | 20 | 1 | 56.7 | +27 | 48 | 40.7 | 300.486333 | +27.811308 | 4.66 | 0.184 | 0.19 | A4III | | |
| 98608 | 20 | 3 | 27.6 | -59 | 19 | 4.3 | 300.864929 | -59.317866 | 4.95 | 1.356 | 3.25 | M6III | | |
| 98688 | 20 | 3 | 54.9 | -27 | 39 | 4.7 | 300.978743 | -27.651296 | 4.43 | 1.640 | 2.50 | M4III | | |
| 98702 | 20 | 2 | 54.2 | +67 | 55 | 55.6 | 300.725706 | +67.932117 | 4.51 | 1.313 | 1.23 | K3III | | |
| 98761 | 20 | 4 | 54.9 | -37 | 52 | 56.3 | 301.228631 | -37.882298 | 4.77 | 1.417 | 1.40 | K4III | | |
| 98842 | 20 | 5 | 37.3 | -31 | 59 | 49.8 | 301.405576 | -31.997166 | 4.99 | 1.208 | 1.17 | K1III/IV | | |
| 99120 | 20 | 8 | 56.8 | -52 | 49 | 12.8 | 302.236668 | -52.820213 | 4.93 | 1.591 | 1.83 | M1II | | |
| 99240 | 20 | 10 | 42.9 | -66 | 7 | 37.7 | 302.678910 | -66.127135 | 3.55 | 0.751 | 0.76 | G5IV-Vvar | | |
| 99255 | 20 | 8 | 9.7 | +77 | 46 | 20.1 | 302.040435 | +77.772246 | 4.38 | -0.046 | -0.06 | B9III | | |
| 99303 | 20 | 10 | 11.3 | +36 | 54 | 3.3 | 302.547179 | +36.900927 | 4.93 | -0.139 | -0.13 | B2.5V | | |
| 99473 | 20 | 12 | 21.7 | -0 | 45 | 33.6 | 303.090339 | -0.759345 | 3.24 | -0.066 | -0.06 | B9.5III | | |
| 99639 | 20 | 13 | 56.7 | +46 | 52 | 42.6 | 303.486354 | +46.878514 | 4.80 | 0.100 | 0.19 | A5III _n | | |
| 99655 | 20 | 13 | 52.4 | +56 | 37 | 51.6 | 303.468223 | +56.631013 | 4.28 | 0.114 | 0.14 | A3IV-V _n | | |
| 99675 | 20 | 14 | 16.6 | +46 | 48 | 15.5 | 303.569360 | +46.804305 | 3.80 | 1.270 | 1.15 | K2II+... | | |
| 99742 | 20 | 15 | 13.5 | +15 | 15 | 40.4 | 303.806349 | +15.261227 | 4.94 | 0.072 | 0.09 | A2V | | |
| 99770 | 20 | 15 | 18.1 | +36 | 52 | 12.2 | 303.825486 | +36.870049 | 4.93 | 0.151 | 0.21 | A2V | | |
| 99824 | 20 | 16 | 8.0 | +25 | 39 | 20.2 | 304.033490 | +25.655617 | 4.79 | -0.181 | -0.22 | B3V | | |
| 99848 | 20 | 16 | 6.4 | +47 | 46 | 40.6 | 304.026470 | +47.777940 | 3.96 | 1.451 | 1.45 | K3Ib-II comp | | |
| 99874 | 20 | 16 | 37.1 | +27 | 52 | 41.4 | 304.154696 | +27.878167 | 4.50 | 1.258 | 1.30 | K3III | | |
| 100027 | 20 | 18 | 46.9 | -12 | 26 | 36.5 | 304.695507 | -12.443484 | 4.30 | 0.928 | 1.05 | G3Ib | | |
| 100044 | 20 | 18 | 32.6 | +38 | 5 | 51.3 | 304.635670 | +38.097595 | 4.77 | 0.377 | 0.44 | B2pe | | |
| 100064 | 20 | 19 | 11.4 | -12 | 28 | 47.8 | 304.797378 | -12.479945 | 3.58 | 0.883 | 0.92 | G6/G8III | | |
| 100310 | 20 | 21 | 47.9 | -12 | 41 | 35.5 | 305.449652 | -12.693206 | 4.77 | -0.047 | -0.06 | B9IV | | |
| 100345 | 20 | 22 | 9.7 | -14 | 42 | 54.7 | 305.540212 | -14.715190 | 3.05 | 0.790 | 0.90 | A5:n | | |
| 100453 | 20 | 22 | 57.9 | +40 | 19 | 23.5 | 305.741130 | +40.323183 | 2.23 | 0.673 | 0.65 | F8Ib | | |
| 100587 | 20 | 24 | 40.8 | +32 | 15 | 26.4 | 306.169812 | +32.257324 | 4.43 | 1.331 | 1.31 | K3III | | |
| 100751 | 20 | 27 | 15.4 | -56 | 40 | 3.0 | 306.814066 | -56.667510 | 1.94 | -0.118 | -0.10 | B2IV | | |
| 101027 | 20 | 30 | 1.6 | -17 | 44 | 40.1 | 307.506681 | -17.744481 | 4.77 | 0.386 | 0.44 | F3V | | |
| 101076 | 20 | 30 | 14.0 | +30 | 26 | 16.6 | 307.558420 | +30.437947 | 4.01 | 0.404 | 0.46 | F5II | | |
| 101093 | 20 | 29 | 55.3 | +63 | 3 | 48.2 | 307.480492 | +63.063402 | 4.21 | 0.199 | 0.20 | A7III | | |
| 101101 | 20 | 30 | 43.2 | -2 | 48 | 58.0 | 307.680039 | -2.816113 | 4.91 | 1.160 | 1.12 | K2III | | |
| 101138 | 20 | 30 | 41.6 | +49 | 1 | 16.4 | 307.673506 | +49.021229 | 4.94 | -0.087 | -0.06 | B2.5IV | | |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|--------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 101421 | 20 | 34 | 11.5 | +11 | 22 | 26.5 | 308.547980 | +11.374026 | 4.03 | -0.123 | -0.10 | B6III |
| 101474 | 20 | 34 | 42.1 | +35 | 19 | 19.1 | 308.675260 | +35.321978 | 4.61 | 1.593 | 1.78 | K2Ib comp |
| 101589 | 20 | 36 | 16.0 | +14 | 44 | 45.6 | 309.066822 | +14.746011 | 4.64 | 0.120 | 0.14 | A3V |
| 101612 | 20 | 37 | 15.7 | -60 | 30 | 38.9 | 309.315448 | -60.510802 | 4.75 | 0.291 | 0.34 | F1III |
| 101692 | 20 | 37 | 47.6 | -2 | 28 | 39.9 | 309.448359 | -2.477745 | 4.91 | 1.606 | 1.66 | K5II |
| 101769 | 20 | 38 | 30.6 | +14 | 40 | 2.7 | 309.627581 | +14.667420 | 3.64 | 0.425 | 0.50 | F5IV |
| 101772 | 20 | 39 | 0.0 | -47 | 13 | 6.4 | 309.750006 | -47.218440 | 3.11 | 0.998 | 0.98 | K0III |
| 101773 | 20 | 39 | 17.4 | -61 | 27 | 27.2 | 309.822327 | -61.457562 | 4.86 | 0.447 | 0.52 | Fm delta Del |
| 101847 | 20 | 39 | 23.7 | -1 | 1 | 56.3 | 309.848867 | -1.032297 | 4.31 | 0.949 | 0.91 | G8III SB |
| 101867 | 20 | 39 | 26.3 | +21 | 16 | 26.8 | 309.859555 | +21.274122 | 4.81 | -0.030 | -0.01 | A0V |
| 101958 | 20 | 40 | 35.4 | +15 | 59 | 7.8 | 310.147504 | +15.985511 | 3.77 | -0.057 | -0.01 | B9V |
| 102098 | 20 | 42 | 7.9 | +45 | 21 | 15.8 | 310.532812 | +45.354375 | 1.25 | 0.092 | 0.16 | A2Ia |
| 102281 | 20 | 44 | 25.0 | +15 | 8 | 57.1 | 311.103981 | +15.149191 | 4.43 | 0.302 | 0.34 | A7IIIp d Del |
| 102333 | 20 | 45 | 32.0 | -51 | 50 | 46.0 | 311.383197 | -51.846107 | 4.51 | 0.278 | 0.30 | A6:var |
| 102388 | 20 | 45 | 45.8 | +25 | 20 | 42.0 | 311.440715 | +25.344990 | 4.92 | 1.183 | 1.11 | K2III |
| 102395 | 20 | 46 | 46.8 | -66 | 7 | 39.3 | 311.695163 | -66.127588 | 3.42 | 0.163 | 0.20 | A5IV |
| 102422 | 20 | 45 | 42.2 | +61 | 55 | 7.5 | 311.425798 | +61.918753 | 3.41 | 0.912 | 0.94 | K0IV |
| 102431 | 20 | 45 | 51.6 | +57 | 39 | 14.0 | 311.465053 | +57.653884 | 4.52 | 0.535 | 0.58 | F8IV-V |
| 102453 | 20 | 46 | 30.6 | +30 | 47 | 43.8 | 311.627375 | +30.795495 | 4.22 | 1.051 | 1.01 | K0III |
| 102485 | 20 | 47 | 18.3 | -25 | 11 | 45.2 | 311.826372 | -25.195893 | 4.13 | 0.426 | 0.49 | F5V |
| 102488 | 20 | 47 | 2.5 | +34 | 2 | 52.6 | 311.760334 | +34.047941 | 2.48 | 1.021 | 1.00 | K0III |
| 102532 | 20 | 47 | 36.6 | +16 | 11 | 57.3 | 311.902416 | +16.199242 | 4.27 | 1.042 | 1.03 | K1IV |
| 102571 | 20 | 47 | 59.9 | +34 | 27 | 1.3 | 311.999511 | +34.450375 | 4.93 | 1.294 | 1.25 | K3IIIvar |
| 102589 | 20 | 48 | 12.5 | +36 | 34 | 1.0 | 312.052112 | +36.566958 | 4.53 | -0.083 | -0.12 | B6IV |
| 102618 | 20 | 48 | 47.0 | -9 | 25 | 10.3 | 312.195889 | -9.419529 | 3.78 | 0.000 | -0.01 | A1V |
| 102624 | 20 | 48 | 49.0 | -4 | 57 | 5.3 | 312.204325 | -4.951464 | 4.43 | 1.639 | 2.21 | M3IIIvar |
| 102724 | 20 | 49 | 38.2 | +46 | 11 | 27.4 | 312.409318 | +46.190953 | 4.81 | 0.571 | 0.59 | B3Ia |
| 102790 | 20 | 50 | 53.1 | -46 | 8 | 58.2 | 312.721237 | -46.149512 | 4.90 | 1.494 | 1.57 | K5III |
| 102831 | 20 | 51 | 14.6 | -33 | 42 | 9.1 | 312.810725 | -33.702518 | 4.89 | 1.004 | 0.97 | G8III |
| 102978 | 20 | 53 | 2.4 | -26 | 50 | 28.2 | 313.260190 | -26.841164 | 4.12 | 1.633 | 1.76 | K4III |
| 103004 | 20 | 53 | 0.4 | +27 | 10 | 28.8 | 313.251499 | +27.174673 | 4.56 | 0.835 | 0.87 | G8III |
| 103045 | 20 | 53 | 45.5 | -8 | 54 | 18.9 | 313.439440 | -8.905237 | 4.73 | 0.325 | 0.36 | A3m |
| 103089 | 20 | 53 | 58.3 | +44 | 27 | 56.4 | 313.492932 | +44.465657 | 4.80 | -0.134 | -0.16 | B5V |
| 103227 | 20 | 56 | 23.8 | -58 | 22 | 30.6 | 314.099095 | -58.375164 | 3.67 | 1.250 | 1.11 | K0III |
| 103413 | 20 | 57 | 56.3 | +41 | 14 | 48.6 | 314.484699 | +41.246829 | 3.94 | 0.027 | 0.01 | A1Vn |
| 103632 | 21 | 0 | 31.4 | +47 | 36 | 6.2 | 315.130998 | +47.601718 | 4.74 | -0.084 | -0.06 | B1ne |
| 103738 | 21 | 2 | 32.6 | -32 | 10 | 35.1 | 315.635788 | -32.176405 | 4.67 | 0.890 | 0.90 | G8III |
| 104019 | 21 | 5 | 34.1 | -19 | 46 | 21.7 | 316.392085 | -19.772699 | 4.82 | 0.169 | 0.18 | A5V |
| 104060 | 21 | 5 | 40.7 | +44 | 0 | 37.4 | 316.419445 | +44.010391 | 3.72 | 1.609 | 1.63 | K5Ibv SB |
| 104139 | 21 | 7 | 5.8 | -17 | 9 | 0.9 | 316.774122 | -17.150249 | 4.08 | -0.010 | 0.00 | A1V |
| 104194 | 21 | 7 | 18.5 | +47 | 43 | 53.4 | 316.827162 | +47.731500 | 4.56 | 1.569 | 1.54 | K4II |
| 104234 | 21 | 8 | 19.4 | -24 | 55 | 21.8 | 317.080692 | -24.922730 | 4.49 | 1.604 | 1.81 | K5/M0III |
| 104459 | 21 | 10 | 42.5 | -11 | 17 | 15.3 | 317.677122 | -11.287595 | 4.50 | 0.926 | 0.92 | G8III |
| 104521 | 21 | 11 | 20.3 | +10 | 12 | 54.5 | 317.834547 | +10.215152 | 4.70 | 0.262 | 0.26 | F0p |
| 104732 | 21 | 13 | 48.6 | +30 | 18 | 42.5 | 318.452519 | +30.311797 | 3.21 | 0.990 | 0.97 | G8II SB |
| 104858 | 21 | 15 | 28.7 | +10 | 5 | 27.9 | 318.869600 | +10.091084 | 4.47 | 0.529 | 0.57 | F5V+... |
| 104887 | 21 | 15 | 36.7 | +38 | 8 | 0.4 | 318.902979 | +38.133458 | 3.74 | 0.393 | 0.46 | F1IV |
| 104987 | 21 | 16 | 50.9 | +5 | 20 | 0.8 | 319.212009 | +5.333554 | 3.92 | 0.549 | 0.62 | G0III+... |
| 105102 | 21 | 18 | 13.3 | +39 | 28 | 53.0 | 319.555592 | +39.481376 | 4.22 | 0.098 | 0.25 | B9Iab |
| 105138 | 21 | 18 | 45.7 | +34 | 59 | 1.7 | 319.690510 | +34.983819 | 4.41 | -0.103 | -0.09 | B2Vne |
| 105140 | 21 | 19 | 10.5 | -32 | 5 | 8.6 | 319.793924 | -32.085709 | 4.71 | 0.070 | 0.09 | A0V |
| 105199 | 21 | 19 | 4.0 | +62 | 40 | 22.4 | 319.766776 | +62.672881 | 2.45 | 0.257 | 0.26 | A7IV-V |
| 105319 | 21 | 21 | 18.9 | -53 | 21 | 43.9 | 320.328735 | -53.362194 | 4.39 | 0.191 | 0.21 | A5V |
| 105382 | 21 | 22 | 3.9 | -40 | 43 | 17.4 | 320.516137 | -40.721500 | 4.80 | 0.029 | 0.07 | A2p |
| 105502 | 21 | 23 | 2.1 | +19 | 53 | 35.1 | 320.758798 | +19.893087 | 4.08 | 1.108 | 1.05 | K1III |
| 105515 | 21 | 23 | 23.1 | -16 | 44 | 46.3 | 320.846267 | -16.746202 | 4.28 | 0.888 | 0.89 | G8III |
| 105858 | 21 | 28 | 6.7 | -65 | 16 | 19.4 | 322.028044 | -65.272048 | 4.21 | 0.494 | 0.61 | F6V |
| 105881 | 21 | 27 | 50.0 | -22 | 19 | 17.5 | 321.958420 | -22.321535 | 3.77 | 1.002 | 0.88 | G4Ibp... |
| 106032 | 21 | 28 | 55.0 | +70 | 39 | 3.3 | 322.229148 | +70.650929 | 3.23 | -0.201 | -0.25 | B2IIIv SB |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | | δ | | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|----------|--------|-------|-----|-------------|----------|
| | NH | h | m | s | ° | ' | " | ° | ° | | | | | |
| 106039 | 21 | 29 | 53.3 | -21 | 43 | 0.8 | 322.472107 | -21.716888 | 4.50 | 0.889 | 0.89 | | K0III | |
| 106140 | 21 | 30 | 52.7 | +23 | 43 | 46.3 | 322.719443 | +23.729515 | 4.52 | 1.618 | 1.82 | | M1III | |
| 106278 | 21 | 32 | 38.2 | -5 | 28 | 48.2 | 323.159123 | -5.480045 | 2.90 | 0.828 | 0.82 | | G0Ib | |
| 106481 | 21 | 34 | 45.2 | +45 | 40 | 59.4 | 323.688403 | +45.683156 | 3.98 | 0.885 | 0.94 | | G8III | |
| 106551 | 21 | 35 | 36.9 | +38 | 37 | 36.0 | 323.903716 | +38.626657 | 4.87 | 1.085 | 1.06 | | K1III | |
| 106723 | 21 | 38 | 13.5 | -19 | 22 | 23.5 | 324.556251 | -19.373206 | 4.51 | -0.180 | -0.17 | | B3V:p | |
| 106786 | 21 | 38 | 50.5 | -7 | 45 | 40.9 | 324.710298 | -7.761349 | 4.68 | 0.175 | 0.19 | | A7V | |
| 106801 | 21 | 38 | 28.2 | +62 | 10 | 29.6 | 324.617558 | +62.174882 | 4.76 | 0.246 | 0.38 | | B2Ib | |
| 106985 | 21 | 41 | 13.4 | -16 | 34 | 7.6 | 325.305904 | -16.568767 | 3.69 | 0.320 | 0.32 | | A7III:mp... | |
| 107089 | 21 | 43 | 40.9 | -77 | 17 | 49.8 | 325.920412 | -77.297173 | 3.73 | 1.008 | 0.98 | | K0III | |
| 107119 | 21 | 42 | 12.9 | +71 | 24 | 21.6 | 325.553581 | +71.406006 | 4.55 | 1.108 | 1.07 | | K0III | |
| 107136 | 21 | 42 | 49.4 | +51 | 17 | 1.6 | 325.706022 | +51.283784 | 4.69 | -0.119 | -0.12 | | B3IV | |
| 107188 | 21 | 43 | 48.0 | -18 | 46 | 19.1 | 325.949956 | -18.771983 | 4.72 | 0.868 | 0.91 | | G8III | |
| 107259 | 21 | 44 | 8.2 | +58 | 52 | 28.5 | 326.034010 | +58.874585 | 4.23 | 2.242 | 3.57 | | M2Ia | |
| 107310 | 21 | 45 | 3.6 | +28 | 50 | 9.8 | 326.265095 | +28.836057 | 4.49 | 0.512 | 0.58 | | F6V | |
| 107315 | 21 | 45 | 11.6 | +9 | 58 | 11.3 | 326.298180 | +9.969815 | 2.38 | 1.520 | 1.42 | | K2Ibvar | |
| 107348 | 21 | 45 | 29.0 | +17 | 26 | 41.4 | 326.370710 | +17.444839 | 4.34 | 1.161 | 1.05 | | G5Ib | |
| 107354 | 21 | 45 | 34.5 | +25 | 44 | 24.1 | 326.393834 | +25.740023 | 4.14 | 0.425 | 0.48 | | F5IV | |
| 107380 | 21 | 46 | 9.7 | -32 | 55 | 52.6 | 326.540538 | -32.931268 | 4.35 | -0.053 | -0.05 | | B9.5V | |
| 107418 | 21 | 46 | 2.4 | +61 | 12 | 57.2 | 326.510179 | +61.215883 | 4.25 | 0.474 | 0.73 | | A2Iavar | |
| 107533 | 21 | 47 | 33.2 | +49 | 24 | 18.1 | 326.888230 | +49.405039 | 4.23 | -0.120 | -0.13 | | B3III | |
| 107556 | 21 | 48 | 10.2 | -16 | 2 | 0.0 | 327.042305 | -16.033334 | 2.85 | 0.180 | 0.35 | | A5mF2 (IV) | |
| 108085 | 21 | 55 | 9.8 | -37 | 16 | 2.9 | 328.790756 | -37.267479 | 3.00 | -0.084 | -0.10 | | B8III | |
| 108431 | 21 | 59 | 17.9 | -54 | 53 | 38.8 | 329.824691 | -54.894118 | 4.40 | 0.297 | 0.35 | | F0IV | |
| 108870 | 22 | 4 | 54.5 | -56 | 42 | 0.8 | 331.227289 | -56.700210 | 4.69 | 1.056 | 1.15 | | K5V | |
| 108874 | 22 | 4 | 22.4 | -2 | 3 | 20.4 | 331.093323 | -2.055656 | 4.74 | -0.100 | -0.03 | | B7IVe | |
| 108917 | 22 | 4 | 23.1 | +64 | 43 | 41.9 | 331.096302 | +64.728296 | 4.26 | 0.379 | 0.44 | | Am | |
| 109068 | 22 | 6 | 42.8 | +5 | 9 | 33.9 | 331.678135 | +5.159425 | 4.86 | 1.443 | 1.45 | | K4III | |
| 109074 | 22 | 6 | 50.2 | -0 | 13 | 10.4 | 331.708969 | -0.219547 | 2.95 | 0.969 | 0.92 | | G2Ib | |
| 109111 | 22 | 7 | 20.6 | -39 | 26 | 36.9 | 331.835758 | -39.443591 | 4.47 | 1.349 | 1.31 | | M0III | |
| 109139 | 22 | 7 | 32.5 | -13 | 46 | 10.1 | 331.885440 | -13.769477 | 4.29 | -0.075 | -0.06 | | B8V | |
| 109176 | 22 | 7 | 58.0 | +25 | 26 | 45.2 | 331.991692 | +25.445899 | 3.77 | 0.435 | 0.51 | | F5V | |
| 109268 | 22 | 9 | 30.9 | -46 | 51 | 39.0 | 332.378801 | -46.860837 | 1.73 | -0.070 | -0.05 | | B7IV | |
| 109285 | 22 | 9 | 34.4 | -32 | 53 | 15.5 | 332.393460 | -32.887644 | 4.50 | 0.054 | 0.06 | | A2V | |
| 109289 | 22 | 9 | 37.6 | -33 | 56 | 35.2 | 332.406543 | -33.943119 | 4.99 | 1.499 | 1.50 | | K4III | |
| 109400 | 22 | 10 | 11.8 | +72 | 26 | 32.8 | 332.549025 | +72.442445 | 4.79 | 0.919 | 0.91 | | G8III | |
| 109410 | 22 | 10 | 54.0 | +33 | 16 | 46.0 | 332.725011 | +33.279446 | 4.28 | 0.471 | 0.52 | | F5III | |
| 109422 | 22 | 11 | 20.5 | -32 | 26 | 49.0 | 332.835393 | -32.446938 | 4.94 | 0.489 | 0.54 | | F6V | |
| 109427 | 22 | 11 | 14.0 | +6 | 17 | 57.9 | 332.808411 | +6.299424 | 3.52 | 0.086 | 0.09 | | A2V | |
| 109492 | 22 | 11 | 34.1 | +58 | 18 | 10.0 | 332.892138 | +58.302783 | 3.39 | 1.558 | 1.58 | | K1Ibv SB | |
| 109754 | 22 | 14 | 45.7 | +39 | 49 | 2.0 | 333.690360 | +39.817209 | 4.50 | 1.385 | 1.36 | | K3III | |
| 109857 | 22 | 15 | 47.7 | +57 | 8 | 46.7 | 333.948916 | +57.146303 | 4.18 | 0.278 | 0.33 | | F0IV | |
| 109908 | 22 | 16 | 50.6 | -41 | 14 | 38.3 | 334.210656 | -41.243972 | 4.79 | 0.790 | 0.83 | | G8III+... | |
| 109937 | 22 | 16 | 51.9 | +37 | 51 | 5.0 | 334.216439 | +37.851397 | 4.14 | 1.447 | 1.33 | | K3III | |
| 110003 | 22 | 17 | 54.8 | -7 | 40 | 50.0 | 334.478491 | -7.680549 | 4.17 | 0.979 | 0.95 | | G8III-IV | |
| 110130 | 22 | 19 | 53.3 | -60 | 9 | 23.6 | 334.972092 | -60.156548 | 2.87 | 1.390 | 1.37 | | K3III | |
| 110351 | 22 | 21 | 52.6 | +46 | 38 | 25.1 | 335.468969 | +46.640306 | 4.55 | -0.100 | -0.10 | | B6V | |
| 110371 | 22 | 22 | 16.2 | +28 | 26 | 3.7 | 335.567704 | +28.434358 | 4.78 | -0.010 | 0.06 | | B9III | |
| 110386 | 22 | 22 | 31.6 | +12 | 18 | 32.6 | 335.631868 | +12.309061 | 4.82 | -0.132 | -0.16 | | B2IV-V | |
| 110395 | 22 | 22 | 42.8 | -1 | 17 | 0.3 | 335.678515 | -1.283405 | 3.86 | -0.057 | -0.06 | | A0V | |
| 110538 | 22 | 24 | 22.2 | +52 | 19 | 56.1 | 336.092578 | +52.332252 | 4.42 | 1.015 | 1.03 | | G9III | |
| 110609 | 22 | 25 | 21.1 | +49 | 34 | 50.9 | 336.337818 | +49.580810 | 4.55 | 0.092 | 0.18 | | B9Iab | |
| 110672 | 22 | 26 | 19.4 | +1 | 28 | 55.3 | 336.580859 | +1.482029 | 4.80 | -0.171 | -0.18 | | B1Ve | |
| 110838 | 22 | 28 | 46.1 | -64 | 51 | 40.5 | 337.191922 | -64.861245 | 4.51 | -0.029 | -0.01 | | B8V | |
| 110882 | 22 | 28 | 53.8 | +4 | 47 | 56.7 | 337.224051 | +4.799072 | 4.78 | 1.039 | 1.07 | | K0III | |
| 110960 | 22 | 29 | 53.2 | +0 | 5 | 7.9 | 337.471636 | +0.085541 | 3.65 | 0.406 | 0.50 | | F3III-IV | |
| 110991 | 22 | 29 | 56.2 | +58 | 31 | 14.0 | 337.484078 | +58.520560 | 4.07 | 0.778 | 0.81 | | G2Ibvar | |
| 110997 | 22 | 30 | 29.2 | -43 | 23 | 24.7 | 337.621632 | -43.390184 | 3.97 | 1.022 | 0.98 | | G6/G8III | |
| 111022 | 22 | 30 | 23.3 | +47 | 48 | 44.2 | 337.597108 | +47.812287 | 4.34 | 1.679 | 1.90 | | M0II | |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 111043 | 22 | 30 | 58.4 | -43 | 38 | 37.4 | 337.743387 | -43.643717 | 4.12 | 1.570 | 2.49 | M4.5IIIa |
| 111104 | 22 | 31 | 22.6 | +43 | 13 | 44.2 | 337.843962 | +43.228948 | 4.52 | -0.086 | -0.09 | B2IV |
| 111123 | 22 | 31 | 43.8 | -10 | 34 | 20.8 | 337.932465 | -10.572444 | 4.82 | -0.053 | -0.04 | A0IVs |
| 111169 | 22 | 32 | 8.4 | +50 | 23 | 18.0 | 338.035036 | +50.388338 | 3.76 | 0.031 | 0.05 | A1V |
| 111188 | 22 | 32 | 39.9 | -32 | 14 | 25.3 | 338.166392 | -32.240357 | 4.29 | 0.011 | 0.03 | A1V |
| 111310 | 22 | 34 | 22.1 | -61 | 52 | 34.0 | 338.592071 | -61.876118 | 4.91 | 1.612 | 2.50 | M4III |
| 111497 | 22 | 36 | 24.5 | -0 | 0 | 40.7 | 339.102255 | -0.011296 | 4.04 | -0.083 | -0.07 | B9IV-Vn |
| 111674 | 22 | 38 | 13.2 | +51 | 39 | 5.0 | 339.555044 | +51.651400 | 4.64 | 0.254 | 0.28 | A8IV |
| 111841 | 22 | 40 | 11.1 | +39 | 9 | 26.7 | 340.046131 | +39.157422 | 4.89 | -0.207 | -0.23 | O9V |
| 111944 | 22 | 41 | 25.0 | +44 | 23 | 1.5 | 340.354259 | +44.383756 | 4.50 | 1.318 | 1.25 | K3III |
| 111954 | 22 | 41 | 47.1 | -26 | 56 | 10.3 | 340.446271 | -26.936184 | 4.18 | -0.105 | -0.07 | B8V |
| 112029 | 22 | 42 | 29.1 | +10 | 56 | 19.9 | 340.621245 | +10.938867 | 3.41 | -0.086 | -0.06 | B8.5V |
| 112051 | 22 | 42 | 43.3 | +29 | 24 | 54.5 | 340.680454 | +29.415138 | 4.80 | -0.013 | 0.02 | A1IV |
| 112122 | 22 | 43 | 52.9 | -46 | 46 | 36.6 | 340.970578 | -46.776823 | 2.07 | 1.610 | 2.60 | M5III |
| 112158 | 22 | 43 | 58.0 | +30 | 19 | 44.1 | 340.991459 | +30.328913 | 2.93 | 0.852 | 0.87 | G2II-III.. |
| 112203 | 22 | 44 | 40.9 | -41 | 18 | 25.0 | 341.170280 | -41.306958 | 4.84 | 1.027 | 1.01 | K0III |
| 112211 | 22 | 44 | 41.2 | -18 | 43 | 21.4 | 341.171860 | -18.722612 | 4.68 | 1.358 | 1.35 | K3III |
| 112374 | 22 | 46 | 52.7 | -53 | 23 | 30.4 | 341.719432 | -53.391768 | 4.84 | 1.180 | 1.21 | K2IIICNIV |
| 112405 | 22 | 48 | 2.2 | -81 | 16 | 23.6 | 342.009337 | -81.273230 | 4.13 | 0.208 | 0.24 | A9IV/V |
| 112440 | 22 | 47 | 31.2 | +23 | 40 | 26.3 | 341.880183 | +23.673973 | 3.97 | 1.070 | 0.99 | G8II-III |
| 112447 | 22 | 47 | 43.1 | +12 | 16 | 42.8 | 341.929488 | +12.278560 | 4.20 | 0.502 | 0.60 | F7V |
| 112519 | 22 | 47 | 20.7 | +83 | 15 | 45.1 | 341.836437 | +83.262531 | 4.77 | 1.257 | 1.25 | K3III |
| 112623 | 22 | 49 | 46.9 | -51 | 12 | 30.7 | 342.445602 | -51.208523 | 3.49 | 0.083 | 0.10 | A3V |
| 112716 | 22 | 50 | 40.5 | -13 | 29 | 2.4 | 342.668733 | -13.483996 | 4.05 | 1.570 | 1.72 | K5III |
| 112724 | 22 | 50 | 24.9 | +66 | 18 | 30.8 | 342.603843 | +66.308554 | 3.50 | 1.053 | 1.06 | K0III |
| 112748 | 22 | 50 | 59.7 | +24 | 42 | 36.9 | 342.748674 | +24.710245 | 3.51 | 0.933 | 0.89 | M2III |
| 112917 | 22 | 52 | 57.8 | +43 | 25 | 18.3 | 343.240658 | +43.421737 | 4.95 | 1.559 | 1.71 | M0III |
| 112948 | 22 | 53 | 39.6 | -32 | 45 | 58.8 | 343.414988 | -32.766342 | 4.46 | -0.037 | -0.01 | A0III |
| 112961 | 22 | 53 | 41.0 | -7 | 28 | 12.4 | 343.420725 | -7.470124 | 3.73 | 1.626 | 2.07 | M2IIIvar |
| 113116 | 22 | 54 | 10.3 | +84 | 27 | 20.8 | 343.543112 | +84.455767 | 4.70 | 1.418 | 1.38 | K4III |
| 113136 | 22 | 55 | 44.1 | -15 | 42 | 41.0 | 343.933918 | -15.711377 | 3.27 | 0.066 | 0.08 | A3V |
| 113186 | 22 | 56 | 15.6 | +8 | 55 | 33.5 | 344.065133 | +8.925985 | 4.91 | -0.003 | 0.00 | A1V |
| 113246 | 22 | 57 | 4.7 | -32 | 25 | 46.9 | 344.269653 | -32.429697 | 4.20 | 0.952 | 0.96 | G8III |
| 113288 | 22 | 57 | 20.2 | +49 | 50 | 36.0 | 344.334258 | +49.843342 | 4.99 | 1.778 | 1.87 | K5Ibvar |
| 113368 | 22 | 58 | 46.7 | -29 | 30 | 47.4 | 344.694670 | -29.513156 | 1.17 | 0.145 | 0.16 | A3V |
| 113638 | 23 | 2 | 4.8 | -52 | 38 | 37.7 | 345.519914 | -52.643795 | 4.11 | 0.960 | 1.01 | G8III |
| 113726 | 23 | 2 | 52.1 | +42 | 26 | 11.4 | 345.717171 | +42.436508 | 3.62 | -0.099 | -0.05 | B6pv SB |
| 113881 | 23 | 4 | 46.2 | +28 | 11 | 39.5 | 346.192694 | +28.194310 | 2.44 | 1.655 | 2.31 | M2II-IIIvar |
| 113889 | 23 | 4 | 55.2 | +3 | 55 | 50.7 | 346.230071 | +3.930761 | 4.48 | -0.115 | -0.09 | B6Ve |
| 113919 | 23 | 5 | 6.5 | +50 | 9 | 49.8 | 346.277187 | +50.163821 | 4.64 | 1.058 | 1.02 | K0III |
| 113963 | 23 | 5 | 47.0 | +15 | 18 | 57.3 | 346.445844 | +15.315903 | 2.49 | -0.002 | 0.00 | B9.5III |
| 114104 | 23 | 7 | 29.2 | +59 | 31 | 51.0 | 346.871798 | +59.530830 | 4.84 | -0.060 | -0.02 | B0.5IV |
| 114119 | 23 | 7 | 46.7 | -23 | 37 | 55.2 | 346.944609 | -23.632011 | 4.48 | 0.892 | 0.92 | G8III |
| 114131 | 23 | 8 | 1.6 | -43 | 24 | 33.5 | 347.006548 | -43.409309 | 4.28 | 0.423 | 0.44 | F5me... |
| 114144 | 23 | 8 | 2.3 | +9 | 31 | 14.0 | 347.009434 | +9.520555 | 4.54 | 1.559 | 1.79 | M2III |
| 114155 | 23 | 8 | 6.8 | +25 | 34 | 45.2 | 347.028368 | +25.579219 | 4.76 | 1.285 | 1.30 | K0IIp |
| 114222 | 23 | 8 | 33.3 | +75 | 29 | 54.7 | 347.138716 | +75.498515 | 4.41 | 0.802 | 0.84 | G2III |
| 114341 | 23 | 10 | 32.2 | -21 | 3 | 39.0 | 347.634159 | -21.060828 | 3.68 | 1.202 | 1.16 | K1III |
| 114375 | 23 | 11 | 0.4 | -22 | 20 | 46.3 | 347.751683 | -22.346197 | 4.71 | 0.674 | 0.75 | A3IV: |
| 114421 | 23 | 11 | 30.7 | -45 | 8 | 7.3 | 347.877820 | -45.135349 | 3.88 | 0.998 | 0.95 | K0III SB |
| 114570 | 23 | 13 | 29.7 | +49 | 31 | 6.5 | 348.373755 | +49.518463 | 4.53 | 0.302 | 0.35 | F0V |
| 114724 | 23 | 15 | 23.0 | -5 | 56 | 17.5 | 348.845900 | -5.938185 | 4.22 | 1.545 | 1.89 | M2III |
| 114855 | 23 | 16 | 57.8 | -8 | 58 | 32.8 | 349.241027 | -8.975774 | 4.24 | 1.107 | 1.06 | K0III |
| 114939 | 23 | 17 | 54.6 | -7 | 36 | 52.0 | 349.477616 | -7.614444 | 4.93 | 1.613 | 2.56 | M3III |
| 114971 | 23 | 18 | 13.7 | +3 | 23 | 40.4 | 349.557049 | +3.394564 | 3.70 | 0.916 | 0.97 | G7III |
| 114996 | 23 | 18 | 36.8 | -58 | 7 | 23.1 | 349.653146 | -58.123088 | 3.99 | 0.410 | 0.50 | F1III |
| 115022 | 23 | 18 | 42.0 | +49 | 7 | 39.2 | 349.675097 | +49.127560 | 4.82 | 1.668 | 2.14 | M2III |
| 115033 | 23 | 18 | 58.1 | -9 | 4 | 13.2 | 349.741945 | -9.070325 | 4.41 | -0.144 | -0.14 | B5Vn |
| 115088 | 23 | 19 | 28.6 | +68 | 13 | 25.7 | 349.869052 | +68.223802 | 4.75 | 0.836 | 0.86 | K0III |

Posiciones medias de estrellas brillantes, 2020

| Estrella | α | | | δ | | | α | δ | V | U-V | B-V | Espectro |
|----------|----------|----|------|----------|----|------|------------|------------|------|--------|-------|-------------|
| | NH | h | m | s | ° | ' | | | | | | |
| 115102 | 23 | 19 | 55.6 | -32 | 25 | 12.5 | 349.981569 | -32.420138 | 4.41 | 1.109 | 1.08 | K1III |
| 115115 | 23 | 20 | 1.6 | -9 | 29 | 54.4 | 350.006572 | -9.498458 | 4.99 | -0.022 | 0.00 | A0V |
| 115250 | 23 | 21 | 39.3 | +23 | 51 | 9.9 | 350.413671 | +23.852763 | 4.58 | 0.180 | 0.23 | A5V |
| 115438 | 23 | 24 | 2.7 | -19 | 59 | 18.4 | 351.011133 | -19.988448 | 3.96 | 1.082 | 1.10 | K0III |
| 115590 | 23 | 25 | 45.4 | +62 | 23 | 43.9 | 351.439367 | +62.395540 | 4.96 | 1.676 | 1.94 | M1III |
| 115623 | 23 | 26 | 24.3 | +23 | 31 | 1.8 | 351.601392 | +23.517156 | 4.42 | 0.617 | 0.67 | F8IV |
| 115669 | 23 | 27 | 7.2 | -20 | 31 | 46.1 | 351.780169 | -20.529462 | 4.38 | 1.460 | 1.52 | K4III |
| 115738 | 23 | 27 | 59.0 | +1 | 22 | 5.0 | 351.995884 | +1.368048 | 4.95 | 0.036 | 0.01 | A0p |
| 115830 | 23 | 29 | 0.5 | +6 | 29 | 30.4 | 352.252238 | +6.491788 | 4.27 | 1.062 | 1.03 | K1III |
| 115919 | 23 | 30 | 11.6 | +12 | 52 | 25.7 | 352.548279 | +12.873809 | 4.54 | 0.939 | 0.93 | G8III |
| 115990 | 23 | 30 | 59.3 | +58 | 39 | 43.6 | 352.746923 | +58.662113 | 4.89 | -0.122 | -0.11 | B3IV |
| 116231 | 23 | 34 | 3.9 | -37 | 42 | 16.9 | 353.516246 | -37.704707 | 4.38 | -0.095 | -0.09 | B9.5IVMNpe. |
| 116247 | 23 | 34 | 20.8 | -20 | 48 | 3.9 | 353.586838 | -20.801087 | 4.70 | 0.020 | 0.03 | A0V |
| 116310 | 23 | 34 | 58.4 | +31 | 26 | 18.9 | 353.743501 | +31.438580 | 4.97 | 1.383 | 1.36 | K4III |
| 116389 | 23 | 36 | 10.3 | -42 | 30 | 5.6 | 354.043088 | -42.501547 | 4.69 | 0.078 | 0.10 | A2V |
| 116584 | 23 | 38 | 34.4 | +46 | 34 | 9.8 | 354.643434 | +46.569402 | 3.81 | 0.984 | 0.96 | G8III-IV |
| 116602 | 23 | 38 | 56.8 | -45 | 22 | 43.7 | 354.736577 | -45.378813 | 4.74 | 0.082 | 0.08 | A2V |
| 116631 | 23 | 39 | 8.9 | +43 | 22 | 54.1 | 354.787001 | +43.381684 | 4.29 | -0.083 | -0.06 | B8V |
| 116727 | 23 | 40 | 12.5 | +77 | 44 | 47.9 | 355.052156 | +77.746652 | 3.21 | 1.031 | 0.99 | K1IV |
| 116758 | 23 | 40 | 50.8 | -14 | 6 | 31.7 | 355.211515 | -14.108794 | 4.97 | 0.257 | 0.29 | A7IV |
| 116771 | 23 | 41 | 0.3 | +5 | 44 | 15.2 | 355.251437 | +5.737563 | 4.13 | 0.507 | 0.59 | F7V |
| 116805 | 23 | 41 | 25.5 | +44 | 26 | 51.2 | 355.356091 | +44.447544 | 4.15 | -0.071 | -0.06 | B9IVn |
| 116901 | 23 | 42 | 49.5 | -17 | 42 | 9.9 | 355.706391 | -17.702760 | 4.82 | 0.822 | 0.81 | G2Ib/II |
| 116928 | 23 | 43 | 5.6 | +1 | 53 | 34.7 | 355.773326 | +1.892964 | 4.49 | 0.200 | 0.22 | A7V |
| 116971 | 23 | 43 | 47.0 | -14 | 25 | 53.3 | 355.945949 | -14.431467 | 4.49 | -0.032 | -0.04 | B9V |
| 117073 | 23 | 45 | 1.6 | +29 | 28 | 30.3 | 356.256599 | +29.475080 | 4.93 | 0.935 | 0.93 | K0III |
| 117221 | 23 | 47 | 3.4 | +46 | 32 | 3.0 | 356.764184 | +46.534157 | 4.97 | 1.086 | 1.05 | G5Ib |
| 117245 | 23 | 47 | 26.4 | +3 | 36 | 2.2 | 356.860019 | +3.600599 | 4.95 | 2.508 | 2.57 | C5II |
| 117301 | 23 | 48 | 4.2 | +58 | 45 | 58.5 | 357.017495 | +58.766249 | 4.88 | 1.122 | 1.08 | K1III |
| 117452 | 23 | 49 | 59.4 | -28 | 1 | 0.7 | 357.497501 | -28.016853 | 4.59 | 0.001 | -0.01 | A0V |
| 117863 | 23 | 55 | 25.1 | +57 | 36 | 48.4 | 358.854561 | +57.613448 | 4.51 | 1.190 | 1.15 | F8Iavar |
| 118121 | 23 | 58 | 38.8 | -64 | 11 | 4.1 | 359.661738 | -64.184461 | 5.00 | 0.060 | 0.07 | A1V |
| 118131 | 23 | 58 | 48.4 | +25 | 15 | 19.2 | 359.701701 | +25.255332 | 4.63 | 1.584 | 2.21 | M3III |
| 118209 | 23 | 59 | 43.3 | -3 | 26 | 32.2 | 359.930581 | -3.442273 | 4.88 | 0.930 | 0.92 | G9III |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 950 | | | | | | 1599 | | | | | |
|------|----|----------|------------|-----------|-------|------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 5.24 | | | F3/5V | | | 4.23 | | | F9V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 0.21209 | 0.19529 | -35.02680 | 17.52 | ene | 1 | 0.35128 | 0.33447 | -64.76468 | 17.66 |
| ene | 8 | 0.21205 | 0.19523 | -35.02684 | 17.06 | ene | 8 | 0.35119 | 0.33437 | -64.76458 | 17.20 |
| ene | 15 | 0.21203 | 0.19519 | -35.02675 | 16.60 | ene | 15 | 0.35113 | 0.33429 | -64.76433 | 16.74 |
| ene | 22 | 0.21200 | 0.19514 | -35.02667 | 16.14 | ene | 22 | 0.35105 | 0.33419 | -64.76406 | 16.28 |
| ene | 29 | 0.21198 | 0.19510 | -35.02651 | 15.68 | ene | 29 | 0.35100 | 0.33412 | -64.76369 | 15.82 |
| feb | 5 | 0.21195 | 0.19506 | -35.02633 | 15.22 | feb | 5 | 0.35093 | 0.33404 | -64.76330 | 15.36 |
| feb | 12 | 0.21194 | 0.19503 | -35.02606 | 14.76 | feb | 12 | 0.35089 | 0.33398 | -64.76279 | 14.90 |
| feb | 19 | 0.21192 | 0.19499 | -35.02576 | 14.30 | feb | 19 | 0.35085 | 0.33392 | -64.76225 | 14.44 |
| feb | 26 | 0.21191 | 0.19497 | -35.02543 | 13.84 | feb | 26 | 0.35082 | 0.33388 | -64.76167 | 13.98 |
| mar | 4 | 0.21190 | 0.19495 | -35.02507 | 13.38 | mar | 4 | 0.35079 | 0.33383 | -64.76106 | 13.52 |
| mar | 11 | 0.21191 | 0.19494 | -35.02465 | 12.92 | mar | 11 | 0.35078 | 0.33382 | -64.76039 | 13.06 |
| mar | 18 | 0.21191 | 0.19493 | -35.02418 | 12.46 | mar | 18 | 0.35077 | 0.33379 | -64.75968 | 12.60 |
| mar | 25 | 0.21192 | 0.19493 | -35.02373 | 12.00 | mar | 25 | 0.35078 | 0.33380 | -64.75900 | 12.14 |
| abr | 1 | 0.21193 | 0.19494 | -35.02323 | 11.54 | abr | 1 | 0.35079 | 0.33380 | -64.75828 | 11.68 |
| abr | 8 | 0.21196 | 0.19495 | -35.02271 | 11.08 | abr | 8 | 0.35083 | 0.33382 | -64.75756 | 11.22 |
| abr | 15 | 0.21199 | 0.19496 | -35.02214 | 10.62 | abr | 15 | 0.35087 | 0.33384 | -64.75681 | 10.76 |
| abr | 22 | 0.21202 | 0.19499 | -35.02163 | 10.16 | abr | 22 | 0.35092 | 0.33389 | -64.75614 | 10.30 |
| abr | 29 | 0.21206 | 0.19501 | -35.02106 | 9.70 | abr | 29 | 0.35098 | 0.33393 | -64.75543 | 9.84 |
| may | 6 | 0.21210 | 0.19504 | -35.02054 | 9.24 | may | 6 | 0.35105 | 0.33399 | -64.75479 | 9.38 |
| may | 13 | 0.21216 | 0.19508 | -35.01995 | 8.78 | may | 13 | 0.35113 | 0.33405 | -64.75411 | 8.92 |
| may | 20 | 0.21221 | 0.19512 | -35.01947 | 8.32 | may | 20 | 0.35122 | 0.33412 | -64.75357 | 8.46 |
| may | 27 | 0.21228 | 0.19516 | -35.01893 | 7.86 | may | 27 | 0.35132 | 0.33420 | -64.75299 | 8.00 |
| jun | 3 | 0.21234 | 0.19520 | -35.01848 | 7.40 | jun | 3 | 0.35142 | 0.33429 | -64.75253 | 7.54 |
| jun | 10 | 0.21242 | 0.19525 | -35.01797 | 6.94 | jun | 10 | 0.35154 | 0.33437 | -64.75204 | 7.08 |
| jun | 17 | 0.21248 | 0.19530 | -35.01761 | 6.48 | jun | 17 | 0.35165 | 0.33447 | -64.75172 | 6.62 |
| jun | 24 | 0.21255 | 0.19535 | -35.01719 | 6.02 | jun | 24 | 0.35177 | 0.33456 | -64.75137 | 6.16 |
| jul | 1 | 0.21262 | 0.19540 | -35.01691 | 5.56 | jul | 1 | 0.35189 | 0.33467 | -64.75118 | 5.70 |
| jul | 8 | 0.21270 | 0.19545 | -35.01657 | 5.10 | jul | 8 | 0.35201 | 0.33476 | -64.75096 | 5.24 |
| jul | 15 | 0.21276 | 0.19550 | -35.01640 | 4.64 | jul | 15 | 0.35212 | 0.33486 | -64.75093 | 4.78 |
| jul | 22 | 0.21283 | 0.19555 | -35.01619 | 4.18 | jul | 22 | 0.35224 | 0.33495 | -64.75087 | 4.32 |
| jul | 29 | 0.21289 | 0.19559 | -35.01612 | 3.72 | jul | 29 | 0.35234 | 0.33505 | -64.75098 | 3.86 |
| ago | 5 | 0.21296 | 0.19563 | -35.01602 | 3.26 | ago | 5 | 0.35246 | 0.33513 | -64.75107 | 3.40 |
| ago | 12 | 0.21300 | 0.19567 | -35.01609 | 2.80 | ago | 12 | 0.35254 | 0.33521 | -64.75134 | 2.94 |
| ago | 19 | 0.21306 | 0.19571 | -35.01610 | 2.34 | ago | 19 | 0.35264 | 0.33529 | -64.75157 | 2.48 |
| ago | 26 | 0.21310 | 0.19574 | -35.01626 | 1.88 | ago | 26 | 0.35271 | 0.33534 | -64.75195 | 2.02 |
| sep | 2 | 0.21314 | 0.19576 | -35.01640 | 1.42 | sep | 2 | 0.35278 | 0.33540 | -64.75231 | 1.56 |
| sep | 9 | 0.21316 | 0.19578 | -35.01667 | 0.96 | sep | 9 | 0.35282 | 0.33544 | -64.75282 | 1.10 |
| sep | 16 | 0.21319 | 0.19579 | -35.01689 | 0.50 | sep | 16 | 0.35288 | 0.33547 | -64.75326 | 0.64 |
| sep | 23 | 0.21321 | 0.19580 | -35.01722 | 0.04 | sep | 23 | 0.35289 | 0.33548 | -64.75381 | 0.18 |
| sep | 30 | 0.21322 | 0.19580 | -35.01753 | 23.58 | sep | 30 | 0.35292 | 0.33550 | -64.75433 | 23.72 |
| oct | 7 | 0.21322 | 0.19579 | -35.01793 | 23.12 | oct | 7 | 0.35291 | 0.33548 | -64.75492 | 23.26 |
| oct | 14 | 0.21323 | 0.19578 | -35.01826 | 22.66 | oct | 14 | 0.35291 | 0.33546 | -64.75544 | 22.80 |
| oct | 21 | 0.21322 | 0.19576 | -35.01865 | 22.20 | oct | 21 | 0.35288 | 0.33542 | -64.75600 | 22.34 |
| oct | 28 | 0.21321 | 0.19573 | -35.01901 | 21.74 | oct | 28 | 0.35286 | 0.33538 | -64.75651 | 21.88 |
| nov | 4 | 0.21319 | 0.19570 | -35.01940 | 21.28 | nov | 4 | 0.35281 | 0.33532 | -64.75703 | 21.42 |
| nov | 11 | 0.21317 | 0.19567 | -35.01972 | 20.82 | nov | 11 | 0.35277 | 0.33526 | -64.75745 | 20.96 |
| nov | 18 | 0.21315 | 0.19562 | -35.02004 | 20.36 | nov | 18 | 0.35270 | 0.33517 | -64.75784 | 20.50 |
| nov | 25 | 0.21312 | 0.19558 | -35.02033 | 19.90 | nov | 25 | 0.35264 | 0.33510 | -64.75817 | 20.04 |
| dic | 2 | 0.21309 | 0.19553 | -35.02060 | 19.44 | dic | 2 | 0.35256 | 0.33500 | -64.75845 | 19.58 |
| dic | 9 | 0.21307 | 0.19548 | -35.02080 | 18.98 | dic | 9 | 0.35250 | 0.33491 | -64.75863 | 19.12 |
| dic | 16 | 0.21304 | 0.19543 | -35.02095 | 18.52 | dic | 16 | 0.35242 | 0.33480 | -64.75873 | 18.66 |
| dic | 23 | 0.21301 | 0.19538 | -35.02108 | 18.06 | dic | 23 | 0.35234 | 0.33471 | -64.75878 | 18.20 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 2021 | | | | | | 3419 | | | | | |
|------|----|----------|------------|-----------|-------|------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 2.82 | | | G2IV | | | 2.04 | | | K0III | | |
| m | d | α | α_c | δ | Hp | m | d | α | α_c | δ | Hp |
| | | h | h | ° | h | | | h | h | ° | h |
| ene | 1 | 0.44579 | 0.42899 | -77.14942 | 17.75 | ene | 1 | 0.74293 | 0.72613 | -17.88120 | 18.05 |
| ene | 8 | 0.44562 | 0.42880 | -77.14928 | 17.29 | ene | 8 | 0.74290 | 0.72609 | -17.88134 | 17.59 |
| ene | 15 | 0.44548 | 0.42863 | -77.14898 | 16.83 | ene | 15 | 0.74289 | 0.72604 | -17.88137 | 17.13 |
| ene | 22 | 0.44531 | 0.42845 | -77.14866 | 16.37 | ene | 22 | 0.74286 | 0.72600 | -17.88142 | 16.67 |
| ene | 29 | 0.44519 | 0.42831 | -77.14823 | 15.91 | ene | 29 | 0.74284 | 0.72596 | -17.88141 | 16.21 |
| feb | 5 | 0.44505 | 0.42815 | -77.14778 | 15.45 | feb | 5 | 0.74281 | 0.72592 | -17.88140 | 15.75 |
| feb | 12 | 0.44495 | 0.42804 | -77.14721 | 14.99 | feb | 12 | 0.74280 | 0.72589 | -17.88130 | 15.29 |
| feb | 19 | 0.44484 | 0.42791 | -77.14661 | 14.53 | feb | 19 | 0.74278 | 0.72585 | -17.88119 | 14.83 |
| feb | 26 | 0.44478 | 0.42784 | -77.14598 | 14.07 | feb | 26 | 0.74276 | 0.72583 | -17.88105 | 14.37 |
| mar | 4 | 0.44470 | 0.42775 | -77.14531 | 13.61 | mar | 4 | 0.74275 | 0.72580 | -17.88088 | 13.91 |
| mar | 11 | 0.44468 | 0.42772 | -77.14459 | 13.15 | mar | 11 | 0.74275 | 0.72578 | -17.88065 | 13.45 |
| mar | 18 | 0.44464 | 0.42766 | -77.14384 | 12.69 | mar | 18 | 0.74275 | 0.72577 | -17.88038 | 12.99 |
| mar | 25 | 0.44465 | 0.42767 | -77.14312 | 12.23 | mar | 25 | 0.74275 | 0.72576 | -17.88011 | 12.53 |
| abr | 1 | 0.44466 | 0.42766 | -77.14236 | 11.77 | abr | 1 | 0.74276 | 0.72576 | -17.87979 | 12.07 |
| abr | 8 | 0.44471 | 0.42771 | -77.14162 | 11.31 | abr | 8 | 0.74277 | 0.72576 | -17.87944 | 11.61 |
| abr | 15 | 0.44476 | 0.42774 | -77.14084 | 10.85 | abr | 15 | 0.74279 | 0.72577 | -17.87903 | 11.15 |
| abr | 22 | 0.44485 | 0.42782 | -77.14015 | 10.39 | abr | 22 | 0.74281 | 0.72578 | -17.87865 | 10.69 |
| abr | 29 | 0.44494 | 0.42789 | -77.13944 | 9.93 | abr | 29 | 0.74285 | 0.72580 | -17.87821 | 10.23 |
| may | 6 | 0.44507 | 0.42801 | -77.13879 | 9.47 | may | 6 | 0.74288 | 0.72582 | -17.87778 | 9.77 |
| may | 13 | 0.44520 | 0.42811 | -77.13812 | 9.01 | may | 13 | 0.74293 | 0.72584 | -17.87728 | 9.31 |
| may | 20 | 0.44535 | 0.42826 | -77.13758 | 8.56 | may | 20 | 0.74297 | 0.72588 | -17.87686 | 8.85 |
| may | 27 | 0.44552 | 0.42839 | -77.13702 | 8.10 | may | 27 | 0.74303 | 0.72591 | -17.87636 | 8.39 |
| jun | 3 | 0.44570 | 0.42856 | -77.13659 | 7.64 | jun | 3 | 0.74308 | 0.72594 | -17.87593 | 7.93 |
| jun | 10 | 0.44589 | 0.42873 | -77.13613 | 7.18 | jun | 10 | 0.74315 | 0.72598 | -17.87542 | 7.47 |
| jun | 17 | 0.44609 | 0.42891 | -77.13584 | 6.72 | jun | 17 | 0.74320 | 0.72602 | -17.87502 | 7.01 |
| jun | 24 | 0.44630 | 0.42909 | -77.13553 | 6.26 | jun | 24 | 0.74327 | 0.72606 | -17.87455 | 6.55 |
| jul | 1 | 0.44650 | 0.42928 | -77.13539 | 5.80 | jul | 1 | 0.74333 | 0.72611 | -17.87419 | 6.09 |
| jul | 8 | 0.44672 | 0.42947 | -77.13522 | 5.34 | jul | 8 | 0.74340 | 0.72615 | -17.87377 | 5.63 |
| jul | 15 | 0.44692 | 0.42966 | -77.13524 | 4.88 | jul | 15 | 0.74345 | 0.72619 | -17.87349 | 5.17 |
| jul | 22 | 0.44713 | 0.42984 | -77.13523 | 4.42 | jul | 22 | 0.74352 | 0.72623 | -17.87314 | 4.71 |
| jul | 29 | 0.44732 | 0.43002 | -77.13541 | 3.96 | jul | 29 | 0.74357 | 0.72627 | -17.87293 | 4.25 |
| ago | 5 | 0.44752 | 0.43019 | -77.13555 | 3.50 | ago | 5 | 0.74364 | 0.72631 | -17.87267 | 3.79 |
| ago | 12 | 0.44768 | 0.43035 | -77.13588 | 3.04 | ago | 12 | 0.74368 | 0.72635 | -17.87256 | 3.33 |
| ago | 19 | 0.44784 | 0.43049 | -77.13617 | 2.58 | ago | 19 | 0.74374 | 0.72638 | -17.87239 | 2.87 |
| ago | 26 | 0.44797 | 0.43061 | -77.13662 | 2.12 | ago | 26 | 0.74377 | 0.72641 | -17.87237 | 2.41 |
| sep | 2 | 0.44810 | 0.43072 | -77.13704 | 1.66 | sep | 2 | 0.74382 | 0.72644 | -17.87231 | 1.95 |
| sep | 9 | 0.44819 | 0.43080 | -77.13760 | 1.20 | sep | 9 | 0.74384 | 0.72646 | -17.87239 | 1.49 |
| sep | 16 | 0.44827 | 0.43087 | -77.13809 | 0.74 | sep | 16 | 0.74388 | 0.72648 | -17.87241 | 1.03 |
| sep | 23 | 0.44831 | 0.43090 | -77.13870 | 0.28 | sep | 23 | 0.74390 | 0.72649 | -17.87256 | 0.57 |
| sep | 30 | 0.44835 | 0.43093 | -77.13926 | 23.82 | sep | 30 | 0.74392 | 0.72649 | -17.87268 | 0.11 |
| oct | 7 | 0.44833 | 0.43090 | -77.13990 | 23.36 | oct | 7 | 0.74392 | 0.72649 | -17.87291 | 23.65 |
| oct | 14 | 0.44833 | 0.43088 | -77.14046 | 22.90 | oct | 14 | 0.74394 | 0.72649 | -17.87308 | 23.19 |
| oct | 21 | 0.44826 | 0.43080 | -77.14105 | 22.44 | oct | 21 | 0.74394 | 0.72648 | -17.87333 | 22.73 |
| oct | 28 | 0.44821 | 0.43073 | -77.14158 | 21.98 | oct | 28 | 0.74394 | 0.72646 | -17.87356 | 22.27 |
| nov | 4 | 0.44810 | 0.43061 | -77.14212 | 21.52 | nov | 4 | 0.74393 | 0.72644 | -17.87385 | 21.81 |
| nov | 11 | 0.44801 | 0.43050 | -77.14255 | 21.06 | nov | 11 | 0.74392 | 0.72642 | -17.87408 | 21.35 |
| nov | 18 | 0.44786 | 0.43033 | -77.14295 | 20.60 | nov | 18 | 0.74391 | 0.72638 | -17.87434 | 20.89 |
| nov | 25 | 0.44774 | 0.43019 | -77.14327 | 20.14 | nov | 25 | 0.74390 | 0.72635 | -17.87458 | 20.43 |
| dic | 2 | 0.44757 | 0.43000 | -77.14354 | 19.68 | dic | 2 | 0.74388 | 0.72631 | -17.87483 | 19.97 |
| dic | 9 | 0.44743 | 0.42984 | -77.14370 | 19.22 | dic | 9 | 0.74386 | 0.72627 | -17.87503 | 19.51 |
| dic | 16 | 0.44725 | 0.42963 | -77.14378 | 18.76 | dic | 16 | 0.74384 | 0.72623 | -17.87521 | 19.05 |
| dic | 23 | 0.44709 | 0.42946 | -77.14380 | 18.30 | dic | 23 | 0.74382 | 0.72619 | -17.87539 | 18.59 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 3909 | | | | | | 5364 | | | | | |
|-------------|----|---------|----------------|-----------|-------|-------------|----|---------|----------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 5.17 | | | F7IV-V | | | 3.46 | | | K2III | | |
| | | α | α _c | δ | Hp | | | α | α _c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 0.85188 | 0.83507 | -10.54032 | 18.16 | ene | 1 | 1.15971 | 1.14291 | -10.08002 | 18.47 |
| ene | 8 | 0.85185 | 0.83503 | -10.54048 | 17.70 | ene | 8 | 1.15968 | 1.14286 | -10.08019 | 18.01 |
| ene | 15 | 0.85183 | 0.83499 | -10.54054 | 17.24 | ene | 15 | 1.15966 | 1.14282 | -10.08025 | 17.55 |
| ene | 22 | 0.85180 | 0.83494 | -10.54063 | 16.78 | ene | 22 | 1.15964 | 1.14277 | -10.08036 | 17.09 |
| ene | 29 | 0.85178 | 0.83490 | -10.54066 | 16.32 | ene | 29 | 1.15961 | 1.14273 | -10.08040 | 16.63 |
| feb | 5 | 0.85176 | 0.83486 | -10.54072 | 15.86 | feb | 5 | 1.15959 | 1.14269 | -10.08046 | 16.17 |
| feb | 12 | 0.85174 | 0.83483 | -10.54067 | 15.40 | feb | 12 | 1.15957 | 1.14266 | -10.08042 | 15.71 |
| feb | 19 | 0.85172 | 0.83480 | -10.54064 | 14.94 | feb | 19 | 1.15955 | 1.14262 | -10.08040 | 15.25 |
| feb | 26 | 0.85171 | 0.83477 | -10.54057 | 14.48 | feb | 26 | 1.15953 | 1.14259 | -10.08034 | 14.79 |
| mar | 4 | 0.85169 | 0.83474 | -10.54049 | 14.02 | mar | 4 | 1.15951 | 1.14256 | -10.08027 | 14.33 |
| mar | 11 | 0.85169 | 0.83473 | -10.54033 | 13.56 | mar | 11 | 1.15950 | 1.14254 | -10.08012 | 13.87 |
| mar | 18 | 0.85169 | 0.83471 | -10.54015 | 13.10 | mar | 18 | 1.15950 | 1.14252 | -10.07995 | 13.41 |
| mar | 25 | 0.85169 | 0.83470 | -10.53997 | 12.64 | mar | 25 | 1.15949 | 1.14251 | -10.07977 | 12.95 |
| abr | 1 | 0.85169 | 0.83470 | -10.53974 | 12.18 | abr | 1 | 1.15950 | 1.14250 | -10.07955 | 12.49 |
| abr | 8 | 0.85171 | 0.83470 | -10.53946 | 11.72 | abr | 8 | 1.15951 | 1.14250 | -10.07928 | 12.03 |
| abr | 15 | 0.85173 | 0.83470 | -10.53913 | 11.26 | abr | 15 | 1.15953 | 1.14250 | -10.07896 | 11.57 |
| abr | 22 | 0.85175 | 0.83472 | -10.53884 | 10.80 | abr | 22 | 1.15954 | 1.14251 | -10.07867 | 11.11 |
| abr | 29 | 0.85178 | 0.83473 | -10.53847 | 10.34 | abr | 29 | 1.15957 | 1.14252 | -10.07831 | 10.65 |
| may | 6 | 0.85181 | 0.83475 | -10.53810 | 9.88 | may | 6 | 1.15960 | 1.14254 | -10.07794 | 10.19 |
| may | 13 | 0.85186 | 0.83477 | -10.53766 | 9.42 | may | 13 | 1.15964 | 1.14256 | -10.07751 | 9.73 |
| may | 20 | 0.85190 | 0.83480 | -10.53729 | 8.96 | may | 20 | 1.15968 | 1.14258 | -10.07714 | 9.27 |
| may | 27 | 0.85196 | 0.83483 | -10.53683 | 8.50 | may | 27 | 1.15973 | 1.14261 | -10.07668 | 8.81 |
| jun | 3 | 0.85200 | 0.83487 | -10.53643 | 8.04 | jun | 3 | 1.15978 | 1.14264 | -10.07627 | 8.35 |
| jun | 10 | 0.85207 | 0.83490 | -10.53594 | 7.58 | jun | 10 | 1.15984 | 1.14268 | -10.07579 | 7.89 |
| jun | 17 | 0.85212 | 0.83494 | -10.53557 | 7.12 | jun | 17 | 1.15989 | 1.14272 | -10.07540 | 7.43 |
| jun | 24 | 0.85219 | 0.83498 | -10.53510 | 6.66 | jun | 24 | 1.15996 | 1.14275 | -10.07494 | 6.97 |
| jul | 1 | 0.85224 | 0.83502 | -10.53474 | 6.20 | jul | 1 | 1.16002 | 1.14280 | -10.07456 | 6.51 |
| jul | 8 | 0.85231 | 0.83507 | -10.53430 | 5.74 | jul | 8 | 1.16009 | 1.14284 | -10.07411 | 6.05 |
| jul | 15 | 0.85237 | 0.83511 | -10.53400 | 5.28 | jul | 15 | 1.16014 | 1.14288 | -10.07380 | 5.59 |
| jul | 22 | 0.85243 | 0.83515 | -10.53361 | 4.82 | jul | 22 | 1.16021 | 1.14292 | -10.07340 | 5.13 |
| jul | 29 | 0.85249 | 0.83519 | -10.53336 | 4.36 | jul | 29 | 1.16026 | 1.14296 | -10.07314 | 4.67 |
| ago | 5 | 0.85255 | 0.83522 | -10.53305 | 3.90 | ago | 5 | 1.16032 | 1.14300 | -10.07281 | 4.21 |
| ago | 12 | 0.85259 | 0.83526 | -10.53289 | 3.44 | ago | 12 | 1.16037 | 1.14304 | -10.07264 | 3.75 |
| ago | 19 | 0.85265 | 0.83529 | -10.53266 | 2.98 | ago | 19 | 1.16042 | 1.14307 | -10.07239 | 3.29 |
| ago | 26 | 0.85268 | 0.83532 | -10.53256 | 2.52 | ago | 26 | 1.16046 | 1.14310 | -10.07229 | 2.83 |
| sep | 2 | 0.85273 | 0.83535 | -10.53243 | 2.06 | sep | 2 | 1.16051 | 1.14313 | -10.07214 | 2.37 |
| sep | 9 | 0.85275 | 0.83537 | -10.53244 | 1.60 | sep | 9 | 1.16054 | 1.14316 | -10.07213 | 1.91 |
| sep | 16 | 0.85279 | 0.83538 | -10.53238 | 1.14 | sep | 16 | 1.16058 | 1.14318 | -10.07206 | 1.45 |
| sep | 23 | 0.85281 | 0.83540 | -10.53244 | 0.68 | sep | 23 | 1.16060 | 1.14319 | -10.07212 | 0.99 |
| sep | 30 | 0.85283 | 0.83540 | -10.53248 | 0.22 | sep | 30 | 1.16063 | 1.14320 | -10.07215 | 0.53 |
| oct | 7 | 0.85284 | 0.83540 | -10.53263 | 23.76 | oct | 7 | 1.16064 | 1.14321 | -10.07230 | 0.07 |
| oct | 14 | 0.85285 | 0.83540 | -10.53272 | 23.30 | oct | 14 | 1.16066 | 1.14321 | -10.07238 | 23.61 |
| oct | 21 | 0.85285 | 0.83539 | -10.53290 | 22.84 | oct | 21 | 1.16066 | 1.14320 | -10.07256 | 23.15 |
| oct | 28 | 0.85285 | 0.83538 | -10.53305 | 22.38 | oct | 28 | 1.16067 | 1.14319 | -10.07271 | 22.69 |
| nov | 4 | 0.85285 | 0.83536 | -10.53328 | 21.92 | nov | 4 | 1.16066 | 1.14318 | -10.07294 | 22.23 |
| nov | 11 | 0.85284 | 0.83534 | -10.53345 | 21.46 | nov | 11 | 1.16067 | 1.14316 | -10.07311 | 21.77 |
| nov | 18 | 0.85283 | 0.83531 | -10.53366 | 21.00 | nov | 18 | 1.16066 | 1.14313 | -10.07333 | 21.31 |
| nov | 25 | 0.85282 | 0.83527 | -10.53385 | 20.54 | nov | 25 | 1.16065 | 1.14310 | -10.07353 | 20.85 |
| dic | 2 | 0.85280 | 0.83524 | -10.53407 | 20.08 | dic | 2 | 1.16063 | 1.14307 | -10.07376 | 20.39 |
| dic | 9 | 0.85279 | 0.83520 | -10.53425 | 19.62 | dic | 9 | 1.16062 | 1.14303 | -10.07394 | 19.93 |
| dic | 16 | 0.85277 | 0.83516 | -10.53441 | 19.16 | dic | 16 | 1.16061 | 1.14299 | -10.07412 | 19.47 |
| dic | 23 | 0.85275 | 0.83512 | -10.53458 | 18.70 | dic | 23 | 1.16058 | 1.14295 | -10.07429 | 19.01 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 6537 | | | | | | 7884 | | | | | |
|-------------|----|---------|----------------|----------|-------|-------------|----|---------|----------------|---------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.60 | | | K0III | | | 4.45 | | | K3III | | |
| | | α | α _c | δ | Hp | | | α | α _c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 1.41686 | 1.40006 | -8.08364 | 18.73 | ene | 1 | 1.70773 | 1.69093 | 5.58641 | 19.02 |
| ene | 8 | 1.41683 | 1.40001 | -8.08383 | 18.27 | ene | 8 | 1.70771 | 1.69089 | 5.58624 | 18.56 |
| ene | 15 | 1.41682 | 1.39997 | -8.08389 | 17.81 | ene | 15 | 1.70769 | 1.69085 | 5.58617 | 18.10 |
| ene | 22 | 1.41679 | 1.39993 | -8.08402 | 17.35 | ene | 22 | 1.70766 | 1.69080 | 5.58603 | 17.64 |
| ene | 29 | 1.41677 | 1.39988 | -8.08407 | 16.89 | ene | 29 | 1.70764 | 1.69076 | 5.58594 | 17.18 |
| feb | 5 | 1.41674 | 1.39984 | -8.08415 | 16.43 | feb | 5 | 1.70761 | 1.69071 | 5.58579 | 16.72 |
| feb | 12 | 1.41672 | 1.39980 | -8.08413 | 15.97 | feb | 12 | 1.70759 | 1.69067 | 5.58574 | 16.26 |
| feb | 19 | 1.41670 | 1.39977 | -8.08413 | 15.51 | feb | 19 | 1.70756 | 1.69064 | 5.58564 | 15.80 |
| feb | 26 | 1.41667 | 1.39973 | -8.08409 | 15.05 | feb | 26 | 1.70754 | 1.69060 | 5.58558 | 15.34 |
| mar | 4 | 1.41665 | 1.39970 | -8.08404 | 14.59 | mar | 4 | 1.70752 | 1.69057 | 5.58550 | 14.88 |
| mar | 11 | 1.41664 | 1.39968 | -8.08391 | 14.13 | mar | 11 | 1.70750 | 1.69054 | 5.58550 | 14.42 |
| mar | 18 | 1.41664 | 1.39966 | -8.08377 | 13.67 | mar | 18 | 1.70750 | 1.69052 | 5.58549 | 13.96 |
| mar | 25 | 1.41663 | 1.39964 | -8.08362 | 13.21 | mar | 25 | 1.70748 | 1.69050 | 5.58550 | 13.50 |
| abr | 1 | 1.41663 | 1.39963 | -8.08343 | 12.75 | abr | 1 | 1.70748 | 1.69048 | 5.58552 | 13.04 |
| abr | 8 | 1.41663 | 1.39963 | -8.08318 | 12.29 | abr | 8 | 1.70748 | 1.69048 | 5.58561 | 12.58 |
| abr | 15 | 1.41665 | 1.39962 | -8.08289 | 11.83 | abr | 15 | 1.70750 | 1.69047 | 5.58571 | 12.12 |
| abr | 22 | 1.41666 | 1.39963 | -8.08262 | 11.37 | abr | 22 | 1.70750 | 1.69047 | 5.58584 | 11.66 |
| abr | 29 | 1.41669 | 1.39964 | -8.08229 | 10.91 | abr | 29 | 1.70753 | 1.69048 | 5.58602 | 11.20 |
| may | 6 | 1.41671 | 1.39965 | -8.08194 | 10.45 | may | 6 | 1.70755 | 1.69049 | 5.58622 | 10.74 |
| may | 13 | 1.41676 | 1.39967 | -8.08152 | 9.99 | may | 13 | 1.70759 | 1.69051 | 5.58649 | 10.28 |
| may | 20 | 1.41679 | 1.39969 | -8.08116 | 9.53 | may | 20 | 1.70762 | 1.69053 | 5.58672 | 9.82 |
| may | 27 | 1.41684 | 1.39972 | -8.08073 | 9.07 | may | 27 | 1.70767 | 1.69055 | 5.58703 | 9.36 |
| jun | 3 | 1.41689 | 1.39975 | -8.08033 | 8.61 | jun | 3 | 1.70772 | 1.69058 | 5.58733 | 8.90 |
| jun | 10 | 1.41695 | 1.39978 | -8.07985 | 8.15 | jun | 10 | 1.70778 | 1.69061 | 5.58772 | 8.44 |
| jun | 17 | 1.41700 | 1.39982 | -8.07947 | 7.69 | jun | 17 | 1.70782 | 1.69065 | 5.58803 | 7.98 |
| jun | 24 | 1.41706 | 1.39985 | -8.07901 | 7.23 | jun | 24 | 1.70789 | 1.69068 | 5.58843 | 7.52 |
| jul | 1 | 1.41712 | 1.39990 | -8.07863 | 6.77 | jul | 1 | 1.70794 | 1.69072 | 5.58877 | 7.06 |
| jul | 8 | 1.41718 | 1.39994 | -8.07818 | 6.31 | jul | 8 | 1.70801 | 1.69076 | 5.58920 | 6.60 |
| jul | 15 | 1.41724 | 1.39998 | -8.07785 | 5.85 | jul | 15 | 1.70807 | 1.69080 | 5.58952 | 6.14 |
| jul | 22 | 1.41731 | 1.40002 | -8.07745 | 5.39 | jul | 22 | 1.70813 | 1.69085 | 5.58994 | 5.68 |
| jul | 29 | 1.41736 | 1.40006 | -8.07717 | 4.93 | jul | 29 | 1.70819 | 1.69089 | 5.59026 | 5.22 |
| ago | 5 | 1.41742 | 1.40010 | -8.07683 | 4.47 | ago | 5 | 1.70825 | 1.69093 | 5.59065 | 4.76 |
| ago | 12 | 1.41747 | 1.40014 | -8.07663 | 4.01 | ago | 12 | 1.70830 | 1.69097 | 5.59091 | 4.30 |
| ago | 19 | 1.41753 | 1.40017 | -8.07637 | 3.55 | ago | 19 | 1.70836 | 1.69101 | 5.59127 | 3.84 |
| ago | 26 | 1.41757 | 1.40021 | -8.07624 | 3.09 | ago | 26 | 1.70840 | 1.69104 | 5.59150 | 3.38 |
| sep | 2 | 1.41762 | 1.40024 | -8.07607 | 2.63 | sep | 2 | 1.70845 | 1.69107 | 5.59178 | 2.92 |
| sep | 9 | 1.41765 | 1.40026 | -8.07604 | 2.17 | sep | 9 | 1.70849 | 1.69110 | 5.59194 | 2.46 |
| sep | 16 | 1.41769 | 1.40029 | -8.07595 | 1.71 | sep | 16 | 1.70853 | 1.69113 | 5.59217 | 2.00 |
| sep | 23 | 1.41771 | 1.40030 | -8.07598 | 1.25 | sep | 23 | 1.70856 | 1.69115 | 5.59228 | 1.54 |
| sep | 30 | 1.41774 | 1.40032 | -8.07599 | 0.79 | sep | 30 | 1.70859 | 1.69117 | 5.59243 | 1.08 |
| oct | 7 | 1.41776 | 1.40033 | -8.07611 | 0.33 | oct | 7 | 1.70861 | 1.69118 | 5.59246 | 0.62 |
| oct | 14 | 1.41778 | 1.40033 | -8.07617 | 23.87 | oct | 14 | 1.70863 | 1.69119 | 5.59256 | 0.16 |
| oct | 21 | 1.41779 | 1.40033 | -8.07633 | 23.41 | oct | 21 | 1.70865 | 1.69119 | 5.59255 | 23.70 |
| oct | 28 | 1.41780 | 1.40032 | -8.07647 | 22.95 | oct | 28 | 1.70866 | 1.69119 | 5.59258 | 23.24 |
| nov | 4 | 1.41780 | 1.40031 | -8.07669 | 22.49 | nov | 4 | 1.70867 | 1.69118 | 5.59251 | 22.78 |
| nov | 11 | 1.41780 | 1.40029 | -8.07684 | 22.03 | nov | 11 | 1.70867 | 1.69117 | 5.59251 | 22.32 |
| nov | 18 | 1.41780 | 1.40027 | -8.07705 | 21.57 | nov | 18 | 1.70867 | 1.69115 | 5.59243 | 21.86 |
| nov | 25 | 1.41779 | 1.40024 | -8.07724 | 21.11 | nov | 25 | 1.70867 | 1.69112 | 5.59236 | 21.40 |
| dic | 2 | 1.41777 | 1.40021 | -8.07747 | 20.65 | dic | 2 | 1.70866 | 1.69109 | 5.59224 | 20.94 |
| dic | 9 | 1.41776 | 1.40018 | -8.07764 | 20.19 | dic | 9 | 1.70865 | 1.69107 | 5.59217 | 20.48 |
| dic | 16 | 1.41775 | 1.40014 | -8.07783 | 19.73 | dic | 16 | 1.70864 | 1.69103 | 5.59206 | 20.02 |
| dic | 23 | 1.41773 | 1.40010 | -8.07800 | 19.27 | dic | 23 | 1.70862 | 1.69099 | 5.59195 | 19.56 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 8102 | | | | | | 10320 | | | | | |
|------|----|----------|------------|-----------|-------|-------|----|----------|------------|-----------|-------|
| | | V | | Sp | | | | V | | Sp | |
| | | 3.49 | | G8V | | | | 5.27 | | AOV | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 1.74979 | 1.73299 | -15.83657 | 19.06 | ene | 1 | 2.22973 | 2.21292 | -30.63560 | 19.54 |
| ene | 8 | 1.74976 | 1.73295 | -15.83677 | 18.60 | ene | 8 | 2.22969 | 2.21287 | -30.63586 | 19.08 |
| ene | 15 | 1.74974 | 1.73290 | -15.83683 | 18.14 | ene | 15 | 2.22967 | 2.21282 | -30.63596 | 18.62 |
| ene | 22 | 1.74972 | 1.73285 | -15.83694 | 17.68 | ene | 22 | 2.22963 | 2.21277 | -30.63609 | 18.16 |
| ene | 29 | 1.74969 | 1.73281 | -15.83696 | 17.22 | ene | 29 | 2.22960 | 2.21272 | -30.63611 | 17.70 |
| feb | 5 | 1.74966 | 1.73276 | -15.83701 | 16.76 | feb | 5 | 2.22956 | 2.21266 | -30.63614 | 17.24 |
| feb | 12 | 1.74963 | 1.73272 | -15.83694 | 16.30 | feb | 12 | 2.22953 | 2.21262 | -30.63602 | 16.78 |
| feb | 19 | 1.74961 | 1.73268 | -15.83689 | 15.84 | feb | 19 | 2.22949 | 2.21257 | -30.63592 | 16.32 |
| feb | 26 | 1.74958 | 1.73264 | -15.83677 | 15.38 | feb | 26 | 2.22946 | 2.21252 | -30.63573 | 15.86 |
| mar | 4 | 1.74956 | 1.73261 | -15.83666 | 14.92 | mar | 4 | 2.22943 | 2.21248 | -30.63554 | 15.40 |
| mar | 11 | 1.74954 | 1.73258 | -15.83644 | 14.46 | mar | 11 | 2.22940 | 2.21244 | -30.63522 | 14.94 |
| mar | 18 | 1.74953 | 1.73255 | -15.83623 | 14.00 | mar | 18 | 2.22938 | 2.21240 | -30.63490 | 14.48 |
| mar | 25 | 1.74952 | 1.73253 | -15.83598 | 13.54 | mar | 25 | 2.22936 | 2.21238 | -30.63453 | 14.02 |
| abr | 1 | 1.74951 | 1.73252 | -15.83570 | 13.08 | abr | 1 | 2.22935 | 2.21235 | -30.63414 | 13.56 |
| abr | 8 | 1.74951 | 1.73251 | -15.83536 | 12.62 | abr | 8 | 2.22934 | 2.21233 | -30.63367 | 13.10 |
| abr | 15 | 1.74953 | 1.73250 | -15.83499 | 12.16 | abr | 15 | 2.22934 | 2.21232 | -30.63317 | 12.64 |
| abr | 22 | 1.74953 | 1.73250 | -15.83462 | 11.70 | abr | 22 | 2.22934 | 2.21231 | -30.63267 | 12.18 |
| abr | 29 | 1.74955 | 1.73250 | -15.83420 | 11.24 | abr | 29 | 2.22936 | 2.21231 | -30.63214 | 11.72 |
| may | 6 | 1.74958 | 1.73252 | -15.83377 | 10.78 | may | 6 | 2.22937 | 2.21231 | -30.63157 | 11.26 |
| may | 13 | 1.74962 | 1.73253 | -15.83328 | 10.32 | may | 13 | 2.22941 | 2.21232 | -30.63098 | 10.80 |
| may | 20 | 1.74965 | 1.73255 | -15.83285 | 9.86 | may | 20 | 2.22943 | 2.21234 | -30.63042 | 10.34 |
| may | 27 | 1.74969 | 1.73257 | -15.83235 | 9.40 | may | 27 | 2.22947 | 2.21235 | -30.62983 | 9.88 |
| jun | 3 | 1.74974 | 1.73260 | -15.83189 | 8.94 | jun | 3 | 2.22952 | 2.21238 | -30.62926 | 9.42 |
| jun | 10 | 1.74979 | 1.73263 | -15.83136 | 8.48 | jun | 10 | 2.22957 | 2.21241 | -30.62866 | 8.96 |
| jun | 17 | 1.74984 | 1.73266 | -15.83093 | 8.02 | jun | 17 | 2.22962 | 2.21244 | -30.62815 | 8.50 |
| jun | 24 | 1.74991 | 1.73270 | -15.83044 | 7.56 | jun | 24 | 2.22968 | 2.21248 | -30.62760 | 8.04 |
| jul | 1 | 1.74996 | 1.73274 | -15.83003 | 7.10 | jul | 1 | 2.22974 | 2.21252 | -30.62714 | 7.58 |
| jul | 8 | 1.75003 | 1.73278 | -15.82956 | 6.64 | jul | 8 | 2.22981 | 2.21256 | -30.62664 | 7.12 |
| jul | 15 | 1.75008 | 1.73282 | -15.82923 | 6.18 | jul | 15 | 2.22987 | 2.21260 | -30.62628 | 6.66 |
| jul | 22 | 1.75015 | 1.73286 | -15.82883 | 5.72 | jul | 22 | 2.22994 | 2.21265 | -30.62588 | 6.20 |
| jul | 29 | 1.75020 | 1.73291 | -15.82856 | 5.26 | jul | 29 | 2.23000 | 2.21270 | -30.62561 | 5.74 |
| ago | 5 | 1.75027 | 1.73295 | -15.82824 | 4.80 | ago | 5 | 2.23007 | 2.21275 | -30.62532 | 5.28 |
| ago | 12 | 1.75032 | 1.73299 | -15.82807 | 4.34 | ago | 12 | 2.23013 | 2.21279 | -30.62519 | 4.82 |
| ago | 19 | 1.75038 | 1.73302 | -15.82784 | 3.88 | ago | 19 | 2.23019 | 2.21284 | -30.62502 | 4.36 |
| ago | 26 | 1.75042 | 1.73306 | -15.82776 | 3.42 | ago | 26 | 2.23025 | 2.21288 | -30.62501 | 3.90 |
| sep | 2 | 1.75047 | 1.73309 | -15.82764 | 2.96 | sep | 2 | 2.23031 | 2.21293 | -30.62497 | 3.44 |
| sep | 9 | 1.75051 | 1.73312 | -15.82768 | 2.50 | sep | 9 | 2.23035 | 2.21296 | -30.62511 | 2.98 |
| sep | 16 | 1.75055 | 1.73315 | -15.82765 | 2.04 | sep | 16 | 2.23040 | 2.21300 | -30.62519 | 2.52 |
| sep | 23 | 1.75058 | 1.73317 | -15.82777 | 1.58 | sep | 23 | 2.23044 | 2.21303 | -30.62543 | 2.06 |
| sep | 30 | 1.75061 | 1.73319 | -15.82785 | 1.12 | sep | 30 | 2.23048 | 2.21306 | -30.62563 | 1.60 |
| oct | 7 | 1.75063 | 1.73320 | -15.82806 | 0.66 | oct | 7 | 2.23050 | 2.21307 | -30.62599 | 1.14 |
| oct | 14 | 1.75065 | 1.73320 | -15.82820 | 0.20 | oct | 14 | 2.23054 | 2.21309 | -30.62628 | 0.68 |
| oct | 21 | 1.75066 | 1.73320 | -15.82846 | 23.74 | oct | 21 | 2.23055 | 2.21309 | -30.62669 | 0.22 |
| oct | 28 | 1.75068 | 1.73320 | -15.82867 | 23.28 | oct | 28 | 2.23057 | 2.21310 | -30.62705 | 23.76 |
| nov | 4 | 1.75068 | 1.73319 | -15.82898 | 22.82 | nov | 4 | 2.23058 | 2.21309 | -30.62752 | 23.30 |
| nov | 11 | 1.75068 | 1.73317 | -15.82921 | 22.36 | nov | 11 | 2.23059 | 2.21308 | -30.62790 | 22.84 |
| nov | 18 | 1.75068 | 1.73315 | -15.82951 | 21.90 | nov | 18 | 2.23058 | 2.21306 | -30.62836 | 22.38 |
| nov | 25 | 1.75067 | 1.73312 | -15.82977 | 21.44 | nov | 25 | 2.23058 | 2.21303 | -30.62875 | 21.92 |
| dic | 2 | 1.75066 | 1.73309 | -15.83006 | 20.98 | dic | 2 | 2.23057 | 2.21300 | -30.62918 | 21.46 |
| dic | 9 | 1.75065 | 1.73306 | -15.83029 | 20.52 | dic | 9 | 2.23056 | 2.21297 | -30.62952 | 21.00 |
| dic | 16 | 1.75063 | 1.73302 | -15.83053 | 20.06 | dic | 16 | 2.23054 | 2.21293 | -30.62988 | 20.54 |
| dic | 23 | 1.75061 | 1.73298 | -15.83073 | 19.60 | dic | 23 | 2.23052 | 2.21289 | -30.63017 | 20.08 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 10670 | | | | | | 15510 | | | | | |
|-------|----|----------------|---------|----------|-------|-------|----|----------------|---------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 4.03 | | | A1Vnn | | | 4.26 | | | G8V | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 2.30839 | 2.29158 | 33.93948 | 19.62 | ene | 1 | 3.34556 | 3.32876 | -42.99917 | 20.65 |
| ene | 8 | 2.30836 | 2.29154 | 33.93946 | 19.16 | ene | 8 | 3.34552 | 3.32871 | -42.99956 | 20.19 |
| ene | 15 | 2.30833 | 2.29149 | 33.93951 | 18.70 | ene | 15 | 3.34549 | 3.32865 | -42.99977 | 19.73 |
| ene | 22 | 2.30830 | 2.29144 | 33.93943 | 18.24 | ene | 22 | 3.34545 | 3.32859 | -43.00003 | 19.27 |
| ene | 29 | 2.30826 | 2.29138 | 33.93938 | 17.78 | ene | 29 | 3.34541 | 3.32853 | -43.00013 | 18.81 |
| feb | 5 | 2.30823 | 2.29133 | 33.93921 | 17.32 | feb | 5 | 3.34536 | 3.32846 | -43.00025 | 18.35 |
| feb | 12 | 2.30819 | 2.29128 | 33.93911 | 16.86 | feb | 12 | 3.34532 | 3.32840 | -43.00020 | 17.89 |
| feb | 19 | 2.30816 | 2.29123 | 33.93891 | 16.40 | feb | 19 | 3.34527 | 3.32834 | -43.00017 | 17.43 |
| feb | 26 | 2.30812 | 2.29118 | 33.93872 | 15.94 | feb | 26 | 3.34522 | 3.32828 | -43.00001 | 16.97 |
| mar | 4 | 2.30809 | 2.29114 | 33.93846 | 15.48 | mar | 4 | 3.34517 | 3.32822 | -42.99986 | 16.51 |
| mar | 11 | 2.30806 | 2.29110 | 33.93826 | 15.02 | mar | 11 | 3.34513 | 3.32816 | -42.99954 | 16.05 |
| mar | 18 | 2.30804 | 2.29107 | 33.93801 | 14.56 | mar | 18 | 3.34509 | 3.32811 | -42.99925 | 15.59 |
| mar | 25 | 2.30802 | 2.29104 | 33.93776 | 14.10 | mar | 25 | 3.34505 | 3.32806 | -42.99885 | 15.13 |
| abr | 1 | 2.30801 | 2.29101 | 33.93748 | 13.64 | abr | 1 | 3.34501 | 3.32802 | -42.99845 | 14.67 |
| abr | 8 | 2.30800 | 2.29100 | 33.93728 | 13.18 | abr | 8 | 3.34499 | 3.32798 | -42.99793 | 14.21 |
| abr | 15 | 2.30801 | 2.29099 | 33.93707 | 12.72 | abr | 15 | 3.34497 | 3.32795 | -42.99742 | 13.75 |
| abr | 22 | 2.30801 | 2.29098 | 33.93686 | 12.26 | abr | 22 | 3.34495 | 3.32792 | -42.99685 | 13.29 |
| abr | 29 | 2.30803 | 2.29098 | 33.93668 | 11.80 | abr | 29 | 3.34495 | 3.32790 | -42.99628 | 12.83 |
| may | 6 | 2.30805 | 2.29099 | 33.93655 | 11.34 | may | 6 | 3.34495 | 3.32789 | -42.99563 | 12.37 |
| may | 13 | 2.30810 | 2.29101 | 33.93647 | 10.88 | may | 13 | 3.34496 | 3.32788 | -42.99498 | 11.91 |
| may | 20 | 2.30812 | 2.29103 | 33.93638 | 10.42 | may | 20 | 3.34498 | 3.32788 | -42.99433 | 11.45 |
| may | 27 | 2.30818 | 2.29105 | 33.93637 | 9.96 | may | 27 | 3.34500 | 3.32788 | -42.99367 | 10.99 |
| jun | 3 | 2.30822 | 2.29108 | 33.93638 | 9.50 | jun | 3 | 3.34504 | 3.32790 | -42.99300 | 10.53 |
| jun | 10 | 2.30829 | 2.29112 | 33.93648 | 9.04 | jun | 10 | 3.34508 | 3.32791 | -42.99233 | 10.07 |
| jun | 17 | 2.30834 | 2.29116 | 33.93655 | 8.58 | jun | 17 | 3.34512 | 3.32794 | -42.99171 | 9.61 |
| jun | 24 | 2.30841 | 2.29120 | 33.93672 | 8.12 | jun | 24 | 3.34518 | 3.32797 | -42.99108 | 9.16 |
| jul | 1 | 2.30847 | 2.29125 | 33.93688 | 7.66 | jul | 1 | 3.34523 | 3.32801 | -42.99052 | 8.70 |
| jul | 8 | 2.30855 | 2.29130 | 33.93715 | 7.20 | jul | 8 | 3.34530 | 3.32805 | -42.98994 | 8.24 |
| jul | 15 | 2.30861 | 2.29135 | 33.93736 | 6.74 | jul | 15 | 3.34536 | 3.32810 | -42.98948 | 7.78 |
| jul | 22 | 2.30869 | 2.29140 | 33.93769 | 6.28 | jul | 22 | 3.34543 | 3.32815 | -42.98900 | 7.32 |
| jul | 29 | 2.30875 | 2.29145 | 33.93796 | 5.82 | jul | 29 | 3.34550 | 3.32820 | -42.98865 | 6.86 |
| ago | 5 | 2.30883 | 2.29150 | 33.93835 | 5.36 | ago | 5 | 3.34558 | 3.32826 | -42.98829 | 6.40 |
| ago | 12 | 2.30888 | 2.29155 | 33.93865 | 4.90 | ago | 12 | 3.34565 | 3.32832 | -42.98809 | 5.94 |
| ago | 19 | 2.30896 | 2.29160 | 33.93907 | 4.44 | ago | 19 | 3.34572 | 3.32837 | -42.98787 | 5.48 |
| ago | 26 | 2.30901 | 2.29165 | 33.93941 | 3.98 | ago | 26 | 3.34579 | 3.32843 | -42.98782 | 5.02 |
| sep | 2 | 2.30907 | 2.29169 | 33.93985 | 3.52 | sep | 2 | 3.34587 | 3.32849 | -42.98775 | 4.56 |
| sep | 9 | 2.30912 | 2.29173 | 33.94017 | 3.06 | sep | 9 | 3.34593 | 3.32854 | -42.98787 | 4.10 |
| sep | 16 | 2.30918 | 2.29177 | 33.94062 | 2.60 | sep | 16 | 3.34599 | 3.32859 | -42.98795 | 3.64 |
| sep | 23 | 2.30922 | 2.29181 | 33.94096 | 2.14 | sep | 23 | 3.34605 | 3.32864 | -42.98820 | 3.18 |
| sep | 30 | 2.30926 | 2.29184 | 33.94138 | 1.68 | sep | 30 | 3.34611 | 3.32868 | -42.98843 | 2.72 |
| oct | 7 | 2.30929 | 2.29186 | 33.94169 | 1.22 | oct | 7 | 3.34615 | 3.32872 | -42.98883 | 2.26 |
| oct | 14 | 2.30933 | 2.29188 | 33.94210 | 0.76 | oct | 14 | 3.34620 | 3.32875 | -42.98918 | 1.80 |
| oct | 21 | 2.30936 | 2.29190 | 33.94240 | 0.30 | oct | 21 | 3.34624 | 3.32877 | -42.98968 | 1.34 |
| oct | 28 | 2.30938 | 2.29190 | 33.94276 | 23.84 | oct | 28 | 3.34627 | 3.32879 | -42.99012 | 0.88 |
| nov | 4 | 2.30939 | 2.29190 | 33.94301 | 23.38 | nov | 4 | 3.34629 | 3.32880 | -42.99070 | 0.42 |
| nov | 11 | 2.30941 | 2.29190 | 33.94334 | 22.92 | nov | 11 | 3.34631 | 3.32881 | -42.99119 | 23.96 |
| nov | 18 | 2.30942 | 2.29189 | 33.94358 | 22.46 | nov | 18 | 3.34633 | 3.32880 | -42.99178 | 23.50 |
| nov | 25 | 2.30942 | 2.29187 | 33.94383 | 22.00 | nov | 25 | 3.34633 | 3.32879 | -42.99229 | 23.04 |
| dic | 2 | 2.30941 | 2.29185 | 33.94400 | 21.54 | dic | 2 | 3.34633 | 3.32876 | -42.99288 | 22.58 |
| dic | 9 | 2.30941 | 2.29182 | 33.94421 | 21.08 | dic | 9 | 3.34632 | 3.32874 | -42.99334 | 22.12 |
| dic | 16 | 2.30940 | 2.29179 | 33.94434 | 20.62 | dic | 16 | 3.34631 | 3.32870 | -42.99386 | 21.66 |
| dic | 23 | 2.30938 | 2.29175 | 33.94447 | 20.16 | dic | 23 | 3.34629 | 3.32866 | -42.99428 | 21.20 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 17378 | | | | | | 23693 | | | | | |
|-------|----|----------|------------|----------|-------|-------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.52 | | | KOIV | | | 4.71 | | | F7V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 3.73682 | 3.72001 | -9.69941 | 21.05 | ene | 1 | 5.09815 | 5.08135 | -57.44895 | 22.41 |
| ene | 8 | 3.73680 | 3.71998 | -9.69969 | 20.59 | ene | 8 | 5.09812 | 5.08130 | -57.44956 | 21.95 |
| ene | 15 | 3.73679 | 3.71994 | -9.69984 | 20.13 | ene | 15 | 5.09808 | 5.08124 | -57.45001 | 21.49 |
| ene | 22 | 3.73676 | 3.71990 | -9.70006 | 19.67 | ene | 22 | 5.09803 | 5.08117 | -57.45052 | 21.03 |
| ene | 29 | 3.73674 | 3.71986 | -9.70017 | 19.21 | ene | 29 | 5.09798 | 5.08110 | -57.45087 | 20.57 |
| feb | 5 | 3.73670 | 3.71981 | -9.70033 | 18.75 | feb | 5 | 5.09791 | 5.08101 | -57.45125 | 20.11 |
| feb | 12 | 3.73668 | 3.71976 | -9.70035 | 18.29 | feb | 12 | 5.09784 | 5.08093 | -57.45144 | 19.65 |
| feb | 19 | 3.73665 | 3.71972 | -9.70044 | 17.83 | feb | 19 | 5.09777 | 5.08084 | -57.45168 | 19.19 |
| feb | 26 | 3.73661 | 3.71967 | -9.70042 | 17.37 | feb | 26 | 5.09769 | 5.08075 | -57.45175 | 18.73 |
| mar | 4 | 3.73658 | 3.71962 | -9.70044 | 16.91 | mar | 4 | 5.09761 | 5.08065 | -57.45183 | 18.27 |
| mar | 11 | 3.73654 | 3.71958 | -9.70033 | 16.45 | mar | 11 | 5.09753 | 5.08056 | -57.45173 | 17.81 |
| mar | 18 | 3.73652 | 3.71954 | -9.70026 | 15.99 | mar | 18 | 5.09745 | 5.08047 | -57.45166 | 17.35 |
| mar | 25 | 3.73649 | 3.71950 | -9.70011 | 15.53 | mar | 25 | 5.09737 | 5.08038 | -57.45144 | 16.89 |
| abr | 1 | 3.73646 | 3.71947 | -9.69998 | 15.07 | abr | 1 | 5.09729 | 5.08029 | -57.45123 | 16.43 |
| abr | 8 | 3.73644 | 3.71944 | -9.69974 | 14.61 | abr | 8 | 5.09722 | 5.08021 | -57.45085 | 15.97 |
| abr | 15 | 3.73643 | 3.71941 | -9.69952 | 14.15 | abr | 15 | 5.09716 | 5.08013 | -57.45050 | 15.51 |
| abr | 22 | 3.73642 | 3.71939 | -9.69924 | 13.69 | abr | 22 | 5.09710 | 5.08007 | -57.45003 | 15.05 |
| abr | 29 | 3.73642 | 3.71937 | -9.69897 | 13.23 | abr | 29 | 5.09705 | 5.08000 | -57.44957 | 14.59 |
| may | 6 | 3.73642 | 3.71936 | -9.69861 | 12.77 | may | 6 | 5.09700 | 5.07994 | -57.44898 | 14.13 |
| may | 13 | 3.73643 | 3.71935 | -9.69825 | 12.31 | may | 13 | 5.09697 | 5.07989 | -57.44842 | 13.67 |
| may | 20 | 3.73644 | 3.71934 | -9.69788 | 11.85 | may | 20 | 5.09695 | 5.07985 | -57.44778 | 13.21 |
| may | 27 | 3.73647 | 3.71935 | -9.69749 | 11.39 | may | 27 | 5.09693 | 5.07981 | -57.44715 | 12.75 |
| jun | 3 | 3.73649 | 3.71936 | -9.69706 | 10.93 | jun | 3 | 5.09693 | 5.07979 | -57.44645 | 12.29 |
| jun | 10 | 3.73653 | 3.71937 | -9.69661 | 10.47 | jun | 10 | 5.09694 | 5.07977 | -57.44577 | 11.83 |
| jun | 17 | 3.73656 | 3.71938 | -9.69620 | 10.01 | jun | 17 | 5.09695 | 5.07977 | -57.44508 | 11.37 |
| jun | 24 | 3.73661 | 3.71941 | -9.69575 | 9.55 | jun | 24 | 5.09698 | 5.07977 | -57.44439 | 10.91 |
| jul | 1 | 3.73665 | 3.71943 | -9.69532 | 9.09 | jul | 1 | 5.09701 | 5.07979 | -57.44371 | 10.45 |
| jul | 8 | 3.73671 | 3.71946 | -9.69486 | 8.63 | jul | 8 | 5.09706 | 5.07981 | -57.44305 | 9.99 |
| jul | 15 | 3.73676 | 3.71950 | -9.69449 | 8.17 | jul | 15 | 5.09710 | 5.07984 | -57.44243 | 9.53 |
| jul | 22 | 3.73682 | 3.71953 | -9.69407 | 7.71 | jul | 22 | 5.09717 | 5.07988 | -57.44184 | 9.07 |
| jul | 29 | 3.73687 | 3.71957 | -9.69373 | 7.25 | jul | 29 | 5.09723 | 5.07993 | -57.44131 | 8.61 |
| ago | 5 | 3.73694 | 3.71961 | -9.69336 | 6.79 | ago | 5 | 5.09731 | 5.07998 | -57.44080 | 8.15 |
| ago | 12 | 3.73699 | 3.71965 | -9.69311 | 6.33 | ago | 12 | 5.09738 | 5.08005 | -57.44041 | 7.69 |
| ago | 19 | 3.73705 | 3.71970 | -9.69281 | 5.87 | ago | 19 | 5.09746 | 5.08011 | -57.44003 | 7.23 |
| ago | 26 | 3.73710 | 3.71974 | -9.69264 | 5.41 | ago | 26 | 5.09755 | 5.08019 | -57.43979 | 6.77 |
| sep | 2 | 3.73716 | 3.71978 | -9.69243 | 4.95 | sep | 2 | 5.09764 | 5.08026 | -57.43956 | 6.31 |
| sep | 9 | 3.73721 | 3.71983 | -9.69237 | 4.49 | sep | 9 | 5.09772 | 5.08034 | -57.43949 | 5.85 |
| sep | 16 | 3.73727 | 3.71987 | -9.69225 | 4.03 | sep | 16 | 5.09781 | 5.08041 | -57.43943 | 5.39 |
| sep | 23 | 3.73732 | 3.71991 | -9.69228 | 3.57 | sep | 23 | 5.09790 | 5.08049 | -57.43954 | 4.93 |
| sep | 30 | 3.73737 | 3.71994 | -9.69227 | 3.11 | sep | 30 | 5.09798 | 5.08056 | -57.43965 | 4.47 |
| oct | 7 | 3.73740 | 3.71997 | -9.69242 | 2.65 | oct | 7 | 5.09806 | 5.08063 | -57.43994 | 4.01 |
| oct | 14 | 3.73745 | 3.72000 | -9.69249 | 2.19 | oct | 14 | 5.09814 | 5.08069 | -57.44021 | 3.55 |
| oct | 21 | 3.73749 | 3.72003 | -9.69270 | 1.73 | oct | 21 | 5.09821 | 5.08075 | -57.44066 | 3.09 |
| oct | 28 | 3.73752 | 3.72005 | -9.69286 | 1.27 | oct | 28 | 5.09828 | 5.08080 | -57.44107 | 2.63 |
| nov | 4 | 3.73755 | 3.72006 | -9.69316 | 0.81 | nov | 4 | 5.09833 | 5.08084 | -57.44166 | 2.17 |
| nov | 11 | 3.73758 | 3.72007 | -9.69336 | 0.35 | nov | 11 | 5.09839 | 5.08088 | -57.44217 | 1.71 |
| nov | 18 | 3.73760 | 3.72007 | -9.69368 | 23.89 | nov | 18 | 5.09843 | 5.08090 | -57.44284 | 1.25 |
| nov | 25 | 3.73761 | 3.72007 | -9.69393 | 23.43 | nov | 25 | 5.09846 | 5.08091 | -57.44344 | 0.79 |
| dic | 2 | 3.73762 | 3.72006 | -9.69427 | 22.97 | dic | 2 | 5.09848 | 5.08091 | -57.44415 | 0.33 |
| dic | 9 | 3.73763 | 3.72005 | -9.69451 | 22.51 | dic | 9 | 5.09849 | 5.08091 | -57.44476 | 23.87 |
| dic | 16 | 3.73764 | 3.72002 | -9.69483 | 22.05 | dic | 16 | 5.09850 | 5.08088 | -57.44547 | 23.41 |
| dic | 23 | 3.73763 | 3.72000 | -9.69507 | 21.59 | dic | 23 | 5.09849 | 5.08086 | -57.44606 | 22.95 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 27288 | | | | | | 27654 | | | | | | | | | | | |
|--------------|----|----------------|---------|-----------|-------|--------------|----|----------------|----------|-----------|-------|-----|----|---------|---------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | | | | | | | |
| 3.55 | | | A2Vann | | | 3.76 | | | G8III/IV | | | | | | | | |
| α | | α _c | | δ | | α | | α _c | | δ | | Hp | | | | | |
| m | d | h | h | ° | h | m | d | h | h | ° | h | m | d | h | | | |
| ene | 1 | 5.79785 | 5.78105 | -14.81714 | 23.11 | ene | 1 | 5.86987 | 5.85307 | -20.88002 | 23.18 | ene | 1 | 5.86987 | 5.85307 | -20.88002 | 23.18 |
| ene | 8 | 5.79785 | 5.78103 | -14.81757 | 22.65 | ene | 8 | 5.86987 | 5.85305 | -20.88050 | 22.72 | ene | 8 | 5.86987 | 5.85305 | -20.88050 | 22.72 |
| ene | 15 | 5.79785 | 5.78101 | -14.81787 | 22.19 | ene | 15 | 5.86988 | 5.85303 | -20.88087 | 22.26 | ene | 15 | 5.86988 | 5.85303 | -20.88087 | 22.26 |
| ene | 22 | 5.79785 | 5.78098 | -14.81825 | 21.73 | ene | 22 | 5.86987 | 5.85300 | -20.88130 | 21.80 | ene | 22 | 5.86987 | 5.85300 | -20.88130 | 21.80 |
| ene | 29 | 5.79783 | 5.78095 | -14.81849 | 21.27 | ene | 29 | 5.86985 | 5.85297 | -20.88160 | 21.34 | ene | 29 | 5.86985 | 5.85297 | -20.88160 | 21.34 |
| feb | 5 | 5.79781 | 5.78091 | -14.81879 | 20.81 | feb | 5 | 5.86983 | 5.85293 | -20.88195 | 20.88 | feb | 5 | 5.86983 | 5.85293 | -20.88195 | 20.88 |
| feb | 12 | 5.79779 | 5.78087 | -14.81895 | 20.35 | feb | 12 | 5.86980 | 5.85289 | -20.88215 | 20.42 | feb | 12 | 5.86980 | 5.85289 | -20.88215 | 20.42 |
| feb | 19 | 5.79776 | 5.78083 | -14.81918 | 19.89 | feb | 19 | 5.86977 | 5.85285 | -20.88241 | 19.96 | feb | 19 | 5.86977 | 5.85285 | -20.88241 | 19.96 |
| feb | 26 | 5.79772 | 5.78079 | -14.81926 | 19.43 | feb | 26 | 5.86974 | 5.85280 | -20.88253 | 19.50 | feb | 26 | 5.86974 | 5.85280 | -20.88253 | 19.50 |
| mar | 4 | 5.79769 | 5.78074 | -14.81940 | 18.97 | mar | 4 | 5.86970 | 5.85275 | -20.88269 | 19.04 | mar | 4 | 5.86970 | 5.85275 | -20.88269 | 19.04 |
| mar | 11 | 5.79765 | 5.78069 | -14.81939 | 18.51 | mar | 11 | 5.86966 | 5.85270 | -20.88270 | 18.58 | mar | 11 | 5.86966 | 5.85270 | -20.88270 | 18.58 |
| mar | 18 | 5.79762 | 5.78064 | -14.81944 | 18.05 | mar | 18 | 5.86962 | 5.85265 | -20.88276 | 18.12 | mar | 18 | 5.86962 | 5.85265 | -20.88276 | 18.12 |
| mar | 25 | 5.79758 | 5.78059 | -14.81936 | 17.59 | mar | 25 | 5.86958 | 5.85260 | -20.88268 | 17.66 | mar | 25 | 5.86958 | 5.85260 | -20.88268 | 17.66 |
| abr | 1 | 5.79754 | 5.78054 | -14.81933 | 17.13 | abr | 1 | 5.86954 | 5.85255 | -20.88265 | 17.20 | abr | 1 | 5.86954 | 5.85255 | -20.88265 | 17.20 |
| abr | 8 | 5.79750 | 5.78050 | -14.81915 | 16.67 | abr | 8 | 5.86950 | 5.85250 | -20.88246 | 16.74 | abr | 8 | 5.86950 | 5.85250 | -20.88246 | 16.74 |
| abr | 15 | 5.79748 | 5.78045 | -14.81903 | 16.21 | abr | 15 | 5.86948 | 5.85245 | -20.88233 | 16.28 | abr | 15 | 5.86948 | 5.85245 | -20.88233 | 16.28 |
| abr | 22 | 5.79744 | 5.78041 | -14.81879 | 15.75 | abr | 22 | 5.86944 | 5.85241 | -20.88207 | 15.82 | abr | 22 | 5.86944 | 5.85241 | -20.88207 | 15.82 |
| abr | 29 | 5.79742 | 5.78037 | -14.81860 | 15.29 | abr | 29 | 5.86942 | 5.85237 | -20.88185 | 15.36 | abr | 29 | 5.86942 | 5.85237 | -20.88185 | 15.36 |
| may | 6 | 5.79740 | 5.78034 | -14.81828 | 14.83 | may | 6 | 5.86939 | 5.85233 | -20.88150 | 14.90 | may | 6 | 5.86939 | 5.85233 | -20.88150 | 14.90 |
| may | 13 | 5.79740 | 5.78031 | -14.81800 | 14.37 | may | 13 | 5.86938 | 5.85230 | -20.88119 | 14.44 | may | 13 | 5.86938 | 5.85230 | -20.88119 | 14.44 |
| may | 20 | 5.79738 | 5.78028 | -14.81764 | 13.91 | may | 20 | 5.86937 | 5.85227 | -20.88079 | 13.98 | may | 20 | 5.86937 | 5.85227 | -20.88079 | 13.98 |
| may | 27 | 5.79738 | 5.78026 | -14.81730 | 13.45 | may | 27 | 5.86937 | 5.85225 | -20.88041 | 13.52 | may | 27 | 5.86937 | 5.85225 | -20.88041 | 13.52 |
| jun | 3 | 5.79738 | 5.78025 | -14.81688 | 12.99 | jun | 3 | 5.86936 | 5.85223 | -20.87995 | 13.06 | jun | 3 | 5.86936 | 5.85223 | -20.87995 | 13.06 |
| jun | 10 | 5.79740 | 5.78024 | -14.81649 | 12.53 | jun | 10 | 5.86938 | 5.85221 | -20.87951 | 12.60 | jun | 10 | 5.86938 | 5.85221 | -20.87951 | 12.60 |
| jun | 17 | 5.79741 | 5.78023 | -14.81606 | 12.07 | jun | 17 | 5.86939 | 5.85221 | -20.87903 | 12.14 | jun | 17 | 5.86939 | 5.85221 | -20.87903 | 12.14 |
| jun | 24 | 5.79744 | 5.78023 | -14.81564 | 11.61 | jun | 24 | 5.86941 | 5.85220 | -20.87856 | 11.68 | jun | 24 | 5.86941 | 5.85220 | -20.87856 | 11.68 |
| jul | 1 | 5.79746 | 5.78024 | -14.81519 | 11.15 | jul | 1 | 5.86943 | 5.85221 | -20.87807 | 11.22 | jul | 1 | 5.86943 | 5.85221 | -20.87807 | 11.22 |
| jul | 8 | 5.79749 | 5.78025 | -14.81475 | 10.69 | jul | 8 | 5.86947 | 5.85222 | -20.87758 | 10.76 | jul | 8 | 5.86947 | 5.85222 | -20.87758 | 10.76 |
| jul | 15 | 5.79752 | 5.78026 | -14.81432 | 10.23 | jul | 15 | 5.86949 | 5.85223 | -20.87711 | 10.30 | jul | 15 | 5.86949 | 5.85223 | -20.87711 | 10.30 |
| jul | 22 | 5.79757 | 5.78028 | -14.81391 | 9.77 | jul | 22 | 5.86954 | 5.85225 | -20.87665 | 9.84 | jul | 22 | 5.86954 | 5.85225 | -20.87665 | 9.84 |
| jul | 29 | 5.79761 | 5.78031 | -14.81352 | 9.31 | jul | 29 | 5.86958 | 5.85228 | -20.87623 | 9.38 | jul | 29 | 5.86958 | 5.85228 | -20.87623 | 9.38 |
| ago | 5 | 5.79766 | 5.78034 | -14.81313 | 8.85 | ago | 5 | 5.86963 | 5.85230 | -20.87581 | 8.92 | ago | 5 | 5.86963 | 5.85230 | -20.87581 | 8.92 |
| ago | 12 | 5.79770 | 5.78037 | -14.81282 | 8.39 | ago | 12 | 5.86967 | 5.85234 | -20.87546 | 8.46 | ago | 12 | 5.86967 | 5.85234 | -20.87546 | 8.46 |
| ago | 19 | 5.79776 | 5.78041 | -14.81250 | 7.93 | ago | 19 | 5.86973 | 5.85237 | -20.87512 | 8.00 | ago | 19 | 5.86973 | 5.85237 | -20.87512 | 8.00 |
| ago | 26 | 5.79781 | 5.78045 | -14.81228 | 7.47 | ago | 26 | 5.86978 | 5.85242 | -20.87487 | 7.54 | ago | 26 | 5.86978 | 5.85242 | -20.87487 | 7.54 |
| sep | 2 | 5.79787 | 5.78049 | -14.81204 | 7.01 | sep | 2 | 5.86984 | 5.85246 | -20.87462 | 7.08 | sep | 2 | 5.86984 | 5.85246 | -20.87462 | 7.08 |
| sep | 9 | 5.79792 | 5.78053 | -14.81193 | 6.55 | sep | 9 | 5.86989 | 5.85250 | -20.87449 | 6.62 | sep | 9 | 5.86989 | 5.85250 | -20.87449 | 6.62 |
| sep | 16 | 5.79798 | 5.78058 | -14.81180 | 6.09 | sep | 16 | 5.86995 | 5.85255 | -20.87436 | 6.16 | sep | 16 | 5.86995 | 5.85255 | -20.87436 | 6.16 |
| sep | 23 | 5.79803 | 5.78062 | -14.81181 | 5.63 | sep | 23 | 5.87001 | 5.85259 | -20.87437 | 5.70 | sep | 23 | 5.87001 | 5.85259 | -20.87437 | 5.70 |
| sep | 30 | 5.79809 | 5.78067 | -14.81179 | 5.17 | sep | 30 | 5.87007 | 5.85264 | -20.87436 | 5.24 | sep | 30 | 5.87007 | 5.85264 | -20.87436 | 5.24 |
| oct | 7 | 5.79814 | 5.78071 | -14.81192 | 4.71 | oct | 7 | 5.87012 | 5.85269 | -20.87450 | 4.78 | oct | 7 | 5.87012 | 5.85269 | -20.87450 | 4.78 |
| oct | 14 | 5.79820 | 5.78075 | -14.81201 | 4.25 | oct | 14 | 5.87018 | 5.85273 | -20.87462 | 4.32 | oct | 14 | 5.87018 | 5.85273 | -20.87462 | 4.32 |
| oct | 21 | 5.79826 | 5.78079 | -14.81226 | 3.79 | oct | 21 | 5.87023 | 5.85277 | -20.87489 | 3.86 | oct | 21 | 5.87023 | 5.85277 | -20.87489 | 3.86 |
| oct | 28 | 5.79831 | 5.78083 | -14.81246 | 3.33 | oct | 28 | 5.87029 | 5.85281 | -20.87512 | 3.40 | oct | 28 | 5.87029 | 5.85281 | -20.87512 | 3.40 |
| nov | 4 | 5.79835 | 5.78087 | -14.81280 | 2.87 | nov | 4 | 5.87033 | 5.85285 | -20.87550 | 2.94 | nov | 4 | 5.87033 | 5.85285 | -20.87550 | 2.94 |
| nov | 11 | 5.79840 | 5.78090 | -14.81308 | 2.41 | nov | 11 | 5.87039 | 5.85288 | -20.87583 | 2.48 | nov | 11 | 5.87039 | 5.85288 | -20.87583 | 2.48 |
| nov | 18 | 5.79845 | 5.78092 | -14.81351 | 1.95 | nov | 18 | 5.87043 | 5.85290 | -20.87630 | 2.02 | nov | 18 | 5.87043 | 5.85290 | -20.87630 | 2.02 |
| nov | 25 | 5.79849 | 5.78094 | -14.81384 | 1.49 | nov | 25 | 5.87047 | 5.85292 | -20.87669 | 1.56 | nov | 25 | 5.87047 | 5.85292 | -20.87669 | 1.56 |
| dic | 2 | 5.79852 | 5.78095 | -14.81431 | 1.03 | dic | 2 | 5.87050 | 5.85294 | -20.87721 | 1.10 | dic | 2 | 5.87050 | 5.85294 | -20.87721 | 1.10 |
| dic | 9 | 5.79855 | 5.78097 | -14.81467 | 0.57 | dic | 9 | 5.87054 | 5.85295 | -20.87763 | 0.64 | dic | 9 | 5.87054 | 5.85295 | -20.87763 | 0.64 |
| dic | 16 | 5.79858 | 5.78097 | -14.81515 | 0.11 | dic | 16 | 5.87056 | 5.85295 | -20.87817 | 0.18 | dic | 16 | 5.87056 | 5.85295 | -20.87817 | 0.18 |
| dic | 23 | 5.79860 | 5.78096 | -14.81551 | 23.65 | dic | 23 | 5.87058 | 5.85295 | -20.87860 | 23.72 | dic | 23 | 5.87058 | 5.85295 | -20.87860 | 23.72 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 28103 | | | | | | 29271 | | | | | |
|-------|----|----------|------------|-----------|-------|-------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.71 | | | F1V | | | 5.08 | | | G5V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 5.95542 | 5.93861 | -14.16656 | 23.26 | ene | 1 | 6.16235 | 6.14555 | -74.76028 | 23.47 |
| ene | 8 | 5.95542 | 5.93860 | -14.16698 | 22.80 | ene | 8 | 6.16231 | 6.14549 | -74.76097 | 23.01 |
| ene | 15 | 5.95542 | 5.93858 | -14.16729 | 22.34 | ene | 15 | 6.16223 | 6.14539 | -74.76155 | 22.55 |
| ene | 22 | 5.95542 | 5.93855 | -14.16767 | 21.88 | ene | 22 | 6.16214 | 6.14528 | -74.76219 | 22.09 |
| ene | 29 | 5.95540 | 5.93852 | -14.16791 | 21.42 | ene | 29 | 6.16203 | 6.14515 | -74.76268 | 21.63 |
| feb | 5 | 5.95538 | 5.93849 | -14.16822 | 20.96 | feb | 5 | 6.16191 | 6.14501 | -74.76321 | 21.17 |
| feb | 12 | 5.95536 | 5.93845 | -14.16838 | 20.50 | feb | 12 | 6.16177 | 6.14485 | -74.76358 | 20.71 |
| feb | 19 | 5.95533 | 5.93841 | -14.16862 | 20.04 | feb | 19 | 6.16161 | 6.14468 | -74.76399 | 20.25 |
| feb | 26 | 5.95530 | 5.93836 | -14.16871 | 19.58 | feb | 26 | 6.16145 | 6.14451 | -74.76423 | 19.79 |
| mar | 4 | 5.95526 | 5.93831 | -14.16886 | 19.12 | mar | 4 | 6.16128 | 6.14432 | -74.76450 | 19.33 |
| mar | 11 | 5.95523 | 5.93827 | -14.16885 | 18.66 | mar | 11 | 6.16110 | 6.14414 | -74.76458 | 18.87 |
| mar | 18 | 5.95520 | 5.93822 | -14.16891 | 18.20 | mar | 18 | 6.16092 | 6.14394 | -74.76471 | 18.41 |
| mar | 25 | 5.95515 | 5.93817 | -14.16884 | 17.74 | mar | 25 | 6.16074 | 6.14375 | -74.76466 | 17.95 |
| abr | 1 | 5.95512 | 5.93812 | -14.16882 | 17.28 | abr | 1 | 6.16056 | 6.14356 | -74.76463 | 17.49 |
| abr | 8 | 5.95508 | 5.93808 | -14.16865 | 16.82 | abr | 8 | 6.16038 | 6.14338 | -74.76443 | 17.03 |
| abr | 15 | 5.95506 | 5.93803 | -14.16854 | 16.36 | abr | 15 | 6.16021 | 6.14318 | -74.76426 | 16.57 |
| abr | 22 | 5.95502 | 5.93799 | -14.16832 | 15.90 | abr | 22 | 6.16005 | 6.14302 | -74.76393 | 16.11 |
| abr | 29 | 5.95500 | 5.93795 | -14.16814 | 15.44 | abr | 29 | 6.15990 | 6.14285 | -74.76363 | 15.65 |
| may | 6 | 5.95498 | 5.93791 | -14.16782 | 14.98 | may | 6 | 6.15976 | 6.14270 | -74.76317 | 15.19 |
| may | 13 | 5.95497 | 5.93788 | -14.16756 | 14.52 | may | 13 | 6.15963 | 6.14255 | -74.76274 | 14.73 |
| may | 20 | 5.95495 | 5.93786 | -14.16721 | 14.06 | may | 20 | 6.15953 | 6.14243 | -74.76220 | 14.27 |
| may | 27 | 5.95495 | 5.93783 | -14.16689 | 13.60 | may | 27 | 6.15943 | 6.14231 | -74.76168 | 13.81 |
| jun | 3 | 5.95495 | 5.93782 | -14.16648 | 13.14 | jun | 3 | 6.15936 | 6.14222 | -74.76104 | 13.35 |
| jun | 10 | 5.95497 | 5.93780 | -14.16610 | 12.68 | jun | 10 | 6.15930 | 6.14213 | -74.76044 | 12.89 |
| jun | 17 | 5.95497 | 5.93780 | -14.16568 | 12.22 | jun | 17 | 6.15927 | 6.14209 | -74.75977 | 12.43 |
| jun | 24 | 5.95500 | 5.93779 | -14.16527 | 11.76 | jun | 24 | 6.15924 | 6.14204 | -74.75913 | 11.97 |
| jul | 1 | 5.95502 | 5.93780 | -14.16483 | 11.30 | jul | 1 | 6.15925 | 6.14203 | -74.75844 | 11.51 |
| jul | 8 | 5.95506 | 5.93781 | -14.16440 | 10.84 | jul | 8 | 6.15926 | 6.14201 | -74.75777 | 11.05 |
| jul | 15 | 5.95508 | 5.93782 | -14.16398 | 10.39 | jul | 15 | 6.15931 | 6.14205 | -74.75711 | 10.59 |
| jul | 22 | 5.95513 | 5.93784 | -14.16357 | 9.93 | jul | 22 | 6.15936 | 6.14207 | -74.75648 | 10.13 |
| jul | 29 | 5.95516 | 5.93786 | -14.16319 | 9.47 | jul | 29 | 6.15944 | 6.14214 | -74.75588 | 9.67 |
| ago | 5 | 5.95521 | 5.93789 | -14.16281 | 9.01 | ago | 5 | 6.15953 | 6.14221 | -74.75530 | 9.21 |
| ago | 12 | 5.95525 | 5.93792 | -14.16249 | 8.55 | ago | 12 | 6.15965 | 6.14231 | -74.75480 | 8.75 |
| ago | 19 | 5.95531 | 5.93796 | -14.16218 | 8.09 | ago | 19 | 6.15976 | 6.14241 | -74.75432 | 8.29 |
| ago | 26 | 5.95536 | 5.93800 | -14.16195 | 7.63 | ago | 26 | 6.15990 | 6.14254 | -74.75395 | 7.83 |
| sep | 2 | 5.95542 | 5.93804 | -14.16172 | 7.17 | sep | 2 | 6.16005 | 6.14267 | -74.75360 | 7.37 |
| sep | 9 | 5.95547 | 5.93808 | -14.16160 | 6.71 | sep | 9 | 6.16021 | 6.14282 | -74.75338 | 6.91 |
| sep | 16 | 5.95553 | 5.93813 | -14.16147 | 6.25 | sep | 16 | 6.16036 | 6.14296 | -74.75319 | 6.45 |
| sep | 23 | 5.95558 | 5.93817 | -14.16147 | 5.79 | sep | 23 | 6.16053 | 6.14312 | -74.75316 | 5.99 |
| sep | 30 | 5.95564 | 5.93822 | -14.16145 | 5.33 | sep | 30 | 6.16069 | 6.14327 | -74.75313 | 5.53 |
| oct | 7 | 5.95569 | 5.93826 | -14.16157 | 4.87 | oct | 7 | 6.16086 | 6.14343 | -74.75328 | 5.07 |
| oct | 14 | 5.95575 | 5.93831 | -14.16166 | 4.41 | oct | 14 | 6.16102 | 6.14357 | -74.75343 | 4.61 |
| oct | 21 | 5.95581 | 5.93835 | -14.16191 | 3.95 | oct | 21 | 6.16117 | 6.14371 | -74.75377 | 4.15 |
| oct | 28 | 5.95586 | 5.93839 | -14.16209 | 3.49 | oct | 28 | 6.16132 | 6.14384 | -74.75408 | 3.69 |
| nov | 4 | 5.95591 | 5.93842 | -14.16244 | 3.03 | nov | 4 | 6.16145 | 6.14396 | -74.75457 | 3.23 |
| nov | 11 | 5.95596 | 5.93845 | -14.16271 | 2.57 | nov | 11 | 6.16157 | 6.14406 | -74.75502 | 2.77 |
| nov | 18 | 5.95601 | 5.93848 | -14.16313 | 2.11 | nov | 18 | 6.16167 | 6.14414 | -74.75564 | 2.31 |
| nov | 25 | 5.95605 | 5.93850 | -14.16346 | 1.65 | nov | 25 | 6.16175 | 6.14421 | -74.75620 | 1.85 |
| dic | 2 | 5.95608 | 5.93851 | -14.16392 | 1.19 | dic | 2 | 6.16182 | 6.14425 | -74.75690 | 1.39 |
| dic | 9 | 5.95611 | 5.93853 | -14.16428 | 0.73 | dic | 9 | 6.16186 | 6.14427 | -74.75752 | 0.93 |
| dic | 16 | 5.95614 | 5.93853 | -14.16476 | 0.27 | dic | 16 | 6.16188 | 6.14426 | -74.75827 | 0.47 |
| dic | 23 | 5.95616 | 5.93853 | -14.16512 | 23.81 | dic | 23 | 6.16188 | 6.14425 | -74.75891 | 0.01 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 32361 | | | | | | 34834 | | | | | |
|--------------|----|----------|------------|----------|-------|--------------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 8.81 | | | A5 | | | 4.49 | | | FOIV | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 6.77974 | 6.76294 | 46.84191 | 0.09 | ene | 1 | 7.21926 | 7.20245 | -46.79303 | 0.53 |
| ene | 8 | 6.77976 | 6.76294 | 46.84217 | 23.63 | ene | 8 | 7.21927 | 7.20245 | -46.79374 | 0.07 |
| ene | 15 | 6.77979 | 6.76294 | 46.84252 | 23.17 | ene | 15 | 7.21928 | 7.20243 | -46.79435 | 23.61 |
| ene | 22 | 6.77979 | 6.76293 | 46.84278 | 22.71 | ene | 22 | 7.21927 | 7.20241 | -46.79504 | 23.15 |
| ene | 29 | 6.77979 | 6.76291 | 46.84314 | 22.25 | ene | 29 | 7.21926 | 7.20238 | -46.79559 | 22.69 |
| feb | 5 | 6.77978 | 6.76288 | 46.84340 | 21.79 | feb | 5 | 7.21924 | 7.20234 | -46.79620 | 22.23 |
| feb | 12 | 6.77976 | 6.76285 | 46.84374 | 21.33 | feb | 12 | 7.21921 | 7.20230 | -46.79666 | 21.77 |
| feb | 19 | 6.77974 | 6.76281 | 46.84395 | 20.87 | feb | 19 | 7.21918 | 7.20225 | -46.79718 | 21.31 |
| feb | 26 | 6.77970 | 6.76276 | 46.84425 | 20.41 | feb | 26 | 7.21913 | 7.20219 | -46.79754 | 20.85 |
| mar | 4 | 6.77966 | 6.76270 | 46.84440 | 19.95 | mar | 4 | 7.21908 | 7.20213 | -46.79793 | 20.39 |
| mar | 11 | 6.77961 | 6.76265 | 46.84463 | 19.49 | mar | 11 | 7.21903 | 7.20206 | -46.79815 | 19.93 |
| mar | 18 | 6.77957 | 6.76259 | 46.84471 | 19.03 | mar | 18 | 7.21897 | 7.20200 | -46.79843 | 19.47 |
| mar | 25 | 6.77951 | 6.76253 | 46.84486 | 18.57 | mar | 25 | 7.21891 | 7.20193 | -46.79853 | 19.01 |
| abr | 1 | 6.77946 | 6.76247 | 46.84486 | 18.11 | abr | 1 | 7.21885 | 7.20186 | -46.79866 | 18.55 |
| abr | 8 | 6.77941 | 6.76241 | 46.84492 | 17.65 | abr | 8 | 7.21879 | 7.20179 | -46.79861 | 18.09 |
| abr | 15 | 6.77937 | 6.76235 | 46.84484 | 17.19 | abr | 15 | 7.21874 | 7.20171 | -46.79861 | 17.63 |
| abr | 22 | 6.77932 | 6.76229 | 46.84481 | 16.73 | abr | 22 | 7.21868 | 7.20165 | -46.79844 | 17.17 |
| abr | 29 | 6.77929 | 6.76224 | 46.84465 | 16.27 | abr | 29 | 7.21863 | 7.20158 | -46.79830 | 16.71 |
| may | 6 | 6.77925 | 6.76219 | 46.84456 | 15.81 | may | 6 | 7.21857 | 7.20151 | -46.79799 | 16.25 |
| may | 13 | 6.77924 | 6.76215 | 46.84434 | 15.35 | may | 13 | 7.21854 | 7.20145 | -46.79773 | 15.79 |
| may | 20 | 6.77920 | 6.76211 | 46.84418 | 14.89 | may | 20 | 7.21849 | 7.20139 | -46.79732 | 15.33 |
| may | 27 | 6.77920 | 6.76208 | 46.84391 | 14.43 | may | 27 | 7.21846 | 7.20134 | -46.79694 | 14.87 |
| jun | 3 | 6.77919 | 6.76205 | 46.84372 | 13.97 | jun | 3 | 7.21843 | 7.20129 | -46.79643 | 14.41 |
| jun | 10 | 6.77920 | 6.76204 | 46.84344 | 13.51 | jun | 10 | 7.21841 | 7.20125 | -46.79596 | 13.95 |
| jun | 17 | 6.77920 | 6.76202 | 46.84320 | 13.05 | jun | 17 | 7.21839 | 7.20122 | -46.79538 | 13.49 |
| jun | 24 | 6.77923 | 6.76202 | 46.84291 | 12.59 | jun | 24 | 7.21839 | 7.20119 | -46.79484 | 13.03 |
| jul | 1 | 6.77925 | 6.76203 | 46.84266 | 12.13 | jul | 1 | 7.21839 | 7.20117 | -46.79421 | 12.57 |
| jul | 8 | 6.77929 | 6.76204 | 46.84239 | 11.67 | jul | 8 | 7.21840 | 7.20115 | -46.79362 | 12.11 |
| jul | 15 | 6.77932 | 6.76206 | 46.84214 | 11.21 | jul | 15 | 7.21841 | 7.20115 | -46.79299 | 11.65 |
| jul | 22 | 6.77938 | 6.76209 | 46.84187 | 10.75 | jul | 22 | 7.21843 | 7.20115 | -46.79240 | 11.19 |
| jul | 29 | 6.77942 | 6.76212 | 46.84163 | 10.29 | jul | 29 | 7.21846 | 7.20116 | -46.79179 | 10.73 |
| ago | 5 | 6.77949 | 6.76216 | 46.84141 | 9.83 | ago | 5 | 7.21849 | 7.20117 | -46.79122 | 10.27 |
| ago | 12 | 6.77954 | 6.76221 | 46.84119 | 9.37 | ago | 12 | 7.21853 | 7.20120 | -46.79067 | 9.81 |
| ago | 19 | 6.77961 | 6.76226 | 46.84099 | 8.91 | ago | 19 | 7.21858 | 7.20123 | -46.79017 | 9.35 |
| ago | 26 | 6.77968 | 6.76231 | 46.84079 | 8.45 | ago | 26 | 7.21863 | 7.20127 | -46.78973 | 8.89 |
| sep | 2 | 6.77976 | 6.76238 | 46.84065 | 7.99 | sep | 2 | 7.21869 | 7.20131 | -46.78931 | 8.43 |
| sep | 9 | 6.77982 | 6.76244 | 46.84048 | 7.53 | sep | 9 | 7.21874 | 7.20136 | -46.78900 | 7.97 |
| sep | 16 | 6.77991 | 6.76251 | 46.84037 | 7.07 | sep | 16 | 7.21881 | 7.20141 | -46.78872 | 7.51 |
| sep | 23 | 6.77999 | 6.76258 | 46.84023 | 6.61 | sep | 23 | 7.21888 | 7.20147 | -46.78857 | 7.05 |
| sep | 30 | 6.78008 | 6.76265 | 46.84018 | 6.15 | sep | 30 | 7.21895 | 7.20152 | -46.78844 | 6.59 |
| oct | 7 | 6.78015 | 6.76272 | 46.84009 | 5.69 | oct | 7 | 7.21902 | 7.20159 | -46.78846 | 6.13 |
| oct | 14 | 6.78024 | 6.76279 | 46.84008 | 5.23 | oct | 14 | 7.21909 | 7.20164 | -46.78850 | 5.67 |
| oct | 21 | 6.78032 | 6.76286 | 46.84002 | 4.77 | oct | 21 | 7.21917 | 7.20171 | -46.78870 | 5.21 |
| oct | 28 | 6.78041 | 6.76293 | 46.84009 | 4.31 | oct | 28 | 7.21924 | 7.20176 | -46.78890 | 4.75 |
| nov | 4 | 6.78048 | 6.76300 | 46.84009 | 3.85 | nov | 4 | 7.21931 | 7.20182 | -46.78927 | 4.29 |
| nov | 11 | 6.78057 | 6.76306 | 46.84021 | 3.39 | nov | 11 | 7.21938 | 7.20187 | -46.78962 | 3.83 |
| nov | 18 | 6.78065 | 6.76312 | 46.84026 | 2.93 | nov | 18 | 7.21945 | 7.20192 | -46.79014 | 3.37 |
| nov | 25 | 6.78072 | 6.76317 | 46.84046 | 2.47 | nov | 25 | 7.21951 | 7.20196 | -46.79062 | 2.91 |
| dic | 2 | 6.78078 | 6.76322 | 46.84057 | 2.01 | dic | 2 | 7.21956 | 7.20200 | -46.79125 | 2.45 |
| dic | 9 | 6.78085 | 6.76326 | 46.84082 | 1.55 | dic | 9 | 7.21961 | 7.20202 | -46.79181 | 1.99 |
| dic | 16 | 6.78091 | 6.76329 | 46.84099 | 1.09 | dic | 16 | 7.21965 | 7.20204 | -46.79252 | 1.53 |
| dic | 23 | 6.78095 | 6.76332 | 46.84130 | 0.63 | dic | 23 | 7.21969 | 7.20205 | -46.79314 | 1.07 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 36795 | | | | | | 44382 | | | | | |
|--------------|----|---------|----------------|-----------|-------|--------------|----|---------|----------------|-----------|-------|
| | | V | | Sp | | | | V | | Sp | |
| | | 4.44 | | F6V | | | | 4.00 | | Am | |
| | | α | α _c | δ | Hp | | | α | α _c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 7.58200 | 7.56520 | -22.33996 | 0.89 | ene | 1 | 9.04671 | 9.02990 | -66.47229 | 2.36 |
| ene | 8 | 7.58202 | 7.56520 | -22.34051 | 0.43 | ene | 8 | 9.04677 | 9.02995 | -66.47299 | 1.90 |
| ene | 15 | 7.58204 | 7.56520 | -22.34098 | 23.97 | ene | 15 | 9.04681 | 9.02996 | -66.47371 | 1.44 |
| ene | 22 | 7.58205 | 7.56519 | -22.34151 | 23.51 | ene | 22 | 9.04684 | 9.02998 | -66.47448 | 0.98 |
| ene | 29 | 7.58205 | 7.56517 | -22.34193 | 23.05 | ene | 29 | 9.04685 | 9.02997 | -66.47520 | 0.52 |
| feb | 5 | 7.58205 | 7.56515 | -22.34239 | 22.59 | feb | 5 | 9.04686 | 9.02996 | -66.47596 | 0.06 |
| feb | 12 | 7.58204 | 7.56513 | -22.34273 | 22.13 | feb | 12 | 9.04684 | 9.02993 | -66.47666 | 23.60 |
| feb | 19 | 7.58202 | 7.56509 | -22.34313 | 21.67 | feb | 19 | 9.04682 | 9.02989 | -66.47740 | 23.14 |
| feb | 26 | 7.58200 | 7.56506 | -22.34338 | 21.21 | feb | 26 | 9.04677 | 9.02983 | -66.47803 | 22.68 |
| mar | 4 | 7.58197 | 7.56502 | -22.34368 | 20.75 | mar | 4 | 9.04673 | 9.02977 | -66.47870 | 22.22 |
| mar | 11 | 7.58194 | 7.56498 | -22.34383 | 20.29 | mar | 11 | 9.04666 | 9.02969 | -66.47924 | 21.76 |
| mar | 18 | 7.58191 | 7.56493 | -22.34404 | 19.83 | mar | 18 | 9.04659 | 9.02961 | -66.47984 | 21.30 |
| mar | 25 | 7.58187 | 7.56488 | -22.34410 | 19.37 | mar | 25 | 9.04650 | 9.02952 | -66.48027 | 20.84 |
| abr | 1 | 7.58183 | 7.56483 | -22.34421 | 18.91 | abr | 1 | 9.04642 | 9.02943 | -66.48073 | 20.38 |
| abr | 8 | 7.58179 | 7.56478 | -22.34416 | 18.45 | abr | 8 | 9.04632 | 9.02932 | -66.48103 | 19.92 |
| abr | 15 | 7.58176 | 7.56473 | -22.34418 | 17.99 | abr | 15 | 9.04623 | 9.02921 | -66.48138 | 19.46 |
| abr | 22 | 7.58171 | 7.56468 | -22.34404 | 17.53 | abr | 22 | 9.04613 | 9.02909 | -66.48154 | 19.00 |
| abr | 29 | 7.58168 | 7.56463 | -22.34395 | 17.07 | abr | 29 | 9.04603 | 9.02898 | -66.48173 | 18.54 |
| may | 6 | 7.58165 | 7.56459 | -22.34372 | 16.61 | may | 6 | 9.04592 | 9.02886 | -66.48175 | 18.08 |
| may | 13 | 7.58163 | 7.56454 | -22.34355 | 16.15 | may | 13 | 9.04583 | 9.02874 | -66.48181 | 17.62 |
| may | 20 | 7.58160 | 7.56450 | -22.34324 | 15.69 | may | 20 | 9.04573 | 9.02863 | -66.48168 | 17.16 |
| may | 27 | 7.58158 | 7.56446 | -22.34299 | 15.23 | may | 27 | 9.04564 | 9.02852 | -66.48158 | 16.70 |
| jun | 3 | 7.58156 | 7.56443 | -22.34260 | 14.77 | jun | 3 | 9.04555 | 9.02841 | -66.48131 | 16.24 |
| jun | 10 | 7.58156 | 7.56439 | -22.34228 | 14.31 | jun | 10 | 9.04547 | 9.02830 | -66.48108 | 15.78 |
| jun | 17 | 7.58155 | 7.56437 | -22.34185 | 13.85 | jun | 17 | 9.04539 | 9.02821 | -66.48068 | 15.32 |
| jun | 24 | 7.58155 | 7.56435 | -22.34147 | 13.39 | jun | 24 | 9.04532 | 9.02812 | -66.48032 | 14.86 |
| jul | 1 | 7.58155 | 7.56433 | -22.34101 | 12.93 | jul | 1 | 9.04526 | 9.02804 | -66.47982 | 14.40 |
| jul | 8 | 7.58157 | 7.56432 | -22.34059 | 12.47 | jul | 8 | 9.04521 | 9.02796 | -66.47935 | 13.94 |
| jul | 15 | 7.58158 | 7.56431 | -22.34012 | 12.01 | jul | 15 | 9.04517 | 9.02791 | -66.47877 | 13.48 |
| jul | 22 | 7.58160 | 7.56431 | -22.33970 | 11.55 | jul | 22 | 9.04514 | 9.02785 | -66.47822 | 13.02 |
| jul | 29 | 7.58162 | 7.56432 | -22.33925 | 11.09 | jul | 29 | 9.04512 | 9.02782 | -66.47759 | 12.56 |
| ago | 5 | 7.58165 | 7.56433 | -22.33883 | 10.63 | ago | 5 | 9.04512 | 9.02779 | -66.47700 | 12.10 |
| ago | 12 | 7.58168 | 7.56435 | -22.33843 | 10.17 | ago | 12 | 9.04512 | 9.02779 | -66.47635 | 11.64 |
| ago | 19 | 7.58172 | 7.56437 | -22.33807 | 9.71 | ago | 19 | 9.04514 | 9.02779 | -66.47576 | 11.18 |
| ago | 26 | 7.58176 | 7.56440 | -22.33775 | 9.25 | ago | 26 | 9.04517 | 9.02781 | -66.47515 | 10.72 |
| sep | 2 | 7.58181 | 7.56443 | -22.33746 | 8.79 | sep | 2 | 9.04521 | 9.02783 | -66.47458 | 10.26 |
| sep | 9 | 7.58185 | 7.56446 | -22.33723 | 8.33 | sep | 9 | 9.04527 | 9.02788 | -66.47403 | 9.80 |
| sep | 16 | 7.58190 | 7.56450 | -22.33705 | 7.87 | sep | 16 | 9.04533 | 9.02793 | -66.47355 | 9.34 |
| sep | 23 | 7.58195 | 7.56454 | -22.33696 | 7.41 | sep | 23 | 9.04541 | 9.02800 | -66.47313 | 8.88 |
| sep | 30 | 7.58201 | 7.56459 | -22.33688 | 6.95 | sep | 30 | 9.04550 | 9.02807 | -66.47276 | 8.42 |
| oct | 7 | 7.58206 | 7.56463 | -22.33692 | 6.49 | oct | 7 | 9.04559 | 9.02816 | -66.47247 | 7.96 |
| oct | 14 | 7.58213 | 7.56468 | -22.33697 | 6.03 | oct | 14 | 9.04569 | 9.02825 | -66.47225 | 7.50 |
| oct | 21 | 7.58219 | 7.56473 | -22.33717 | 5.57 | oct | 21 | 9.04581 | 9.02835 | -66.47216 | 7.04 |
| oct | 28 | 7.58225 | 7.56477 | -22.33734 | 5.11 | oct | 28 | 9.04592 | 9.02844 | -66.47210 | 6.58 |
| nov | 4 | 7.58231 | 7.56482 | -22.33765 | 4.65 | nov | 4 | 9.04604 | 9.02855 | -66.47218 | 6.12 |
| nov | 11 | 7.58237 | 7.56486 | -22.33795 | 4.19 | nov | 11 | 9.04616 | 9.02865 | -66.47230 | 5.66 |
| nov | 18 | 7.58243 | 7.56490 | -22.33839 | 3.73 | nov | 18 | 9.04628 | 9.02875 | -66.47259 | 5.20 |
| nov | 25 | 7.58248 | 7.56494 | -22.33877 | 3.27 | nov | 25 | 9.04639 | 9.02884 | -66.47287 | 4.74 |
| dic | 2 | 7.58254 | 7.56497 | -22.33928 | 2.81 | dic | 2 | 9.04651 | 9.02894 | -66.47331 | 4.28 |
| dic | 9 | 7.58258 | 7.56500 | -22.33973 | 2.35 | dic | 9 | 9.04661 | 9.02902 | -66.47376 | 3.82 |
| dic | 16 | 7.58263 | 7.56502 | -22.34031 | 1.89 | dic | 16 | 9.04671 | 9.02910 | -66.47437 | 3.36 |
| dic | 23 | 7.58267 | 7.56504 | -22.34078 | 1.43 | dic | 23 | 9.04679 | 9.02916 | -66.47493 | 2.90 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 45238 | | | | | | 50954 | | | | | |
|-------|----|----------|------------|-----------|-------|-------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 1.67 | | | A2IV | | | 3.99 | | | F2IV | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 9.22440 | 9.20759 | -69.79546 | 2.53 | ene | 1 | 10.41389 | 10.39709 | -74.12759 | 3.72 |
| ene | 8 | 9.22447 | 9.20765 | -69.79615 | 2.07 | ene | 8 | 10.41402 | 10.39720 | -74.12816 | 3.26 |
| ene | 15 | 9.22452 | 9.20767 | -69.79686 | 1.61 | ene | 15 | 10.41412 | 10.39728 | -74.12880 | 2.80 |
| ene | 22 | 9.22456 | 9.20770 | -69.79762 | 1.15 | ene | 22 | 10.41423 | 10.39736 | -74.12950 | 2.34 |
| ene | 29 | 9.22458 | 9.20770 | -69.79834 | 0.69 | ene | 29 | 10.41429 | 10.39741 | -74.13020 | 1.88 |
| feb | 5 | 9.22459 | 9.20769 | -69.79911 | 0.23 | feb | 5 | 10.41435 | 10.39746 | -74.13094 | 1.42 |
| feb | 12 | 9.22457 | 9.20765 | -69.79982 | 23.77 | feb | 12 | 10.41437 | 10.39746 | -74.13169 | 0.96 |
| feb | 19 | 9.22455 | 9.20762 | -69.80058 | 23.31 | feb | 19 | 10.41440 | 10.39747 | -74.13247 | 0.50 |
| feb | 26 | 9.22450 | 9.20756 | -69.80123 | 22.85 | feb | 26 | 10.41439 | 10.39745 | -74.13320 | 0.04 |
| mar | 4 | 9.22445 | 9.20749 | -69.80192 | 22.39 | mar | 4 | 10.41438 | 10.39742 | -74.13396 | 23.58 |
| mar | 11 | 9.22437 | 9.20741 | -69.80250 | 21.93 | mar | 11 | 10.41432 | 10.39736 | -74.13466 | 23.12 |
| mar | 18 | 9.22430 | 9.20732 | -69.80312 | 21.47 | mar | 18 | 10.41428 | 10.39730 | -74.13539 | 22.66 |
| mar | 25 | 9.22420 | 9.20721 | -69.80358 | 21.01 | mar | 25 | 10.41420 | 10.39722 | -74.13601 | 22.20 |
| abr | 1 | 9.22410 | 9.20711 | -69.80408 | 20.55 | abr | 1 | 10.41413 | 10.39713 | -74.13665 | 21.74 |
| abr | 8 | 9.22399 | 9.20699 | -69.80442 | 20.09 | abr | 8 | 10.41402 | 10.39701 | -74.13718 | 21.28 |
| abr | 15 | 9.22389 | 9.20686 | -69.80481 | 19.63 | abr | 15 | 10.41392 | 10.39690 | -74.13775 | 20.82 |
| abr | 22 | 9.22377 | 9.20673 | -69.80501 | 19.17 | abr | 22 | 10.41379 | 10.39676 | -74.13815 | 20.36 |
| abr | 29 | 9.22366 | 9.20660 | -69.80524 | 18.71 | abr | 29 | 10.41368 | 10.39663 | -74.13858 | 19.90 |
| may | 6 | 9.22353 | 9.20647 | -69.80530 | 18.25 | may | 6 | 10.41353 | 10.39647 | -74.13886 | 19.44 |
| may | 13 | 9.22342 | 9.20633 | -69.80540 | 17.79 | may | 13 | 10.41341 | 10.39632 | -74.13918 | 18.98 |
| may | 20 | 9.22330 | 9.20620 | -69.80531 | 17.33 | may | 20 | 10.41326 | 10.39616 | -74.13930 | 18.52 |
| may | 27 | 9.22319 | 9.20607 | -69.80525 | 16.87 | may | 27 | 10.41313 | 10.39600 | -74.13946 | 18.06 |
| jun | 3 | 9.22308 | 9.20594 | -69.80501 | 16.41 | jun | 3 | 10.41298 | 10.39584 | -74.13944 | 17.60 |
| jun | 10 | 9.22298 | 9.20582 | -69.80482 | 15.95 | jun | 10 | 10.41284 | 10.39568 | -74.13946 | 17.14 |
| jun | 17 | 9.22288 | 9.20571 | -69.80445 | 15.49 | jun | 17 | 10.41270 | 10.39552 | -74.13928 | 16.68 |
| jun | 24 | 9.22280 | 9.20560 | -69.80412 | 15.03 | jun | 24 | 10.41258 | 10.39537 | -74.13914 | 16.22 |
| jul | 1 | 9.22272 | 9.20550 | -69.80364 | 14.57 | jul | 1 | 10.41245 | 10.39523 | -74.13884 | 15.76 |
| jul | 8 | 9.22266 | 9.20541 | -69.80320 | 14.11 | jul | 8 | 10.41233 | 10.39508 | -74.13856 | 15.30 |
| jul | 15 | 9.22260 | 9.20534 | -69.80262 | 13.65 | jul | 15 | 10.41222 | 10.39496 | -74.13813 | 14.84 |
| jul | 22 | 9.22256 | 9.20527 | -69.80210 | 13.19 | jul | 22 | 10.41213 | 10.39484 | -74.13773 | 14.38 |
| jul | 29 | 9.22253 | 9.20523 | -69.80147 | 12.73 | jul | 29 | 10.41205 | 10.39475 | -74.13720 | 13.92 |
| ago | 5 | 9.22252 | 9.20519 | -69.80088 | 12.27 | ago | 5 | 10.41198 | 10.39466 | -74.13671 | 13.46 |
| ago | 12 | 9.22251 | 9.20518 | -69.80023 | 11.81 | ago | 12 | 10.41193 | 10.39460 | -74.13610 | 13.00 |
| ago | 19 | 9.22252 | 9.20517 | -69.79963 | 11.35 | ago | 19 | 10.41190 | 10.39454 | -74.13555 | 12.54 |
| ago | 26 | 9.22255 | 9.20519 | -69.79901 | 10.89 | ago | 26 | 10.41189 | 10.39452 | -74.13492 | 12.08 |
| sep | 2 | 9.22259 | 9.20521 | -69.79843 | 10.43 | sep | 2 | 10.41188 | 10.39450 | -74.13433 | 11.62 |
| sep | 9 | 9.22265 | 9.20527 | -69.79786 | 9.97 | sep | 9 | 10.41191 | 10.39452 | -74.13370 | 11.16 |
| sep | 16 | 9.22272 | 9.20531 | -69.79736 | 9.51 | sep | 16 | 10.41195 | 10.39454 | -74.13315 | 10.70 |
| sep | 23 | 9.22280 | 9.20539 | -69.79691 | 9.05 | sep | 23 | 10.41201 | 10.39460 | -74.13259 | 10.24 |
| sep | 30 | 9.22289 | 9.20547 | -69.79651 | 8.59 | sep | 30 | 10.41209 | 10.39466 | -74.13208 | 9.78 |
| oct | 7 | 9.22300 | 9.20557 | -69.79619 | 8.13 | oct | 7 | 10.41219 | 10.39476 | -74.13160 | 9.32 |
| oct | 14 | 9.22311 | 9.20566 | -69.79594 | 7.67 | oct | 14 | 10.41229 | 10.39485 | -74.13121 | 8.86 |
| oct | 21 | 9.22324 | 9.20578 | -69.79580 | 7.21 | oct | 21 | 10.41244 | 10.39497 | -74.13089 | 8.40 |
| oct | 28 | 9.22337 | 9.20589 | -69.79570 | 6.75 | oct | 28 | 10.41257 | 10.39509 | -74.13063 | 7.94 |
| nov | 4 | 9.22350 | 9.20602 | -69.79574 | 6.29 | nov | 4 | 10.41273 | 10.39524 | -74.13046 | 7.48 |
| nov | 11 | 9.22363 | 9.20613 | -69.79583 | 5.83 | nov | 11 | 10.41288 | 10.39537 | -74.13037 | 7.02 |
| nov | 18 | 9.22378 | 9.20625 | -69.79607 | 5.37 | nov | 18 | 10.41306 | 10.39553 | -74.13040 | 6.56 |
| nov | 25 | 9.22390 | 9.20635 | -69.79633 | 4.91 | nov | 25 | 10.41322 | 10.39567 | -74.13048 | 6.10 |
| dic | 2 | 9.22403 | 9.20647 | -69.79673 | 4.45 | dic | 2 | 10.41340 | 10.39583 | -74.13068 | 5.64 |
| dic | 9 | 9.22415 | 9.20656 | -69.79715 | 3.99 | dic | 9 | 10.41355 | 10.39597 | -74.13093 | 5.18 |
| dic | 16 | 9.22427 | 9.20665 | -69.79773 | 3.53 | dic | 16 | 10.41373 | 10.39612 | -74.13134 | 4.72 |
| dic | 23 | 9.22436 | 9.20673 | -69.79827 | 3.08 | dic | 23 | 10.41387 | 10.39624 | -74.13174 | 4.26 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 51814 | | | | | | 53910 | | | | | |
|-------|----|----------|----------------|----------|-------|-------|----|----------|----------------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 5.16 | | | F1V | | | 2.34 | | | A1V | | |
| | | α | α _c | δ | Hp | | | α | α _c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 10.60723 | 10.59043 | 56.97607 | 3.92 | ene | 1 | 11.05050 | 11.03370 | 56.27180 | 4.36 |
| ene | 8 | 10.60731 | 10.59049 | 56.97615 | 3.46 | ene | 8 | 11.05059 | 11.03377 | 56.27182 | 3.90 |
| ene | 15 | 10.60741 | 10.59057 | 56.97626 | 3.00 | ene | 15 | 11.05069 | 11.03385 | 56.27186 | 3.44 |
| ene | 22 | 10.60749 | 10.59062 | 56.97645 | 2.54 | ene | 22 | 11.05077 | 11.03391 | 56.27199 | 2.98 |
| ene | 29 | 10.60756 | 10.59068 | 56.97672 | 2.08 | ene | 29 | 11.05085 | 11.03397 | 56.27221 | 2.52 |
| feb | 5 | 10.60761 | 10.59072 | 56.97705 | 1.62 | feb | 5 | 11.05091 | 11.03401 | 56.27249 | 2.06 |
| feb | 12 | 10.60767 | 10.59076 | 56.97742 | 1.16 | feb | 12 | 11.05097 | 11.03406 | 56.27282 | 1.60 |
| feb | 19 | 10.60770 | 10.59078 | 56.97781 | 0.70 | feb | 19 | 11.05102 | 11.03409 | 56.27318 | 1.14 |
| feb | 26 | 10.60773 | 10.59079 | 56.97829 | 0.24 | feb | 26 | 11.05105 | 11.03411 | 56.27363 | 0.68 |
| mar | 4 | 10.60774 | 10.59079 | 56.97875 | 23.78 | mar | 4 | 11.05107 | 11.03412 | 56.27409 | 0.22 |
| mar | 11 | 10.60775 | 10.59079 | 56.97924 | 23.32 | mar | 11 | 11.05109 | 11.03412 | 56.27457 | 23.76 |
| mar | 18 | 10.60774 | 10.59076 | 56.97968 | 22.86 | mar | 18 | 11.05109 | 11.03411 | 56.27502 | 23.30 |
| mar | 25 | 10.60772 | 10.59074 | 56.98021 | 22.40 | mar | 25 | 11.05108 | 11.03410 | 56.27555 | 22.84 |
| abr | 1 | 10.60769 | 10.59070 | 56.98065 | 21.94 | abr | 1 | 11.05106 | 11.03406 | 56.27602 | 22.38 |
| abr | 8 | 10.60766 | 10.59066 | 56.98111 | 21.48 | abr | 8 | 11.05104 | 11.03403 | 56.27650 | 21.92 |
| abr | 15 | 10.60763 | 10.59060 | 56.98145 | 21.02 | abr | 15 | 11.05101 | 11.03398 | 56.27689 | 21.46 |
| abr | 22 | 10.60758 | 10.59055 | 56.98186 | 20.56 | abr | 22 | 11.05096 | 11.03393 | 56.27734 | 21.00 |
| abr | 29 | 10.60753 | 10.59048 | 56.98214 | 20.10 | abr | 29 | 11.05092 | 11.03387 | 56.27767 | 20.54 |
| may | 6 | 10.60747 | 10.59041 | 56.98243 | 19.64 | may | 6 | 11.05087 | 11.03381 | 56.27801 | 20.08 |
| may | 13 | 10.60743 | 10.59034 | 56.98257 | 19.18 | may | 13 | 11.05083 | 11.03374 | 56.27820 | 19.62 |
| may | 20 | 10.60737 | 10.59027 | 56.98277 | 18.72 | may | 20 | 11.05077 | 11.03367 | 56.27846 | 19.16 |
| may | 27 | 10.60732 | 10.59019 | 56.98281 | 18.26 | may | 27 | 11.05072 | 11.03360 | 56.27856 | 18.70 |
| jun | 3 | 10.60726 | 10.59013 | 56.98287 | 17.80 | jun | 3 | 11.05067 | 11.03353 | 56.27868 | 18.24 |
| jun | 10 | 10.60722 | 10.59006 | 56.98277 | 17.34 | jun | 10 | 11.05063 | 11.03346 | 56.27863 | 17.78 |
| jun | 17 | 10.60717 | 10.58999 | 56.98273 | 16.88 | jun | 17 | 11.05057 | 11.03339 | 56.27865 | 17.32 |
| jun | 24 | 10.60713 | 10.58993 | 56.98252 | 16.42 | jun | 24 | 11.05053 | 11.03332 | 56.27849 | 16.86 |
| jul | 1 | 10.60709 | 10.58987 | 56.98235 | 15.96 | jul | 1 | 11.05048 | 11.03326 | 56.27837 | 16.40 |
| jul | 8 | 10.60707 | 10.58982 | 56.98202 | 15.50 | jul | 8 | 11.05046 | 11.03321 | 56.27809 | 15.94 |
| jul | 15 | 10.60703 | 10.58977 | 56.98176 | 15.04 | jul | 15 | 11.05041 | 11.03315 | 56.27787 | 15.48 |
| jul | 22 | 10.60702 | 10.58973 | 56.98134 | 14.58 | jul | 22 | 11.05039 | 11.03311 | 56.27749 | 15.02 |
| jul | 29 | 10.60699 | 10.58969 | 56.98097 | 14.12 | jul | 29 | 11.05036 | 11.03306 | 56.27715 | 14.56 |
| ago | 5 | 10.60700 | 10.58967 | 56.98048 | 13.66 | ago | 5 | 11.05036 | 11.03303 | 56.27669 | 14.10 |
| ago | 12 | 10.60698 | 10.58965 | 56.98005 | 13.20 | ago | 12 | 11.05033 | 11.03300 | 56.27628 | 13.64 |
| ago | 19 | 10.60700 | 10.58964 | 56.97949 | 12.74 | ago | 19 | 11.05034 | 11.03299 | 56.27573 | 13.18 |
| ago | 26 | 10.60700 | 10.58964 | 56.97897 | 12.28 | ago | 26 | 11.05033 | 11.03297 | 56.27523 | 12.72 |
| sep | 2 | 10.60703 | 10.58965 | 56.97839 | 11.82 | sep | 2 | 11.05035 | 11.03297 | 56.27464 | 12.26 |
| sep | 9 | 10.60704 | 10.58966 | 56.97785 | 11.36 | sep | 9 | 11.05036 | 11.03297 | 56.27410 | 11.80 |
| sep | 16 | 10.60709 | 10.58969 | 56.97723 | 10.90 | sep | 16 | 11.05039 | 11.03299 | 56.27346 | 11.34 |
| sep | 23 | 10.60712 | 10.58971 | 56.97664 | 10.44 | sep | 23 | 11.05042 | 11.03301 | 56.27286 | 10.88 |
| sep | 30 | 10.60718 | 10.58976 | 56.97604 | 9.98 | sep | 30 | 11.05046 | 11.03304 | 56.27223 | 10.42 |
| oct | 7 | 10.60723 | 10.58980 | 56.97548 | 9.52 | oct | 7 | 11.05050 | 11.03307 | 56.27164 | 9.96 |
| oct | 14 | 10.60730 | 10.58986 | 56.97488 | 9.06 | oct | 14 | 11.05057 | 11.03312 | 56.27101 | 9.50 |
| oct | 21 | 10.60737 | 10.58991 | 56.97431 | 8.60 | oct | 21 | 11.05062 | 11.03316 | 56.27040 | 9.04 |
| oct | 28 | 10.60746 | 10.58998 | 56.97379 | 8.14 | oct | 28 | 11.05070 | 11.03323 | 56.26983 | 8.58 |
| nov | 4 | 10.60753 | 10.59005 | 56.97330 | 7.68 | nov | 4 | 11.05077 | 11.03328 | 56.26929 | 8.12 |
| nov | 11 | 10.60764 | 10.59013 | 56.97283 | 7.22 | nov | 11 | 11.05086 | 11.03336 | 56.26876 | 7.66 |
| nov | 18 | 10.60773 | 10.59020 | 56.97238 | 6.76 | nov | 18 | 11.05095 | 11.03342 | 56.26825 | 7.20 |
| nov | 25 | 10.60784 | 10.59029 | 56.97205 | 6.30 | nov | 25 | 11.05105 | 11.03351 | 56.26784 | 6.74 |
| dic | 2 | 10.60793 | 10.59037 | 56.97173 | 5.84 | dic | 2 | 11.05115 | 11.03358 | 56.26747 | 6.28 |
| dic | 9 | 10.60804 | 10.59046 | 56.97150 | 5.38 | dic | 9 | 11.05126 | 11.03367 | 56.26716 | 5.82 |
| dic | 16 | 10.60815 | 10.59054 | 56.97128 | 4.92 | dic | 16 | 11.05136 | 11.03375 | 56.26687 | 5.36 |
| dic | 23 | 10.60826 | 10.59062 | 56.97121 | 4.46 | dic | 23 | 11.05146 | 11.03383 | 56.26673 | 4.90 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 54872 | | | | | | 58001 | | | | | | | | |
|--------------|----|----------------|----------|----------|-------|--------------|----|----------------|----------|----------|-------|-----|----|----------|
| V | | | Sp | | | V | | | Sp | | | | | |
| 2.56 | | | A4V | | | 2.41 | | | A0V | | | | | |
| α | | α _c | | δ | | α | | α _c | | δ | | Hp | | |
| m | d | h | h | ° | h | m | d | h | h | ° | h | m | d | h |
| ene | 1 | 11.25267 | 11.23587 | 20.41326 | 4.56 | ene | 1 | 11.91437 | 11.89757 | 53.58052 | 5.22 | ene | 1 | 11.91437 |
| ene | 8 | 11.25273 | 11.23591 | 20.41300 | 4.10 | ene | 8 | 11.91446 | 11.89764 | 53.58041 | 4.76 | ene | 8 | 11.91446 |
| ene | 15 | 11.25279 | 11.23595 | 20.41273 | 3.64 | ene | 15 | 11.91456 | 11.89772 | 53.58030 | 4.30 | ene | 15 | 11.91456 |
| ene | 22 | 11.25285 | 11.23599 | 20.41254 | 3.18 | ene | 22 | 11.91464 | 11.89778 | 53.58031 | 3.84 | ene | 22 | 11.91464 |
| ene | 29 | 11.25290 | 11.23602 | 20.41240 | 2.72 | ene | 29 | 11.91473 | 11.89785 | 53.58040 | 3.38 | ene | 29 | 11.91473 |
| feb | 5 | 11.25294 | 11.23605 | 20.41231 | 2.26 | feb | 5 | 11.91480 | 11.89790 | 53.58058 | 2.92 | feb | 5 | 11.91480 |
| feb | 12 | 11.25299 | 11.23607 | 20.41226 | 1.80 | feb | 12 | 11.91487 | 11.89796 | 53.58079 | 2.46 | feb | 12 | 11.91487 |
| feb | 19 | 11.25302 | 11.23609 | 20.41224 | 1.34 | feb | 19 | 11.91493 | 11.89800 | 53.58107 | 2.00 | feb | 19 | 11.91493 |
| feb | 26 | 11.25304 | 11.23610 | 20.41230 | 0.88 | feb | 26 | 11.91498 | 11.89804 | 53.58144 | 1.54 | feb | 26 | 11.91498 |
| mar | 4 | 11.25306 | 11.23611 | 20.41239 | 0.42 | mar | 4 | 11.91501 | 11.89806 | 53.58186 | 1.08 | mar | 4 | 11.91501 |
| mar | 11 | 11.25308 | 11.23611 | 20.41251 | 23.96 | mar | 11 | 11.91504 | 11.89808 | 53.58229 | 0.62 | mar | 11 | 11.91504 |
| mar | 18 | 11.25308 | 11.23611 | 20.41262 | 23.50 | mar | 18 | 11.91506 | 11.89808 | 53.58273 | 0.16 | mar | 18 | 11.91506 |
| mar | 25 | 11.25308 | 11.23610 | 20.41284 | 23.04 | mar | 25 | 11.91507 | 11.89808 | 53.58325 | 23.70 | mar | 25 | 11.91507 |
| abr | 1 | 11.25308 | 11.23608 | 20.41302 | 22.58 | abr | 1 | 11.91506 | 11.89807 | 53.58374 | 23.24 | abr | 1 | 11.91506 |
| abr | 8 | 11.25307 | 11.23606 | 20.41324 | 22.12 | abr | 8 | 11.91506 | 11.89805 | 53.58425 | 22.78 | abr | 8 | 11.91506 |
| abr | 15 | 11.25306 | 11.23604 | 20.41341 | 21.66 | abr | 15 | 11.91504 | 11.89802 | 53.58468 | 22.32 | abr | 15 | 11.91504 |
| abr | 22 | 11.25304 | 11.23601 | 20.41367 | 21.20 | abr | 22 | 11.91502 | 11.89799 | 53.58519 | 21.86 | abr | 22 | 11.91502 |
| abr | 29 | 11.25302 | 11.23597 | 20.41386 | 20.74 | abr | 29 | 11.91499 | 11.89794 | 53.58560 | 21.40 | abr | 29 | 11.91499 |
| may | 6 | 11.25300 | 11.23594 | 20.41409 | 20.28 | may | 6 | 11.91495 | 11.89789 | 53.58602 | 20.94 | may | 6 | 11.91495 |
| may | 13 | 11.25299 | 11.23590 | 20.41423 | 19.82 | may | 13 | 11.91492 | 11.89783 | 53.58632 | 20.48 | may | 13 | 11.91492 |
| may | 20 | 11.25296 | 11.23586 | 20.41447 | 19.36 | may | 20 | 11.91487 | 11.89778 | 53.58668 | 20.02 | may | 20 | 11.91487 |
| may | 27 | 11.25294 | 11.23582 | 20.41459 | 18.90 | may | 27 | 11.91483 | 11.89771 | 53.58689 | 19.56 | may | 27 | 11.91483 |
| jun | 3 | 11.25291 | 11.23577 | 20.41477 | 18.44 | jun | 3 | 11.91478 | 11.89765 | 53.58712 | 19.10 | jun | 3 | 11.91478 |
| jun | 10 | 11.25290 | 11.23573 | 20.41483 | 17.98 | jun | 10 | 11.91474 | 11.89758 | 53.58719 | 18.64 | jun | 10 | 11.91474 |
| jun | 17 | 11.25287 | 11.23569 | 20.41499 | 17.52 | jun | 17 | 11.91469 | 11.89751 | 53.58732 | 18.18 | jun | 17 | 11.91469 |
| jun | 24 | 11.25285 | 11.23565 | 20.41502 | 17.06 | jun | 24 | 11.91465 | 11.89744 | 53.58728 | 17.72 | jun | 24 | 11.91465 |
| jul | 1 | 11.25283 | 11.23561 | 20.41511 | 16.60 | jul | 1 | 11.91460 | 11.89738 | 53.58727 | 17.26 | jul | 1 | 11.91460 |
| jul | 8 | 11.25282 | 11.23557 | 20.41507 | 16.14 | jul | 8 | 11.91457 | 11.89732 | 53.58710 | 16.80 | jul | 8 | 11.91457 |
| jul | 15 | 11.25279 | 11.23553 | 20.41513 | 15.68 | jul | 15 | 11.91452 | 11.89726 | 53.58699 | 16.34 | jul | 15 | 11.91452 |
| jul | 22 | 11.25279 | 11.23550 | 20.41505 | 15.22 | jul | 22 | 11.91449 | 11.89720 | 53.58670 | 15.88 | jul | 22 | 11.91449 |
| jul | 29 | 11.25277 | 11.23547 | 20.41503 | 14.76 | jul | 29 | 11.91445 | 11.89715 | 53.58646 | 15.42 | jul | 29 | 11.91445 |
| ago | 5 | 11.25277 | 11.23545 | 20.41489 | 14.30 | ago | 5 | 11.91443 | 11.89711 | 53.58606 | 14.96 | ago | 5 | 11.91443 |
| ago | 12 | 11.25276 | 11.23543 | 20.41483 | 13.84 | ago | 12 | 11.91439 | 11.89706 | 53.58573 | 14.50 | ago | 12 | 11.91439 |
| ago | 19 | 11.25277 | 11.23541 | 20.41464 | 13.38 | ago | 19 | 11.91438 | 11.89703 | 53.58524 | 14.04 | ago | 19 | 11.91438 |
| ago | 26 | 11.25276 | 11.23540 | 20.41450 | 12.92 | ago | 26 | 11.91436 | 11.89700 | 53.58479 | 13.58 | ago | 26 | 11.91436 |
| sep | 2 | 11.25277 | 11.23539 | 20.41427 | 12.46 | sep | 2 | 11.91436 | 11.89698 | 53.58423 | 13.12 | sep | 2 | 11.91436 |
| sep | 9 | 11.25278 | 11.23539 | 20.41408 | 12.00 | sep | 9 | 11.91435 | 11.89696 | 53.58373 | 12.66 | sep | 9 | 11.91435 |
| sep | 16 | 11.25280 | 11.23540 | 20.41378 | 11.54 | sep | 16 | 11.91436 | 11.89696 | 53.58310 | 12.20 | sep | 16 | 11.91436 |
| sep | 23 | 11.25281 | 11.23540 | 20.41350 | 11.08 | sep | 23 | 11.91437 | 11.89696 | 53.58251 | 11.74 | sep | 23 | 11.91437 |
| sep | 30 | 11.25284 | 11.23542 | 20.41316 | 10.62 | sep | 30 | 11.91439 | 11.89697 | 53.58185 | 11.28 | sep | 30 | 11.91439 |
| oct | 7 | 11.25286 | 11.23543 | 20.41285 | 10.16 | oct | 7 | 11.91441 | 11.89698 | 53.58125 | 10.82 | oct | 7 | 11.91441 |
| oct | 14 | 11.25291 | 11.23546 | 20.41245 | 9.70 | oct | 14 | 11.91446 | 11.89701 | 53.58056 | 10.36 | oct | 14 | 11.91446 |
| oct | 21 | 11.25294 | 11.23548 | 20.41205 | 9.24 | oct | 21 | 11.91449 | 11.89703 | 53.57991 | 9.90 | oct | 21 | 11.91449 |
| oct | 28 | 11.25299 | 11.23552 | 20.41165 | 8.78 | oct | 28 | 11.91455 | 11.89708 | 53.57926 | 9.44 | oct | 28 | 11.91455 |
| nov | 4 | 11.25304 | 11.23555 | 20.41124 | 8.32 | nov | 4 | 11.91460 | 11.89712 | 53.57865 | 8.99 | nov | 4 | 11.91460 |
| nov | 11 | 11.25310 | 11.23559 | 20.41079 | 7.86 | nov | 11 | 11.91468 | 11.89717 | 53.57802 | 8.53 | nov | 11 | 11.91468 |
| nov | 18 | 11.25316 | 11.23563 | 20.41033 | 7.40 | nov | 18 | 11.91475 | 11.89722 | 53.57743 | 8.07 | nov | 18 | 11.91475 |
| nov | 25 | 11.25322 | 11.23568 | 20.40991 | 6.94 | nov | 25 | 11.91484 | 11.89729 | 53.57689 | 7.61 | nov | 25 | 11.91484 |
| dic | 2 | 11.25329 | 11.23572 | 20.40948 | 6.48 | dic | 2 | 11.91492 | 11.89735 | 53.57640 | 7.15 | dic | 2 | 11.91492 |
| dic | 9 | 11.25336 | 11.23577 | 20.40907 | 6.02 | dic | 9 | 11.91502 | 11.89743 | 53.57596 | 6.69 | dic | 9 | 11.91502 |
| dic | 16 | 11.25343 | 11.23582 | 20.40864 | 5.56 | dic | 16 | 11.91511 | 11.89750 | 53.57554 | 6.23 | dic | 16 | 11.91511 |
| dic | 23 | 11.25350 | 11.23586 | 20.40830 | 5.10 | dic | 23 | 11.91521 | 11.89758 | 53.57525 | 5.77 | dic | 23 | 11.91521 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 58803 | | | | | | 58948 | | | | | |
|--------------|----|----------------|----------|-----------|-------|--------------|----|----------------|----------|---------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 5.15 | | | F6V | | | 4.12 | | | G8III | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 12.07818 | 12.06138 | -42.54060 | 5.39 | ene | 1 | 12.10356 | 12.08676 | 8.62258 | 5.41 |
| ene | 8 | 12.07826 | 12.06144 | -42.54101 | 4.93 | ene | 8 | 12.10362 | 12.08680 | 8.62223 | 4.95 |
| ene | 15 | 12.07833 | 12.06149 | -42.54154 | 4.47 | ene | 15 | 12.10369 | 12.08684 | 8.62183 | 4.49 |
| ene | 22 | 12.07841 | 12.06154 | -42.54205 | 4.01 | ene | 22 | 12.10374 | 12.08688 | 8.62152 | 4.03 |
| ene | 29 | 12.07847 | 12.06159 | -42.54262 | 3.55 | ene | 29 | 12.10380 | 12.08692 | 8.62122 | 3.57 |
| feb | 5 | 12.07852 | 12.06163 | -42.54318 | 3.09 | feb | 5 | 12.10384 | 12.08695 | 8.62100 | 3.11 |
| feb | 12 | 12.07858 | 12.06166 | -42.54379 | 2.63 | feb | 12 | 12.10389 | 12.08698 | 8.62077 | 2.65 |
| feb | 19 | 12.07862 | 12.06170 | -42.54439 | 2.17 | feb | 19 | 12.10393 | 12.08701 | 8.62061 | 2.19 |
| feb | 26 | 12.07866 | 12.06172 | -42.54498 | 1.71 | feb | 26 | 12.10397 | 12.08703 | 8.62050 | 1.73 |
| mar | 4 | 12.07869 | 12.06174 | -42.54556 | 1.25 | mar | 4 | 12.10399 | 12.08704 | 8.62044 | 1.27 |
| mar | 11 | 12.07871 | 12.06175 | -42.54614 | 0.79 | mar | 11 | 12.10402 | 12.08705 | 8.62040 | 0.81 |
| mar | 18 | 12.07873 | 12.06175 | -42.54673 | 0.33 | mar | 18 | 12.10404 | 12.08706 | 8.62038 | 0.35 |
| mar | 25 | 12.07874 | 12.06175 | -42.54723 | 23.87 | mar | 25 | 12.10404 | 12.08706 | 8.62045 | 23.89 |
| abr | 1 | 12.07874 | 12.06175 | -42.54774 | 23.41 | abr | 1 | 12.10405 | 12.08705 | 8.62052 | 23.43 |
| abr | 8 | 12.07874 | 12.06173 | -42.54820 | 22.95 | abr | 8 | 12.10405 | 12.08704 | 8.62062 | 22.97 |
| abr | 15 | 12.07874 | 12.06171 | -42.54868 | 22.49 | abr | 15 | 12.10405 | 12.08703 | 8.62070 | 22.51 |
| abr | 22 | 12.07872 | 12.06169 | -42.54903 | 22.03 | abr | 22 | 12.10404 | 12.08701 | 8.62087 | 22.05 |
| abr | 29 | 12.07871 | 12.06166 | -42.54941 | 21.57 | abr | 29 | 12.10403 | 12.08698 | 8.62100 | 21.59 |
| may | 6 | 12.07868 | 12.06162 | -42.54969 | 21.11 | may | 6 | 12.10402 | 12.08696 | 8.62118 | 21.13 |
| may | 13 | 12.07867 | 12.06158 | -42.55000 | 20.65 | may | 13 | 12.10401 | 12.08693 | 8.62128 | 20.67 |
| may | 20 | 12.07863 | 12.06154 | -42.55016 | 20.19 | may | 20 | 12.10399 | 12.08689 | 8.62149 | 20.21 |
| may | 27 | 12.07861 | 12.06149 | -42.55036 | 19.73 | may | 27 | 12.10398 | 12.08685 | 8.62162 | 19.75 |
| jun | 3 | 12.07857 | 12.06144 | -42.55043 | 19.27 | jun | 3 | 12.10395 | 12.08682 | 8.62181 | 19.29 |
| jun | 10 | 12.07855 | 12.06139 | -42.55055 | 18.81 | jun | 10 | 12.10394 | 12.08678 | 8.62189 | 18.83 |
| jun | 17 | 12.07851 | 12.06133 | -42.55050 | 18.35 | jun | 17 | 12.10391 | 12.08674 | 8.62209 | 18.37 |
| jun | 24 | 12.07848 | 12.06127 | -42.55050 | 17.89 | jun | 24 | 12.10390 | 12.08669 | 8.62217 | 17.91 |
| jul | 1 | 12.07844 | 12.06122 | -42.55035 | 17.43 | jul | 1 | 12.10387 | 12.08665 | 8.62233 | 17.45 |
| jul | 8 | 12.07841 | 12.06116 | -42.55026 | 16.97 | jul | 8 | 12.10386 | 12.08661 | 8.62237 | 16.99 |
| jul | 15 | 12.07837 | 12.06111 | -42.55001 | 16.51 | jul | 15 | 12.10384 | 12.08658 | 8.62251 | 16.53 |
| jul | 22 | 12.07834 | 12.06106 | -42.54982 | 16.05 | jul | 22 | 12.10383 | 12.08654 | 8.62252 | 16.07 |
| jul | 29 | 12.07831 | 12.06101 | -42.54949 | 15.59 | jul | 29 | 12.10380 | 12.08650 | 8.62261 | 15.61 |
| ago | 5 | 12.07828 | 12.06096 | -42.54922 | 15.13 | ago | 5 | 12.10380 | 12.08647 | 8.62259 | 15.15 |
| ago | 12 | 12.07825 | 12.06092 | -42.54882 | 14.67 | ago | 12 | 12.10377 | 12.08644 | 8.62265 | 14.69 |
| ago | 19 | 12.07823 | 12.06088 | -42.54849 | 14.21 | ago | 19 | 12.10377 | 12.08642 | 8.62258 | 14.23 |
| ago | 26 | 12.07821 | 12.06085 | -42.54806 | 13.75 | ago | 26 | 12.10376 | 12.08640 | 8.62257 | 13.77 |
| sep | 2 | 12.07820 | 12.06082 | -42.54769 | 13.29 | sep | 2 | 12.10376 | 12.08638 | 8.62246 | 13.31 |
| sep | 9 | 12.07819 | 12.06081 | -42.54723 | 12.83 | sep | 9 | 12.10375 | 12.08637 | 8.62241 | 12.85 |
| sep | 16 | 12.07820 | 12.06079 | -42.54687 | 12.37 | sep | 16 | 12.10376 | 12.08636 | 8.62225 | 12.39 |
| sep | 23 | 12.07820 | 12.06079 | -42.54645 | 11.91 | sep | 23 | 12.10377 | 12.08636 | 8.62211 | 11.93 |
| sep | 30 | 12.07822 | 12.06079 | -42.54610 | 11.45 | sep | 30 | 12.10378 | 12.08636 | 8.62189 | 11.47 |
| oct | 7 | 12.07823 | 12.06080 | -42.54572 | 10.99 | oct | 7 | 12.10380 | 12.08636 | 8.62170 | 11.01 |
| oct | 14 | 12.07827 | 12.06082 | -42.54545 | 10.53 | oct | 14 | 12.10382 | 12.08638 | 8.62140 | 10.55 |
| oct | 21 | 12.07831 | 12.06084 | -42.54519 | 10.07 | oct | 21 | 12.10385 | 12.08639 | 8.62111 | 10.09 |
| oct | 28 | 12.07835 | 12.06087 | -42.54500 | 9.61 | oct | 28 | 12.10389 | 12.08642 | 8.62077 | 9.63 |
| nov | 4 | 12.07840 | 12.06091 | -42.54483 | 9.15 | nov | 4 | 12.10393 | 12.08644 | 8.62045 | 9.17 |
| nov | 11 | 12.07846 | 12.06095 | -42.54477 | 8.69 | nov | 11 | 12.10398 | 12.08647 | 8.62005 | 8.71 |
| nov | 18 | 12.07853 | 12.06100 | -42.54477 | 8.23 | nov | 18 | 12.10403 | 12.08650 | 8.61963 | 8.25 |
| nov | 25 | 12.07860 | 12.06105 | -42.54483 | 7.77 | nov | 25 | 12.10409 | 12.08654 | 8.61922 | 7.79 |
| dic | 2 | 12.07867 | 12.06111 | -42.54495 | 7.31 | dic | 2 | 12.10414 | 12.08658 | 8.61880 | 7.33 |
| dic | 9 | 12.07875 | 12.06116 | -42.54515 | 6.85 | dic | 9 | 12.10421 | 12.08662 | 8.61835 | 6.87 |
| dic | 16 | 12.07883 | 12.06122 | -42.54544 | 6.39 | dic | 16 | 12.10428 | 12.08666 | 8.61789 | 6.41 |
| dic | 23 | 12.07891 | 12.06128 | -42.54576 | 5.93 | dic | 23 | 12.10434 | 12.08671 | 8.61748 | 5.96 |

Posiciones aparentes de estrellas brillantes, 2020

(a las 0^h del meridiano 90° W.G.)

| 59774 | | | | | | 61084 | | | | | |
|-------|----|----------------|----------|----------|-------|-------|----|----------------|----------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.32 | | | A3Vvar | | | 1.59 | | | M4III | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 12.27321 | 12.25641 | 56.91840 | 5.58 | ene | 1 | 12.53788 | 12.52108 | -57.21844 | 5.85 |
| ene | 8 | 12.27331 | 12.25649 | 56.91826 | 5.12 | ene | 8 | 12.53798 | 12.52116 | -57.21876 | 5.39 |
| ene | 15 | 12.27342 | 12.25657 | 56.91812 | 4.66 | ene | 15 | 12.53808 | 12.52123 | -57.21923 | 4.93 |
| ene | 22 | 12.27351 | 12.25664 | 56.91811 | 4.20 | ene | 22 | 12.53817 | 12.52131 | -57.21969 | 4.47 |
| ene | 29 | 12.27360 | 12.25672 | 56.91816 | 3.74 | ene | 29 | 12.53826 | 12.52138 | -57.22023 | 4.01 |
| feb | 5 | 12.27368 | 12.25678 | 56.91833 | 3.28 | feb | 5 | 12.53834 | 12.52144 | -57.22077 | 3.55 |
| feb | 12 | 12.27376 | 12.25685 | 56.91853 | 2.82 | feb | 12 | 12.53841 | 12.52149 | -57.22140 | 3.09 |
| feb | 19 | 12.27383 | 12.25690 | 56.91881 | 2.36 | feb | 19 | 12.53848 | 12.52155 | -57.22203 | 2.63 |
| feb | 26 | 12.27389 | 12.25695 | 56.91917 | 1.90 | feb | 26 | 12.53852 | 12.52158 | -57.22268 | 2.17 |
| mar | 4 | 12.27393 | 12.25698 | 56.91959 | 1.44 | mar | 4 | 12.53857 | 12.52162 | -57.22332 | 1.71 |
| mar | 11 | 12.27397 | 12.25701 | 56.92003 | 0.98 | mar | 11 | 12.53861 | 12.52164 | -57.22399 | 1.25 |
| mar | 18 | 12.27400 | 12.25702 | 56.92049 | 0.52 | mar | 18 | 12.53865 | 12.52167 | -57.22466 | 0.79 |
| mar | 25 | 12.27401 | 12.25703 | 56.92103 | 0.06 | mar | 25 | 12.53866 | 12.52167 | -57.22529 | 0.33 |
| abr | 1 | 12.27401 | 12.25702 | 56.92156 | 23.60 | abr | 1 | 12.53867 | 12.52168 | -57.22592 | 23.87 |
| abr | 8 | 12.27401 | 12.25701 | 56.92209 | 23.14 | abr | 8 | 12.53867 | 12.52166 | -57.22652 | 23.41 |
| abr | 15 | 12.27400 | 12.25698 | 56.92256 | 22.68 | abr | 15 | 12.53868 | 12.52165 | -57.22713 | 22.95 |
| abr | 22 | 12.27398 | 12.25695 | 56.92310 | 22.22 | abr | 22 | 12.53866 | 12.52163 | -57.22764 | 22.49 |
| abr | 29 | 12.27395 | 12.25690 | 56.92356 | 21.76 | abr | 29 | 12.53865 | 12.52160 | -57.22816 | 22.03 |
| may | 6 | 12.27392 | 12.25685 | 56.92402 | 21.30 | may | 6 | 12.53862 | 12.52155 | -57.22860 | 21.57 |
| may | 13 | 12.27388 | 12.25679 | 56.92436 | 20.84 | may | 13 | 12.53860 | 12.52151 | -57.22907 | 21.11 |
| may | 20 | 12.27383 | 12.25674 | 56.92475 | 20.38 | may | 20 | 12.53855 | 12.52146 | -57.22939 | 20.65 |
| may | 27 | 12.27379 | 12.25667 | 56.92501 | 19.92 | may | 27 | 12.53852 | 12.52140 | -57.22973 | 20.19 |
| jun | 3 | 12.27374 | 12.25660 | 56.92528 | 19.46 | jun | 3 | 12.53847 | 12.52133 | -57.22994 | 19.73 |
| jun | 10 | 12.27369 | 12.25653 | 56.92539 | 19.00 | jun | 10 | 12.53844 | 12.52127 | -57.23019 | 19.27 |
| jun | 17 | 12.27363 | 12.25645 | 56.92556 | 18.54 | jun | 17 | 12.53837 | 12.52120 | -57.23027 | 18.81 |
| jun | 24 | 12.27358 | 12.25638 | 56.92556 | 18.08 | jun | 24 | 12.53833 | 12.52112 | -57.23039 | 18.35 |
| jul | 1 | 12.27353 | 12.25631 | 56.92557 | 17.62 | jul | 1 | 12.53827 | 12.52105 | -57.23035 | 17.89 |
| jul | 8 | 12.27349 | 12.25624 | 56.92543 | 17.16 | jul | 8 | 12.53822 | 12.52097 | -57.23035 | 17.43 |
| jul | 15 | 12.27343 | 12.25617 | 56.92534 | 16.70 | jul | 15 | 12.53816 | 12.52090 | -57.23017 | 16.97 |
| jul | 22 | 12.27339 | 12.25610 | 56.92507 | 16.24 | jul | 22 | 12.53811 | 12.52082 | -57.23004 | 16.51 |
| jul | 29 | 12.27334 | 12.25604 | 56.92484 | 15.78 | jul | 29 | 12.53805 | 12.52075 | -57.22976 | 16.05 |
| ago | 5 | 12.27331 | 12.25599 | 56.92445 | 15.32 | ago | 5 | 12.53801 | 12.52068 | -57.22952 | 15.59 |
| ago | 12 | 12.27327 | 12.25594 | 56.92413 | 14.86 | ago | 12 | 12.53795 | 12.52062 | -57.22912 | 15.13 |
| ago | 19 | 12.27325 | 12.25589 | 56.92363 | 14.40 | ago | 19 | 12.53791 | 12.52056 | -57.22879 | 14.67 |
| ago | 26 | 12.27321 | 12.25585 | 56.92318 | 13.94 | ago | 26 | 12.53787 | 12.52051 | -57.22832 | 14.21 |
| sep | 2 | 12.27320 | 12.25582 | 56.92261 | 13.48 | sep | 2 | 12.53785 | 12.52047 | -57.22791 | 13.75 |
| sep | 9 | 12.27318 | 12.25580 | 56.92210 | 13.02 | sep | 9 | 12.53782 | 12.52043 | -57.22739 | 13.29 |
| sep | 16 | 12.27319 | 12.25578 | 56.92145 | 12.56 | sep | 16 | 12.53781 | 12.52040 | -57.22695 | 12.83 |
| sep | 23 | 12.27318 | 12.25577 | 56.92083 | 12.10 | sep | 23 | 12.53780 | 12.52039 | -57.22642 | 12.37 |
| sep | 30 | 12.27320 | 12.25578 | 56.92015 | 11.64 | sep | 30 | 12.53781 | 12.52038 | -57.22597 | 11.91 |
| oct | 7 | 12.27321 | 12.25578 | 56.91953 | 11.18 | oct | 7 | 12.53782 | 12.52039 | -57.22546 | 11.45 |
| oct | 14 | 12.27325 | 12.25580 | 56.91880 | 10.72 | oct | 14 | 12.53785 | 12.52040 | -57.22506 | 10.99 |
| oct | 21 | 12.27328 | 12.25582 | 56.91813 | 10.26 | oct | 21 | 12.53789 | 12.52043 | -57.22463 | 10.53 |
| oct | 28 | 12.27334 | 12.25586 | 56.91743 | 9.80 | oct | 28 | 12.53793 | 12.52046 | -57.22429 | 10.07 |
| nov | 4 | 12.27339 | 12.25590 | 56.91679 | 9.34 | nov | 4 | 12.53799 | 12.52051 | -57.22396 | 9.61 |
| nov | 11 | 12.27346 | 12.25595 | 56.91612 | 8.88 | nov | 11 | 12.53806 | 12.52055 | -57.22374 | 9.15 |
| nov | 18 | 12.27353 | 12.25600 | 56.91549 | 8.42 | nov | 18 | 12.53814 | 12.52062 | -57.22356 | 8.69 |
| nov | 25 | 12.27362 | 12.25607 | 56.91491 | 7.96 | nov | 25 | 12.53822 | 12.52068 | -57.22346 | 8.23 |
| dic | 2 | 12.27370 | 12.25613 | 56.91438 | 7.50 | dic | 2 | 12.53832 | 12.52075 | -57.22342 | 7.77 |
| dic | 9 | 12.27380 | 12.25621 | 56.91389 | 7.04 | dic | 9 | 12.53841 | 12.52082 | -57.22348 | 7.31 |
| dic | 16 | 12.27389 | 12.25628 | 56.91344 | 6.58 | dic | 16 | 12.53852 | 12.52091 | -57.22363 | 6.85 |
| dic | 23 | 12.27400 | 12.25637 | 56.91310 | 6.12 | dic | 23 | 12.53861 | 12.52098 | -57.22383 | 6.39 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 62896 | | | | | | 63608 | | | | | |
|--------------|----|----------------|----------|-----------|-------|--------------|----|----------------|----------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 4.25 | | | A4IV | | | 2.85 | | | G8IIIvar | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 12.90888 | 12.89208 | -40.28196 | 6.22 | ene | 1 | 13.05255 | 13.03575 | 10.85246 | 6.36 |
| ene | 8 | 12.90895 | 12.89213 | -40.28228 | 5.76 | ene | 8 | 13.05261 | 13.03579 | 10.85209 | 5.90 |
| ene | 15 | 12.90903 | 12.89219 | -40.28273 | 5.30 | ene | 15 | 13.05268 | 13.03583 | 10.85166 | 5.44 |
| ene | 22 | 12.90911 | 12.89225 | -40.28315 | 4.84 | ene | 22 | 13.05274 | 13.03588 | 10.85134 | 4.98 |
| ene | 29 | 12.90918 | 12.89230 | -40.28365 | 4.38 | ene | 29 | 13.05280 | 13.03592 | 10.85101 | 4.52 |
| feb | 5 | 12.90924 | 12.89235 | -40.28412 | 3.92 | feb | 5 | 13.05285 | 13.03596 | 10.85079 | 4.06 |
| feb | 12 | 12.90930 | 12.89239 | -40.28467 | 3.46 | feb | 12 | 13.05291 | 13.03600 | 10.85054 | 3.60 |
| feb | 19 | 12.90936 | 12.89243 | -40.28520 | 3.00 | feb | 19 | 13.05296 | 13.03603 | 10.85037 | 3.14 |
| feb | 26 | 12.90941 | 12.89247 | -40.28574 | 2.54 | feb | 26 | 13.05300 | 13.03606 | 10.85026 | 2.68 |
| mar | 4 | 12.90945 | 12.89250 | -40.28626 | 2.08 | mar | 4 | 13.05304 | 13.03609 | 10.85021 | 2.22 |
| mar | 11 | 12.90948 | 12.89252 | -40.28681 | 1.62 | mar | 11 | 13.05307 | 13.03611 | 10.85017 | 1.76 |
| mar | 18 | 12.90952 | 12.89254 | -40.28734 | 1.16 | mar | 18 | 13.05310 | 13.03612 | 10.85018 | 1.30 |
| mar | 25 | 12.90954 | 12.89255 | -40.28783 | 0.70 | mar | 25 | 13.05312 | 13.03614 | 10.85026 | 0.84 |
| abr | 1 | 12.90956 | 12.89256 | -40.28830 | 0.24 | abr | 1 | 13.05314 | 13.03614 | 10.85036 | 0.38 |
| abr | 8 | 12.90957 | 12.89256 | -40.28876 | 23.78 | abr | 8 | 13.05315 | 13.03615 | 10.85049 | 23.92 |
| abr | 15 | 12.90958 | 12.89256 | -40.28922 | 23.32 | abr | 15 | 13.05317 | 13.03614 | 10.85061 | 23.46 |
| abr | 22 | 12.90958 | 12.89254 | -40.28959 | 22.86 | abr | 22 | 13.05316 | 13.03613 | 10.85081 | 23.00 |
| abr | 29 | 12.90958 | 12.89253 | -40.28997 | 22.40 | abr | 29 | 13.05317 | 13.03612 | 10.85099 | 22.54 |
| may | 6 | 12.90956 | 12.89250 | -40.29028 | 21.94 | may | 6 | 13.05316 | 13.03610 | 10.85120 | 22.08 |
| may | 13 | 12.90956 | 12.89248 | -40.29062 | 21.48 | may | 13 | 13.05316 | 13.03607 | 10.85136 | 21.62 |
| may | 20 | 12.90954 | 12.89244 | -40.29083 | 21.02 | may | 20 | 13.05314 | 13.03605 | 10.85161 | 21.16 |
| may | 27 | 12.90953 | 12.89241 | -40.29107 | 20.56 | may | 27 | 13.05314 | 13.03601 | 10.85178 | 20.70 |
| jun | 3 | 12.90950 | 12.89236 | -40.29120 | 20.10 | jun | 3 | 13.05312 | 13.03598 | 10.85200 | 20.24 |
| jun | 10 | 12.90948 | 12.89232 | -40.29138 | 19.64 | jun | 10 | 13.05311 | 13.03595 | 10.85213 | 19.78 |
| jun | 17 | 12.90945 | 12.89227 | -40.29141 | 19.18 | jun | 17 | 13.05308 | 13.03591 | 10.85235 | 19.32 |
| jun | 24 | 12.90943 | 12.89222 | -40.29148 | 18.72 | jun | 24 | 13.05307 | 13.03587 | 10.85247 | 18.86 |
| jul | 1 | 12.90939 | 12.89217 | -40.29142 | 18.26 | jul | 1 | 13.05305 | 13.03583 | 10.85264 | 18.40 |
| jul | 8 | 12.90936 | 12.89211 | -40.29141 | 17.80 | jul | 8 | 13.05303 | 13.03578 | 10.85270 | 17.94 |
| jul | 15 | 12.90932 | 12.89206 | -40.29125 | 17.34 | jul | 15 | 13.05300 | 13.03574 | 10.85285 | 17.48 |
| jul | 22 | 12.90929 | 12.89201 | -40.29114 | 16.88 | jul | 22 | 13.05299 | 13.03570 | 10.85288 | 17.02 |
| jul | 29 | 12.90925 | 12.89195 | -40.29091 | 16.42 | jul | 29 | 13.05296 | 13.03566 | 10.85297 | 16.56 |
| ago | 5 | 12.90923 | 12.89190 | -40.29073 | 15.96 | ago | 5 | 13.05295 | 13.03562 | 10.85294 | 16.10 |
| ago | 12 | 12.90919 | 12.89186 | -40.29040 | 15.50 | ago | 12 | 13.05292 | 13.03559 | 10.85300 | 15.64 |
| ago | 19 | 12.90917 | 12.89181 | -40.29016 | 15.04 | ago | 19 | 13.05291 | 13.03555 | 10.85292 | 15.18 |
| ago | 26 | 12.90914 | 12.89178 | -40.28980 | 14.58 | ago | 26 | 13.05288 | 13.03552 | 10.85290 | 14.72 |
| sep | 2 | 12.90912 | 12.89174 | -40.28950 | 14.12 | sep | 2 | 13.05288 | 13.03550 | 10.85277 | 14.26 |
| sep | 9 | 12.90910 | 12.89171 | -40.28909 | 13.66 | sep | 9 | 13.05286 | 13.03547 | 10.85271 | 13.80 |
| sep | 16 | 12.90909 | 12.89169 | -40.28879 | 13.20 | sep | 16 | 13.05286 | 13.03545 | 10.85251 | 13.34 |
| sep | 23 | 12.90908 | 12.89167 | -40.28840 | 12.74 | sep | 23 | 13.05285 | 13.03544 | 10.85235 | 12.88 |
| sep | 30 | 12.90909 | 12.89166 | -40.28809 | 12.28 | sep | 30 | 13.05285 | 13.03543 | 10.85210 | 12.42 |
| oct | 7 | 12.90909 | 12.89166 | -40.28771 | 11.82 | oct | 7 | 13.05285 | 13.03542 | 10.85190 | 11.96 |
| oct | 14 | 12.90911 | 12.89166 | -40.28746 | 11.36 | oct | 14 | 13.05287 | 13.03542 | 10.85157 | 11.50 |
| oct | 21 | 12.90914 | 12.89168 | -40.28717 | 10.90 | oct | 21 | 13.05289 | 13.03543 | 10.85127 | 11.04 |
| oct | 28 | 12.90917 | 12.89169 | -40.28697 | 10.44 | oct | 28 | 13.05292 | 13.03544 | 10.85089 | 10.58 |
| nov | 4 | 12.90921 | 12.89172 | -40.28676 | 9.98 | nov | 4 | 13.05294 | 13.03545 | 10.85055 | 10.12 |
| nov | 11 | 12.90926 | 12.89175 | -40.28666 | 9.52 | nov | 11 | 13.05298 | 13.03548 | 10.85011 | 9.66 |
| nov | 18 | 12.90932 | 12.89179 | -40.28660 | 9.06 | nov | 18 | 13.05303 | 13.03550 | 10.84969 | 9.20 |
| nov | 25 | 12.90938 | 12.89183 | -40.28660 | 8.60 | nov | 25 | 13.05308 | 13.03553 | 10.84923 | 8.74 |
| dic | 2 | 12.90944 | 12.89188 | -40.28664 | 8.14 | dic | 2 | 13.05313 | 13.03556 | 10.84880 | 8.28 |
| dic | 9 | 12.90951 | 12.89193 | -40.28678 | 7.68 | dic | 9 | 13.05319 | 13.03560 | 10.84831 | 7.82 |
| dic | 16 | 12.90960 | 12.89199 | -40.28698 | 7.22 | dic | 16 | 13.05325 | 13.03564 | 10.84784 | 7.36 |
| dic | 23 | 12.90967 | 12.89204 | -40.28722 | 6.76 | dic | 23 | 13.05331 | 13.03568 | 10.84738 | 6.90 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 64394 | | | | | | 66249 | | | | | |
|-------|----|----------|------------|----------|-------|-------|----|----------|------------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 4.23 | | | GOV | | | 3.38 | | | A3V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 13.21308 | 13.19628 | 27.77610 | 6.52 | ene | 1 | 13.59486 | 13.57806 | -0.69590 | 6.90 |
| ene | 8 | 13.21314 | 13.19632 | 27.77575 | 6.06 | ene | 8 | 13.59492 | 13.57810 | -0.69627 | 6.44 |
| ene | 15 | 13.21322 | 13.19637 | 27.77536 | 5.60 | ene | 15 | 13.59499 | 13.57814 | -0.69672 | 5.98 |
| ene | 22 | 13.21328 | 13.19642 | 27.77510 | 5.14 | ene | 22 | 13.59505 | 13.57819 | -0.69708 | 5.52 |
| ene | 29 | 13.21335 | 13.19647 | 27.77485 | 4.68 | ene | 29 | 13.59511 | 13.57823 | -0.69746 | 5.06 |
| feb | 5 | 13.21341 | 13.19651 | 27.77474 | 4.22 | feb | 5 | 13.59517 | 13.57827 | -0.69775 | 4.60 |
| feb | 12 | 13.21347 | 13.19656 | 27.77461 | 3.76 | feb | 12 | 13.59522 | 13.57831 | -0.69810 | 4.14 |
| feb | 19 | 13.21353 | 13.19660 | 27.77459 | 3.30 | feb | 19 | 13.59528 | 13.57835 | -0.69835 | 3.68 |
| feb | 26 | 13.21357 | 13.19663 | 27.77462 | 2.84 | feb | 26 | 13.59532 | 13.57838 | -0.69858 | 3.22 |
| mar | 4 | 13.21361 | 13.19666 | 27.77475 | 2.38 | mar | 4 | 13.59536 | 13.57841 | -0.69873 | 2.76 |
| mar | 11 | 13.21365 | 13.19669 | 27.77488 | 1.92 | mar | 11 | 13.59540 | 13.57844 | -0.69891 | 2.30 |
| mar | 18 | 13.21369 | 13.19671 | 27.77507 | 1.46 | mar | 18 | 13.59544 | 13.57846 | -0.69902 | 1.84 |
| mar | 25 | 13.21371 | 13.19672 | 27.77534 | 1.00 | mar | 25 | 13.59546 | 13.57848 | -0.69908 | 1.38 |
| abr | 1 | 13.21373 | 13.19673 | 27.77564 | 0.54 | abr | 1 | 13.59549 | 13.57849 | -0.69910 | 0.92 |
| abr | 8 | 13.21374 | 13.19673 | 27.77594 | 0.08 | abr | 8 | 13.59551 | 13.57850 | -0.69912 | 0.47 |
| abr | 15 | 13.21375 | 13.19673 | 27.77625 | 23.62 | abr | 15 | 13.59553 | 13.57850 | -0.69911 | 0.01 |
| abr | 22 | 13.21375 | 13.19672 | 27.77663 | 23.16 | abr | 22 | 13.59553 | 13.57850 | -0.69904 | 23.55 |
| abr | 29 | 13.21375 | 13.19670 | 27.77698 | 22.70 | abr | 29 | 13.59554 | 13.57849 | -0.69897 | 23.09 |
| may | 6 | 13.21375 | 13.19668 | 27.77735 | 22.24 | may | 6 | 13.59554 | 13.57848 | -0.69887 | 22.63 |
| may | 13 | 13.21374 | 13.19666 | 27.77765 | 21.78 | may | 13 | 13.59555 | 13.57846 | -0.69881 | 22.17 |
| may | 20 | 13.21373 | 13.19663 | 27.77803 | 21.32 | may | 20 | 13.59554 | 13.57844 | -0.69866 | 21.71 |
| may | 27 | 13.21371 | 13.19659 | 27.77832 | 20.86 | may | 27 | 13.59554 | 13.57842 | -0.69855 | 21.25 |
| jun | 3 | 13.21369 | 13.19656 | 27.77863 | 20.40 | jun | 3 | 13.59552 | 13.57839 | -0.69840 | 20.79 |
| jun | 10 | 13.21368 | 13.19651 | 27.77884 | 19.94 | jun | 10 | 13.59552 | 13.57836 | -0.69832 | 20.33 |
| jun | 17 | 13.21365 | 13.19647 | 27.77911 | 19.48 | jun | 17 | 13.59550 | 13.57832 | -0.69814 | 19.87 |
| jun | 24 | 13.21363 | 13.19643 | 27.77927 | 19.02 | jun | 24 | 13.59549 | 13.57828 | -0.69805 | 19.41 |
| jul | 1 | 13.21360 | 13.19638 | 27.77946 | 18.56 | jul | 1 | 13.59546 | 13.57824 | -0.69789 | 18.95 |
| jul | 8 | 13.21358 | 13.19633 | 27.77951 | 18.10 | jul | 8 | 13.59545 | 13.57820 | -0.69782 | 18.49 |
| jul | 15 | 13.21355 | 13.19629 | 27.77964 | 17.64 | jul | 15 | 13.59542 | 13.57816 | -0.69765 | 18.03 |
| jul | 22 | 13.21353 | 13.19624 | 27.77962 | 17.18 | jul | 22 | 13.59541 | 13.57812 | -0.69759 | 17.57 |
| jul | 29 | 13.21349 | 13.19620 | 27.77964 | 16.72 | jul | 29 | 13.59538 | 13.57808 | -0.69746 | 17.11 |
| ago | 5 | 13.21348 | 13.19615 | 27.77953 | 16.26 | ago | 5 | 13.59536 | 13.57804 | -0.69743 | 16.65 |
| ago | 12 | 13.21344 | 13.19611 | 27.77949 | 15.80 | ago | 12 | 13.59533 | 13.57800 | -0.69730 | 16.19 |
| ago | 19 | 13.21343 | 13.19607 | 27.77928 | 15.34 | ago | 19 | 13.59532 | 13.57796 | -0.69730 | 15.73 |
| ago | 26 | 13.21340 | 13.19604 | 27.77913 | 14.88 | ago | 26 | 13.59529 | 13.57793 | -0.69722 | 15.27 |
| sep | 2 | 13.21339 | 13.19601 | 27.77885 | 14.42 | sep | 2 | 13.59528 | 13.57790 | -0.69725 | 14.81 |
| sep | 9 | 13.21336 | 13.19598 | 27.77863 | 13.96 | sep | 9 | 13.59526 | 13.57787 | -0.69720 | 14.35 |
| sep | 16 | 13.21336 | 13.19596 | 27.77827 | 13.50 | sep | 16 | 13.59525 | 13.57785 | -0.69728 | 13.89 |
| sep | 23 | 13.21335 | 13.19594 | 27.77794 | 13.04 | sep | 23 | 13.59524 | 13.57783 | -0.69730 | 13.43 |
| sep | 30 | 13.21335 | 13.19593 | 27.77751 | 12.58 | sep | 30 | 13.59524 | 13.57781 | -0.69742 | 12.97 |
| oct | 7 | 13.21335 | 13.19592 | 27.77713 | 12.12 | oct | 7 | 13.59523 | 13.57780 | -0.69747 | 12.51 |
| oct | 14 | 13.21336 | 13.19591 | 27.77662 | 11.66 | oct | 14 | 13.59524 | 13.57779 | -0.69766 | 12.05 |
| oct | 21 | 13.21338 | 13.19591 | 27.77615 | 11.20 | oct | 21 | 13.59525 | 13.57779 | -0.69782 | 11.59 |
| oct | 28 | 13.21340 | 13.19593 | 27.77561 | 10.74 | oct | 28 | 13.59527 | 13.57780 | -0.69807 | 11.13 |
| nov | 4 | 13.21343 | 13.19594 | 27.77512 | 10.28 | nov | 4 | 13.59529 | 13.57781 | -0.69827 | 10.67 |
| nov | 11 | 13.21347 | 13.19596 | 27.77453 | 9.82 | nov | 11 | 13.59533 | 13.57782 | -0.69860 | 10.21 |
| nov | 18 | 13.21351 | 13.19598 | 27.77398 | 9.36 | nov | 18 | 13.59537 | 13.57784 | -0.69890 | 9.75 |
| nov | 25 | 13.21356 | 13.19601 | 27.77340 | 8.90 | nov | 25 | 13.59541 | 13.57787 | -0.69926 | 9.29 |
| dic | 2 | 13.21361 | 13.19604 | 27.77288 | 8.44 | dic | 2 | 13.59546 | 13.57789 | -0.69960 | 8.83 |
| dic | 9 | 13.21367 | 13.19609 | 27.77231 | 7.98 | dic | 9 | 13.59551 | 13.57793 | -0.70002 | 8.37 |
| dic | 16 | 13.21374 | 13.19612 | 27.77179 | 7.52 | dic | 16 | 13.59558 | 13.57796 | -0.70042 | 7.91 |
| dic | 23 | 13.21380 | 13.19617 | 27.77130 | 7.06 | dic | 23 | 13.59564 | 13.57800 | -0.70085 | 7.45 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 67494 | | | | | | 68895 | | | | | |
|--------------|----|----------|----------------|-----------|-------|--------------|----|----------|----------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 4.96 | | | K0III | | | 3.25 | | | K2III | | |
| | | α | α _c | δ | Hp | | | α | α _c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 13.84895 | 13.83214 | -18.22988 | 7.16 | ene | 1 | 14.12480 | 14.10800 | -26.77399 | 7.43 |
| ene | 8 | 13.84901 | 13.83219 | -18.23018 | 6.70 | ene | 8 | 14.12486 | 14.10804 | -26.77424 | 6.97 |
| ene | 15 | 13.84908 | 13.83224 | -18.23060 | 6.24 | ene | 15 | 14.12494 | 14.10809 | -26.77462 | 6.51 |
| ene | 22 | 13.84915 | 13.83228 | -18.23095 | 5.78 | ene | 22 | 14.12501 | 14.10814 | -26.77493 | 6.05 |
| ene | 29 | 13.84921 | 13.83233 | -18.23137 | 5.32 | ene | 29 | 14.12508 | 14.10819 | -26.77533 | 5.59 |
| feb | 5 | 13.84927 | 13.83238 | -18.23170 | 4.86 | feb | 5 | 14.12514 | 14.10824 | -26.77566 | 5.13 |
| feb | 12 | 13.84933 | 13.83242 | -18.23212 | 4.40 | feb | 12 | 14.12520 | 14.10829 | -26.77609 | 4.67 |
| feb | 19 | 13.84939 | 13.83246 | -18.23247 | 3.94 | feb | 19 | 14.12527 | 14.10834 | -26.77645 | 4.21 |
| feb | 26 | 13.84944 | 13.83250 | -18.23283 | 3.48 | feb | 26 | 14.12532 | 14.10838 | -26.77685 | 3.75 |
| mar | 4 | 13.84948 | 13.83253 | -18.23312 | 3.02 | mar | 4 | 14.12537 | 14.10842 | -26.77718 | 3.29 |
| mar | 11 | 13.84953 | 13.83256 | -18.23346 | 2.56 | mar | 11 | 14.12542 | 14.10845 | -26.77758 | 2.83 |
| mar | 18 | 13.84957 | 13.83259 | -18.23374 | 2.10 | mar | 18 | 14.12547 | 14.10849 | -26.77792 | 2.37 |
| mar | 25 | 13.84960 | 13.83261 | -18.23399 | 1.64 | mar | 25 | 14.12550 | 14.10851 | -26.77825 | 1.91 |
| abr | 1 | 13.84963 | 13.83263 | -18.23420 | 1.18 | abr | 1 | 14.12553 | 14.10854 | -26.77854 | 1.46 |
| abr | 8 | 13.84965 | 13.83264 | -18.23442 | 0.72 | abr | 8 | 14.12556 | 14.10855 | -26.77885 | 1.00 |
| abr | 15 | 13.84967 | 13.83265 | -18.23462 | 0.26 | abr | 15 | 14.12559 | 14.10857 | -26.77913 | 0.54 |
| abr | 22 | 13.84968 | 13.83265 | -18.23475 | 23.80 | abr | 22 | 14.12560 | 14.10857 | -26.77936 | 0.08 |
| abr | 29 | 13.84970 | 13.83265 | -18.23488 | 23.34 | abr | 29 | 14.12562 | 14.10857 | -26.77958 | 23.62 |
| may | 6 | 13.84970 | 13.83264 | -18.23498 | 22.88 | may | 6 | 14.12563 | 14.10857 | -26.77979 | 23.16 |
| may | 13 | 13.84971 | 13.83262 | -18.23510 | 22.42 | may | 13 | 14.12564 | 14.10856 | -26.78000 | 22.70 |
| may | 20 | 13.84970 | 13.83261 | -18.23513 | 21.96 | may | 20 | 14.12564 | 14.10854 | -26.78013 | 22.24 |
| may | 27 | 13.84971 | 13.83258 | -18.23519 | 21.50 | may | 27 | 14.12564 | 14.10852 | -26.78027 | 21.78 |
| jun | 3 | 13.84969 | 13.83256 | -18.23519 | 21.04 | jun | 3 | 14.12563 | 14.10850 | -26.78036 | 21.32 |
| jun | 10 | 13.84969 | 13.83253 | -18.23524 | 20.58 | jun | 10 | 14.12563 | 14.10847 | -26.78049 | 20.86 |
| jun | 17 | 13.84967 | 13.83249 | -18.23518 | 20.12 | jun | 17 | 14.12561 | 14.10843 | -26.78051 | 20.40 |
| jun | 24 | 13.84966 | 13.83246 | -18.23518 | 19.66 | jun | 24 | 14.12560 | 14.10840 | -26.78058 | 19.94 |
| jul | 1 | 13.84964 | 13.83242 | -18.23510 | 19.20 | jul | 1 | 14.12558 | 14.10836 | -26.78056 | 19.48 |
| jul | 8 | 13.84963 | 13.83238 | -18.23509 | 18.74 | jul | 8 | 14.12557 | 14.10832 | -26.78059 | 19.02 |
| jul | 15 | 13.84959 | 13.83233 | -18.23495 | 18.28 | jul | 15 | 14.12553 | 14.10827 | -26.78050 | 18.56 |
| jul | 22 | 13.84958 | 13.83229 | -18.23490 | 17.82 | jul | 22 | 14.12552 | 14.10823 | -26.78048 | 18.10 |
| jul | 29 | 13.84955 | 13.83225 | -18.23475 | 17.36 | jul | 29 | 14.12548 | 14.10818 | -26.78035 | 17.64 |
| ago | 5 | 13.84953 | 13.83220 | -18.23469 | 16.90 | ago | 5 | 14.12546 | 14.10814 | -26.78029 | 17.18 |
| ago | 12 | 13.84949 | 13.83216 | -18.23450 | 16.44 | ago | 12 | 14.12542 | 14.10809 | -26.78010 | 16.72 |
| ago | 19 | 13.84948 | 13.83212 | -18.23441 | 15.98 | ago | 19 | 14.12540 | 14.10805 | -26.78000 | 16.26 |
| ago | 26 | 13.84945 | 13.83208 | -18.23423 | 15.52 | ago | 26 | 14.12537 | 14.10800 | -26.77979 | 15.80 |
| sep | 2 | 13.84943 | 13.83205 | -18.23414 | 15.06 | sep | 2 | 14.12534 | 14.10796 | -26.77967 | 15.34 |
| sep | 9 | 13.84940 | 13.83202 | -18.23394 | 14.60 | sep | 9 | 14.12531 | 14.10793 | -26.77942 | 14.88 |
| sep | 16 | 13.84939 | 13.83199 | -18.23386 | 14.14 | sep | 16 | 14.12530 | 14.10790 | -26.77928 | 14.42 |
| sep | 23 | 13.84938 | 13.83196 | -18.23370 | 13.68 | sep | 23 | 14.12528 | 14.10787 | -26.77905 | 13.96 |
| sep | 30 | 13.84937 | 13.83195 | -18.23364 | 13.22 | sep | 30 | 14.12527 | 14.10785 | -26.77891 | 13.50 |
| oct | 7 | 13.84936 | 13.83193 | -18.23350 | 12.76 | oct | 7 | 14.12526 | 14.10783 | -26.77869 | 13.04 |
| oct | 14 | 13.84937 | 13.83192 | -18.23349 | 12.30 | oct | 14 | 14.12526 | 14.10782 | -26.77858 | 12.58 |
| oct | 21 | 13.84938 | 13.83192 | -18.23344 | 11.84 | oct | 21 | 14.12527 | 14.10781 | -26.77842 | 12.12 |
| oct | 28 | 13.84940 | 13.83192 | -18.23347 | 11.38 | oct | 28 | 14.12529 | 14.10781 | -26.77835 | 11.66 |
| nov | 4 | 13.84942 | 13.83193 | -18.23345 | 10.92 | nov | 4 | 14.12530 | 14.10782 | -26.77823 | 11.20 |
| nov | 11 | 13.84945 | 13.83195 | -18.23356 | 10.46 | nov | 11 | 14.12534 | 14.10783 | -26.77823 | 10.74 |
| nov | 18 | 13.84949 | 13.83197 | -18.23366 | 10.00 | nov | 18 | 14.12538 | 14.10785 | -26.77822 | 10.28 |
| nov | 25 | 13.84954 | 13.83199 | -18.23383 | 9.54 | nov | 25 | 14.12542 | 14.10787 | -26.77829 | 9.82 |
| dic | 2 | 13.84959 | 13.83202 | -18.23399 | 9.08 | dic | 2 | 14.12547 | 14.10790 | -26.77834 | 9.36 |
| dic | 9 | 13.84964 | 13.83205 | -18.23426 | 8.62 | dic | 9 | 14.12552 | 14.10794 | -26.77851 | 8.90 |
| dic | 16 | 13.84971 | 13.83209 | -18.23452 | 8.16 | dic | 16 | 14.12559 | 14.10798 | -26.77868 | 8.44 |
| dic | 23 | 13.84976 | 13.83213 | -18.23484 | 7.70 | dic | 23 | 14.12565 | 14.10802 | -26.77892 | 7.98 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 68933 | | | | | | 71957 | | | | | |
|--------------|----|----------------|----------|-----------|-------|--------------|----|----------------|----------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 2.06 | | | K0IIIb | | | 3.87 | | | F2III | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 14.13062 | 14.11381 | -36.46280 | 7.44 | ene | 1 | 14.73479 | 14.71799 | -5.74237 | 8.04 |
| ene | 8 | 14.13069 | 14.11387 | -36.46299 | 6.98 | ene | 8 | 14.73485 | 14.71803 | -5.74269 | 7.58 |
| ene | 15 | 14.13077 | 14.11392 | -36.46334 | 6.52 | ene | 15 | 14.73492 | 14.71807 | -5.74312 | 7.12 |
| ene | 22 | 14.13084 | 14.11398 | -36.46362 | 6.06 | ene | 22 | 14.73498 | 14.71812 | -5.74345 | 6.66 |
| ene | 29 | 14.13092 | 14.11403 | -36.46401 | 5.60 | ene | 29 | 14.73504 | 14.71816 | -5.74383 | 6.20 |
| feb | 5 | 14.13098 | 14.11409 | -36.46435 | 5.14 | feb | 5 | 14.73510 | 14.71821 | -5.74411 | 5.74 |
| feb | 12 | 14.13105 | 14.11414 | -36.46480 | 4.68 | feb | 12 | 14.73517 | 14.71825 | -5.74448 | 5.28 |
| feb | 19 | 14.13112 | 14.11419 | -36.46519 | 4.22 | feb | 19 | 14.73522 | 14.71830 | -5.74473 | 4.82 |
| feb | 26 | 14.13118 | 14.11424 | -36.46563 | 3.76 | feb | 26 | 14.73528 | 14.71834 | -5.74500 | 4.36 |
| mar | 4 | 14.13124 | 14.11428 | -36.46603 | 3.30 | mar | 4 | 14.73533 | 14.71838 | -5.74517 | 3.90 |
| mar | 11 | 14.13129 | 14.11432 | -36.46649 | 2.84 | mar | 11 | 14.73538 | 14.71841 | -5.74539 | 3.44 |
| mar | 18 | 14.13134 | 14.11436 | -36.46691 | 2.38 | mar | 18 | 14.73543 | 14.71845 | -5.74552 | 2.98 |
| mar | 25 | 14.13137 | 14.11439 | -36.46733 | 1.92 | mar | 25 | 14.73546 | 14.71848 | -5.74564 | 2.52 |
| abr | 1 | 14.13141 | 14.11442 | -36.46772 | 1.46 | abr | 1 | 14.73550 | 14.71850 | -5.74568 | 2.06 |
| abr | 8 | 14.13144 | 14.11443 | -36.46813 | 1.00 | abr | 8 | 14.73553 | 14.71852 | -5.74576 | 1.61 |
| abr | 15 | 14.13147 | 14.11445 | -36.46852 | 0.54 | abr | 15 | 14.73557 | 14.71854 | -5.74578 | 1.15 |
| abr | 22 | 14.13148 | 14.11445 | -36.46886 | 0.08 | abr | 22 | 14.73558 | 14.71855 | -5.74576 | 0.69 |
| abr | 29 | 14.13151 | 14.11446 | -36.46919 | 23.62 | abr | 29 | 14.73561 | 14.71856 | -5.74571 | 0.23 |
| may | 6 | 14.13151 | 14.11445 | -36.46950 | 23.16 | may | 6 | 14.73562 | 14.71856 | -5.74567 | 23.77 |
| may | 13 | 14.13153 | 14.11444 | -36.46982 | 22.70 | may | 13 | 14.73564 | 14.71855 | -5.74563 | 23.31 |
| may | 20 | 14.13152 | 14.11442 | -36.47005 | 22.24 | may | 20 | 14.73564 | 14.71855 | -5.74553 | 22.85 |
| may | 27 | 14.13152 | 14.11440 | -36.47030 | 21.78 | may | 27 | 14.73565 | 14.71853 | -5.74544 | 22.39 |
| jun | 3 | 14.13151 | 14.11437 | -36.47049 | 21.32 | jun | 3 | 14.73565 | 14.71851 | -5.74533 | 21.93 |
| jun | 10 | 14.13151 | 14.11434 | -36.47070 | 20.86 | jun | 10 | 14.73566 | 14.71849 | -5.74526 | 21.47 |
| jun | 17 | 14.13148 | 14.11431 | -36.47081 | 20.40 | jun | 17 | 14.73564 | 14.71846 | -5.74513 | 21.01 |
| jun | 24 | 14.13147 | 14.11427 | -36.47094 | 19.94 | jun | 24 | 14.73564 | 14.71843 | -5.74504 | 20.55 |
| jul | 1 | 14.13144 | 14.11422 | -36.47098 | 19.48 | jul | 1 | 14.73562 | 14.71840 | -5.74491 | 20.09 |
| jul | 8 | 14.13143 | 14.11418 | -36.47107 | 19.02 | jul | 8 | 14.73561 | 14.71837 | -5.74485 | 19.63 |
| jul | 15 | 14.13139 | 14.11413 | -36.47102 | 18.56 | jul | 15 | 14.73559 | 14.71833 | -5.74471 | 19.17 |
| jul | 22 | 14.13137 | 14.11408 | -36.47103 | 18.10 | jul | 22 | 14.73557 | 14.71829 | -5.74465 | 18.71 |
| jul | 29 | 14.13133 | 14.11403 | -36.47091 | 17.64 | jul | 29 | 14.73554 | 14.71824 | -5.74452 | 18.25 |
| ago | 5 | 14.13130 | 14.11398 | -36.47086 | 17.18 | ago | 5 | 14.73553 | 14.71820 | -5.74449 | 17.79 |
| ago | 12 | 14.13126 | 14.11393 | -36.47066 | 16.72 | ago | 12 | 14.73549 | 14.71816 | -5.74436 | 17.33 |
| ago | 19 | 14.13123 | 14.11388 | -36.47054 | 16.26 | ago | 19 | 14.73547 | 14.71812 | -5.74434 | 16.87 |
| ago | 26 | 14.13119 | 14.11383 | -36.47030 | 15.80 | ago | 26 | 14.73544 | 14.71808 | -5.74424 | 16.41 |
| sep | 2 | 14.13117 | 14.11379 | -36.47012 | 15.34 | sep | 2 | 14.73542 | 14.71804 | -5.74425 | 15.95 |
| sep | 9 | 14.13113 | 14.11375 | -36.46982 | 14.88 | sep | 9 | 14.73539 | 14.71800 | -5.74417 | 15.49 |
| sep | 16 | 14.13111 | 14.11371 | -36.46962 | 14.42 | sep | 16 | 14.73537 | 14.71797 | -5.74421 | 15.03 |
| sep | 23 | 14.13109 | 14.11368 | -36.46931 | 13.96 | sep | 23 | 14.73535 | 14.71794 | -5.74417 | 14.57 |
| sep | 30 | 14.13108 | 14.11365 | -36.46908 | 13.50 | sep | 30 | 14.73533 | 14.71791 | -5.74425 | 14.11 |
| oct | 7 | 14.13107 | 14.11363 | -36.46876 | 13.04 | oct | 7 | 14.73532 | 14.71789 | -5.74425 | 13.65 |
| oct | 14 | 14.13107 | 14.11362 | -36.46856 | 12.58 | oct | 14 | 14.73532 | 14.71787 | -5.74438 | 13.19 |
| oct | 21 | 14.13108 | 14.11362 | -36.46829 | 12.12 | oct | 21 | 14.73531 | 14.71785 | -5.74445 | 12.73 |
| oct | 28 | 14.13109 | 14.11362 | -36.46811 | 11.66 | oct | 28 | 14.73532 | 14.71785 | -5.74462 | 12.27 |
| nov | 4 | 14.13111 | 14.11362 | -36.46788 | 11.20 | nov | 4 | 14.73533 | 14.71784 | -5.74473 | 11.81 |
| nov | 11 | 14.13114 | 14.11364 | -36.46778 | 10.74 | nov | 11 | 14.73535 | 14.71784 | -5.74499 | 11.35 |
| nov | 18 | 14.13119 | 14.11366 | -36.46765 | 10.28 | nov | 18 | 14.73538 | 14.71785 | -5.74520 | 10.89 |
| nov | 25 | 14.13123 | 14.11369 | -36.46762 | 9.82 | nov | 25 | 14.73541 | 14.71787 | -5.74549 | 10.43 |
| dic | 2 | 14.13129 | 14.11372 | -36.46758 | 9.36 | dic | 2 | 14.73545 | 14.71788 | -5.74574 | 9.97 |
| dic | 9 | 14.13135 | 14.11376 | -36.46765 | 8.90 | dic | 9 | 14.73550 | 14.71791 | -5.74610 | 9.51 |
| dic | 16 | 14.13142 | 14.11381 | -36.46774 | 8.44 | dic | 16 | 14.73555 | 14.71794 | -5.74642 | 9.05 |
| dic | 23 | 14.13148 | 14.11385 | -36.46790 | 7.98 | dic | 23 | 14.73560 | 14.71797 | -5.74680 | 8.59 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 73714 | | | | | | 74824 | | | | | |
|-------|----|----------|------------|-----------|-------|-------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.25 | | | M3/M4III | | | 4.07 | | | A3V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 15.08686 | 15.07005 | -25.35611 | 8.40 | ene | 1 | 15.31738 | 15.30058 | -58.86905 | 8.63 |
| ene | 8 | 15.08692 | 15.07010 | -25.35628 | 7.94 | ene | 8 | 15.31747 | 15.30065 | -58.86894 | 8.17 |
| ene | 15 | 15.08699 | 15.07015 | -25.35659 | 7.48 | ene | 15 | 15.31758 | 15.30074 | -58.86900 | 7.71 |
| ene | 22 | 15.08706 | 15.07019 | -25.35681 | 7.02 | ene | 22 | 15.31769 | 15.30083 | -58.86901 | 7.25 |
| ene | 29 | 15.08713 | 15.07025 | -25.35714 | 6.56 | ene | 29 | 15.31780 | 15.30092 | -58.86917 | 6.79 |
| feb | 5 | 15.08719 | 15.07030 | -25.35738 | 6.10 | feb | 5 | 15.31790 | 15.30101 | -58.86929 | 6.33 |
| feb | 12 | 15.08726 | 15.07035 | -25.35774 | 5.64 | feb | 12 | 15.31801 | 15.30110 | -58.86957 | 5.87 |
| feb | 19 | 15.08733 | 15.07040 | -25.35801 | 5.18 | feb | 19 | 15.31812 | 15.30119 | -58.86981 | 5.41 |
| feb | 26 | 15.08739 | 15.07045 | -25.35834 | 4.72 | feb | 26 | 15.31822 | 15.30128 | -58.87015 | 4.95 |
| mar | 4 | 15.08744 | 15.07049 | -25.35859 | 4.26 | mar | 4 | 15.31832 | 15.30137 | -58.87046 | 4.49 |
| mar | 11 | 15.08750 | 15.07054 | -25.35892 | 3.80 | mar | 11 | 15.31841 | 15.30145 | -58.87090 | 4.03 |
| mar | 18 | 15.08756 | 15.07058 | -25.35918 | 3.34 | mar | 18 | 15.31851 | 15.30153 | -58.87130 | 3.57 |
| mar | 25 | 15.08760 | 15.07061 | -25.35946 | 2.88 | mar | 25 | 15.31858 | 15.30160 | -58.87176 | 3.11 |
| abr | 1 | 15.08764 | 15.07065 | -25.35967 | 2.42 | abr | 1 | 15.31866 | 15.30166 | -58.87219 | 2.65 |
| abr | 8 | 15.08768 | 15.07068 | -25.35993 | 1.96 | abr | 8 | 15.31872 | 15.30172 | -58.87271 | 2.19 |
| abr | 15 | 15.08773 | 15.07070 | -25.36015 | 1.50 | abr | 15 | 15.31880 | 15.30177 | -58.87320 | 1.73 |
| abr | 22 | 15.08775 | 15.07072 | -25.36034 | 1.04 | abr | 22 | 15.31884 | 15.30181 | -58.87371 | 1.27 |
| abr | 29 | 15.08778 | 15.07073 | -25.36051 | 0.58 | abr | 29 | 15.31890 | 15.30185 | -58.87419 | 0.81 |
| may | 6 | 15.08780 | 15.07074 | -25.36069 | 0.12 | may | 6 | 15.31893 | 15.30186 | -58.87471 | 0.35 |
| may | 13 | 15.08783 | 15.07074 | -25.36086 | 23.66 | may | 13 | 15.31897 | 15.30189 | -58.87522 | 23.89 |
| may | 20 | 15.08784 | 15.07074 | -25.36098 | 23.20 | may | 20 | 15.31898 | 15.30188 | -58.87570 | 23.43 |
| may | 27 | 15.08785 | 15.07073 | -25.36110 | 22.74 | may | 27 | 15.31901 | 15.30189 | -58.87617 | 22.97 |
| jun | 3 | 15.08785 | 15.07072 | -25.36120 | 22.28 | jun | 3 | 15.31900 | 15.30187 | -58.87662 | 22.51 |
| jun | 10 | 15.08786 | 15.07070 | -25.36132 | 21.82 | jun | 10 | 15.31901 | 15.30185 | -58.87707 | 22.05 |
| jun | 17 | 15.08785 | 15.07067 | -25.36137 | 21.36 | jun | 17 | 15.31899 | 15.30181 | -58.87745 | 21.59 |
| jun | 24 | 15.08785 | 15.07065 | -25.36144 | 20.90 | jun | 24 | 15.31898 | 15.30178 | -58.87783 | 21.13 |
| jul | 1 | 15.08783 | 15.07061 | -25.36146 | 20.44 | jul | 1 | 15.31894 | 15.30172 | -58.87813 | 20.67 |
| jul | 8 | 15.08783 | 15.07058 | -25.36153 | 19.98 | jul | 8 | 15.31892 | 15.30167 | -58.87845 | 20.21 |
| jul | 15 | 15.08780 | 15.07054 | -25.36149 | 19.52 | jul | 15 | 15.31887 | 15.30161 | -58.87865 | 19.75 |
| jul | 22 | 15.08778 | 15.07050 | -25.36151 | 19.06 | jul | 22 | 15.31883 | 15.30154 | -58.87887 | 19.29 |
| jul | 29 | 15.08775 | 15.07045 | -25.36144 | 18.60 | jul | 29 | 15.31877 | 15.30147 | -58.87896 | 18.83 |
| ago | 5 | 15.08773 | 15.07041 | -25.36144 | 18.14 | ago | 5 | 15.31872 | 15.30140 | -58.87909 | 18.37 |
| ago | 12 | 15.08769 | 15.07036 | -25.36132 | 17.68 | ago | 12 | 15.31865 | 15.30132 | -58.87906 | 17.91 |
| ago | 19 | 15.08767 | 15.07032 | -25.36128 | 17.22 | ago | 19 | 15.31859 | 15.30124 | -58.87906 | 17.45 |
| ago | 26 | 15.08763 | 15.07027 | -25.36114 | 16.76 | ago | 26 | 15.31852 | 15.30116 | -58.87893 | 16.99 |
| sep | 2 | 15.08761 | 15.07023 | -25.36108 | 16.30 | sep | 2 | 15.31846 | 15.30108 | -58.87883 | 16.53 |
| sep | 9 | 15.08757 | 15.07018 | -25.36090 | 15.84 | sep | 9 | 15.31839 | 15.30101 | -58.87857 | 16.07 |
| sep | 16 | 15.08755 | 15.07014 | -25.36081 | 15.38 | sep | 16 | 15.31834 | 15.30094 | -58.87836 | 15.61 |
| sep | 23 | 15.08752 | 15.07011 | -25.36063 | 14.92 | sep | 23 | 15.31828 | 15.30087 | -58.87802 | 15.15 |
| sep | 30 | 15.08750 | 15.07007 | -25.36054 | 14.46 | sep | 30 | 15.31824 | 15.30082 | -58.87773 | 14.69 |
| oct | 7 | 15.08748 | 15.07005 | -25.36035 | 14.00 | oct | 7 | 15.31820 | 15.30077 | -58.87730 | 14.23 |
| oct | 14 | 15.08747 | 15.07002 | -25.36028 | 13.54 | oct | 14 | 15.31817 | 15.30072 | -58.87696 | 13.77 |
| oct | 21 | 15.08747 | 15.07001 | -25.36012 | 13.08 | oct | 21 | 15.31816 | 15.30069 | -58.87650 | 13.31 |
| oct | 28 | 15.08747 | 15.06999 | -25.36008 | 12.62 | oct | 28 | 15.31815 | 15.30067 | -58.87612 | 12.85 |
| nov | 4 | 15.08748 | 15.06999 | -25.35995 | 12.16 | nov | 4 | 15.31815 | 15.30066 | -58.87565 | 12.39 |
| nov | 11 | 15.08749 | 15.06999 | -25.35997 | 11.70 | nov | 11 | 15.31817 | 15.30066 | -58.87529 | 11.93 |
| nov | 18 | 15.08752 | 15.06999 | -25.35991 | 11.24 | nov | 18 | 15.31821 | 15.30068 | -58.87486 | 11.47 |
| nov | 25 | 15.08755 | 15.07001 | -25.35996 | 10.78 | nov | 25 | 15.31824 | 15.30070 | -58.87453 | 11.01 |
| dic | 2 | 15.08759 | 15.07003 | -25.35996 | 10.32 | dic | 2 | 15.31830 | 15.30074 | -58.87416 | 10.55 |
| dic | 9 | 15.08764 | 15.07005 | -25.36009 | 9.86 | dic | 9 | 15.31836 | 15.30078 | -58.87392 | 10.09 |
| dic | 16 | 15.08770 | 15.07008 | -25.36019 | 9.40 | dic | 16 | 15.31845 | 15.30084 | -58.87365 | 9.63 |
| dic | 23 | 15.08775 | 15.07012 | -25.36037 | 8.94 | dic | 23 | 15.31853 | 15.30090 | -58.87350 | 9.17 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 75458 | | | | | | 76440 | | | | | |
|-------|----|----------|------------|----------|-------|-------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.29 | | | K2III | | | 4.11 | | | K0III | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 15.42231 | 15.40550 | 58.89414 | 8.73 | ene | 1 | 15.64175 | 15.62495 | -66.37712 | 8.95 |
| ene | 8 | 15.42238 | 15.40556 | 58.89361 | 8.27 | ene | 8 | 15.64186 | 15.62504 | -66.37690 | 8.49 |
| ene | 15 | 15.42247 | 15.40563 | 58.89303 | 7.81 | ene | 15 | 15.64199 | 15.62515 | -66.37686 | 8.03 |
| ene | 22 | 15.42256 | 15.40570 | 58.89262 | 7.35 | ene | 22 | 15.64213 | 15.62526 | -66.37678 | 7.57 |
| ene | 29 | 15.42266 | 15.40578 | 58.89221 | 6.89 | ene | 29 | 15.64226 | 15.62538 | -66.37685 | 7.11 |
| feb | 5 | 15.42275 | 15.40586 | 58.89198 | 6.43 | feb | 5 | 15.64239 | 15.62550 | -66.37688 | 6.65 |
| feb | 12 | 15.42286 | 15.40594 | 58.89173 | 5.97 | feb | 12 | 15.64253 | 15.62562 | -66.37709 | 6.19 |
| feb | 19 | 15.42295 | 15.40602 | 58.89166 | 5.51 | feb | 19 | 15.64267 | 15.62574 | -66.37725 | 5.73 |
| feb | 26 | 15.42305 | 15.40611 | 58.89162 | 5.05 | feb | 26 | 15.64280 | 15.62586 | -66.37754 | 5.27 |
| mar | 4 | 15.42313 | 15.40618 | 58.89176 | 4.59 | mar | 4 | 15.64293 | 15.62597 | -66.37780 | 4.81 |
| mar | 11 | 15.42323 | 15.40626 | 58.89188 | 4.13 | mar | 11 | 15.64304 | 15.62608 | -66.37820 | 4.35 |
| mar | 18 | 15.42330 | 15.40633 | 58.89215 | 3.67 | mar | 18 | 15.64317 | 15.62619 | -66.37856 | 3.89 |
| mar | 25 | 15.42338 | 15.40640 | 58.89247 | 3.21 | mar | 25 | 15.64327 | 15.62629 | -66.37901 | 3.43 |
| abr | 1 | 15.42344 | 15.40645 | 58.89291 | 2.75 | abr | 1 | 15.64338 | 15.62639 | -66.37943 | 2.97 |
| abr | 8 | 15.42350 | 15.40650 | 58.89333 | 2.29 | abr | 8 | 15.64347 | 15.62646 | -66.37996 | 2.51 |
| abr | 15 | 15.42355 | 15.40653 | 58.89384 | 1.83 | abr | 15 | 15.64357 | 15.62655 | -66.38046 | 2.05 |
| abr | 22 | 15.42359 | 15.40656 | 58.89438 | 1.37 | abr | 22 | 15.64363 | 15.62660 | -66.38099 | 1.59 |
| abr | 29 | 15.42362 | 15.40657 | 58.89498 | 0.91 | abr | 29 | 15.64371 | 15.62666 | -66.38151 | 1.13 |
| may | 6 | 15.42364 | 15.40658 | 58.89555 | 0.45 | may | 6 | 15.64376 | 15.62669 | -66.38207 | 0.67 |
| may | 13 | 15.42366 | 15.40657 | 58.89614 | 23.99 | may | 13 | 15.64382 | 15.62673 | -66.38262 | 0.21 |
| may | 20 | 15.42366 | 15.40656 | 58.89675 | 23.53 | may | 20 | 15.64384 | 15.62674 | -66.38316 | 23.75 |
| may | 27 | 15.42365 | 15.40653 | 58.89734 | 23.07 | may | 27 | 15.64388 | 15.62675 | -66.38369 | 23.29 |
| jun | 3 | 15.42364 | 15.40650 | 58.89790 | 22.61 | jun | 3 | 15.64387 | 15.62674 | -66.38422 | 22.83 |
| jun | 10 | 15.42362 | 15.40645 | 58.89840 | 22.15 | jun | 10 | 15.64389 | 15.62673 | -66.38473 | 22.37 |
| jun | 17 | 15.42358 | 15.40640 | 58.89892 | 21.69 | jun | 17 | 15.64387 | 15.62669 | -66.38519 | 21.91 |
| jun | 24 | 15.42355 | 15.40634 | 58.89935 | 21.23 | jun | 24 | 15.64386 | 15.62665 | -66.38564 | 21.45 |
| jul | 1 | 15.42350 | 15.40628 | 58.89976 | 20.77 | jul | 1 | 15.64381 | 15.62659 | -66.38604 | 20.99 |
| jul | 8 | 15.42345 | 15.40620 | 58.90006 | 20.31 | jul | 8 | 15.64379 | 15.62654 | -66.38643 | 20.53 |
| jul | 15 | 15.42339 | 15.40613 | 58.90037 | 19.85 | jul | 15 | 15.64372 | 15.62646 | -66.38671 | 20.07 |
| jul | 22 | 15.42333 | 15.40604 | 58.90056 | 19.39 | jul | 22 | 15.64367 | 15.62638 | -66.38701 | 19.61 |
| jul | 29 | 15.42326 | 15.40596 | 58.90073 | 18.93 | jul | 29 | 15.64359 | 15.62629 | -66.38718 | 19.15 |
| ago | 5 | 15.42319 | 15.40587 | 58.90077 | 18.47 | ago | 5 | 15.64352 | 15.62620 | -66.38738 | 18.69 |
| ago | 12 | 15.42312 | 15.40579 | 58.90083 | 18.01 | ago | 12 | 15.64343 | 15.62610 | -66.38742 | 18.23 |
| ago | 19 | 15.42305 | 15.40570 | 58.90072 | 17.55 | ago | 19 | 15.64335 | 15.62600 | -66.38748 | 17.77 |
| ago | 26 | 15.42297 | 15.40561 | 58.90063 | 17.09 | ago | 26 | 15.64326 | 15.62590 | -66.38740 | 17.31 |
| sep | 2 | 15.42290 | 15.40552 | 58.90038 | 16.63 | sep | 2 | 15.64318 | 15.62580 | -66.38734 | 16.85 |
| sep | 9 | 15.42283 | 15.40544 | 58.90017 | 16.17 | sep | 9 | 15.64308 | 15.62570 | -66.38712 | 16.39 |
| sep | 16 | 15.42276 | 15.40536 | 58.89979 | 15.71 | sep | 16 | 15.64301 | 15.62561 | -66.38695 | 15.93 |
| sep | 23 | 15.42269 | 15.40528 | 58.89943 | 15.25 | sep | 23 | 15.64293 | 15.62552 | -66.38661 | 15.47 |
| sep | 30 | 15.42264 | 15.40521 | 58.89892 | 14.79 | sep | 30 | 15.64286 | 15.62544 | -66.38633 | 15.01 |
| oct | 7 | 15.42258 | 15.40515 | 58.89847 | 14.33 | oct | 7 | 15.64280 | 15.62537 | -66.38589 | 14.55 |
| oct | 14 | 15.42254 | 15.40509 | 58.89784 | 13.87 | oct | 14 | 15.64276 | 15.62531 | -66.38553 | 14.09 |
| oct | 21 | 15.42250 | 15.40504 | 58.89727 | 13.41 | oct | 21 | 15.64272 | 15.62526 | -66.38504 | 13.63 |
| oct | 28 | 15.42248 | 15.40500 | 58.89656 | 12.95 | oct | 28 | 15.64270 | 15.62523 | -66.38463 | 13.17 |
| nov | 4 | 15.42245 | 15.40497 | 58.89593 | 12.49 | nov | 4 | 15.64269 | 15.62521 | -66.38409 | 12.71 |
| nov | 11 | 15.42245 | 15.40495 | 58.89515 | 12.03 | nov | 11 | 15.64270 | 15.62520 | -66.38367 | 12.25 |
| nov | 18 | 15.42246 | 15.40493 | 58.89445 | 11.57 | nov | 18 | 15.64274 | 15.62521 | -66.38317 | 11.79 |
| nov | 25 | 15.42248 | 15.40493 | 58.89366 | 11.11 | nov | 25 | 15.64278 | 15.62523 | -66.38276 | 11.33 |
| dic | 2 | 15.42250 | 15.40493 | 58.89296 | 10.65 | dic | 2 | 15.64284 | 15.62527 | -66.38229 | 10.87 |
| dic | 9 | 15.42254 | 15.40496 | 58.89217 | 10.19 | dic | 9 | 15.64291 | 15.62532 | -66.38196 | 10.41 |
| dic | 16 | 15.42259 | 15.40498 | 58.89147 | 9.73 | dic | 16 | 15.64300 | 15.62539 | -66.38159 | 9.95 |
| dic | 23 | 15.42266 | 15.40502 | 58.89075 | 9.27 | dic | 23 | 15.64309 | 15.62546 | -66.38134 | 9.49 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 77622 | | | | | | 81724 | | | | | |
|-------|----|----------|------------|----------|-------|-------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.71 | | | A2m | | | 4.91 | | | G8II/III | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 15.86301 | 15.84621 | 4.41945 | 9.17 | ene | 1 | 16.71153 | 16.69473 | -17.77776 | 10.02 |
| ene | 8 | 15.86306 | 15.84624 | 4.41910 | 8.71 | ene | 8 | 16.71158 | 16.69476 | -17.77788 | 9.56 |
| ene | 15 | 15.86312 | 15.84628 | 4.41864 | 8.25 | ene | 15 | 16.71164 | 16.69479 | -17.77812 | 9.10 |
| ene | 22 | 15.86318 | 15.84632 | 4.41831 | 7.79 | ene | 22 | 16.71169 | 16.69483 | -17.77827 | 8.64 |
| ene | 29 | 15.86324 | 15.84636 | 4.41791 | 7.33 | ene | 29 | 16.71175 | 16.69487 | -17.77851 | 8.18 |
| feb | 5 | 15.86330 | 15.84640 | 4.41764 | 6.87 | feb | 5 | 16.71181 | 16.69491 | -17.77866 | 7.72 |
| feb | 12 | 15.86336 | 15.84645 | 4.41729 | 6.41 | feb | 12 | 16.71187 | 16.69496 | -17.77891 | 7.26 |
| feb | 19 | 15.86342 | 15.84649 | 4.41709 | 5.95 | feb | 19 | 16.71194 | 16.69501 | -17.77904 | 6.80 |
| feb | 26 | 15.86348 | 15.84654 | 4.41685 | 5.49 | feb | 26 | 16.71200 | 16.69506 | -17.77926 | 6.34 |
| mar | 4 | 15.86353 | 15.84658 | 4.41675 | 5.03 | mar | 4 | 16.71206 | 16.69511 | -17.77936 | 5.88 |
| mar | 11 | 15.86359 | 15.84663 | 4.41659 | 4.57 | mar | 11 | 16.71212 | 16.69516 | -17.77956 | 5.42 |
| mar | 18 | 15.86365 | 15.84667 | 4.41656 | 4.11 | mar | 18 | 16.71218 | 16.69521 | -17.77964 | 4.96 |
| mar | 25 | 15.86369 | 15.84671 | 4.41653 | 3.65 | mar | 25 | 16.71224 | 16.69525 | -17.77978 | 4.50 |
| abr | 1 | 15.86374 | 15.84674 | 4.41660 | 3.19 | abr | 1 | 16.71229 | 16.69530 | -17.77982 | 4.04 |
| abr | 8 | 15.86378 | 15.84677 | 4.41664 | 2.73 | abr | 8 | 16.71234 | 16.69534 | -17.77993 | 3.58 |
| abr | 15 | 15.86382 | 15.84680 | 4.41676 | 2.27 | abr | 15 | 16.71240 | 16.69538 | -17.77996 | 3.12 |
| abr | 22 | 15.86385 | 15.84682 | 4.41689 | 1.81 | abr | 22 | 16.71244 | 16.69541 | -17.78001 | 2.66 |
| abr | 29 | 15.86389 | 15.84684 | 4.41709 | 1.35 | abr | 29 | 16.71249 | 16.69544 | -17.78000 | 2.20 |
| may | 6 | 15.86391 | 15.84685 | 4.41726 | 0.89 | may | 6 | 16.71253 | 16.69546 | -17.78005 | 1.74 |
| may | 13 | 15.86395 | 15.84686 | 4.41747 | 0.43 | may | 13 | 16.71257 | 16.69549 | -17.78004 | 1.28 |
| may | 20 | 15.86396 | 15.84686 | 4.41770 | 23.97 | may | 20 | 16.71260 | 16.69550 | -17.78004 | 0.82 |
| may | 27 | 15.86398 | 15.84686 | 4.41794 | 23.51 | may | 27 | 16.71263 | 16.69551 | -17.78001 | 0.36 |
| jun | 3 | 15.86399 | 15.84685 | 4.41816 | 23.05 | jun | 3 | 16.71265 | 16.69551 | -17.78002 | 23.90 |
| jun | 10 | 15.86400 | 15.84684 | 4.41838 | 22.59 | jun | 10 | 16.71268 | 16.69552 | -17.78001 | 23.44 |
| jun | 17 | 15.86400 | 15.84682 | 4.41862 | 22.13 | jun | 17 | 16.71269 | 16.69551 | -17.77999 | 22.98 |
| jun | 24 | 15.86400 | 15.84680 | 4.41883 | 21.67 | jun | 24 | 16.71270 | 16.69550 | -17.77997 | 22.52 |
| jul | 1 | 15.86399 | 15.84677 | 4.41905 | 21.21 | jul | 1 | 16.71270 | 16.69548 | -17.77995 | 22.06 |
| jul | 8 | 15.86399 | 15.84674 | 4.41920 | 20.75 | jul | 8 | 16.71271 | 16.69546 | -17.77996 | 21.60 |
| jul | 15 | 15.86397 | 15.84671 | 4.41941 | 20.29 | jul | 15 | 16.71269 | 16.69543 | -17.77993 | 21.14 |
| jul | 22 | 15.86396 | 15.84667 | 4.41954 | 19.83 | jul | 22 | 16.71269 | 16.69540 | -17.77993 | 20.68 |
| jul | 29 | 15.86393 | 15.84663 | 4.41970 | 19.37 | jul | 29 | 16.71267 | 16.69537 | -17.77989 | 20.22 |
| ago | 5 | 15.86392 | 15.84659 | 4.41977 | 18.91 | ago | 5 | 16.71266 | 16.69533 | -17.77991 | 19.76 |
| ago | 12 | 15.86388 | 15.84655 | 4.41990 | 18.45 | ago | 12 | 16.71262 | 16.69529 | -17.77986 | 19.30 |
| ago | 19 | 15.86386 | 15.84651 | 4.41993 | 17.99 | ago | 19 | 16.71260 | 16.69525 | -17.77987 | 18.84 |
| ago | 26 | 15.86382 | 15.84646 | 4.42001 | 17.53 | ago | 26 | 16.71257 | 16.69521 | -17.77981 | 18.38 |
| sep | 2 | 15.86380 | 15.84642 | 4.41997 | 17.07 | sep | 2 | 16.71254 | 16.69516 | -17.77983 | 17.92 |
| sep | 9 | 15.86376 | 15.84637 | 4.42001 | 16.61 | sep | 9 | 16.71250 | 16.69512 | -17.77976 | 17.46 |
| sep | 16 | 15.86374 | 15.84633 | 4.41993 | 16.15 | sep | 16 | 16.71247 | 16.69507 | -17.77978 | 17.00 |
| sep | 23 | 15.86370 | 15.84629 | 4.41990 | 15.69 | sep | 23 | 16.71244 | 16.69503 | -17.77970 | 16.54 |
| sep | 30 | 15.86368 | 15.84626 | 4.41975 | 15.23 | sep | 30 | 16.71241 | 16.69499 | -17.77972 | 16.08 |
| oct | 7 | 15.86365 | 15.84622 | 4.41968 | 14.77 | oct | 7 | 16.71237 | 16.69494 | -17.77964 | 15.62 |
| oct | 14 | 15.86364 | 15.84619 | 4.41947 | 14.31 | oct | 14 | 16.71236 | 16.69491 | -17.77967 | 15.16 |
| oct | 21 | 15.86363 | 15.84616 | 4.41932 | 13.85 | oct | 21 | 16.71233 | 16.69487 | -17.77961 | 14.70 |
| oct | 28 | 15.86362 | 15.84614 | 4.41904 | 13.39 | oct | 28 | 16.71232 | 16.69485 | -17.77966 | 14.24 |
| nov | 4 | 15.86361 | 15.84613 | 4.41885 | 12.93 | nov | 4 | 16.71231 | 16.69482 | -17.77961 | 13.78 |
| nov | 11 | 15.86362 | 15.84612 | 4.41851 | 12.47 | nov | 11 | 16.71231 | 16.69480 | -17.77969 | 13.32 |
| nov | 18 | 15.86364 | 15.84611 | 4.41823 | 12.01 | nov | 18 | 16.71232 | 16.69479 | -17.77968 | 12.86 |
| nov | 25 | 15.86365 | 15.84611 | 4.41784 | 11.55 | nov | 25 | 16.71233 | 16.69478 | -17.77979 | 12.40 |
| dic | 2 | 15.86368 | 15.84611 | 4.41753 | 11.09 | dic | 2 | 16.71234 | 16.69478 | -17.77979 | 11.94 |
| dic | 9 | 15.86371 | 15.84612 | 4.41709 | 10.63 | dic | 9 | 16.71237 | 16.69478 | -17.77996 | 11.48 |
| dic | 16 | 15.86375 | 15.84614 | 4.41672 | 10.17 | dic | 16 | 16.71241 | 16.69479 | -17.78004 | 11.02 |
| dic | 23 | 15.86379 | 15.84616 | 4.41627 | 9.71 | dic | 23 | 16.71244 | 16.69481 | -17.78023 | 10.56 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 81833 | | | | | | 82396 | | | | | |
|--------------|----|----------------|----------|----------|-------|--------------|----|----------------|----------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.48 | | | G8III-IV | | | 2.29 | | | K2IIIb | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 16.72575 | 16.70895 | 38.88417 | 10.03 | ene | 1 | 16.85693 | 16.84013 | -34.32565 | 10.17 |
| ene | 8 | 16.72579 | 16.70897 | 38.88359 | 9.57 | ene | 8 | 16.85698 | 16.84016 | -34.32559 | 9.71 |
| ene | 15 | 16.72585 | 16.70900 | 38.88294 | 9.11 | ene | 15 | 16.85705 | 16.84020 | -34.32566 | 9.25 |
| ene | 22 | 16.72590 | 16.70904 | 38.88243 | 8.66 | ene | 22 | 16.85711 | 16.84025 | -34.32564 | 8.79 |
| ene | 29 | 16.72596 | 16.70908 | 38.88188 | 8.20 | ene | 29 | 16.85718 | 16.84030 | -34.32575 | 8.33 |
| feb | 5 | 16.72603 | 16.70913 | 38.88151 | 7.74 | feb | 5 | 16.85724 | 16.84035 | -34.32578 | 7.87 |
| feb | 12 | 16.72609 | 16.70918 | 38.88108 | 7.28 | feb | 12 | 16.85732 | 16.84040 | -34.32594 | 7.41 |
| feb | 19 | 16.72616 | 16.70923 | 38.88084 | 6.82 | feb | 19 | 16.85739 | 16.84046 | -34.32600 | 6.95 |
| feb | 26 | 16.72623 | 16.70929 | 38.88058 | 6.36 | feb | 26 | 16.85746 | 16.84052 | -34.32617 | 6.49 |
| mar | 4 | 16.72630 | 16.70934 | 38.88051 | 5.90 | mar | 4 | 16.85753 | 16.84057 | -34.32625 | 6.03 |
| mar | 11 | 16.72637 | 16.70940 | 38.88041 | 5.44 | mar | 11 | 16.85760 | 16.84063 | -34.32645 | 5.57 |
| mar | 18 | 16.72643 | 16.70945 | 38.88049 | 4.98 | mar | 18 | 16.85767 | 16.84069 | -34.32656 | 5.11 |
| mar | 25 | 16.72649 | 16.70951 | 38.88058 | 4.52 | mar | 25 | 16.85773 | 16.84075 | -34.32674 | 4.65 |
| abr | 1 | 16.72655 | 16.70956 | 38.88083 | 4.06 | abr | 1 | 16.85780 | 16.84080 | -34.32685 | 4.19 |
| abr | 8 | 16.72661 | 16.70960 | 38.88105 | 3.60 | abr | 8 | 16.85786 | 16.84085 | -34.32706 | 3.73 |
| abr | 15 | 16.72666 | 16.70964 | 38.88141 | 3.14 | abr | 15 | 16.85792 | 16.84090 | -34.32720 | 3.27 |
| abr | 22 | 16.72671 | 16.70968 | 38.88178 | 2.68 | abr | 22 | 16.85797 | 16.84094 | -34.32739 | 2.81 |
| abr | 29 | 16.72675 | 16.70970 | 38.88226 | 2.22 | abr | 29 | 16.85803 | 16.84098 | -34.32752 | 2.35 |
| may | 6 | 16.72679 | 16.70973 | 38.88270 | 1.76 | may | 6 | 16.85807 | 16.84101 | -34.32772 | 1.89 |
| may | 13 | 16.72683 | 16.70974 | 38.88322 | 1.30 | may | 13 | 16.85812 | 16.84104 | -34.32788 | 1.43 |
| may | 20 | 16.72685 | 16.70975 | 38.88374 | 0.84 | may | 20 | 16.85815 | 16.84106 | -34.32806 | 0.97 |
| may | 27 | 16.72688 | 16.70975 | 38.88431 | 0.38 | may | 27 | 16.85820 | 16.84107 | -34.32821 | 0.51 |
| jun | 3 | 16.72689 | 16.70975 | 38.88484 | 23.92 | jun | 3 | 16.85822 | 16.84108 | -34.32841 | 0.05 |
| jun | 10 | 16.72690 | 16.70974 | 38.88537 | 23.46 | jun | 10 | 16.85825 | 16.84109 | -34.32858 | 23.59 |
| jun | 17 | 16.72690 | 16.70972 | 38.88590 | 23.00 | jun | 17 | 16.85826 | 16.84108 | -34.32875 | 23.13 |
| jun | 24 | 16.72690 | 16.70970 | 38.88641 | 22.54 | jun | 24 | 16.85828 | 16.84108 | -34.32891 | 22.67 |
| jul | 1 | 16.72689 | 16.70967 | 38.88689 | 22.08 | jul | 1 | 16.85828 | 16.84106 | -34.32908 | 22.21 |
| jul | 8 | 16.72688 | 16.70963 | 38.88731 | 21.62 | jul | 8 | 16.85829 | 16.84104 | -34.32925 | 21.75 |
| jul | 15 | 16.72686 | 16.70960 | 38.88774 | 21.16 | jul | 15 | 16.85827 | 16.84101 | -34.32937 | 21.29 |
| jul | 22 | 16.72684 | 16.70955 | 38.88809 | 20.70 | jul | 22 | 16.85827 | 16.84098 | -34.32952 | 20.83 |
| jul | 29 | 16.72680 | 16.70950 | 38.88842 | 20.24 | jul | 29 | 16.85824 | 16.84094 | -34.32961 | 20.37 |
| ago | 5 | 16.72677 | 16.70945 | 38.88865 | 19.78 | ago | 5 | 16.85823 | 16.84091 | -34.32974 | 19.91 |
| ago | 12 | 16.72672 | 16.70939 | 38.88889 | 19.32 | ago | 12 | 16.85819 | 16.84086 | -34.32979 | 19.45 |
| ago | 19 | 16.72669 | 16.70933 | 38.88901 | 18.86 | ago | 19 | 16.85817 | 16.84082 | -34.32987 | 18.99 |
| ago | 26 | 16.72664 | 16.70928 | 38.88913 | 18.40 | ago | 26 | 16.85813 | 16.84077 | -34.32987 | 18.53 |
| sep | 2 | 16.72659 | 16.70921 | 38.88911 | 17.94 | sep | 2 | 16.85810 | 16.84072 | -34.32992 | 18.07 |
| sep | 9 | 16.72654 | 16.70916 | 38.88913 | 17.48 | sep | 9 | 16.85805 | 16.84066 | -34.32986 | 17.61 |
| sep | 16 | 16.72650 | 16.70909 | 38.88900 | 17.02 | sep | 16 | 16.85802 | 16.84061 | -34.32986 | 17.15 |
| sep | 23 | 16.72645 | 16.70903 | 38.88888 | 16.56 | sep | 23 | 16.85797 | 16.84056 | -34.32975 | 16.69 |
| sep | 30 | 16.72640 | 16.70898 | 38.88861 | 16.10 | sep | 30 | 16.85794 | 16.84051 | -34.32971 | 16.23 |
| oct | 7 | 16.72636 | 16.70892 | 38.88839 | 15.64 | oct | 7 | 16.85790 | 16.84047 | -34.32955 | 15.77 |
| oct | 14 | 16.72632 | 16.70887 | 38.88801 | 15.18 | oct | 14 | 16.85787 | 16.84042 | -34.32948 | 15.31 |
| oct | 21 | 16.72628 | 16.70882 | 38.88766 | 14.72 | oct | 21 | 16.85785 | 16.84039 | -34.32929 | 14.85 |
| oct | 28 | 16.72626 | 16.70878 | 38.88716 | 14.26 | oct | 28 | 16.85783 | 16.84035 | -34.32920 | 14.39 |
| nov | 4 | 16.72623 | 16.70874 | 38.88672 | 13.80 | nov | 4 | 16.85781 | 16.84032 | -34.32899 | 13.93 |
| nov | 11 | 16.72622 | 16.70871 | 38.88613 | 13.34 | nov | 11 | 16.85781 | 16.84030 | -34.32889 | 13.47 |
| nov | 18 | 16.72621 | 16.70868 | 38.88559 | 12.88 | nov | 18 | 16.85782 | 16.84029 | -34.32870 | 13.01 |
| nov | 25 | 16.72621 | 16.70866 | 38.88492 | 12.42 | nov | 25 | 16.85783 | 16.84028 | -34.32861 | 12.55 |
| dic | 2 | 16.72622 | 16.70865 | 38.88434 | 11.96 | dic | 2 | 16.85784 | 16.84028 | -34.32844 | 12.09 |
| dic | 9 | 16.72623 | 16.70865 | 38.88362 | 11.50 | dic | 9 | 16.85787 | 16.84029 | -34.32839 | 11.63 |
| dic | 16 | 16.72626 | 16.70865 | 38.88299 | 11.04 | dic | 16 | 16.85791 | 16.84030 | -34.32825 | 11.17 |
| dic | 23 | 16.72629 | 16.70866 | 38.88228 | 10.58 | dic | 23 | 16.85795 | 16.84032 | -34.32823 | 10.71 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 86796 | | | | | | 91262 | | | | | |
|--------------|----|----------|------------|-----------|-------|--------------|----|----------|------------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 5.12 | | | G5V | | | 0.03 | | | AOVvar | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 17.76121 | 17.74441 | -51.84106 | 11.07 | ene | 1 | 18.62627 | 18.60946 | 38.80313 | 11.94 |
| ene | 8 | 17.76126 | 17.74444 | -51.84074 | 10.61 | ene | 8 | 18.62628 | 18.60946 | 38.80254 | 11.48 |
| ene | 15 | 17.76133 | 17.74448 | -51.84055 | 10.15 | ene | 15 | 18.62631 | 18.60947 | 38.80187 | 11.02 |
| ene | 22 | 17.76140 | 17.74453 | -51.84027 | 9.69 | ene | 22 | 18.62634 | 18.60948 | 38.80131 | 10.56 |
| ene | 29 | 17.76147 | 17.74459 | -51.84013 | 9.23 | ene | 29 | 18.62638 | 18.60950 | 38.80068 | 10.10 |
| feb | 5 | 17.76155 | 17.74465 | -51.83992 | 8.77 | feb | 5 | 18.62643 | 18.60953 | 38.80019 | 9.64 |
| feb | 12 | 17.76164 | 17.74473 | -51.83985 | 8.31 | feb | 12 | 18.62648 | 18.60956 | 38.79965 | 9.18 |
| feb | 19 | 17.76173 | 17.74480 | -51.83970 | 7.85 | feb | 19 | 18.62653 | 18.60960 | 38.79927 | 8.72 |
| feb | 26 | 17.76181 | 17.74487 | -51.83969 | 7.39 | feb | 26 | 18.62659 | 18.60965 | 38.79885 | 8.26 |
| mar | 4 | 17.76190 | 17.74495 | -51.83960 | 6.93 | mar | 4 | 18.62665 | 18.60970 | 38.79861 | 7.80 |
| mar | 11 | 17.76200 | 17.74503 | -51.83967 | 6.47 | mar | 11 | 18.62671 | 18.60975 | 38.79834 | 7.34 |
| mar | 18 | 17.76209 | 17.74511 | -51.83965 | 6.01 | mar | 18 | 18.62678 | 18.60980 | 38.79826 | 6.88 |
| mar | 25 | 17.76218 | 17.74519 | -51.83975 | 5.55 | mar | 25 | 18.62684 | 18.60986 | 38.79816 | 6.42 |
| abr | 1 | 17.76227 | 17.74527 | -51.83979 | 5.09 | abr | 1 | 18.62691 | 18.60991 | 38.79825 | 5.96 |
| abr | 8 | 17.76235 | 17.74535 | -51.83997 | 4.63 | abr | 8 | 18.62697 | 18.60997 | 38.79831 | 5.50 |
| abr | 15 | 17.76245 | 17.74542 | -51.84008 | 4.17 | abr | 15 | 18.62704 | 18.61002 | 38.79854 | 5.04 |
| abr | 22 | 17.76252 | 17.74549 | -51.84029 | 3.71 | abr | 22 | 18.62710 | 18.61007 | 38.79876 | 4.58 |
| abr | 29 | 17.76261 | 17.74556 | -51.84045 | 3.25 | abr | 29 | 18.62716 | 18.61011 | 38.79915 | 4.12 |
| may | 6 | 17.76268 | 17.74561 | -51.84072 | 2.79 | may | 6 | 18.62722 | 18.61016 | 38.79949 | 3.66 |
| may | 13 | 17.76276 | 17.74567 | -51.84095 | 2.33 | may | 13 | 18.62728 | 18.61019 | 38.79998 | 3.20 |
| may | 20 | 17.76281 | 17.74571 | -51.84124 | 1.87 | may | 20 | 18.62732 | 18.61023 | 38.80043 | 2.74 |
| may | 27 | 17.76288 | 17.74576 | -51.84150 | 1.41 | may | 27 | 18.62737 | 18.61025 | 38.80100 | 2.28 |
| jun | 3 | 17.76292 | 17.74578 | -51.84185 | 0.95 | jun | 3 | 18.62741 | 18.61027 | 38.80152 | 1.82 |
| jun | 10 | 17.76298 | 17.74581 | -51.84215 | 0.49 | jun | 10 | 18.62745 | 18.61028 | 38.80212 | 1.36 |
| jun | 17 | 17.76300 | 17.74582 | -51.84250 | 0.03 | jun | 17 | 18.62747 | 18.61029 | 38.80269 | 0.90 |
| jun | 24 | 17.76304 | 17.74584 | -51.84282 | 23.57 | jun | 24 | 18.62750 | 18.61029 | 38.80331 | 0.44 |
| jul | 1 | 17.76305 | 17.74583 | -51.84318 | 23.11 | jul | 1 | 18.62751 | 18.61029 | 38.80387 | 23.98 |
| jul | 8 | 17.76308 | 17.74583 | -51.84352 | 22.65 | jul | 8 | 18.62752 | 18.61028 | 38.80445 | 23.52 |
| jul | 15 | 17.76306 | 17.74580 | -51.84385 | 22.19 | jul | 15 | 18.62752 | 18.61026 | 38.80499 | 23.06 |
| jul | 22 | 17.76307 | 17.74578 | -51.84417 | 21.73 | jul | 22 | 18.62752 | 18.61023 | 38.80553 | 22.60 |
| jul | 29 | 17.76304 | 17.74575 | -51.84447 | 21.27 | jul | 29 | 18.62750 | 18.61020 | 38.80602 | 22.14 |
| ago | 5 | 17.76303 | 17.74571 | -51.84477 | 20.81 | ago | 5 | 18.62749 | 18.61017 | 38.80647 | 21.68 |
| ago | 12 | 17.76299 | 17.74566 | -51.84500 | 20.35 | ago | 12 | 18.62746 | 18.61013 | 38.80689 | 21.22 |
| ago | 19 | 17.76296 | 17.74561 | -51.84524 | 19.89 | ago | 19 | 18.62743 | 18.61008 | 38.80726 | 20.76 |
| ago | 26 | 17.76291 | 17.74555 | -51.84540 | 19.43 | ago | 26 | 18.62739 | 18.61003 | 38.80759 | 20.30 |
| sep | 2 | 17.76287 | 17.74549 | -51.84557 | 18.97 | sep | 2 | 18.62736 | 18.60997 | 38.80782 | 19.84 |
| sep | 9 | 17.76281 | 17.74542 | -51.84564 | 18.51 | sep | 9 | 18.62731 | 18.60992 | 38.80806 | 19.38 |
| sep | 16 | 17.76276 | 17.74536 | -51.84573 | 18.05 | sep | 16 | 18.62726 | 18.60986 | 38.80819 | 18.92 |
| sep | 23 | 17.76270 | 17.74529 | -51.84569 | 17.59 | sep | 23 | 18.62721 | 18.60980 | 38.80831 | 18.46 |
| sep | 30 | 17.76265 | 17.74523 | -51.84570 | 17.13 | sep | 30 | 18.62716 | 18.60974 | 38.80829 | 18.00 |
| oct | 7 | 17.76259 | 17.74516 | -51.84557 | 16.67 | oct | 7 | 18.62711 | 18.60968 | 38.80829 | 17.54 |
| oct | 14 | 17.76255 | 17.74510 | -51.84548 | 16.21 | oct | 14 | 18.62706 | 18.60961 | 38.80816 | 17.08 |
| oct | 21 | 17.76250 | 17.74504 | -51.84525 | 15.75 | oct | 21 | 18.62701 | 18.60955 | 38.80804 | 16.62 |
| oct | 28 | 17.76246 | 17.74499 | -51.84509 | 15.29 | oct | 28 | 18.62697 | 18.60949 | 38.80775 | 16.16 |
| nov | 4 | 17.76243 | 17.74494 | -51.84479 | 14.83 | nov | 4 | 18.62693 | 18.60944 | 38.80751 | 15.70 |
| nov | 11 | 17.76241 | 17.74490 | -51.84457 | 14.37 | nov | 11 | 18.62689 | 18.60939 | 38.80712 | 15.24 |
| nov | 18 | 17.76240 | 17.74487 | -51.84421 | 13.91 | nov | 18 | 18.62686 | 18.60933 | 38.80677 | 14.78 |
| nov | 25 | 17.76239 | 17.74484 | -51.84396 | 13.45 | nov | 25 | 18.62684 | 18.60929 | 38.80625 | 14.32 |
| dic | 2 | 17.76240 | 17.74483 | -51.84358 | 12.99 | dic | 2 | 18.62682 | 18.60925 | 38.80580 | 13.86 |
| dic | 9 | 17.76241 | 17.74483 | -51.84331 | 12.53 | dic | 9 | 18.62681 | 18.60922 | 38.80520 | 13.40 |
| dic | 16 | 17.76245 | 17.74483 | -51.84293 | 12.07 | dic | 16 | 18.62681 | 18.60920 | 38.80467 | 12.94 |
| dic | 23 | 17.76248 | 17.74485 | -51.84267 | 11.61 | dic | 23 | 18.62681 | 18.60918 | 38.80400 | 12.48 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 92262 | | | | | | 99240 | | | | | |
|--------------|----|----------------|----------|-----------|-------|--------------|----|----------------|-----------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 6.86 | | | F6V | | | 3.55 | | | G5IV-Vvar | | |
| α | | α _c | δ | | Hp | α | | α _c | δ | | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 18.82153 | 18.80473 | -14.68547 | 12.13 | ene | 1 | 20.17639 | 20.15959 | -66.13144 | 13.49 |
| ene | 8 | 18.82155 | 18.80473 | -14.68555 | 11.67 | ene | 8 | 20.17639 | 20.15957 | -66.13092 | 13.03 |
| ene | 15 | 18.82159 | 18.80474 | -14.68570 | 11.21 | ene | 15 | 20.17642 | 20.15958 | -66.13043 | 12.57 |
| ene | 22 | 18.82162 | 18.80476 | -14.68576 | 10.75 | ene | 22 | 20.17645 | 20.15959 | -66.12987 | 12.11 |
| ene | 29 | 18.82166 | 18.80478 | -14.68590 | 10.29 | ene | 29 | 20.17651 | 20.15963 | -66.12938 | 11.65 |
| feb | 5 | 18.82170 | 18.80481 | -14.68594 | 9.83 | feb | 5 | 20.17656 | 20.15966 | -66.12882 | 11.19 |
| feb | 12 | 18.82175 | 18.80484 | -14.68607 | 9.37 | feb | 12 | 20.17664 | 20.15973 | -66.12834 | 10.73 |
| feb | 19 | 18.82181 | 18.80488 | -14.68608 | 8.91 | feb | 19 | 20.17672 | 20.15979 | -66.12779 | 10.27 |
| feb | 26 | 18.82186 | 18.80492 | -14.68617 | 8.45 | feb | 26 | 20.17681 | 20.15987 | -66.12736 | 9.81 |
| mar | 4 | 18.82191 | 18.80496 | -14.68615 | 7.99 | mar | 4 | 20.17690 | 20.15995 | -66.12687 | 9.35 |
| mar | 11 | 18.82197 | 18.80500 | -14.68620 | 7.53 | mar | 11 | 20.17702 | 20.16006 | -66.12650 | 8.89 |
| mar | 18 | 18.82203 | 18.80505 | -14.68613 | 7.07 | mar | 18 | 20.17713 | 20.16016 | -66.12605 | 8.43 |
| mar | 25 | 18.82208 | 18.80510 | -14.68614 | 6.61 | mar | 25 | 20.17725 | 20.16027 | -66.12576 | 7.97 |
| abr | 1 | 18.82214 | 18.80515 | -14.68602 | 6.15 | abr | 1 | 20.17737 | 20.16038 | -66.12540 | 7.51 |
| abr | 8 | 18.82220 | 18.80520 | -14.68599 | 5.69 | abr | 8 | 20.17750 | 20.16050 | -66.12520 | 7.05 |
| abr | 15 | 18.82227 | 18.80524 | -14.68584 | 5.23 | abr | 15 | 20.17764 | 20.16062 | -66.12492 | 6.59 |
| abr | 22 | 18.82232 | 18.80529 | -14.68577 | 4.77 | abr | 22 | 20.17777 | 20.16074 | -66.12481 | 6.13 |
| abr | 29 | 18.82238 | 18.80533 | -14.68558 | 4.31 | abr | 29 | 20.17790 | 20.16085 | -66.12465 | 5.67 |
| may | 6 | 18.82244 | 18.80537 | -14.68549 | 3.85 | may | 6 | 20.17803 | 20.16097 | -66.12465 | 5.21 |
| may | 13 | 18.82250 | 18.80541 | -14.68530 | 3.39 | may | 13 | 20.17818 | 20.16109 | -66.12459 | 4.75 |
| may | 20 | 18.82254 | 18.80545 | -14.68519 | 2.93 | may | 20 | 20.17830 | 20.16120 | -66.12469 | 4.29 |
| may | 27 | 18.82260 | 18.80548 | -14.68500 | 2.47 | may | 27 | 20.17843 | 20.16131 | -66.12475 | 3.83 |
| jun | 3 | 18.82264 | 18.80550 | -14.68489 | 2.01 | jun | 3 | 20.17854 | 20.16140 | -66.12496 | 3.37 |
| jun | 10 | 18.82269 | 18.80553 | -14.68473 | 1.55 | jun | 10 | 20.17867 | 20.16150 | -66.12512 | 2.91 |
| jun | 17 | 18.82272 | 18.80554 | -14.68462 | 1.09 | jun | 17 | 20.17876 | 20.16158 | -66.12543 | 2.45 |
| jun | 24 | 18.82276 | 18.80555 | -14.68447 | 0.63 | jun | 24 | 20.17886 | 20.16166 | -66.12570 | 1.99 |
| jul | 1 | 18.82278 | 18.80556 | -14.68439 | 0.17 | jul | 1 | 20.17893 | 20.16171 | -66.12608 | 1.53 |
| jul | 8 | 18.82281 | 18.80556 | -14.68429 | 23.71 | jul | 8 | 20.17902 | 20.16177 | -66.12644 | 1.07 |
| jul | 15 | 18.82282 | 18.80555 | -14.68423 | 23.25 | jul | 15 | 20.17907 | 20.16181 | -66.12689 | 0.61 |
| jul | 22 | 18.82283 | 18.80555 | -14.68416 | 22.79 | jul | 22 | 20.17913 | 20.16184 | -66.12731 | 0.15 |
| jul | 29 | 18.82283 | 18.80553 | -14.68412 | 22.33 | jul | 29 | 20.17915 | 20.16185 | -66.12780 | 23.69 |
| ago | 5 | 18.82283 | 18.80551 | -14.68410 | 21.87 | ago | 5 | 20.17918 | 20.16186 | -66.12827 | 23.23 |
| ago | 12 | 18.82282 | 18.80549 | -14.68407 | 21.41 | ago | 12 | 20.17917 | 20.16184 | -66.12876 | 22.77 |
| ago | 19 | 18.82281 | 18.80546 | -14.68407 | 20.95 | ago | 19 | 20.17917 | 20.16182 | -66.12923 | 22.31 |
| ago | 26 | 18.82279 | 18.80542 | -14.68407 | 20.49 | ago | 26 | 20.17913 | 20.16177 | -66.12970 | 21.85 |
| sep | 2 | 18.82277 | 18.80539 | -14.68411 | 20.03 | sep | 2 | 20.17911 | 20.16173 | -66.13015 | 21.39 |
| sep | 9 | 18.82273 | 18.80535 | -14.68411 | 19.57 | sep | 9 | 20.17905 | 20.16166 | -66.13056 | 20.93 |
| sep | 16 | 18.82271 | 18.80531 | -14.68416 | 19.11 | sep | 16 | 20.17900 | 20.16160 | -66.13094 | 20.47 |
| sep | 23 | 18.82267 | 18.80526 | -14.68416 | 18.65 | sep | 23 | 20.17892 | 20.16151 | -66.13126 | 20.01 |
| sep | 30 | 18.82264 | 18.80522 | -14.68424 | 18.19 | sep | 30 | 20.17886 | 20.16143 | -66.13156 | 19.55 |
| oct | 7 | 18.82260 | 18.80517 | -14.68425 | 17.73 | oct | 7 | 20.17876 | 20.16133 | -66.13177 | 19.09 |
| oct | 14 | 18.82257 | 18.80513 | -14.68433 | 17.27 | oct | 14 | 20.17869 | 20.16124 | -66.13195 | 18.63 |
| oct | 21 | 18.82254 | 18.80508 | -14.68433 | 16.81 | oct | 21 | 20.17860 | 20.16113 | -66.13201 | 18.17 |
| oct | 28 | 18.82251 | 18.80504 | -14.68444 | 16.35 | oct | 28 | 20.17852 | 20.16104 | -66.13208 | 17.71 |
| nov | 4 | 18.82248 | 18.80500 | -14.68445 | 15.89 | nov | 4 | 20.17842 | 20.16094 | -66.13201 | 17.25 |
| nov | 11 | 18.82247 | 18.80496 | -14.68455 | 15.43 | nov | 11 | 20.17836 | 20.16085 | -66.13193 | 16.79 |
| nov | 18 | 18.82245 | 18.80492 | -14.68456 | 14.97 | nov | 18 | 20.17828 | 20.16075 | -66.13170 | 16.33 |
| nov | 25 | 18.82244 | 18.80490 | -14.68469 | 14.51 | nov | 25 | 20.17822 | 20.16068 | -66.13151 | 15.87 |
| dic | 2 | 18.82244 | 18.80487 | -14.68471 | 14.05 | dic | 2 | 20.17816 | 20.16060 | -66.13117 | 15.41 |
| dic | 9 | 18.82244 | 18.80485 | -14.68485 | 13.59 | dic | 9 | 20.17813 | 20.16054 | -66.13087 | 14.95 |
| dic | 16 | 18.82245 | 18.80484 | -14.68488 | 13.13 | dic | 16 | 20.17810 | 20.16049 | -66.13041 | 14.49 |
| dic | 23 | 18.82246 | 18.80483 | -14.68503 | 12.67 | dic | 23 | 20.17808 | 20.16045 | -66.13003 | 14.03 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 102485 | | | | | | 105199 | | | | | |
|--------|----|----------|------------|-----------|-------|--------|----|----------|------------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 4.13 | | | F5V | | | 2.45 | | | A7IV-V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 20.78724 | 20.77044 | -25.20030 | 14.10 | ene | 1 | 21.31687 | 21.30006 | 62.67278 | 14.63 |
| ene | 8 | 20.78724 | 20.77042 | -25.20022 | 13.64 | ene | 8 | 21.31682 | 21.30000 | 62.67226 | 14.17 |
| ene | 15 | 20.78725 | 20.77041 | -25.20016 | 13.18 | ene | 15 | 21.31678 | 21.29994 | 62.67169 | 13.71 |
| ene | 22 | 20.78727 | 20.77040 | -25.20003 | 12.72 | ene | 22 | 21.31676 | 21.29990 | 62.67111 | 13.25 |
| ene | 29 | 20.78729 | 20.77041 | -25.19996 | 12.26 | ene | 29 | 21.31674 | 21.29986 | 62.67045 | 12.79 |
| feb | 5 | 20.78730 | 20.77041 | -25.19980 | 11.80 | feb | 5 | 21.31673 | 21.29984 | 62.66982 | 12.33 |
| feb | 12 | 20.78734 | 20.77042 | -25.19968 | 11.34 | feb | 12 | 21.31674 | 21.29982 | 62.66916 | 11.87 |
| feb | 19 | 20.78737 | 20.77044 | -25.19947 | 10.88 | feb | 19 | 21.31676 | 21.29983 | 62.66857 | 11.41 |
| feb | 26 | 20.78740 | 20.77046 | -25.19934 | 10.42 | feb | 26 | 21.31678 | 21.29984 | 62.66791 | 10.95 |
| mar | 4 | 20.78744 | 20.77049 | -25.19911 | 9.96 | mar | 4 | 21.31683 | 21.29988 | 62.66736 | 10.49 |
| mar | 11 | 20.78749 | 20.77053 | -25.19894 | 9.50 | mar | 11 | 21.31687 | 21.29991 | 62.66680 | 10.03 |
| mar | 18 | 20.78754 | 20.77056 | -25.19866 | 9.04 | mar | 18 | 21.31694 | 21.29996 | 62.66638 | 9.57 |
| mar | 25 | 20.78759 | 20.77060 | -25.19848 | 8.58 | mar | 25 | 21.31700 | 21.30002 | 62.66592 | 9.11 |
| abr | 1 | 20.78764 | 20.77065 | -25.19819 | 8.12 | abr | 1 | 21.31709 | 21.30009 | 62.66563 | 8.65 |
| abr | 8 | 20.78770 | 20.77069 | -25.19799 | 7.66 | abr | 8 | 21.31717 | 21.30016 | 62.66533 | 8.19 |
| abr | 15 | 20.78777 | 20.77074 | -25.19767 | 7.20 | abr | 15 | 21.31727 | 21.30024 | 62.66522 | 7.73 |
| abr | 22 | 20.78782 | 20.77079 | -25.19747 | 6.74 | abr | 22 | 21.31736 | 21.30033 | 62.66507 | 7.27 |
| abr | 29 | 20.78789 | 20.77084 | -25.19716 | 6.28 | abr | 29 | 21.31747 | 21.30042 | 62.66512 | 6.81 |
| may | 6 | 20.78795 | 20.77089 | -25.19696 | 5.82 | may | 6 | 21.31756 | 21.30050 | 62.66515 | 6.35 |
| may | 13 | 20.78803 | 20.77094 | -25.19665 | 5.36 | may | 13 | 21.31767 | 21.30058 | 62.66538 | 5.89 |
| may | 20 | 20.78808 | 20.77099 | -25.19647 | 4.90 | may | 20 | 21.31777 | 21.30067 | 62.66557 | 5.43 |
| may | 27 | 20.78816 | 20.77103 | -25.19620 | 4.44 | may | 27 | 21.31787 | 21.30075 | 62.66594 | 4.97 |
| jun | 3 | 20.78821 | 20.77108 | -25.19605 | 3.98 | jun | 3 | 21.31796 | 21.30083 | 62.66629 | 4.51 |
| jun | 10 | 20.78828 | 20.77112 | -25.19582 | 3.52 | jun | 10 | 21.31806 | 21.30089 | 62.66680 | 4.05 |
| jun | 17 | 20.78833 | 20.77115 | -25.19572 | 3.06 | jun | 17 | 21.31814 | 21.30096 | 62.66726 | 3.59 |
| jun | 24 | 20.78839 | 20.77119 | -25.19555 | 2.60 | jun | 24 | 21.31822 | 21.30101 | 62.66787 | 3.13 |
| jul | 1 | 20.78844 | 20.77122 | -25.19550 | 2.14 | jul | 1 | 21.31828 | 21.30106 | 62.66844 | 2.67 |
| jul | 8 | 20.78849 | 20.77124 | -25.19539 | 1.68 | jul | 8 | 21.31834 | 21.30109 | 62.66912 | 2.21 |
| jul | 15 | 20.78852 | 20.77126 | -25.19540 | 1.22 | jul | 15 | 21.31838 | 21.30112 | 62.66975 | 1.75 |
| jul | 22 | 20.78856 | 20.77128 | -25.19535 | 0.76 | jul | 22 | 21.31842 | 21.30114 | 62.67048 | 1.29 |
| jul | 29 | 20.78858 | 20.77128 | -25.19541 | 0.30 | jul | 29 | 21.31845 | 21.30115 | 62.67115 | 0.83 |
| ago | 5 | 20.78861 | 20.77129 | -25.19544 | 23.84 | ago | 5 | 21.31846 | 21.30114 | 62.67188 | 0.37 |
| ago | 12 | 20.78862 | 20.77128 | -25.19554 | 23.38 | ago | 12 | 21.31846 | 21.30113 | 62.67254 | 23.91 |
| ago | 19 | 20.78863 | 20.77128 | -25.19562 | 22.92 | ago | 19 | 21.31846 | 21.30110 | 62.67326 | 23.45 |
| ago | 26 | 20.78862 | 20.77126 | -25.19574 | 22.46 | ago | 26 | 21.31844 | 21.30108 | 62.67392 | 22.99 |
| sep | 2 | 20.78862 | 20.77124 | -25.19588 | 22.00 | sep | 2 | 21.31841 | 21.30103 | 62.67456 | 22.53 |
| sep | 9 | 20.78860 | 20.77122 | -25.19604 | 21.54 | sep | 9 | 21.31837 | 21.30098 | 62.67515 | 22.07 |
| sep | 16 | 20.78859 | 20.77119 | -25.19618 | 21.08 | sep | 16 | 21.31832 | 21.30092 | 62.67574 | 21.61 |
| sep | 23 | 20.78857 | 20.77115 | -25.19633 | 20.62 | sep | 23 | 21.31826 | 21.30085 | 62.67627 | 21.15 |
| sep | 30 | 20.78854 | 20.77112 | -25.19650 | 20.16 | sep | 30 | 21.31820 | 21.30077 | 62.67673 | 20.69 |
| oct | 7 | 20.78851 | 20.77108 | -25.19665 | 19.70 | oct | 7 | 21.31813 | 21.30070 | 62.67715 | 20.23 |
| oct | 14 | 20.78848 | 20.77103 | -25.19680 | 19.24 | oct | 14 | 21.31805 | 21.30060 | 62.67751 | 19.77 |
| oct | 21 | 20.78845 | 20.77099 | -25.19690 | 18.78 | oct | 21 | 21.31797 | 21.30051 | 62.67782 | 19.31 |
| oct | 28 | 20.78842 | 20.77094 | -25.19705 | 18.32 | oct | 28 | 21.31788 | 21.30041 | 62.67801 | 18.85 |
| nov | 4 | 20.78838 | 20.77089 | -25.19713 | 17.86 | nov | 4 | 21.31780 | 21.30031 | 62.67818 | 18.39 |
| nov | 11 | 20.78835 | 20.77085 | -25.19724 | 17.40 | nov | 11 | 21.31771 | 21.30020 | 62.67823 | 17.93 |
| nov | 18 | 20.78833 | 20.77080 | -25.19725 | 16.94 | nov | 18 | 21.31763 | 21.30010 | 62.67827 | 17.47 |
| nov | 25 | 20.78830 | 20.77076 | -25.19734 | 16.48 | nov | 25 | 21.31754 | 21.29999 | 62.67814 | 17.01 |
| dic | 2 | 20.78828 | 20.77071 | -25.19733 | 16.02 | dic | 2 | 21.31746 | 21.29990 | 62.67801 | 16.55 |
| dic | 9 | 20.78826 | 20.77068 | -25.19738 | 15.56 | dic | 9 | 21.31738 | 21.29980 | 62.67773 | 16.09 |
| dic | 16 | 20.78826 | 20.77064 | -25.19731 | 15.10 | dic | 16 | 21.31732 | 21.29970 | 62.67747 | 15.63 |
| dic | 23 | 20.78825 | 20.77062 | -25.19733 | 14.64 | dic | 23 | 21.31725 | 21.29962 | 62.67703 | 15.17 |

Posiciones aparentes de estrellas brillantes, 2020

(a las 0^h del meridiano 90° W.G.)

| 105858 | | | | | | 108870 | | | | | |
|--------|----|----------|------------|-----------|-------|--------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 4.21 | | | F6V | | | 4.69 | | | K5V | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 21.46668 | 21.44988 | -65.27909 | 14.78 | ene | 1 | 22.08041 | 22.06360 | -56.70802 | 15.39 |
| ene | 8 | 21.46665 | 21.44983 | -65.27864 | 14.32 | ene | 8 | 22.08037 | 22.06355 | -56.70770 | 14.93 |
| ene | 15 | 21.46665 | 21.44980 | -65.27815 | 13.86 | ene | 15 | 22.08037 | 22.06352 | -56.70732 | 14.47 |
| ene | 22 | 21.46664 | 21.44978 | -65.27760 | 13.40 | ene | 22 | 22.08035 | 22.06349 | -56.70689 | 14.01 |
| ene | 29 | 21.46665 | 21.44977 | -65.27706 | 12.94 | ene | 29 | 22.08036 | 22.06348 | -56.70645 | 13.55 |
| feb | 5 | 21.46666 | 21.44977 | -65.27647 | 12.48 | feb | 5 | 22.08036 | 22.06346 | -56.70596 | 13.09 |
| feb | 12 | 21.46671 | 21.44979 | -65.27590 | 12.02 | feb | 12 | 22.08038 | 22.06347 | -56.70546 | 12.63 |
| feb | 19 | 21.46674 | 21.44981 | -65.27526 | 11.56 | feb | 19 | 22.08040 | 22.06347 | -56.70489 | 12.17 |
| feb | 26 | 21.46680 | 21.44986 | -65.27470 | 11.10 | feb | 26 | 22.08043 | 22.06350 | -56.70438 | 11.71 |
| mar | 4 | 21.46685 | 21.44990 | -65.27408 | 10.64 | mar | 4 | 22.08047 | 22.06352 | -56.70381 | 11.25 |
| mar | 11 | 21.46693 | 21.44997 | -65.27353 | 10.18 | mar | 11 | 22.08052 | 22.06356 | -56.70327 | 10.79 |
| mar | 18 | 21.46701 | 21.45003 | -65.27292 | 9.72 | mar | 18 | 22.08058 | 22.06360 | -56.70267 | 10.33 |
| mar | 25 | 21.46710 | 21.45012 | -65.27243 | 9.26 | mar | 25 | 22.08063 | 22.06365 | -56.70218 | 9.87 |
| abr | 1 | 21.46719 | 21.45020 | -65.27189 | 8.80 | abr | 1 | 22.08070 | 22.06370 | -56.70162 | 9.41 |
| abr | 8 | 21.46730 | 21.45029 | -65.27146 | 8.34 | abr | 8 | 22.08078 | 22.06377 | -56.70115 | 8.95 |
| abr | 15 | 21.46741 | 21.45039 | -65.27096 | 7.88 | abr | 15 | 22.08086 | 22.06384 | -56.70061 | 8.49 |
| abr | 22 | 21.46753 | 21.45049 | -65.27062 | 7.42 | abr | 22 | 22.08094 | 22.06391 | -56.70021 | 8.03 |
| abr | 29 | 21.46765 | 21.45060 | -65.27024 | 6.96 | abr | 29 | 22.08104 | 22.06398 | -56.69975 | 7.57 |
| may | 6 | 21.46777 | 21.45071 | -65.27000 | 6.50 | may | 6 | 22.08113 | 22.06407 | -56.69942 | 7.11 |
| may | 13 | 21.46790 | 21.45082 | -65.26970 | 6.04 | may | 13 | 22.08124 | 22.06415 | -56.69903 | 6.65 |
| may | 20 | 21.46802 | 21.45092 | -65.26957 | 5.58 | may | 20 | 22.08133 | 22.06423 | -56.69881 | 6.19 |
| may | 27 | 21.46815 | 21.45103 | -65.26941 | 5.12 | may | 27 | 22.08144 | 22.06431 | -56.69853 | 5.73 |
| jun | 3 | 21.46827 | 21.45114 | -65.26940 | 4.66 | jun | 3 | 22.08153 | 22.06440 | -56.69841 | 5.27 |
| jun | 10 | 21.46841 | 21.45124 | -65.26935 | 4.20 | jun | 10 | 22.08165 | 22.06448 | -56.69824 | 4.81 |
| jun | 17 | 21.46851 | 21.45134 | -65.26947 | 3.74 | jun | 17 | 22.08173 | 22.06456 | -56.69824 | 4.35 |
| jun | 24 | 21.46863 | 21.45143 | -65.26955 | 3.28 | jun | 24 | 22.08184 | 22.06463 | -56.69819 | 3.89 |
| jul | 1 | 21.46873 | 21.45151 | -65.26978 | 2.82 | jul | 1 | 22.08192 | 22.06470 | -56.69831 | 3.43 |
| jul | 8 | 21.46884 | 21.45159 | -65.26998 | 2.36 | jul | 8 | 22.08202 | 22.06477 | -56.69838 | 2.97 |
| jul | 15 | 21.46891 | 21.45165 | -65.27032 | 1.90 | jul | 15 | 22.08209 | 22.06483 | -56.69862 | 2.51 |
| jul | 22 | 21.46900 | 21.45171 | -65.27063 | 1.44 | jul | 22 | 22.08217 | 22.06488 | -56.69881 | 2.05 |
| jul | 29 | 21.46905 | 21.45175 | -65.27105 | 0.98 | jul | 29 | 22.08222 | 22.06492 | -56.69914 | 1.59 |
| ago | 5 | 21.46911 | 21.45179 | -65.27144 | 0.52 | ago | 5 | 22.08229 | 22.06496 | -56.69943 | 1.13 |
| ago | 12 | 21.46913 | 21.45180 | -65.27193 | 0.06 | ago | 12 | 22.08232 | 22.06499 | -56.69985 | 0.67 |
| ago | 19 | 21.46917 | 21.45181 | -65.27237 | 23.60 | ago | 19 | 22.08236 | 22.06501 | -56.70022 | 0.21 |
| ago | 26 | 21.46916 | 21.45180 | -65.27287 | 23.14 | ago | 26 | 22.08238 | 22.06502 | -56.70068 | 23.75 |
| sep | 2 | 21.46917 | 21.45179 | -65.27335 | 22.68 | sep | 2 | 22.08240 | 22.06502 | -56.70112 | 23.29 |
| sep | 9 | 21.46914 | 21.45175 | -65.27386 | 22.22 | sep | 9 | 22.08239 | 22.06500 | -56.70161 | 22.83 |
| sep | 16 | 21.46912 | 21.45172 | -65.27431 | 21.76 | sep | 16 | 22.08239 | 22.06499 | -56.70205 | 22.37 |
| sep | 23 | 21.46907 | 21.45166 | -65.27475 | 21.30 | sep | 23 | 22.08236 | 22.06495 | -56.70252 | 21.91 |
| sep | 30 | 21.46902 | 21.45160 | -65.27517 | 20.84 | sep | 30 | 22.08235 | 22.06492 | -56.70296 | 21.45 |
| oct | 7 | 21.46895 | 21.45152 | -65.27555 | 20.38 | oct | 7 | 22.08230 | 22.06487 | -56.70339 | 20.99 |
| oct | 14 | 21.46889 | 21.45144 | -65.27587 | 19.92 | oct | 14 | 22.08227 | 22.06482 | -56.70377 | 20.53 |
| oct | 21 | 21.46881 | 21.45135 | -65.27611 | 19.46 | oct | 21 | 22.08222 | 22.06476 | -56.70409 | 20.07 |
| oct | 28 | 21.46873 | 21.45126 | -65.27634 | 19.00 | oct | 28 | 22.08217 | 22.06470 | -56.70440 | 19.61 |
| nov | 4 | 21.46864 | 21.45115 | -65.27647 | 18.54 | nov | 4 | 22.08211 | 22.06462 | -56.70464 | 19.15 |
| nov | 11 | 21.46857 | 21.45106 | -65.27655 | 18.08 | nov | 11 | 22.08206 | 22.06456 | -56.70483 | 18.69 |
| nov | 18 | 21.46849 | 21.45096 | -65.27651 | 17.62 | nov | 18 | 22.08200 | 22.06448 | -56.70492 | 18.23 |
| nov | 25 | 21.46842 | 21.45087 | -65.27647 | 17.16 | nov | 25 | 22.08196 | 22.06441 | -56.70500 | 17.77 |
| dic | 2 | 21.46834 | 21.45077 | -65.27629 | 16.70 | dic | 2 | 22.08190 | 22.06433 | -56.70497 | 17.31 |
| dic | 9 | 21.46828 | 21.45070 | -65.27611 | 16.24 | dic | 9 | 22.08186 | 22.06427 | -56.70491 | 16.85 |
| dic | 16 | 21.46823 | 21.45061 | -65.27578 | 15.78 | dic | 16 | 22.08182 | 22.06420 | -56.70472 | 16.39 |
| dic | 23 | 21.46818 | 21.45055 | -65.27548 | 15.32 | dic | 23 | 22.08178 | 22.06415 | -56.70456 | 15.93 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 111449 | | | | | | 112440 | | | | | |
|--------|----|----------|----------------|-----------|-------|--------|----|----------|----------------|----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 5.21 | | | F7V | | | 3.97 | | | G8II-III | | |
| | | α | α _c | δ | Hp | | | α | α _c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 22.59590 | 22.57909 | -20.60890 | 15.90 | ene | 1 | 22.79117 | 22.77436 | 23.67142 | 16.10 |
| ene | 8 | 22.59588 | 22.57906 | -20.60892 | 15.44 | ene | 8 | 22.79114 | 22.77432 | 23.67113 | 15.64 |
| ene | 15 | 22.59587 | 22.57903 | -20.60888 | 14.98 | ene | 15 | 22.79113 | 22.77428 | 23.67085 | 15.18 |
| ene | 22 | 22.59586 | 22.57900 | -20.60882 | 14.53 | ene | 22 | 22.79111 | 22.77425 | 23.67053 | 14.72 |
| ene | 29 | 22.59586 | 22.57898 | -20.60876 | 14.07 | ene | 29 | 22.79110 | 22.77422 | 23.67018 | 14.26 |
| feb | 5 | 22.59586 | 22.57896 | -20.60866 | 13.61 | feb | 5 | 22.79109 | 22.77420 | 23.66983 | 13.80 |
| feb | 12 | 22.59586 | 22.57895 | -20.60853 | 13.15 | feb | 12 | 22.79109 | 22.77418 | 23.66949 | 13.34 |
| feb | 19 | 22.59587 | 22.57894 | -20.60835 | 12.69 | feb | 19 | 22.79109 | 22.77416 | 23.66918 | 12.88 |
| feb | 26 | 22.59588 | 22.57894 | -20.60819 | 12.23 | feb | 26 | 22.79109 | 22.77415 | 23.66883 | 12.42 |
| mar | 4 | 22.59590 | 22.57894 | -20.60796 | 11.77 | mar | 4 | 22.79110 | 22.77415 | 23.66854 | 11.96 |
| mar | 11 | 22.59592 | 22.57896 | -20.60773 | 11.31 | mar | 11 | 22.79112 | 22.77416 | 23.66826 | 11.50 |
| mar | 18 | 22.59595 | 22.57897 | -20.60742 | 10.85 | mar | 18 | 22.79114 | 22.77417 | 23.66806 | 11.04 |
| mar | 25 | 22.59598 | 22.57899 | -20.60717 | 10.39 | mar | 25 | 22.79117 | 22.77418 | 23.66783 | 10.58 |
| abr | 1 | 22.59601 | 22.57901 | -20.60683 | 9.93 | abr | 1 | 22.79120 | 22.77420 | 23.66771 | 10.12 |
| abr | 8 | 22.59605 | 22.57905 | -20.60652 | 9.47 | abr | 8 | 22.79124 | 22.77423 | 23.66759 | 9.66 |
| abr | 15 | 22.59610 | 22.57908 | -20.60612 | 9.01 | abr | 15 | 22.79129 | 22.77426 | 23.66761 | 9.20 |
| abr | 22 | 22.59615 | 22.57911 | -20.60580 | 8.55 | abr | 22 | 22.79133 | 22.77429 | 23.66757 | 8.74 |
| abr | 29 | 22.59620 | 22.57915 | -20.60539 | 8.09 | abr | 29 | 22.79138 | 22.77433 | 23.66769 | 8.28 |
| may | 6 | 22.59626 | 22.57919 | -20.60504 | 7.63 | may | 6 | 22.79143 | 22.77437 | 23.66779 | 7.82 |
| may | 13 | 22.59632 | 22.57924 | -20.60460 | 7.17 | may | 13 | 22.79150 | 22.77441 | 23.66803 | 7.36 |
| may | 20 | 22.59638 | 22.57928 | -20.60428 | 6.71 | may | 20 | 22.79155 | 22.77446 | 23.66822 | 6.90 |
| may | 27 | 22.59645 | 22.57932 | -20.60386 | 6.25 | may | 27 | 22.79162 | 22.77450 | 23.66856 | 6.44 |
| jun | 3 | 22.59651 | 22.57937 | -20.60355 | 5.79 | jun | 3 | 22.79168 | 22.77454 | 23.66885 | 5.98 |
| jun | 10 | 22.59658 | 22.57942 | -20.60315 | 5.33 | jun | 10 | 22.79175 | 22.77459 | 23.66929 | 5.52 |
| jun | 17 | 22.59664 | 22.57946 | -20.60289 | 4.87 | jun | 17 | 22.79181 | 22.77463 | 23.66964 | 5.06 |
| jun | 24 | 22.59671 | 22.57950 | -20.60254 | 4.41 | jun | 24 | 22.79188 | 22.77467 | 23.67013 | 4.60 |
| jul | 1 | 22.59676 | 22.57954 | -20.60233 | 3.95 | jul | 1 | 22.79193 | 22.77471 | 23.67056 | 4.14 |
| jul | 8 | 22.59683 | 22.57958 | -20.60205 | 3.49 | jul | 8 | 22.79199 | 22.77474 | 23.67109 | 3.68 |
| jul | 15 | 22.59687 | 22.57961 | -20.60191 | 3.03 | jul | 15 | 22.79204 | 22.77478 | 23.67153 | 3.22 |
| jul | 22 | 22.59693 | 22.57964 | -20.60171 | 2.57 | jul | 22 | 22.79209 | 22.77480 | 23.67208 | 2.76 |
| jul | 29 | 22.59697 | 22.57967 | -20.60163 | 2.11 | jul | 29 | 22.79213 | 22.77483 | 23.67255 | 2.30 |
| ago | 5 | 22.59702 | 22.57969 | -20.60152 | 1.65 | ago | 5 | 22.79217 | 22.77485 | 23.67308 | 1.84 |
| ago | 12 | 22.59704 | 22.57971 | -20.60153 | 1.19 | ago | 12 | 22.79220 | 22.77487 | 23.67352 | 1.38 |
| ago | 19 | 22.59708 | 22.57972 | -20.60149 | 0.73 | ago | 19 | 22.79223 | 22.77488 | 23.67404 | 0.92 |
| ago | 26 | 22.59709 | 22.57973 | -20.60156 | 0.27 | ago | 26 | 22.79224 | 22.77488 | 23.67446 | 0.46 |
| sep | 2 | 22.59711 | 22.57973 | -20.60161 | 23.81 | sep | 2 | 22.79226 | 22.77488 | 23.67491 | 0.00 |
| sep | 9 | 22.59711 | 22.57973 | -20.60175 | 23.35 | sep | 9 | 22.79226 | 22.77488 | 23.67527 | 23.54 |
| sep | 16 | 22.59712 | 22.57972 | -20.60185 | 22.89 | sep | 16 | 22.79227 | 22.77487 | 23.67568 | 23.08 |
| sep | 23 | 22.59712 | 22.57971 | -20.60201 | 22.43 | sep | 23 | 22.79227 | 22.77485 | 23.67601 | 22.62 |
| sep | 30 | 22.59711 | 22.57969 | -20.60218 | 21.97 | sep | 30 | 22.79226 | 22.77484 | 23.67632 | 22.16 |
| oct | 7 | 22.59709 | 22.57966 | -20.60239 | 21.51 | oct | 7 | 22.79224 | 22.77481 | 23.67656 | 21.70 |
| oct | 14 | 22.59708 | 22.57963 | -20.60256 | 21.05 | oct | 14 | 22.79223 | 22.77478 | 23.67680 | 21.24 |
| oct | 21 | 22.59706 | 22.57960 | -20.60275 | 20.59 | oct | 21 | 22.79221 | 22.77475 | 23.67700 | 20.78 |
| oct | 28 | 22.59704 | 22.57956 | -20.60296 | 20.13 | oct | 28 | 22.79219 | 22.77471 | 23.67713 | 20.32 |
| nov | 4 | 22.59701 | 22.57952 | -20.60315 | 19.67 | nov | 4 | 22.79216 | 22.77467 | 23.67722 | 19.86 |
| nov | 11 | 22.59699 | 22.57948 | -20.60333 | 19.21 | nov | 11 | 22.79214 | 22.77463 | 23.67729 | 19.40 |
| nov | 18 | 22.59696 | 22.57943 | -20.60346 | 18.75 | nov | 18 | 22.79211 | 22.77458 | 23.67733 | 18.94 |
| nov | 25 | 22.59694 | 22.57939 | -20.60363 | 18.29 | nov | 25 | 22.79208 | 22.77453 | 23.67727 | 18.48 |
| dic | 2 | 22.59691 | 22.57934 | -20.60375 | 17.83 | dic | 2 | 22.79205 | 22.77449 | 23.67721 | 18.02 |
| dic | 9 | 22.59689 | 22.57930 | -20.60387 | 17.37 | dic | 9 | 22.79203 | 22.77444 | 23.67708 | 17.56 |
| dic | 16 | 22.59687 | 22.57926 | -20.60391 | 16.91 | dic | 16 | 22.79200 | 22.77439 | 23.67696 | 17.10 |
| dic | 23 | 22.59685 | 22.57922 | -20.60401 | 16.45 | dic | 23 | 22.79198 | 22.77434 | 23.67673 | 16.64 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 112623 | | | | | | 112724 | | | | | | | | |
|--------|----|----------------|----------|-----------|-------|--------|----|----------------|----------|----------|-------|-----|----|----------|
| V | | | Sp | | | V | | | Sp | | | | | |
| 3.49 | | | A3V | | | 3.50 | | | K0III | | | | | |
| α | | α _c | | δ | | α | | α _c | | δ | | Hp | | |
| m | d | h | h | ° | h | m | d | h | h | ° | h | m | d | h |
| ene | 1 | 22.82857 | 22.81177 | -51.21704 | 16.14 | ene | 1 | 22.83939 | 22.82259 | 66.30885 | 16.15 | ene | 1 | 22.83939 |
| ene | 8 | 22.82853 | 22.81171 | -51.21683 | 15.68 | ene | 8 | 22.83931 | 22.82250 | 66.30851 | 15.69 | ene | 8 | 22.83931 |
| ene | 15 | 22.82851 | 22.81167 | -51.21654 | 15.22 | ene | 15 | 22.83924 | 22.82239 | 66.30816 | 15.23 | ene | 15 | 22.83924 |
| ene | 22 | 22.82849 | 22.81162 | -51.21620 | 14.76 | ene | 22 | 22.83917 | 22.82231 | 66.30772 | 14.77 | ene | 22 | 22.83917 |
| ene | 29 | 22.82848 | 22.81159 | -51.21583 | 14.30 | ene | 29 | 22.83911 | 22.82223 | 66.30721 | 14.31 | ene | 29 | 22.83911 |
| feb | 5 | 22.82846 | 22.81156 | -51.21541 | 13.84 | feb | 5 | 22.83907 | 22.82217 | 66.30666 | 13.85 | feb | 5 | 22.83907 |
| feb | 12 | 22.82846 | 22.81155 | -51.21495 | 13.38 | feb | 12 | 22.83902 | 22.82211 | 66.30609 | 13.39 | feb | 12 | 22.83902 |
| feb | 19 | 22.82846 | 22.81154 | -51.21443 | 12.92 | feb | 19 | 22.83901 | 22.82208 | 66.30552 | 12.93 | feb | 19 | 22.83901 |
| feb | 26 | 22.82848 | 22.81154 | -51.21393 | 12.46 | feb | 26 | 22.83899 | 22.82205 | 66.30487 | 12.47 | feb | 26 | 22.83899 |
| mar | 4 | 22.82849 | 22.81153 | -51.21338 | 12.00 | mar | 4 | 22.83900 | 22.82204 | 66.30427 | 12.01 | mar | 4 | 22.83900 |
| mar | 11 | 22.82852 | 22.81155 | -51.21283 | 11.54 | mar | 11 | 22.83900 | 22.82204 | 66.30367 | 11.55 | mar | 11 | 22.83900 |
| mar | 18 | 22.82855 | 22.81157 | -51.21222 | 11.08 | mar | 18 | 22.83904 | 22.82206 | 66.30314 | 11.09 | mar | 18 | 22.83904 |
| mar | 25 | 22.82858 | 22.81160 | -51.21168 | 10.62 | mar | 25 | 22.83907 | 22.82209 | 66.30257 | 10.63 | mar | 25 | 22.83907 |
| abr | 1 | 22.82863 | 22.81163 | -51.21109 | 10.16 | abr | 1 | 22.83914 | 22.82214 | 66.30210 | 10.17 | abr | 1 | 22.83914 |
| abr | 8 | 22.82868 | 22.81167 | -51.21054 | 9.70 | abr | 8 | 22.83920 | 22.82219 | 66.30165 | 9.71 | abr | 8 | 22.83920 |
| abr | 15 | 22.82874 | 22.81172 | -51.20993 | 9.24 | abr | 15 | 22.83929 | 22.82226 | 66.30134 | 9.25 | abr | 15 | 22.83929 |
| abr | 22 | 22.82880 | 22.81177 | -51.20944 | 8.78 | abr | 22 | 22.83937 | 22.82234 | 66.30099 | 8.79 | abr | 22 | 22.83937 |
| abr | 29 | 22.82887 | 22.81182 | -51.20889 | 8.32 | abr | 29 | 22.83947 | 22.82242 | 66.30081 | 8.33 | abr | 29 | 22.83947 |
| may | 6 | 22.82895 | 22.81188 | -51.20845 | 7.86 | may | 6 | 22.83957 | 22.82251 | 66.30063 | 7.87 | may | 6 | 22.83957 |
| may | 13 | 22.82903 | 22.81195 | -51.20793 | 7.40 | may | 13 | 22.83969 | 22.82260 | 66.30063 | 7.41 | may | 13 | 22.83969 |
| may | 20 | 22.82911 | 22.81201 | -51.20758 | 6.94 | may | 20 | 22.83980 | 22.82270 | 66.30060 | 6.95 | may | 20 | 22.83980 |
| may | 27 | 22.82920 | 22.81208 | -51.20717 | 6.48 | may | 27 | 22.83992 | 22.82280 | 66.30075 | 6.49 | may | 27 | 22.83992 |
| jun | 3 | 22.82928 | 22.81215 | -51.20690 | 6.02 | jun | 3 | 22.84003 | 22.82289 | 66.30089 | 6.03 | jun | 3 | 22.84003 |
| jun | 10 | 22.82938 | 22.81222 | -51.20657 | 5.56 | jun | 10 | 22.84016 | 22.82299 | 66.30120 | 5.57 | jun | 10 | 22.84016 |
| jun | 17 | 22.82946 | 22.81228 | -51.20642 | 5.10 | jun | 17 | 22.84026 | 22.82308 | 66.30147 | 5.11 | jun | 17 | 22.84026 |
| jun | 24 | 22.82956 | 22.81235 | -51.20622 | 4.64 | jun | 24 | 22.84038 | 22.82317 | 66.30192 | 4.65 | jun | 24 | 22.84038 |
| jul | 1 | 22.82964 | 22.81241 | -51.20618 | 4.18 | jul | 1 | 22.84047 | 22.82325 | 66.30234 | 4.19 | jul | 1 | 22.84047 |
| jul | 8 | 22.82973 | 22.81248 | -51.20610 | 3.72 | jul | 8 | 22.84058 | 22.82333 | 66.30290 | 3.73 | jul | 8 | 22.84058 |
| jul | 15 | 22.82979 | 22.81253 | -51.20619 | 3.26 | jul | 15 | 22.84066 | 22.82340 | 66.30341 | 3.27 | jul | 15 | 22.84066 |
| jul | 22 | 22.82987 | 22.81259 | -51.20624 | 2.80 | jul | 22 | 22.84074 | 22.82345 | 66.30407 | 2.81 | jul | 22 | 22.84074 |
| jul | 29 | 22.82993 | 22.81263 | -51.20643 | 2.34 | jul | 29 | 22.84081 | 22.82351 | 66.30468 | 2.35 | jul | 29 | 22.84081 |
| ago | 5 | 22.83000 | 22.81268 | -51.20660 | 1.88 | ago | 5 | 22.84086 | 22.82354 | 66.30539 | 1.89 | ago | 5 | 22.84086 |
| ago | 12 | 22.83004 | 22.81271 | -51.20691 | 1.42 | ago | 12 | 22.84091 | 22.82358 | 66.30603 | 1.43 | ago | 12 | 22.84091 |
| ago | 19 | 22.83009 | 22.81274 | -51.20718 | 0.96 | ago | 19 | 22.84094 | 22.82359 | 66.30679 | 0.97 | ago | 19 | 22.84094 |
| ago | 26 | 22.83011 | 22.81275 | -51.20756 | 0.50 | ago | 26 | 22.84097 | 22.82361 | 66.30748 | 0.51 | ago | 26 | 22.84097 |
| sep | 2 | 22.83014 | 22.81276 | -51.20792 | 0.04 | sep | 2 | 22.84098 | 22.82360 | 66.30821 | 0.05 | sep | 2 | 22.84098 |
| sep | 9 | 22.83015 | 22.81276 | -51.20837 | 23.58 | sep | 9 | 22.84097 | 22.82359 | 66.30888 | 23.59 | sep | 9 | 22.84097 |
| sep | 16 | 22.83016 | 22.81276 | -51.20876 | 23.12 | sep | 16 | 22.84096 | 22.82356 | 66.30961 | 23.13 | sep | 16 | 22.84096 |
| sep | 23 | 22.83015 | 22.81274 | -51.20921 | 22.66 | sep | 23 | 22.84094 | 22.82353 | 66.31027 | 22.67 | sep | 23 | 22.84094 |
| sep | 30 | 22.83015 | 22.81272 | -51.20964 | 22.20 | sep | 30 | 22.84090 | 22.82348 | 66.31091 | 22.21 | sep | 30 | 22.84090 |
| oct | 7 | 22.83012 | 22.81268 | -51.21010 | 21.74 | oct | 7 | 22.84086 | 22.82343 | 66.31149 | 21.75 | oct | 7 | 22.84086 |
| oct | 14 | 22.83010 | 22.81265 | -51.21050 | 21.28 | oct | 14 | 22.84080 | 22.82335 | 66.31208 | 21.29 | oct | 14 | 22.84080 |
| oct | 21 | 22.83006 | 22.81260 | -51.21088 | 20.82 | oct | 21 | 22.84075 | 22.82329 | 66.31260 | 20.83 | oct | 21 | 22.84075 |
| oct | 28 | 22.83003 | 22.81255 | -51.21124 | 20.36 | oct | 28 | 22.84067 | 22.82319 | 66.31304 | 20.37 | oct | 28 | 22.84067 |
| nov | 4 | 22.82998 | 22.81249 | -51.21156 | 19.90 | nov | 4 | 22.84060 | 22.82311 | 66.31343 | 19.91 | nov | 4 | 22.84060 |
| nov | 11 | 22.82994 | 22.81243 | -51.21183 | 19.44 | nov | 11 | 22.84051 | 22.82301 | 66.31377 | 19.45 | nov | 11 | 22.84051 |
| nov | 18 | 22.82989 | 22.81236 | -51.21202 | 18.98 | nov | 18 | 22.84043 | 22.82291 | 66.31405 | 18.99 | nov | 18 | 22.84043 |
| nov | 25 | 22.82985 | 22.81230 | -51.21219 | 18.52 | nov | 25 | 22.84034 | 22.82279 | 66.31421 | 18.53 | nov | 25 | 22.84034 |
| dic | 2 | 22.82980 | 22.81223 | -51.21228 | 18.06 | dic | 2 | 22.84025 | 22.82269 | 66.31432 | 18.07 | dic | 2 | 22.84025 |
| dic | 9 | 22.82976 | 22.81217 | -51.21232 | 17.60 | dic | 9 | 22.84015 | 22.82257 | 66.31434 | 17.61 | dic | 9 | 22.84015 |
| dic | 16 | 22.82972 | 22.81210 | -51.21225 | 17.14 | dic | 16 | 22.84007 | 22.82246 | 66.31432 | 17.15 | dic | 16 | 22.84007 |
| dic | 23 | 22.82968 | 22.81205 | -51.21219 | 16.68 | dic | 23 | 22.83997 | 22.82234 | 66.31414 | 16.69 | dic | 23 | 22.83997 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 112748 | | | | | | 115102 | | | | | |
|--------|----|----------|------------|----------|-------|--------|----|----------|------------|-----------|-------|
| V | | | Sp | | | V | | | Sp | | |
| 3.51 | | | M2III | | | 4.41 | | | K1III | | |
| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 22.84907 | 22.83227 | 24.70776 | 16.16 | ene | 1 | 23.33119 | 23.31439 | -32.42786 | 16.64 |
| ene | 8 | 22.84905 | 22.83223 | 24.70747 | 15.70 | ene | 8 | 23.33116 | 23.31434 | -32.42784 | 16.18 |
| ene | 15 | 22.84903 | 22.83219 | 24.70719 | 15.24 | ene | 15 | 23.33115 | 23.31431 | -32.42772 | 15.72 |
| ene | 22 | 22.84901 | 22.83215 | 24.70687 | 14.78 | ene | 22 | 23.33113 | 23.31427 | -32.42759 | 15.26 |
| ene | 29 | 22.84900 | 22.83212 | 24.70652 | 14.32 | ene | 29 | 23.33112 | 23.31424 | -32.42741 | 14.80 |
| feb | 5 | 22.84899 | 22.83210 | 24.70616 | 13.86 | feb | 5 | 23.33110 | 23.31421 | -32.42721 | 14.34 |
| feb | 12 | 22.84899 | 22.83207 | 24.70582 | 13.40 | feb | 12 | 23.33110 | 23.31419 | -32.42694 | 13.88 |
| feb | 19 | 22.84899 | 22.83206 | 24.70550 | 12.94 | feb | 19 | 23.33110 | 23.31417 | -32.42663 | 13.42 |
| feb | 26 | 22.84899 | 22.83205 | 24.70514 | 12.48 | feb | 26 | 23.33110 | 23.31416 | -32.42632 | 12.96 |
| mar | 4 | 22.84900 | 22.83205 | 24.70484 | 12.02 | mar | 4 | 23.33110 | 23.31415 | -32.42596 | 12.50 |
| mar | 11 | 22.84901 | 22.83205 | 24.70455 | 11.56 | mar | 11 | 23.33112 | 23.31415 | -32.42558 | 12.04 |
| mar | 18 | 22.84904 | 22.83206 | 24.70434 | 11.10 | mar | 18 | 23.33114 | 23.31416 | -32.42513 | 11.58 |
| mar | 25 | 22.84906 | 22.83208 | 24.70409 | 10.64 | mar | 25 | 23.33116 | 23.31417 | -32.42473 | 11.12 |
| abr | 1 | 22.84910 | 22.83210 | 24.70396 | 10.18 | abr | 1 | 23.33118 | 23.31419 | -32.42426 | 10.66 |
| abr | 8 | 22.84913 | 22.83212 | 24.70383 | 9.72 | abr | 8 | 23.33122 | 23.31421 | -32.42381 | 10.20 |
| abr | 15 | 22.84918 | 22.83215 | 24.70384 | 9.26 | abr | 15 | 23.33126 | 23.31424 | -32.42328 | 9.74 |
| abr | 22 | 22.84922 | 22.83219 | 24.70379 | 8.80 | abr | 22 | 23.33130 | 23.31427 | -32.42284 | 9.28 |
| abr | 29 | 22.84928 | 22.83223 | 24.70389 | 8.34 | abr | 29 | 23.33136 | 23.31430 | -32.42233 | 8.82 |
| may | 6 | 22.84933 | 22.83227 | 24.70398 | 7.88 | may | 6 | 23.33141 | 23.31435 | -32.42188 | 8.36 |
| may | 13 | 22.84939 | 22.83231 | 24.70422 | 7.42 | may | 13 | 23.33147 | 23.31439 | -32.42135 | 7.90 |
| may | 20 | 22.84945 | 22.83235 | 24.70440 | 6.96 | may | 20 | 23.33153 | 23.31443 | -32.42095 | 7.44 |
| may | 27 | 22.84952 | 22.83240 | 24.70473 | 6.50 | may | 27 | 23.33160 | 23.31448 | -32.42048 | 6.98 |
| jun | 3 | 22.84958 | 22.83244 | 24.70502 | 6.04 | jun | 3 | 23.33167 | 23.31453 | -32.42012 | 6.52 |
| jun | 10 | 22.84965 | 22.83248 | 24.70545 | 5.58 | jun | 10 | 23.33174 | 23.31458 | -32.41968 | 6.06 |
| jun | 17 | 22.84970 | 22.83253 | 24.70580 | 5.12 | jun | 17 | 23.33181 | 23.31463 | -32.41940 | 5.60 |
| jun | 24 | 22.84977 | 22.83257 | 24.70629 | 4.66 | jun | 24 | 23.33188 | 23.31468 | -32.41905 | 5.14 |
| jul | 1 | 22.84983 | 22.83261 | 24.70671 | 4.20 | jul | 1 | 23.33194 | 23.31472 | -32.41884 | 4.68 |
| jul | 8 | 22.84989 | 22.83264 | 24.70725 | 3.74 | jul | 8 | 23.33202 | 23.31477 | -32.41858 | 4.22 |
| jul | 15 | 22.84993 | 22.83267 | 24.70769 | 3.28 | jul | 15 | 23.33208 | 23.31481 | -32.41848 | 3.76 |
| jul | 22 | 22.84999 | 22.83270 | 24.70825 | 2.82 | jul | 22 | 23.33214 | 23.31486 | -32.41832 | 3.30 |
| jul | 29 | 22.85003 | 22.83273 | 24.70872 | 2.36 | jul | 29 | 23.33219 | 23.31489 | -32.41831 | 2.84 |
| ago | 5 | 22.85007 | 22.83275 | 24.70926 | 1.90 | ago | 5 | 23.33225 | 23.31493 | -32.41827 | 2.38 |
| ago | 12 | 22.85010 | 22.83277 | 24.70971 | 1.44 | ago | 12 | 23.33229 | 23.31496 | -32.41837 | 1.92 |
| ago | 19 | 22.85013 | 22.83278 | 24.71023 | 0.98 | ago | 19 | 23.33233 | 23.31498 | -32.41842 | 1.46 |
| ago | 26 | 22.85015 | 22.83279 | 24.71067 | 0.52 | ago | 26 | 23.33236 | 23.31500 | -32.41859 | 1.00 |
| sep | 2 | 22.85016 | 22.83278 | 24.71113 | 0.06 | sep | 2 | 23.33239 | 23.31501 | -32.41875 | 0.54 |
| sep | 9 | 22.85017 | 22.83278 | 24.71150 | 23.60 | sep | 9 | 23.33240 | 23.31502 | -32.41902 | 0.08 |
| sep | 16 | 22.85018 | 22.83277 | 24.71192 | 23.14 | sep | 16 | 23.33242 | 23.31502 | -32.41923 | 23.62 |
| sep | 23 | 22.85017 | 22.83276 | 24.71226 | 22.68 | sep | 23 | 23.33242 | 23.31501 | -32.41953 | 23.16 |
| sep | 30 | 22.85016 | 22.83274 | 24.71258 | 22.22 | sep | 30 | 23.33243 | 23.31500 | -32.41982 | 22.70 |
| oct | 7 | 22.85015 | 22.83272 | 24.71283 | 21.76 | oct | 7 | 23.33241 | 23.31498 | -32.42016 | 22.24 |
| oct | 14 | 22.85014 | 22.83269 | 24.71309 | 21.30 | oct | 14 | 23.33241 | 23.31496 | -32.42045 | 21.78 |
| oct | 21 | 22.85012 | 22.83266 | 24.71330 | 20.84 | oct | 21 | 23.33239 | 23.31493 | -32.42077 | 21.32 |
| oct | 28 | 22.85009 | 22.83262 | 24.71344 | 20.38 | oct | 28 | 23.33237 | 23.31490 | -32.42108 | 20.86 |
| nov | 4 | 22.85007 | 22.83258 | 24.71355 | 19.92 | nov | 4 | 23.33234 | 23.31486 | -32.42139 | 20.40 |
| nov | 11 | 22.85004 | 22.83254 | 24.71362 | 19.46 | nov | 11 | 23.33232 | 23.31482 | -32.42165 | 19.94 |
| nov | 18 | 22.85002 | 22.83249 | 24.71367 | 19.00 | nov | 18 | 23.33229 | 23.31477 | -32.42187 | 19.48 |
| nov | 25 | 22.84999 | 22.83244 | 24.71362 | 18.54 | nov | 25 | 23.33227 | 23.31472 | -32.42210 | 19.02 |
| dic | 2 | 22.84996 | 22.83239 | 24.71356 | 18.08 | dic | 2 | 23.33224 | 23.31467 | -32.42227 | 18.56 |
| dic | 9 | 22.84993 | 22.83235 | 24.71344 | 17.62 | dic | 9 | 23.33221 | 23.31462 | -32.42241 | 18.10 |
| dic | 16 | 22.84991 | 22.83230 | 24.71333 | 17.16 | dic | 16 | 23.33218 | 23.31457 | -32.42246 | 17.64 |
| dic | 23 | 22.84988 | 22.83225 | 24.71310 | 16.70 | dic | 23 | 23.33216 | 23.31452 | -32.42254 | 17.18 |

Posiciones aparentes de estrellas brillantes, 2020
(a las 0^h del meridiano 90° W.G.)

| 115623 | | | | | | 115738 | | | | | | | | | | | |
|---------------|----|----------------|----------|----------|-------|---------------|----|----------------|----------|---------|-------|-----|----|----------|----------|---------|-------|
| V | | | Sp | | | V | | | Sp | | | | | | | | |
| 4.42 | | | F8IV | | | 4.95 | | | A0p | | | | | | | | |
| α | | α _z | | δ | | α | | α _z | | δ | | Hp | | | | | |
| m | d | h | h | ° | h | m | d | h | h | ° | h | m | d | h | | | |
| ene | 1 | 23.43929 | 23.42249 | 23.51448 | 16.75 | ene | 1 | 23.46557 | 23.44877 | 1.36327 | 16.77 | ene | 1 | 23.46557 | 23.44877 | 1.36327 | 16.77 |
| ene | 8 | 23.43926 | 23.42244 | 23.51423 | 16.29 | ene | 8 | 23.46555 | 23.44873 | 1.36309 | 16.31 | ene | 8 | 23.46555 | 23.44873 | 1.36309 | 16.31 |
| ene | 15 | 23.43924 | 23.42240 | 23.51401 | 15.83 | ene | 15 | 23.46554 | 23.44869 | 1.36298 | 15.85 | ene | 15 | 23.46554 | 23.44869 | 1.36298 | 15.85 |
| ene | 22 | 23.43922 | 23.42236 | 23.51373 | 15.37 | ene | 22 | 23.46552 | 23.44866 | 1.36284 | 15.39 | ene | 22 | 23.46552 | 23.44866 | 1.36284 | 15.39 |
| ene | 29 | 23.43921 | 23.42233 | 23.51344 | 14.91 | ene | 29 | 23.46551 | 23.44863 | 1.36270 | 14.93 | ene | 29 | 23.46551 | 23.44863 | 1.36270 | 14.93 |
| feb | 5 | 23.43919 | 23.42230 | 23.51311 | 14.45 | feb | 5 | 23.46549 | 23.44860 | 1.36257 | 14.47 | feb | 5 | 23.46549 | 23.44860 | 1.36257 | 14.47 |
| feb | 12 | 23.43918 | 23.42227 | 23.51282 | 13.99 | feb | 12 | 23.46549 | 23.44858 | 1.36248 | 14.01 | feb | 12 | 23.46549 | 23.44858 | 1.36248 | 14.01 |
| feb | 19 | 23.43918 | 23.42225 | 23.51253 | 13.53 | feb | 19 | 23.46549 | 23.44856 | 1.36241 | 13.55 | feb | 19 | 23.46549 | 23.44856 | 1.36241 | 13.55 |
| feb | 26 | 23.43917 | 23.42223 | 23.51221 | 13.07 | feb | 26 | 23.46548 | 23.44855 | 1.36233 | 13.09 | feb | 26 | 23.46548 | 23.44855 | 1.36233 | 13.09 |
| mar | 4 | 23.43917 | 23.42222 | 23.51192 | 12.61 | mar | 4 | 23.46549 | 23.44854 | 1.36229 | 12.63 | mar | 4 | 23.46549 | 23.44854 | 1.36229 | 12.63 |
| mar | 11 | 23.43918 | 23.42222 | 23.51166 | 12.15 | mar | 11 | 23.46550 | 23.44853 | 1.36230 | 12.17 | mar | 11 | 23.46550 | 23.44853 | 1.36230 | 12.17 |
| mar | 18 | 23.43920 | 23.42222 | 23.51146 | 11.69 | mar | 18 | 23.46551 | 23.44853 | 1.36234 | 11.71 | mar | 18 | 23.46551 | 23.44853 | 1.36234 | 11.71 |
| mar | 25 | 23.43921 | 23.42223 | 23.51123 | 11.23 | mar | 25 | 23.46553 | 23.44854 | 1.36236 | 11.25 | mar | 25 | 23.46553 | 23.44854 | 1.36236 | 11.25 |
| abr | 1 | 23.43924 | 23.42224 | 23.51109 | 10.77 | abr | 1 | 23.46555 | 23.44856 | 1.36247 | 10.80 | abr | 1 | 23.46555 | 23.44856 | 1.36247 | 10.80 |
| abr | 8 | 23.43927 | 23.42226 | 23.51096 | 10.31 | abr | 8 | 23.46558 | 23.44857 | 1.36258 | 10.34 | abr | 8 | 23.46558 | 23.44857 | 1.36258 | 10.34 |
| abr | 15 | 23.43931 | 23.42228 | 23.51095 | 9.85 | abr | 15 | 23.46562 | 23.44860 | 1.36280 | 9.88 | abr | 15 | 23.46562 | 23.44860 | 1.36280 | 9.88 |
| abr | 22 | 23.43934 | 23.42231 | 23.51089 | 9.39 | abr | 22 | 23.46565 | 23.44862 | 1.36296 | 9.42 | abr | 22 | 23.46565 | 23.44862 | 1.36296 | 9.42 |
| abr | 29 | 23.43940 | 23.42235 | 23.51097 | 8.93 | abr | 29 | 23.46570 | 23.44865 | 1.36323 | 8.96 | abr | 29 | 23.46570 | 23.44865 | 1.36323 | 8.96 |
| may | 6 | 23.43944 | 23.42238 | 23.51104 | 8.47 | may | 6 | 23.46574 | 23.44868 | 1.36348 | 8.50 | may | 6 | 23.46574 | 23.44868 | 1.36348 | 8.50 |
| may | 13 | 23.43951 | 23.42242 | 23.51125 | 8.01 | may | 13 | 23.46580 | 23.44872 | 1.36384 | 8.04 | may | 13 | 23.46580 | 23.44872 | 1.36384 | 8.04 |
| may | 20 | 23.43956 | 23.42246 | 23.51140 | 7.55 | may | 20 | 23.46585 | 23.44875 | 1.36412 | 7.58 | may | 20 | 23.46585 | 23.44875 | 1.36412 | 7.58 |
| may | 27 | 23.43963 | 23.42250 | 23.51170 | 7.09 | may | 27 | 23.46592 | 23.44879 | 1.36451 | 7.12 | may | 27 | 23.46592 | 23.44879 | 1.36451 | 7.12 |
| jun | 3 | 23.43968 | 23.42255 | 23.51196 | 6.63 | jun | 3 | 23.46597 | 23.44883 | 1.36485 | 6.66 | jun | 3 | 23.46597 | 23.44883 | 1.36485 | 6.66 |
| jun | 10 | 23.43976 | 23.42259 | 23.51236 | 6.17 | jun | 10 | 23.46604 | 23.44887 | 1.36529 | 6.20 | jun | 10 | 23.46604 | 23.44887 | 1.36529 | 6.20 |
| jun | 17 | 23.43981 | 23.42263 | 23.51268 | 5.71 | jun | 17 | 23.46609 | 23.44891 | 1.36563 | 5.74 | jun | 17 | 23.46609 | 23.44891 | 1.36563 | 5.74 |
| jun | 24 | 23.43988 | 23.42268 | 23.51314 | 5.25 | jun | 24 | 23.46616 | 23.44896 | 1.36608 | 5.28 | jun | 24 | 23.46616 | 23.44896 | 1.36608 | 5.28 |
| jul | 1 | 23.43994 | 23.42272 | 23.51353 | 4.79 | jul | 1 | 23.46621 | 23.44899 | 1.36643 | 4.82 | jul | 1 | 23.46621 | 23.44899 | 1.36643 | 4.82 |
| jul | 8 | 23.44001 | 23.42276 | 23.51404 | 4.33 | jul | 8 | 23.46628 | 23.44903 | 1.36688 | 4.36 | jul | 8 | 23.46628 | 23.44903 | 1.36688 | 4.36 |
| jul | 15 | 23.44006 | 23.42279 | 23.51446 | 3.87 | jul | 15 | 23.46633 | 23.44907 | 1.36720 | 3.90 | jul | 15 | 23.46633 | 23.44907 | 1.36720 | 3.90 |
| jul | 22 | 23.44012 | 23.42283 | 23.51499 | 3.41 | jul | 22 | 23.46639 | 23.44910 | 1.36761 | 3.44 | jul | 22 | 23.46639 | 23.44910 | 1.36761 | 3.44 |
| jul | 29 | 23.44016 | 23.42286 | 23.51544 | 2.95 | jul | 29 | 23.46643 | 23.44913 | 1.36791 | 2.98 | jul | 29 | 23.46643 | 23.44913 | 1.36791 | 2.98 |
| ago | 5 | 23.44021 | 23.42289 | 23.51597 | 2.49 | ago | 5 | 23.46648 | 23.44916 | 1.36827 | 2.52 | ago | 5 | 23.46648 | 23.44916 | 1.36827 | 2.52 |
| ago | 12 | 23.44024 | 23.42291 | 23.51639 | 2.03 | ago | 12 | 23.46651 | 23.44918 | 1.36851 | 2.06 | ago | 12 | 23.46651 | 23.44918 | 1.36851 | 2.06 |
| ago | 19 | 23.44028 | 23.42293 | 23.51691 | 1.57 | ago | 19 | 23.46655 | 23.44920 | 1.36882 | 1.60 | ago | 19 | 23.46655 | 23.44920 | 1.36882 | 1.60 |
| ago | 26 | 23.44030 | 23.42294 | 23.51732 | 1.11 | ago | 26 | 23.46658 | 23.44922 | 1.36901 | 1.14 | ago | 26 | 23.46658 | 23.44922 | 1.36901 | 1.14 |
| sep | 2 | 23.44033 | 23.42295 | 23.51779 | 0.65 | ago | 26 | 23.46660 | 23.44922 | 1.36924 | 0.68 | ago | 26 | 23.46660 | 23.44922 | 1.36924 | 0.68 |
| sep | 9 | 23.44034 | 23.42296 | 23.51815 | 0.19 | sep | 9 | 23.46661 | 23.44923 | 1.36936 | 0.22 | sep | 9 | 23.46661 | 23.44923 | 1.36936 | 0.22 |
| sep | 16 | 23.44036 | 23.42296 | 23.51857 | 23.73 | sep | 16 | 23.46663 | 23.44923 | 1.36953 | 23.76 | sep | 16 | 23.46663 | 23.44923 | 1.36953 | 23.76 |
| sep | 23 | 23.44036 | 23.42295 | 23.51890 | 23.27 | sep | 23 | 23.46664 | 23.44923 | 1.36961 | 23.30 | sep | 23 | 23.46664 | 23.44923 | 1.36961 | 23.30 |
| sep | 30 | 23.44036 | 23.42294 | 23.51924 | 22.81 | sep | 30 | 23.46664 | 23.44922 | 1.36969 | 22.84 | sep | 30 | 23.46664 | 23.44922 | 1.36969 | 22.84 |
| oct | 7 | 23.44035 | 23.42292 | 23.51949 | 22.35 | oct | 7 | 23.46663 | 23.44920 | 1.36970 | 22.38 | oct | 7 | 23.46663 | 23.44920 | 1.36970 | 22.38 |
| oct | 14 | 23.44035 | 23.42290 | 23.51977 | 21.89 | oct | 14 | 23.46663 | 23.44918 | 1.36974 | 21.92 | oct | 14 | 23.46663 | 23.44918 | 1.36974 | 21.92 |
| oct | 21 | 23.44034 | 23.42288 | 23.51998 | 21.43 | oct | 21 | 23.46662 | 23.44916 | 1.36972 | 21.46 | oct | 21 | 23.46662 | 23.44916 | 1.36972 | 21.46 |
| oct | 28 | 23.44032 | 23.42285 | 23.52015 | 20.97 | oct | 28 | 23.46661 | 23.44913 | 1.36968 | 21.00 | oct | 28 | 23.46661 | 23.44913 | 1.36968 | 21.00 |
| nov | 4 | 23.44030 | 23.42281 | 23.52027 | 20.51 | nov | 4 | 23.46659 | 23.44910 | 1.36960 | 20.54 | nov | 4 | 23.46659 | 23.44910 | 1.36960 | 20.54 |
| nov | 11 | 23.44028 | 23.42277 | 23.52038 | 20.05 | nov | 11 | 23.46657 | 23.44907 | 1.36954 | 20.08 | nov | 11 | 23.46657 | 23.44907 | 1.36954 | 20.08 |
| nov | 18 | 23.44026 | 23.42273 | 23.52045 | 19.59 | nov | 18 | 23.46656 | 23.44903 | 1.36946 | 19.62 | nov | 18 | 23.46656 | 23.44903 | 1.36946 | 19.62 |
| nov | 25 | 23.44023 | 23.42269 | 23.52045 | 19.13 | nov | 25 | 23.46653 | 23.44899 | 1.36934 | 19.16 | nov | 25 | 23.46653 | 23.44899 | 1.36934 | 19.16 |
| dic | 2 | 23.44021 | 23.42264 | 23.52042 | 18.67 | dic | 2 | 23.46651 | 23.44895 | 1.36922 | 18.70 | dic | 2 | 23.46651 | 23.44895 | 1.36922 | 18.70 |
| dic | 9 | 23.44018 | 23.42260 | 23.52035 | 18.21 | dic | 9 | 23.46649 | 23.44891 | 1.36909 | 18.24 | dic | 9 | 23.46649 | 23.44891 | 1.36909 | 18.24 |
| dic | 16 | 23.44016 | 23.42255 | 23.52027 | 17.75 | dic | 16 | 23.46647 | 23.44886 | 1.36899 | 17.78 | dic | 16 | 23.46647 | 23.44886 | 1.36899 | 17.78 |
| dic | 23 | 23.44013 | 23.42250 | 23.52010 | 17.29 | dic | 23 | 23.46645 | 23.44882 | 1.36882 | 17.32 | dic | 23 | 23.46645 | 23.44882 | 1.36882 | 17.32 |

Posiciones aparentes de la estrella Polar, 2020

(a las 0^h del meridiano 90° W.G.)

11767

(V = 1.97 Sp = F7: Ib-IIv)

| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
|-----|----|----------|------------|----------|-------|-----|----|----------|------------|----------|-------|
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| ene | 1 | 2.96548 | 2.94867 | 89.35112 | 20.27 | feb | 23 | 2.93904 | 2.92210 | 89.35239 | 16.77 |
| ene | 2 | 2.96502 | 2.94822 | 89.35119 | 20.21 | feb | 24 | 2.93846 | 2.92152 | 89.35237 | 16.70 |
| ene | 3 | 2.96457 | 2.94777 | 89.35124 | 20.14 | feb | 25 | 2.93788 | 2.92094 | 89.35234 | 16.63 |
| ene | 4 | 2.96414 | 2.94733 | 89.35130 | 20.08 | feb | 26 | 2.93731 | 2.92037 | 89.35231 | 16.57 |
| ene | 5 | 2.96372 | 2.94692 | 89.35135 | 20.01 | feb | 27 | 2.93677 | 2.91983 | 89.35227 | 16.50 |
| ene | 6 | 2.96333 | 2.94652 | 89.35140 | 19.94 | feb | 28 | 2.93625 | 2.91931 | 89.35222 | 16.43 |
| ene | 7 | 2.96296 | 2.94615 | 89.35145 | 19.88 | feb | 29 | 2.93577 | 2.91883 | 89.35218 | 16.37 |
| ene | 8 | 2.96260 | 2.94578 | 89.35151 | 19.81 | mar | 1 | 2.93532 | 2.91838 | 89.35213 | 16.30 |
| ene | 9 | 2.96223 | 2.94541 | 89.35157 | 19.75 | mar | 2 | 2.93489 | 2.91794 | 89.35209 | 16.24 |
| ene | 10 | 2.96185 | 2.94502 | 89.35163 | 19.68 | mar | 3 | 2.93448 | 2.91753 | 89.35205 | 16.17 |
| ene | 11 | 2.96142 | 2.94459 | 89.35170 | 19.61 | mar | 4 | 2.93407 | 2.91711 | 89.35202 | 16.10 |
| ene | 12 | 2.96095 | 2.94412 | 89.35177 | 19.55 | mar | 5 | 2.93365 | 2.91669 | 89.35198 | 16.04 |
| ene | 13 | 2.96044 | 2.94360 | 89.35183 | 19.48 | mar | 6 | 2.93320 | 2.91625 | 89.35195 | 15.97 |
| ene | 14 | 2.95990 | 2.94306 | 89.35188 | 19.41 | mar | 7 | 2.93273 | 2.91577 | 89.35193 | 15.90 |
| ene | 15 | 2.95935 | 2.94251 | 89.35193 | 19.35 | mar | 8 | 2.93222 | 2.91526 | 89.35189 | 15.84 |
| ene | 16 | 2.95881 | 2.94197 | 89.35197 | 19.28 | mar | 9 | 2.93169 | 2.91473 | 89.35185 | 15.77 |
| ene | 17 | 2.95830 | 2.94145 | 89.35201 | 19.22 | mar | 10 | 2.93117 | 2.91421 | 89.35180 | 15.71 |
| ene | 18 | 2.95782 | 2.94097 | 89.35204 | 19.15 | mar | 11 | 2.93069 | 2.91372 | 89.35174 | 15.64 |
| ene | 19 | 2.95737 | 2.94052 | 89.35207 | 19.08 | mar | 12 | 2.93024 | 2.91328 | 89.35168 | 15.57 |
| ene | 20 | 2.95694 | 2.94009 | 89.35210 | 19.02 | mar | 13 | 2.92985 | 2.91289 | 89.35162 | 15.51 |
| ene | 21 | 2.95651 | 2.93966 | 89.35214 | 18.95 | mar | 14 | 2.92950 | 2.91254 | 89.35156 | 15.44 |
| ene | 22 | 2.95607 | 2.93921 | 89.35218 | 18.89 | mar | 15 | 2.92917 | 2.91221 | 89.35150 | 15.38 |
| ene | 23 | 2.95561 | 2.93874 | 89.35222 | 18.82 | mar | 16 | 2.92885 | 2.91187 | 89.35144 | 15.31 |
| ene | 24 | 2.95511 | 2.93823 | 89.35226 | 18.75 | mar | 17 | 2.92851 | 2.91153 | 89.35139 | 15.24 |
| ene | 25 | 2.95457 | 2.93770 | 89.35230 | 18.69 | mar | 18 | 2.92814 | 2.91117 | 89.35134 | 15.18 |
| ene | 26 | 2.95401 | 2.93713 | 89.35234 | 18.62 | mar | 19 | 2.92776 | 2.91078 | 89.35129 | 15.11 |
| ene | 27 | 2.95342 | 2.93654 | 89.35237 | 18.55 | mar | 20 | 2.92735 | 2.91037 | 89.35124 | 15.05 |
| ene | 28 | 2.95283 | 2.93595 | 89.35240 | 18.49 | mar | 21 | 2.92693 | 2.90995 | 89.35118 | 14.98 |
| ene | 29 | 2.95223 | 2.93535 | 89.35241 | 18.42 | mar | 22 | 2.92651 | 2.90952 | 89.35112 | 14.91 |
| ene | 30 | 2.95165 | 2.93477 | 89.35243 | 18.36 | mar | 23 | 2.92609 | 2.90911 | 89.35105 | 14.85 |
| ene | 31 | 2.95108 | 2.93420 | 89.35244 | 18.29 | mar | 24 | 2.92569 | 2.90870 | 89.35098 | 14.78 |
| feb | 1 | 2.95054 | 2.93366 | 89.35244 | 18.22 | mar | 25 | 2.92531 | 2.90833 | 89.35090 | 14.71 |
| feb | 2 | 2.95003 | 2.93314 | 89.35245 | 18.16 | mar | 26 | 2.92497 | 2.90798 | 89.35082 | 14.65 |
| feb | 3 | 2.94954 | 2.93265 | 89.35245 | 18.09 | mar | 27 | 2.92466 | 2.90767 | 89.35074 | 14.58 |
| feb | 4 | 2.94907 | 2.93218 | 89.35246 | 18.02 | mar | 28 | 2.92438 | 2.90740 | 89.35066 | 14.52 |
| feb | 5 | 2.94860 | 2.93171 | 89.35247 | 17.96 | mar | 29 | 2.92414 | 2.90715 | 89.35058 | 14.45 |
| feb | 6 | 2.94813 | 2.93123 | 89.35248 | 17.89 | mar | 30 | 2.92391 | 2.90692 | 89.35051 | 14.38 |
| feb | 7 | 2.94763 | 2.93073 | 89.35250 | 17.83 | mar | 31 | 2.92370 | 2.90670 | 89.35044 | 14.32 |
| feb | 8 | 2.94710 | 2.93019 | 89.35252 | 17.76 | abr | 1 | 2.92348 | 2.90648 | 89.35037 | 14.25 |
| feb | 9 | 2.94653 | 2.92962 | 89.35254 | 17.69 | abr | 2 | 2.92325 | 2.90625 | 89.35030 | 14.19 |
| feb | 10 | 2.94592 | 2.92901 | 89.35255 | 17.63 | abr | 3 | 2.92299 | 2.90599 | 89.35024 | 14.12 |
| feb | 11 | 2.94530 | 2.92839 | 89.35255 | 17.56 | abr | 4 | 2.92271 | 2.90571 | 89.35018 | 14.06 |
| feb | 12 | 2.94470 | 2.92778 | 89.35254 | 17.49 | abr | 5 | 2.92241 | 2.90540 | 89.35011 | 13.99 |
| feb | 13 | 2.94412 | 2.92721 | 89.35253 | 17.43 | abr | 6 | 2.92210 | 2.90510 | 89.35004 | 13.92 |
| feb | 14 | 2.94359 | 2.92667 | 89.35251 | 17.36 | abr | 7 | 2.92182 | 2.90482 | 89.34995 | 13.86 |
| feb | 15 | 2.94309 | 2.92617 | 89.35249 | 17.30 | abr | 8 | 2.92158 | 2.90458 | 89.34986 | 13.79 |
| feb | 16 | 2.94262 | 2.92570 | 89.35247 | 17.23 | abr | 9 | 2.92140 | 2.90440 | 89.34977 | 13.73 |
| feb | 17 | 2.94216 | 2.92524 | 89.35246 | 17.16 | abr | 10 | 2.92127 | 2.90427 | 89.34968 | 13.66 |
| feb | 18 | 2.94170 | 2.92477 | 89.35245 | 17.10 | abr | 11 | 2.92118 | 2.90417 | 89.34960 | 13.59 |
| feb | 19 | 2.94122 | 2.92429 | 89.35244 | 17.03 | abr | 12 | 2.92110 | 2.90408 | 89.34952 | 13.53 |
| feb | 20 | 2.94071 | 2.92378 | 89.35243 | 16.96 | abr | 13 | 2.92101 | 2.90399 | 89.34944 | 13.46 |
| feb | 21 | 2.94018 | 2.92324 | 89.35242 | 16.90 | abr | 14 | 2.92090 | 2.90388 | 89.34937 | 13.40 |
| feb | 22 | 2.93962 | 2.92268 | 89.35241 | 16.83 | abr | 15 | 2.92077 | 2.90374 | 89.34930 | 13.33 |

Posiciones aparentes de la estrella Polar, 2020

(a las 0^h del meridiano 90° W.G.)

11767

(V = 1.97 Sp = F7: Ib-IIv)

| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
|-----|----|----------|------------|----------|-------|-----|----|----------|------------|----------|------|
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| abr | 16 | 2.92061 | 2.90359 | 89.34923 | 13.26 | jun | 8 | 2.92762 | 2.91046 | 89.34512 | 9.79 |
| abr | 17 | 2.92045 | 2.90342 | 89.34915 | 13.20 | jun | 9 | 2.92798 | 2.91082 | 89.34507 | 9.72 |
| abr | 18 | 2.92027 | 2.90324 | 89.34907 | 13.13 | jun | 10 | 2.92831 | 2.91115 | 89.34503 | 9.66 |
| abr | 19 | 2.92010 | 2.90307 | 89.34899 | 13.07 | jun | 11 | 2.92863 | 2.91146 | 89.34498 | 9.59 |
| abr | 20 | 2.91995 | 2.90292 | 89.34890 | 13.00 | jun | 12 | 2.92894 | 2.91177 | 89.34493 | 9.53 |
| abr | 21 | 2.91982 | 2.90279 | 89.34880 | 12.94 | jun | 13 | 2.92926 | 2.91208 | 89.34487 | 9.46 |
| abr | 22 | 2.91973 | 2.90270 | 89.34871 | 12.87 | jun | 14 | 2.92959 | 2.91242 | 89.34481 | 9.40 |
| abr | 23 | 2.91967 | 2.90264 | 89.34861 | 12.80 | jun | 15 | 2.92995 | 2.91278 | 89.34475 | 9.33 |
| abr | 24 | 2.91965 | 2.90261 | 89.34852 | 12.74 | jun | 16 | 2.93034 | 2.91317 | 89.34469 | 9.27 |
| abr | 25 | 2.91966 | 2.90262 | 89.34842 | 12.67 | jun | 17 | 2.93077 | 2.91359 | 89.34462 | 9.20 |
| abr | 26 | 2.91970 | 2.90266 | 89.34833 | 12.61 | jun | 18 | 2.93122 | 2.91404 | 89.34457 | 9.14 |
| abr | 27 | 2.91974 | 2.90270 | 89.34825 | 12.54 | jun | 19 | 2.93171 | 2.91452 | 89.34451 | 9.07 |
| abr | 28 | 2.91979 | 2.90275 | 89.34817 | 12.48 | jun | 20 | 2.93221 | 2.91502 | 89.34446 | 9.00 |
| abr | 29 | 2.91983 | 2.90278 | 89.34810 | 12.41 | jun | 21 | 2.93271 | 2.91552 | 89.34442 | 8.94 |
| abr | 30 | 2.91985 | 2.90279 | 89.34803 | 12.34 | jun | 22 | 2.93320 | 2.91600 | 89.34439 | 8.87 |
| may | 1 | 2.91984 | 2.90279 | 89.34795 | 12.28 | jun | 23 | 2.93367 | 2.91647 | 89.34436 | 8.81 |
| may | 2 | 2.91982 | 2.90276 | 89.34788 | 12.21 | jun | 24 | 2.93411 | 2.91691 | 89.34433 | 8.74 |
| may | 3 | 2.91978 | 2.90272 | 89.34780 | 12.15 | jun | 25 | 2.93452 | 2.91732 | 89.34430 | 8.68 |
| may | 4 | 2.91976 | 2.90270 | 89.34771 | 12.08 | jun | 26 | 2.93492 | 2.91771 | 89.34427 | 8.61 |
| may | 5 | 2.91977 | 2.90271 | 89.34762 | 12.02 | jun | 27 | 2.93531 | 2.91810 | 89.34424 | 8.55 |
| may | 6 | 2.91984 | 2.90278 | 89.34753 | 11.95 | jun | 28 | 2.93572 | 2.91851 | 89.34419 | 8.48 |
| may | 7 | 2.91996 | 2.90290 | 89.34743 | 11.88 | jun | 29 | 2.93617 | 2.91895 | 89.34415 | 8.42 |
| may | 8 | 2.92012 | 2.90306 | 89.34734 | 11.82 | jun | 30 | 2.93665 | 2.91944 | 89.34411 | 8.35 |
| may | 9 | 2.92032 | 2.90324 | 89.34726 | 11.75 | jul | 1 | 2.93718 | 2.91996 | 89.34406 | 8.29 |
| may | 10 | 2.92051 | 2.90343 | 89.34718 | 11.69 | jul | 2 | 2.93775 | 2.92053 | 89.34403 | 8.22 |
| may | 11 | 2.92068 | 2.90360 | 89.34711 | 11.62 | jul | 3 | 2.93833 | 2.92110 | 89.34400 | 8.16 |
| may | 12 | 2.92083 | 2.90375 | 89.34704 | 11.56 | jul | 4 | 2.93890 | 2.92167 | 89.34398 | 8.09 |
| may | 13 | 2.92095 | 2.90387 | 89.34698 | 11.49 | jul | 5 | 2.93946 | 2.92222 | 89.34396 | 8.03 |
| may | 14 | 2.92106 | 2.90397 | 89.34690 | 11.43 | jul | 6 | 2.93998 | 2.92273 | 89.34395 | 7.96 |
| may | 15 | 2.92115 | 2.90406 | 89.34683 | 11.36 | jul | 7 | 2.94046 | 2.92322 | 89.34394 | 7.90 |
| may | 16 | 2.92124 | 2.90415 | 89.34675 | 11.29 | jul | 8 | 2.94093 | 2.92368 | 89.34393 | 7.83 |
| may | 17 | 2.92135 | 2.90426 | 89.34667 | 11.23 | jul | 9 | 2.94137 | 2.92412 | 89.34391 | 7.77 |
| may | 18 | 2.92148 | 2.90439 | 89.34658 | 11.16 | jul | 10 | 2.94182 | 2.92457 | 89.34389 | 7.70 |
| may | 19 | 2.92164 | 2.90454 | 89.34650 | 11.10 | jul | 11 | 2.94228 | 2.92503 | 89.34387 | 7.64 |
| may | 20 | 2.92183 | 2.90474 | 89.34641 | 11.03 | jul | 12 | 2.94276 | 2.92550 | 89.34384 | 7.57 |
| may | 21 | 2.92206 | 2.90497 | 89.34632 | 10.97 | jul | 13 | 2.94326 | 2.92601 | 89.34382 | 7.50 |
| may | 22 | 2.92233 | 2.90523 | 89.34624 | 10.90 | jul | 14 | 2.94380 | 2.92654 | 89.34379 | 7.44 |
| may | 23 | 2.92262 | 2.90551 | 89.34616 | 10.84 | jul | 15 | 2.94436 | 2.92710 | 89.34377 | 7.37 |
| may | 24 | 2.92292 | 2.90581 | 89.34608 | 10.77 | jul | 16 | 2.94495 | 2.92768 | 89.34375 | 7.31 |
| may | 25 | 2.92323 | 2.90612 | 89.34601 | 10.70 | jul | 17 | 2.94555 | 2.92829 | 89.34374 | 7.24 |
| may | 26 | 2.92352 | 2.90641 | 89.34595 | 10.64 | jul | 18 | 2.94617 | 2.92889 | 89.34373 | 7.18 |
| may | 27 | 2.92380 | 2.90668 | 89.34589 | 10.57 | jul | 19 | 2.94677 | 2.92949 | 89.34373 | 7.11 |
| may | 28 | 2.92405 | 2.90692 | 89.34583 | 10.51 | jul | 20 | 2.94735 | 2.93007 | 89.34374 | 7.05 |
| may | 29 | 2.92428 | 2.90715 | 89.34578 | 10.44 | jul | 21 | 2.94790 | 2.93061 | 89.34375 | 6.98 |
| may | 30 | 2.92449 | 2.90736 | 89.34571 | 10.38 | jul | 22 | 2.94841 | 2.93113 | 89.34376 | 6.92 |
| may | 31 | 2.92471 | 2.90758 | 89.34564 | 10.31 | jul | 23 | 2.94890 | 2.93161 | 89.34377 | 6.85 |
| jun | 1 | 2.92496 | 2.90782 | 89.34557 | 10.25 | jul | 24 | 2.94938 | 2.93209 | 89.34377 | 6.79 |
| jun | 2 | 2.92524 | 2.90811 | 89.34550 | 10.18 | jul | 25 | 2.94987 | 2.93257 | 89.34377 | 6.72 |
| jun | 3 | 2.92558 | 2.90844 | 89.34542 | 10.12 | jul | 26 | 2.95038 | 2.93309 | 89.34376 | 6.66 |
| jun | 4 | 2.92597 | 2.90883 | 89.34535 | 10.05 | jul | 27 | 2.95093 | 2.93364 | 89.34376 | 6.59 |
| jun | 5 | 2.92638 | 2.90924 | 89.34528 | 9.98 | jul | 28 | 2.95153 | 2.93423 | 89.34375 | 6.53 |
| jun | 6 | 2.92681 | 2.90966 | 89.34522 | 9.92 | jul | 29 | 2.95216 | 2.93486 | 89.34375 | 6.46 |
| jun | 7 | 2.92723 | 2.91007 | 89.34517 | 9.85 | jul | 30 | 2.95280 | 2.93549 | 89.34376 | 6.40 |

Posiciones aparentes de la estrella Polar, 2020

(a las 0^h del meridiano 90° W.G.)

11767

(V = 1.97 Sp = F7:Ib-IIv)

| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
|-----|----|----------|------------|----------|------|-----|----|----------|------------|----------|-------|
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| jul | 31 | 2.95344 | 2.93613 | 89.34378 | 6.33 | sep | 22 | 2.98114 | 2.96373 | 89.34625 | 2.88 |
| ago | 1 | 2.95405 | 2.93674 | 89.34380 | 6.27 | sep | 23 | 2.98166 | 2.96425 | 89.34633 | 2.81 |
| ago | 2 | 2.95464 | 2.93732 | 89.34382 | 6.20 | sep | 24 | 2.98216 | 2.96474 | 89.34642 | 2.75 |
| ago | 3 | 2.95519 | 2.93787 | 89.34385 | 6.14 | sep | 25 | 2.98262 | 2.96520 | 89.34651 | 2.68 |
| ago | 4 | 2.95571 | 2.93839 | 89.34388 | 6.07 | sep | 26 | 2.98304 | 2.96562 | 89.34660 | 2.62 |
| ago | 5 | 2.95621 | 2.93889 | 89.34390 | 6.01 | sep | 27 | 2.98343 | 2.96600 | 89.34670 | 2.55 |
| ago | 6 | 2.95670 | 2.93938 | 89.34392 | 5.94 | sep | 28 | 2.98378 | 2.96635 | 89.34679 | 2.49 |
| ago | 7 | 2.95720 | 2.93987 | 89.34394 | 5.88 | sep | 29 | 2.98411 | 2.96668 | 89.34688 | 2.42 |
| ago | 8 | 2.95770 | 2.94038 | 89.34395 | 5.81 | sep | 30 | 2.98443 | 2.96701 | 89.34696 | 2.35 |
| ago | 9 | 2.95823 | 2.94091 | 89.34396 | 5.75 | oct | 1 | 2.98475 | 2.96733 | 89.34704 | 2.29 |
| ago | 10 | 2.95879 | 2.94146 | 89.34398 | 5.68 | oct | 2 | 2.98509 | 2.96766 | 89.34711 | 2.22 |
| ago | 11 | 2.95937 | 2.94204 | 89.34399 | 5.62 | oct | 3 | 2.98544 | 2.96802 | 89.34719 | 2.16 |
| ago | 12 | 2.95997 | 2.94264 | 89.34401 | 5.55 | oct | 4 | 2.98582 | 2.96839 | 89.34727 | 2.09 |
| ago | 13 | 2.96059 | 2.94326 | 89.34403 | 5.48 | oct | 5 | 2.98621 | 2.96878 | 89.34734 | 2.03 |
| ago | 14 | 2.96122 | 2.94388 | 89.34406 | 5.42 | oct | 6 | 2.98661 | 2.96919 | 89.34742 | 1.96 |
| ago | 15 | 2.96184 | 2.94450 | 89.34410 | 5.35 | oct | 7 | 2.98703 | 2.96960 | 89.34751 | 1.90 |
| ago | 16 | 2.96244 | 2.94510 | 89.34414 | 5.29 | oct | 8 | 2.98743 | 2.97000 | 89.34760 | 1.83 |
| ago | 17 | 2.96301 | 2.94567 | 89.34419 | 5.22 | oct | 9 | 2.98783 | 2.97039 | 89.34770 | 1.77 |
| ago | 18 | 2.96355 | 2.94620 | 89.34424 | 5.16 | oct | 10 | 2.98819 | 2.97075 | 89.34780 | 1.70 |
| ago | 19 | 2.96404 | 2.94669 | 89.34429 | 5.09 | oct | 11 | 2.98852 | 2.97107 | 89.34791 | 1.64 |
| ago | 20 | 2.96452 | 2.94717 | 89.34433 | 5.03 | oct | 12 | 2.98880 | 2.97136 | 89.34801 | 1.57 |
| ago | 21 | 2.96499 | 2.94764 | 89.34437 | 4.96 | oct | 13 | 2.98905 | 2.97161 | 89.34812 | 1.51 |
| ago | 22 | 2.96549 | 2.94814 | 89.34441 | 4.90 | oct | 14 | 2.98928 | 2.97183 | 89.34822 | 1.44 |
| ago | 23 | 2.96602 | 2.94867 | 89.34444 | 4.83 | oct | 15 | 2.98950 | 2.97205 | 89.34831 | 1.37 |
| ago | 24 | 2.96660 | 2.94924 | 89.34447 | 4.77 | oct | 16 | 2.98974 | 2.97229 | 89.34840 | 1.31 |
| ago | 25 | 2.96720 | 2.94984 | 89.34451 | 4.70 | oct | 17 | 2.99001 | 2.97257 | 89.34848 | 1.24 |
| ago | 26 | 2.96782 | 2.95046 | 89.34455 | 4.64 | oct | 18 | 2.99033 | 2.97288 | 89.34857 | 1.18 |
| ago | 27 | 2.96844 | 2.95107 | 89.34460 | 4.57 | oct | 19 | 2.99068 | 2.97323 | 89.34866 | 1.11 |
| ago | 28 | 2.96903 | 2.95167 | 89.34466 | 4.51 | oct | 20 | 2.99103 | 2.97358 | 89.34876 | 1.05 |
| ago | 29 | 2.96960 | 2.95223 | 89.34472 | 4.44 | oct | 21 | 2.99137 | 2.97391 | 89.34886 | 0.98 |
| ago | 30 | 2.97012 | 2.95275 | 89.34478 | 4.38 | oct | 22 | 2.99166 | 2.97420 | 89.34897 | 0.92 |
| ago | 31 | 2.97062 | 2.95324 | 89.34484 | 4.31 | oct | 23 | 2.99191 | 2.97445 | 89.34909 | 0.85 |
| sep | 1 | 2.97108 | 2.95370 | 89.34490 | 4.25 | oct | 24 | 2.99212 | 2.97465 | 89.34920 | 0.79 |
| sep | 2 | 2.97153 | 2.95415 | 89.34496 | 4.18 | oct | 25 | 2.99229 | 2.97481 | 89.34931 | 0.72 |
| sep | 3 | 2.97198 | 2.95460 | 89.34501 | 4.12 | oct | 26 | 2.99243 | 2.97495 | 89.34941 | 0.65 |
| sep | 4 | 2.97243 | 2.95505 | 89.34507 | 4.05 | oct | 27 | 2.99256 | 2.97508 | 89.34951 | 0.59 |
| sep | 5 | 2.97290 | 2.95552 | 89.34511 | 3.99 | oct | 28 | 2.99268 | 2.97520 | 89.34961 | 0.52 |
| sep | 6 | 2.97339 | 2.95601 | 89.34516 | 3.92 | oct | 29 | 2.99281 | 2.97533 | 89.34970 | 0.46 |
| sep | 7 | 2.97391 | 2.95653 | 89.34521 | 3.86 | oct | 30 | 2.99296 | 2.97548 | 89.34980 | 0.39 |
| sep | 8 | 2.97444 | 2.95706 | 89.34526 | 3.79 | oct | 31 | 2.99312 | 2.97564 | 89.34989 | 0.33 |
| sep | 9 | 2.97500 | 2.95761 | 89.34532 | 3.73 | nov | 1 | 2.99330 | 2.97582 | 89.34998 | 0.26 |
| sep | 10 | 2.97555 | 2.95817 | 89.34538 | 3.66 | nov | 2 | 2.99350 | 2.97602 | 89.35007 | 0.20 |
| sep | 11 | 2.97611 | 2.95872 | 89.34545 | 3.59 | nov | 3 | 2.99370 | 2.97622 | 89.35017 | 0.13 |
| sep | 12 | 2.97664 | 2.95925 | 89.34552 | 3.53 | nov | 4 | 2.99390 | 2.97641 | 89.35027 | 0.06 |
| sep | 13 | 2.97715 | 2.95975 | 89.34560 | 3.46 | nov | 5 | 2.99408 | 2.97659 | 89.35038 | 24.00 |
| sep | 14 | 2.97762 | 2.96022 | 89.34569 | 3.40 | nov | 6 | 2.99423 | 2.97674 | 89.35049 | 23.93 |
| sep | 15 | 2.97805 | 2.96065 | 89.34577 | 3.33 | nov | 7 | 2.99435 | 2.97685 | 89.35061 | 23.87 |
| sep | 16 | 2.97845 | 2.96104 | 89.34585 | 3.27 | nov | 8 | 2.99443 | 2.97692 | 89.35072 | 23.80 |
| sep | 17 | 2.97883 | 2.96143 | 89.34592 | 3.20 | nov | 9 | 2.99446 | 2.97696 | 89.35084 | 23.74 |
| sep | 18 | 2.97922 | 2.96182 | 89.34599 | 3.14 | nov | 10 | 2.99447 | 2.97696 | 89.35095 | 23.67 |
| sep | 19 | 2.97965 | 2.96225 | 89.34605 | 3.07 | nov | 11 | 2.99446 | 2.97696 | 89.35105 | 23.60 |
| sep | 20 | 2.98012 | 2.96271 | 89.34612 | 3.01 | nov | 12 | 2.99446 | 2.97695 | 89.35115 | 23.54 |
| sep | 21 | 2.98062 | 2.96321 | 89.34618 | 2.94 | nov | 13 | 2.99449 | 2.97698 | 89.35124 | 23.47 |

Posiciones aparentes de la estrella Polar, 2020

(a las 0^h del meridiano 90° W.G.)

11767

(V = 1.97 Sp = F7:Ib-IIv)

| | | α | α_c | δ | Hp | | | α | α_c | δ | Hp |
|-----|----|----------|------------|----------|-------|-----|----|----------|------------|----------|-------|
| m | d | h | h | ° | h | m | d | h | h | ° | h |
| nov | 14 | 2.99455 | 2.97704 | 89.35134 | 23.41 | dic | 7 | 2.99308 | 2.97550 | 89.35368 | 21.90 |
| nov | 15 | 2.99465 | 2.97714 | 89.35143 | 23.34 | dic | 8 | 2.99282 | 2.97524 | 89.35378 | 21.83 |
| nov | 16 | 2.99477 | 2.97726 | 89.35153 | 23.28 | dic | 9 | 2.99256 | 2.97497 | 89.35387 | 21.76 |
| nov | 17 | 2.99489 | 2.97736 | 89.35164 | 23.21 | dic | 10 | 2.99231 | 2.97472 | 89.35395 | 21.70 |
| nov | 18 | 2.99496 | 2.97743 | 89.35175 | 23.15 | dic | 11 | 2.99210 | 2.97451 | 89.35403 | 21.63 |
| nov | 19 | 2.99499 | 2.97746 | 89.35187 | 23.08 | dic | 12 | 2.99193 | 2.97433 | 89.35411 | 21.57 |
| nov | 20 | 2.99497 | 2.97743 | 89.35198 | 23.01 | dic | 13 | 2.99178 | 2.97418 | 89.35419 | 21.50 |
| nov | 21 | 2.99491 | 2.97737 | 89.35210 | 22.95 | dic | 14 | 2.99164 | 2.97403 | 89.35428 | 21.43 |
| nov | 22 | 2.99481 | 2.97727 | 89.35221 | 22.88 | dic | 15 | 2.99147 | 2.97387 | 89.35438 | 21.37 |
| nov | 23 | 2.99469 | 2.97715 | 89.35231 | 22.82 | dic | 16 | 2.99127 | 2.97366 | 89.35448 | 21.30 |
| nov | 24 | 2.99456 | 2.97702 | 89.35241 | 22.75 | dic | 17 | 2.99101 | 2.97340 | 89.35458 | 21.24 |
| nov | 25 | 2.99444 | 2.97690 | 89.35250 | 22.69 | dic | 18 | 2.99071 | 2.97309 | 89.35468 | 21.17 |
| nov | 26 | 2.99433 | 2.97679 | 89.35259 | 22.62 | dic | 19 | 2.99036 | 2.97274 | 89.35477 | 21.10 |
| nov | 27 | 2.99424 | 2.97669 | 89.35268 | 22.55 | dic | 20 | 2.98999 | 2.97236 | 89.35486 | 21.04 |
| nov | 28 | 2.99417 | 2.97662 | 89.35277 | 22.49 | dic | 21 | 2.98961 | 2.97198 | 89.35494 | 20.97 |
| nov | 29 | 2.99411 | 2.97655 | 89.35286 | 22.42 | dic | 22 | 2.98924 | 2.97161 | 89.35501 | 20.91 |
| nov | 30 | 2.99406 | 2.97650 | 89.35295 | 22.36 | dic | 23 | 2.98887 | 2.97124 | 89.35508 | 20.84 |
| dic | 1 | 2.99400 | 2.97644 | 89.35305 | 22.29 | dic | 24 | 2.98853 | 2.97089 | 89.35515 | 20.77 |
| dic | 2 | 2.99393 | 2.97637 | 89.35315 | 22.22 | dic | 25 | 2.98820 | 2.97056 | 89.35522 | 20.71 |
| dic | 3 | 2.99384 | 2.97627 | 89.35326 | 22.16 | dic | 26 | 2.98789 | 2.97025 | 89.35528 | 20.64 |
| dic | 4 | 2.99371 | 2.97613 | 89.35336 | 22.09 | dic | 27 | 2.98759 | 2.96995 | 89.35535 | 20.58 |
| dic | 5 | 2.99354 | 2.97596 | 89.35347 | 22.03 | dic | 28 | 2.98729 | 2.96965 | 89.35542 | 20.51 |
| dic | 6 | 2.99333 | 2.97575 | 89.35358 | 21.96 | dic | 29 | 2.98699 | 2.96934 | 89.35549 | 20.44 |

Constelaciones, 2020

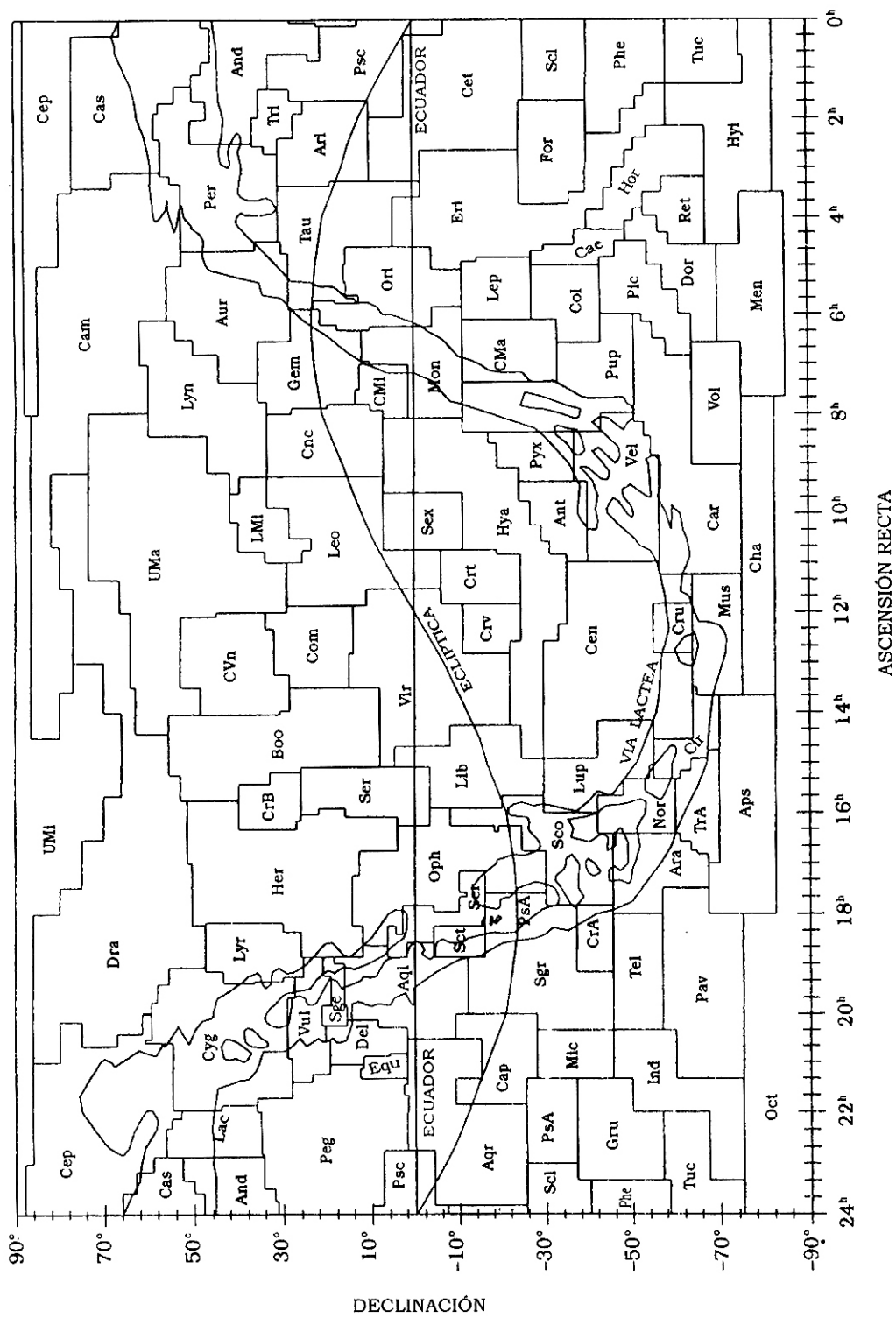
Nombres y significados

| Nominativo | Genitivo | Abreviatura | Significado |
|------------------|-------------------|-------------|-------------------------------------|
| Andromeda | Andromedae | And | Andrómeda, hija de Casiopea y Cefeo |
| Antlia | Antliae | Ant | Máquina neumática |
| Apus | Apodis | Aps | Ave del paraíso |
| Aquarius | Aquarii | Aqr | Aguador |
| Aquila | Aquilae | Aql | Aguila |
| Ara | Arae | Ara | Altar |
| Aries | Arietis | Ari | Carnero |
| Auriga | Aurigae | Aur | Cochero |
| Bootes | Bootis | Boo | Boyero o pastor |
| Caelum | Caeli | Cae | Buril |
| Camelopardalis | Camaleopardalis | Cam | Jirafa |
| Cancer | Cancri | Cnc | Cangrejo |
| Canes Venatici | Canum Venaticorum | CVn | Lebreses o perros de caza |
| Canis Major | Canis Majoris | CMa | Can mayor |
| Canis Minor | Canis Minoris | CMi | Can menor |
| Capricornus | Capricorni | Cap | Cabra marina |
| Carina | Carinae | Car | Carena o quilla |
| Cassiopeia | Cassiopeiae | Cas | Casiopea, reina |
| Centaurus | Centauri | Cen | Centauro |
| Cepheus | Cephei | Cep | Cefeo, rey |
| Cetus | Ceti | Cet | Cetáceo o ballena |
| Chamaleon | Chamaleontis | Cha | Camaleón |
| Circinus | Circini | Cir | Compás |
| Columba | Columbae | Col | Paloma |
| Coma Berenices | Comae Berenices | Com | Cabellera de Berenice |
| Corona Australis | Coronae Australis | CrA | Corona austral |
| Corona Borealis | Coronae Borealis | CrB | Corona boreal |
| Corvus | Corvi | Crv | Cuervo |
| Crater | Crateris | Crt | Copa |
| CruX | Crucis | Cru | Cruz del sur |
| Cygnus | Cygni | Cyg | Cisne |
| Delphinus | Delphini | Del | Delfín |
| Dorado | Doradus | Dor | Pez dorado |
| Draco | Draconis | Dra | Dragón |
| Equuleus | Equulei | Equ | Caballo menor |
| Eridanus | Eridani | Eri | Río |
| Fornax | Fornacis | For | Horno |
| Gemini | Gemini | Gem | Gemelos |
| Grus | Gruis | Gru | Grulla |
| Hercules | Herculis | Her | Hércules |
| Horologium | Horologii | Hor | Reloj |
| Hydra | Hydrae | Hya | Serpiente marina hembra |
| Hydrus | Hydri | Hyi | Serpiente marina macho |
| Indus | Indi | Ind | Indio |
| Lacerta | Lacertae | Lac | Lagartija |
| Leo | Leonis | Leo | León |
| Leo Minor | Leonis Minoris | LMi | León menor |
| Lepus | Leporis | Lep | Liebre |
| Libra | Librae | Lib | Balanza |
| Lupus | Lupi | Lup | Lobo |
| Lynx | Lyncis | Lyn | Lince |

Constelaciones, 2020

| Nominativo | Genitivo | Abreviatura | Significado |
|---------------------|---------------------|-------------|-----------------------|
| Lyra | Lyrae | Lyr | Lira |
| Mensa | Mensae | Men | Mesa o altiplano |
| Microscopium | Microscopii | Mic | Microscopio |
| Monoceros | Monocerotis | Mon | Unicornio |
| Musca | Muscae | Mus | Mosca |
| Norma | Normae | Nor | Escuadra o regla |
| Octantis | Octantis | Oct | Octante |
| Ophiuchus | Ophiuchi | Oph | Serpentero, Ofiuco |
| Orionis | Orionis | Ori | Cazador |
| Pavo | Pavonis | Pav | Pavo real, pavón |
| Pegasus | Pegasi | Peg | Pegaso |
| Perseus | Persei | Per | Salvador de Andrómeda |
| Phoenix | Phoenicis | Phe | Fénix |
| Pictor | Pictoris | Pic | Caballate de pintor |
| Pisces | Piscium | Psc | Peces |
| Piscis Austrinus | Piscis Austrini | PsA | Pez austral |
| Puppis | Puppis | Pup | Popa |
| Pyxis | Pyxidis | Pyx | Compás o brújula |
| Reticulum | Reticuli | Ret | Retrícula |
| Sagitta | Sagittae | Sge | Flecha |
| Sagittarius | Sagittarii | Sgr | Arquero |
| Scorpius | Scorpii | Sco | Escorpión |
| Sculptor | Sculptoris | Scl | Escultor |
| Scutum | Scuti | Sct | Escudo |
| Serpens | Serpentis | Ser | Serpiente |
| Sextans | Sextantis | Sex | Sextante |
| Taurus | Tauri | Tau | Toro |
| Telescopium | Telescopii | Tel | Telescopio |
| Triangulum | Trianguli | Tri | Triángulo |
| Triangulum-Australe | Trianguli-Australis | TrA | Triángulo austral |
| Tucana | Tucanae | Tuc | Tucán |
| Ursa Major | Ursae Majoris | UMa | Osa mayor |
| Ursa Minor | Ursae Minoris | UMi | Osa menor |
| Vela | Velorum | Vel | Vela |
| Virgo | Virginis | Vir | Virgen |
| Volans | Volantis | Vol | Pez volador |
| Vulpecula | Vulpeculae | Vul | Zorra |

Diagrama de constelaciones, 2020



Objetos Messier, 2020

| M | NGC | α | | | δ | | | const | v | tipo | descripción |
|------|------|----------|----|----|----------|----|----|-------|----|------|-----------------------------------|
| | | h | m | s | ° | ' | " | | | | |
| 110 | 205 | 0 | 40 | 24 | + 41 | 41 | 37 | And | 8 | E6 | Satélite de M31 |
| 032 | 221 | 0 | 42 | 42 | + 40 | 52 | 36 | And | 8 | E2 | Satélite de M31 |
| 031 | 224 | 0 | 42 | 42 | + 41 | 16 | 36 | And | 4 | S | Galaxia de Andrómeda |
| 103 | 581 | 1 | 33 | 12 | + 60 | 42 | 8 | Cas | 7 | ca | |
| 033 | 598 | 1 | 33 | 54 | + 30 | 39 | 17 | Tri | 7 | Sc | |
| 074 | 628 | 1 | 36 | 42 | + 15 | 47 | 26 | Psc | 10 | Sc | |
| 076 | 650 | 1 | 42 | 18 | + 51 | 34 | 9 | Per | 12 | np | Nebulosa, Pequeña Mancuerna |
| 077 | 1068 | 2 | 42 | 42 | - 0 | 1 | 22 | Cet | 9 | Sbp | Galaxia Seyfert |
| 034 | 1039 | 2 | 42 | 0 | + 42 | 47 | 4 | Per | 6 | ca | |
| 045 | | 3 | 47 | 18 | + 24 | 5 | 56 | Tau | 1 | ca | Pléyades |
| 079 | 1904 | 5 | 24 | 30 | - 24 | 33 | 6 | Lep | 8 | cg | |
| 038 | 1912 | 5 | 28 | 42 | + 35 | 50 | 15 | Aur | 6 | ca | |
| 001 | 1952 | 5 | 34 | 30 | + 22 | 1 | 13 | Tau | 8 | rsn | Nebulosa del Cangrejo |
| 042 | 1976 | 5 | 35 | 24 | - 5 | 27 | 2 | Ori | | ne | Nebulosa de Orión |
| 036 | 1960 | 5 | 36 | 6 | + 34 | 8 | 3 | Aur | 6 | ca | |
| 078 | 2068 | 5 | 46 | 42 | + 0 | 3 | 5 | Ori | | nr | |
| 037 | 2099 | 5 | 52 | 24 | + 32 | 33 | 10 | Aur | 6 | ca | |
| 035 | 2168 | 6 | 8 | 54 | + 24 | 20 | 5 | Gem | 5 | ca | |
| 041 | 2287 | 6 | 47 | 0 | - 20 | 44 | 5 | CMa | 5 | ca | |
| 050 | 2323 | 7 | 3 | 12 | - 8 | 20 | 1 | Mon | 7 | ca | |
| 047* | 2422 | 7 | 36 | 36 | - 14 | 30 | 4 | Pup | 5 | ca | |
| 046 | 2437 | 7 | 41 | 48 | - 14 | 49 | 6 | Pup | 6 | ca | |
| 093 | 2447 | 7 | 44 | 42 | - 23 | 52 | 13 | Pup | 6 | ca | |
| 048* | 2548 | 8 | 13 | 48 | - 5 | 48 | 3 | Hya | 5 | ca | |
| 044 | 2632 | 8 | 40 | 1 | + 19 | 59 | 1 | Cnc | 4 | ca | El Pesebre o La Colmena |
| 067 | 2682 | 8 | 50 | 24 | + 11 | 49 | 5 | Cnc | 6 | ca | Cúmulo muy viejo |
| 081 | 3031 | 9 | 55 | 30 | + 69 | 4 | 0 | UMa | 8 | Sb | |
| 082 | 3034 | 9 | 55 | 48 | + 69 | 41 | 1 | UMa | 9 | gPec | |
| 095 | 3351 | 10 | 40 | 0 | + 11 | 42 | 3 | Leo | 10 | SBb | Miembro del grupo de Leo |
| 096 | 3368 | 10 | 46 | 48 | + 11 | 49 | 14 | Leo | 9 | Sbp | Miembro del grupo de Leo |
| 105 | 3379 | 10 | 47 | 48 | + 12 | 35 | 3 | Leo | 9 | E1 | |
| 108 | 3556 | 11 | 11 | 30 | + 55 | 40 | 2 | UMa | 11 | Sc | |
| 097 | 3587 | 11 | 14 | 48 | + 55 | 1 | 5 | UMa | 12 | np | Nebulosa de la Lechuza |
| 065 | 3623 | 11 | 18 | 54 | + 13 | 5 | 14 | Leo | 9 | Sa | Miembro del grupo de Leo |
| 066 | 3627 | 11 | 20 | 12 | + 12 | 59 | 3 | Leo | 8 | Sb | Miembro del grupo de Leo |
| 109 | 3992 | 11 | 57 | 42 | + 53 | 23 | 1 | UMa | 11 | Sb | |
| 098 | 4192 | 12 | 13 | 48 | + 14 | 54 | 2 | Com | 11 | Sb | |
| 099 | 4254 | 12 | 18 | 48 | + 14 | 25 | 12 | Com | 10 | Sc | Miembro del cúmulo de Virgo |
| 106 | 4258 | 12 | 19 | 0 | + 47 | 18 | 2 | CVn | 9 | Sbp | Gran espiral |
| 061 | 4303 | 12 | 21 | 54 | + 4 | 28 | 3 | Vir | 10 | Sc | Miembro del cúmulo de Virgo |
| 040 | | 12 | 22 | 24 | + 58 | 5 | 13 | UMa | 9 | | Estrella binaria |
| 100 | 4321 | 12 | 22 | 54 | + 15 | 49 | 2 | Com | 11 | Sc | Miembro del cúmulo de Virgo |
| 084 | 4374 | 12 | 25 | 6 | + 12 | 53 | 12 | Vir | 9 | S0 | Miembro del cúmulo de Virgo |
| 085 | 4382 | 12 | 25 | 24 | + 18 | 11 | 2 | Com | 9 | S0 | Miembro del cúmulo de Virgo |
| 086 | 4406 | 12 | 26 | 6 | + 13 | 7 | 12 | Vir | 10 | E3 | |
| 049 | 4472 | 12 | 29 | 48 | + 8 | 0 | 12 | Vir | 9 | E4 | Elíptica gigante, cúmulo de Virgo |
| 087 | 4486 | 12 | 30 | 48 | + 12 | 24 | 22 | Vir | 9 | E0 | Elíptica gigante, cúmulo de Virgo |
| 088 | 4501 | 12 | 32 | 0 | + 14 | 25 | 3 | Com | 10 | Sc | Espiral, cúmulo de Virgo |
| 091* | 4548 | 12 | 35 | 24 | + 14 | 30 | 21 | Com | 11 | SBb | |
| 089 | 4552 | 12 | 35 | 42 | + 12 | 33 | 22 | Vir | 10 | E0 | |
| 090 | 4569 | 12 | 36 | 48 | + 13 | 10 | 3 | Vir | 10 | Sb | Miembro del cúmulo de Virgo |
| 058 | 4579 | 12 | 37 | 42 | + 11 | 49 | 12 | Vir | 9 | SB | Miembro del cúmulo de Virgo |
| 068 | 4590 | 12 | 39 | 30 | - 26 | 45 | 7 | Hya | 8 | cg | |
| 104 | 4594 | 12 | 40 | 0 | - 11 | 37 | 3 | Vir | 9 | Sb | Galaxia del Sombrero, en Virgo |
| 059 | 4621 | 12 | 42 | 0 | + 11 | 39 | 2 | Vir | 10 | E5 | Probable miembro de Virgo |

Objetos Messier, 2020

| M | NGC | α | | | δ | | | const | v | tipo | descripción |
|------|------|----------|----|----|----------|----|----|-------|----|------|----------------------------------|
| | | h | m | s | ° | ' | " | | | | |
| 060 | 4649 | 12 | 43 | 42 | + 11 | 33 | 20 | Vir | 9 | E2 | Elíptica del cúmulo de Virgo |
| 094 | 4736 | 12 | 50 | 54 | + 41 | 7 | 26 | CVn | 8 | Sbp | |
| 064 | 4826 | 12 | 56 | 42 | + 21 | 41 | 2 | Com | 9 | Sb | Con región oscura en el centro |
| 053 | 5024 | 13 | 12 | 54 | + 18 | 10 | 13 | Com | 8 | cg | |
| 063 | 5055 | 13 | 15 | 48 | + 42 | 2 | 4 | CVn | 10 | Sb | Galaxia de la Margarita |
| 051 | 5194 | 13 | 29 | 54 | + 47 | 12 | 4 | CVn | 8 | Sc | Galaxia del Remolino |
| 083 | 5236 | 13 | 37 | 0 | - 29 | 52 | 6 | Hya | 10 | Sc | |
| 003 | 5272 | 13 | 42 | 12 | + 28 | 23 | 26 | CVn | 6 | cg | Contiene muchas variables |
| 101 | 5457 | 14 | 3 | 12 | + 54 | 21 | 9 | UMa | 10 | Sc | |
| 102* | 5866 | 15 | 6 | 30 | + 55 | 46 | 4 | Dra | 11 | E6p | |
| 005 | 5904 | 15 | 18 | 36 | + 2 | 5 | 15 | Ser | 6 | cg | Con asimetría poco común |
| 080 | 6093 | 16 | 17 | 3 | - 22 | 58 | 3 | Sco | 8 | cg | |
| 004 | 6121 | 16 | 23 | 36 | - 26 | 32 | 5 | Sco | 6 | cg | Cúmulo más cercano a la Tierra |
| 107 | 6171 | 16 | 32 | 30 | - 13 | 3 | 15 | Oph | 9 | cg | |
| 013 | 6205 | 16 | 41 | 42 | + 36 | 28 | 2 | Her | 6 | cg | Gran cúmulo globular |
| 012 | 6218 | 16 | 47 | 12 | - 1 | 57 | 2 | Oph | 7 | cg | |
| 010 | 6254 | 16 | 57 | 64 | - 4 | 6 | 7 | Oph | 7 | cg | |
| 062 | 6266 | 17 | 1 | 12 | - 30 | 7 | 11 | Oph | 7 | cg | |
| 019 | 6273 | 17 | 2 | 36 | - 26 | 16 | 11 | Oph | 7 | cg | Cúmulo elongado |
| 092 | 6341 | 17 | 17 | 6 | + 43 | 8 | 12 | Her | 6 | cg | |
| 009 | 6333 | 17 | 19 | 12 | - 18 | 30 | 59 | Oph | 7 | cg | |
| 014 | 6402 | 17 | 37 | 36 | - 3 | 15 | 2 | Oph | 8 | cg | |
| 006 | 6405 | 17 | 40 | 6 | - 32 | 13 | 5 | Sco | 5 | ca | |
| 023 | 6494 | 17 | 56 | 48 | - 19 | 1 | 5 | Sgr | 7 | ca | |
| 020 | 6514 | 18 | 2 | 18 | - 23 | 2 | 5 | Sgr | 0 | ne | Nebulosa Trífida |
| 008 | 6523 | 18 | 3 | 48 | - 24 | 22 | 59 | Sgr | 0 | ne | Nebulosa de la Laguna |
| 021 | 6531 | 18 | 4 | 36 | - 22 | 30 | 5 | Sgr | 7 | ca | |
| 024 | | 18 | 16 | 54 | - 18 | 29 | 3 | Sgr | 5 | | Parte del bulbo de la Vía Láctea |
| 016 | 6611 | 18 | 18 | 48 | - 13 | 47 | 8 | Ser | | ne | |
| 018 | 6613 | 18 | 19 | 54 | - 17 | 8 | 3 | Sgr | 8 | ca | |
| 017 | 6618 | 18 | 20 | 48 | - 16 | 11 | 5 | Sgr | | ne | Nebulosa Omega |
| 028 | 6626 | 18 | 24 | 30 | - 24 | 52 | 10 | Sgr | 7 | cg | |
| 069 | 6637 | 18 | 31 | 24 | - 32 | 21 | 2 | Sgr | 9 | cg | Pequeño |
| 025 | 4725 | 18 | 31 | 36 | - 19 | 15 | 12 | Sgr | 7 | ca | |
| 022 | 6656 | 18 | 36 | 24 | - 23 | 54 | 1 | Sgr | 6 | cg | |
| 070 | 6681 | 18 | 43 | 12 | - 32 | 18 | 8 | Sgr | 10 | cg | Cercano a M69 |
| 026 | 6694 | 18 | 45 | 12 | - 9 | 24 | 16 | Sct | 9 | ca | Brillante |
| 011 | 6705 | 18 | 51 | 6 | - 6 | 16 | 15 | Sct | 6 | ca | Gran cúmulo |
| 057 | 6720 | 18 | 53 | 36 | + 33 | 2 | 5 | Lyr | 9 | np | Nebulosa del Anillo |
| 054 | 6715 | 18 | 55 | 6 | - 30 | 29 | 5 | Sgr | 9 | cg | Difícil observación |
| 056 | 6779 | 19 | 16 | 36 | + 30 | 11 | 3 | Lyr | 8 | cg | |
| 055 | 6809 | 19 | 40 | 0 | - 30 | 58 | 13 | Sgr | 7 | cg | |
| 071 | 6838 | 19 | 53 | 48 | + 18 | 47 | 1 | Sge | 9 | cg | |
| 027 | 6853 | 19 | 59 | 36 | + 22 | 43 | 11 | Vul | 8 | np | Nebulosa de la Mancuerna |
| 075 | 6864 | 20 | 6 | 6 | - 21 | 55 | 32 | Sgr | 8 | cg | Cúmulo lejano |
| 029 | 6913 | 20 | 23 | 54 | + 38 | 32 | 5 | Cyg | 7 | ca | |
| 072 | 6981 | 20 | 53 | 30 | - 12 | 32 | 18 | Aqr | 10 | cg | Nebulosa Saturno |
| 073 | 6994 | 20 | 59 | 0 | - 12 | 38 | 13 | Aqr | 11 | ca | Cuatro estrellas |
| 015 | 7078 | 21 | 30 | 0 | + 12 | 10 | 21 | Peg | 6 | cg | Cúmulo compacto |
| 039 | 7092 | 21 | 32 | 12 | + 48 | 26 | 24 | Cyg | 5 | ca | Cúmulo disperso |
| 002 | 7089 | 21 | 33 | 30 | - 0 | 49 | 11 | Aqr | 6 | cg | |
| 030 | 7099 | 21 | 40 | 24 | - 23 | 11 | 15 | Cap | 8 | cg | Cuasi elíptico |
| 052 | 7654 | 23 | 24 | 12 | + 61 | 35 | 7 | Cas | 7 | ca | Cúmulo rico |

*Existe controversia en la identificación de estos objetos.

Lluvias de estrellas, 2020

Lluvias de estrellas observables a simple vista

| Nombre | inicia | | máximo | | termina | | α | | δ | | obj./h | Cometa asociado |
|--------------------|--------|----|--------|----|---------|----|----------|----|----------|----|--------|----------------------|
| | m | d | m | d | m | d | h | m | ° | ' | | |
| Cuadrántidas | ene | 01 | ene | 03 | ene | 05 | 15 | 18 | +49 | 41 | 120 | |
| Cancerínidas | ene | 01 | ene | 17 | ene | 24 | 08 | 42 | +20 | 28 | 4 | |
| Centáuridas | ene | 28 | feb | 07 | feb | 21 | 14 | 00 | -59 | 56 | 6 | |
| Leónidas | feb | 15 | feb | 24 | mar | 10 | 11 | 12 | +16 | 23 | 2 | |
| Nórmidas | feb | 25 | mar | 13 | mar | 22 | 16 | 36 | -51 | 56 | 8 | |
| Virgínidas | ene | 25 | mar | 25 | abr | 15 | 13 | 00 | -04 | 30 | 5 | |
| Líridas | abr | 16 | abr | 22 | abr | 25 | 18 | 06 | +34 | 49 | 15 | C/Thatcher (1861 G1) |
| Púpidas | abr | 15 | abr | 24 | abr | 28 | 07 | 18 | -45 | 18 | 26 | P/Grigg-Skjellerup |
| Acuáridas | abr | 19 | may | 06 | may | 28 | 22 | 30 | -01 | 66 | 60 | P/Halley |
| Sagitáridas | abr | 15 | may | 20 | jul | 15 | 16 | 30 | -22 | 30 | 5 | |
| Pegásidas | jul | 07 | jul | 10 | jul | 13 | 22 | 42 | +15 | 70 | 3 | |
| Fenícidas | jul | 10 | jul | 13 | jul | 16 | 02 | 06 | -48 | 47 | | |
| Piscis Austrínidas | jul | 15 | jul | 28 | ago | 10 | 22 | 42 | -30 | 35 | 5 | |
| Acuáridas | jul | 12 | jul | 28 | ago | 19 | 22 | 36 | -16 | 41 | 20 | |
| Capricórnidas | jul | 03 | jul | 30 | ago | 15 | 20 | 30 | -10 | 23 | 4 | |
| Acuáridas(sur) | jul | 25 | ago | 04 | ago | 15 | 22 | 18 | -15 | 34 | 2 | |
| Acuáridas(norte) | jul | 15 | ago | 09 | ago | 25 | 22 | 18 | -05 | 42 | 4 | |
| Perséidas | jul | 17 | ago | 12 | ago | 24 | 03 | 06 | +58 | 59 | 140 | P/Swift-Tuttle |
| Cígnidas | ago | 03 | ago | 18 | ago | 25 | 19 | 06 | +59 | 25 | 3 | |
| Acuáridas(norte) | ago | 11 | ago | 20 | ago | 31 | 21 | 48 | -06 | 31 | 3 | |
| Aurígidas | ago | 25 | sep | 01 | sep | 05 | 05 | 36 | +42 | 66 | 10 | |
| Aurígidas | sep | 05 | sep | 09 | oct | 10 | 04 | 00 | +47 | 64 | 6 | |
| Piscidas | sep | 01 | sep | 20 | sep | 30 | 00 | 18 | -01 | 26 | 3 | |
| Dracónidas | oct | 06 | oct | 09 | oct | 10 | 17 | 30 | +54 | 20 | 21 | P/Giacobini-Zinner |
| Gemínidas | oct | 14 | oct | 18 | oct | 27 | 06 | 48 | +27 | 70 | 2 | C/Ikeya (1964 N1) |
| Oriónidas | oct | 02 | oct | 21 | nov | 07 | 06 | 18 | +16 | 66 | 20 | P/Halley |
| Táuridas (sur) | oct | 01 | nov | 05 | nov | 25 | 03 | 30 | +13 | 27 | 5 | P/Encke |
| Táuridas (norte) | oct | 01 | nov | 12 | nov | 25 | 03 | 54 | +22 | 29 | 5 | P/Encke |
| Leonidas | nov | 14 | nov | 17 | nov | 21 | 10 | 12 | +22 | 71 | 100 | P/Tempel-Tuttle |
| Monocéridas | nov | 15 | nov | 22 | nov | 25 | 07 | 48 | +01 | 65 | | |
| Oriónidas | nov | 26 | dic | 02 | dic | 15 | 05 | 30 | +23 | 28 | 3 | |
| Fenícidas | nov | 28 | dic | 06 | dic | 09 | 01 | 12 | -53 | 18 | | D/Blanpain (1819 W1) |
| Pupi vélidas | dic | 01 | dic | 07 | dic | 15 | 08 | 12 | -45 | 40 | 10 | |
| Monocéridas | nov | 27 | dic | 09 | dic | 17 | 15 | 00 | +08 | 42 | 3 | D/Mellish (1917 F1) |
| Hídridas | dic | 03 | dic | 12 | dic | 15 | 08 | 30 | +02 | 58 | 2 | |
| Gemínidas | dic | 07 | dic | 14 | dic | 17 | 07 | 30 | +33 | 35 | 120 | Phaethon |
| Coma Berenícidas | dic | 12 | dic | 20 | ene | 23 | 11 | 42 | +25 | 65 | 5 | |
| Úrsidas | dic | 17 | dic | 22 | dic | 26 | 15 | 00 | +76 | 33 | 10 | P/Tuttle |

Eventos Planetarios, 2020

Hora del meridiano 90° W.G.

| Mes | | | | Eventos | | | | Mes | | | | Eventos | | | | |
|----------------|----|----------|-----------------------------|--------------|----|----------|--------------------------|-----|----|----------|-----------------------------|---------|----|----------|-----------------------------|--|
| d | h | objeto | suceso | d | h | objeto | suceso | d | h | objeto | suceso | d | h | objeto | suceso | |
| Enero | | | | | | | | | | | | | | | | |
| 1 | 20 | Luna | Apogeo | 7 | 12 | Luna | Perigeo | 7 | 21 | Luna | Luna Llena | 14 | 16 | Plutón | 1.2° al norte de la Luna* | |
| 2 | 23 | Luna | Cuarto Menguante | 14 | 17 | Júpiter | 2° al norte de la Luna | 14 | 17 | Luna | Cuarto Menguante | 15 | 3 | Saturno | 2° al norte de la Luna | |
| 4 | 12 | Urano | 5° al norte de la Luna | 15 | 23 | Marte | 2° al norte de la Luna | 17 | 14 | Venus | Al norte de Aldebaran | 17 | 14 | Venus | Al norte de Aldebaran | |
| 5 | 2 | Tierra | Perihelio | 19 | 1 | Neptuno | 4° al norte de la Luna | 20 | 13 | Luna | Apogeo | 22 | 20 | Luna | Luna Nueva | |
| 10 | 9 | Mercurio | Conjunción superior | 26 | 3 | Urano | Conjunción con el Sol | 26 | 7 | Plutón | Estacionario | 26 | 9 | Venus | 6° al norte de la Luna | |
| 10 | 13 | Luna | Luna Llena** | 27 | 19 | Venus | Máximo brillo | 30 | 15 | Luna | Cuarto Menguante | | | | | |
| 11 | 1 | Urano | Estacionario | Mayo | | | | 4 | 16 | Mercurio | Conjunción superior | | | | | |
| 13 | 7 | Plutón | Conjunción con el Sol | 5 | 21 | Luna | Perigeo | 7 | 5 | Luna | Luna Llena | 11 | 3 | Saturno | Estacionario | |
| 13 | 9 | Saturno | Conjunción con el Sol | 11 | 3 | Saturno | Estacionario | 12 | 4 | Júpiter | 2° al norte de la Luna | 12 | 4 | Júpiter | 2° al norte de la Luna | |
| 13 | 14 | Luna | Perigeo | 12 | 4 | Júpiter | 2° al norte de la Luna | 12 | 12 | Saturno | 3° al norte de la Luna | 13 | 4 | Venus | Estacionario | |
| 16 | 22 | Marte | 5° al norte de Antares | 12 | 12 | Saturno | 3° al norte de la Luna | 14 | 8 | Luna | Cuarto Menguante | 14 | 12 | Júpiter | Estacionario | |
| 17 | 7 | Luna | Cuarto Menguante | 14 | 20 | Marte | 3° al norte de la Luna | 14 | 12 | Júpiter | Estacionario | 14 | 20 | Marte | 3° al norte de la Luna | |
| 20 | 13 | Marte | 2° al sur de la Luna | 16 | 9 | Neptuno | 4° al norte de la Luna | 16 | 9 | Neptuno | 4° al norte de la Luna | 17 | 3 | Mercurio | 7° al norte de Aldebaran | |
| 22 | 21 | Júpiter | 0.4° al norte de la Luna* | 17 | 3 | Mercurio | 7° al norte de Aldebaran | 18 | 2 | Luna | Apogeo | 18 | 2 | Luna | Apogeo | |
| 24 | 16 | Luna | Luna Nueva | 20 | 10 | Urano | 4° al norte de la Luna | 20 | 10 | Urano | 4° al norte de la Luna | 22 | 2 | Mercurio | 0.9 al sur de Venus | |
| 27 | 13 | Venus | 0.08° al sur de Neptuno | 22 | 2 | Mercurio | 0.9 al sur de Venus | 22 | 12 | Luna | Luna Nueva | 22 | 12 | Luna | Luna Nueva | |
| 28 | 0 | Neptuno | 4° al norte de la Luna | 22 | 12 | Luna | Luna Nueva | 23 | 21 | Venus | 4° al norte de la Luna | 23 | 21 | Venus | 4° al norte de la Luna | |
| 28 | 1 | Venus | 4° al norte de la Luna | 24 | 5 | Mercurio | 3° al norte de la Luna | 24 | 5 | Mercurio | 3° al norte de la Luna | 29 | 21 | Luna | Cuarto Menguante | |
| 29 | 15 | Luna | Apogeo | Junio | | | | 2 | 22 | Luna | Perigeo | 2 | 22 | Luna | Perigeo | |
| 31 | 21 | Urano | 5° al norte de la Luna | 3 | 12 | Venus | Conjunción inferior | 3 | 12 | Venus | Conjunción inferior | 4 | 7 | Mercurio | Elongación máxima al E(24°) | |
| Febrero | | | | | | | | 4 | 7 | Mercurio | Elongación máxima al E(24°) | 5 | 13 | Luna | Luna Llena | |
| 1 | 20 | Luna | Cuarto Menguante | 5 | 13 | Luna | Luna Llena | 8 | 11 | Júpiter | 2° al norte de la Luna | 8 | 11 | Júpiter | 2° al norte de la Luna | |
| 9 | 2 | Luna | Luna Llena | 8 | 11 | Júpiter | 2° al norte de la Luna | 8 | 20 | Saturno | 3° al norte de la Luna | 8 | 20 | Saturno | 3° al norte de la Luna | |
| 10 | 8 | Mercurio | Elongación máxima al E(18°) | 12 | 6 | Marte | 1.7° al sur de Neptuno | 12 | 6 | Marte | 1.7° al sur de Neptuno | 12 | 6 | Marte | 1.7° al sur de Neptuno | |
| 10 | 14 | Luna | Perigeo | 12 | 17 | Neptuno | 4° al norte de la Luna | 12 | 17 | Neptuno | 4° al norte de la Luna | 12 | 17 | Neptuno | 4° al norte de la Luna | |
| 15 | 16 | Luna | Cuarto Menguante | 12 | 18 | Marte | 3° al norte de la Luna | 12 | 18 | Marte | 3° al norte de la Luna | 13 | 0 | Luna | Cuarto Menguante | |
| 16 | 4 | Mercurio | Estacionario | 13 | 0 | Luna | Cuarto Menguante | 13 | 0 | Luna | Cuarto Menguante | 14 | 19 | Luna | Apogeo | |
| 18 | 7 | Marte | 0.8° al sur de la Luna* | 14 | 19 | Luna | Apogeo | 14 | 19 | Luna | Apogeo | 16 | 20 | Urano | 4° al norte de la Luna | |
| 19 | 14 | Júpiter | 0.9° al norte de la Luna* | 16 | 20 | Urano | 4° al norte de la Luna | 16 | 20 | Urano | 4° al norte de la Luna | 17 | 14 | Mercurio | Estacionario | |
| 20 | 2 | Plutón | 0.7° al norte de la Luna* | 17 | 14 | Mercurio | Estacionario | 17 | 14 | Mercurio | Estacionario | 19 | 3 | Venus | 0.7° al sur de la Luna* | |
| 20 | 8 | Saturno | 1.7° al norte de la Luna | 19 | 3 | Venus | 0.7° al sur de la Luna* | 19 | 3 | Venus | 0.7° al sur de la Luna* | 20 | 16 | Sol | Solsticio | |
| 23 | 10 | Luna | Luna Nueva | 20 | 16 | Sol | Solsticio | 20 | 16 | Sol | Solsticio | 21 | 1 | Luna | Luna Nueva** | |
| 25 | 20 | Mercurio | Conjunción inferior | 21 | 1 | Luna | Luna Nueva** | 21 | 1 | Luna | Luna Nueva** | 23 | 12 | Neptuno | Estacionario | |
| 26 | 6 | Luna | Apogeo | 23 | 12 | Neptuno | Estacionario | 23 | 12 | Neptuno | Estacionario | 24 | 12 | Venus | Estacionario | |
| 27 | 6 | Venus | 6° al norte de la Luna | 24 | 12 | Venus | Estacionario | 24 | 12 | Venus | Estacionario | 28 | 2 | Luna | Cuarto Menguante | |
| 28 | 6 | Urano | 4° al norte de la Luna | 28 | 2 | Luna | Cuarto Menguante | 28 | 2 | Luna | Cuarto Menguante | 29 | 20 | Luna | Perigeo | |
| Marzo | | | | 29 | 20 | Luna | Perigeo | 30 | 21 | Mercurio | Conjunción inferior | | | | | |
| 2 | 14 | Luna | Cuarto Menguante | Julio | | | | 4 | 6 | Tierra | Afelio | | | | | |
| 8 | 6 | Neptuno | Conjunción con el Sol | 4 | 6 | Tierra | Afelio | 4 | 23 | Luna | Luna Llena** | | | | | |
| 9 | 2 | Mercurio | Estacionario | 5 | 16 | Júpiter | 1.9° al norte de la Luna | | | | | | | | | |
| 9 | 9 | Venus | 2° al norte de Urano | | | | | | | | | | | | | |
| 9 | 12 | Luna | Luna Llena | | | | | | | | | | | | | |
| 10 | 0 | Luna | Perigeo | | | | | | | | | | | | | |
| 16 | 4 | Luna | Cuarto Menguante | | | | | | | | | | | | | |
| 18 | 2 | Marte | 0.7° al norte de la Luna* | | | | | | | | | | | | | |
| 18 | 4 | Júpiter | 1.5° al norte de la Luna | | | | | | | | | | | | | |
| 18 | 9 | Plutón | 0.9° al norte de la Luna* | | | | | | | | | | | | | |
| 18 | 18 | Saturno | 2° al norte de la Luna | | | | | | | | | | | | | |
| 19 | 22 | Sol | Equinoccio | | | | | | | | | | | | | |
| 20 | 0 | Marte | 0.7° al sur de Júpiter | | | | | | | | | | | | | |
| 21 | 12 | Mercurio | 4° al norte de la Luna | | | | | | | | | | | | | |
| 23 | 20 | Mercurio | Elongación máxima al E(28°) | | | | | | | | | | | | | |
| 24 | 3 | Luna | 4° al norte de la Luna | | | | | | | | | | | | | |
| 24 | 9 | Luna | Apogeo | | | | | | | | | | | | | |
| 24 | 16 | Venus | Elongación máxima al E(46°) | | | | | | | | | | | | | |
| 26 | 15 | Urano | 4° al norte de la Luna | | | | | | | | | | | | | |
| 28 | 5 | Venus | 7° al norte de la Luna | | | | | | | | | | | | | |
| 31 | 5 | Marte | 0.9° al sur de Saturno | | | | | | | | | | | | | |
| Abril | | | | | | | | | | | | | | | | |
| 1 | 4 | Luna | Cuarto Menguante | | | | | | | | | | | | | |
| 3 | 9 | Mercurio | 1.4° al sur de Neptuno | | | | | | | | | | | | | |

Eventos Planetarios, 2020

Hora del meridiano 90° W.G.

| Mes | | | | Eventos | | | | Mes | | | | Eventos | | | |
|-------------------|----|----------|-----------------------------|------------------|----|----------|-----------------------------|-----|----|----------|-----------------------------|---------|----|----------|-----------------------------|
| d | h | objeto | suceso | d | h | objeto | suceso | d | h | objeto | suceso | d | h | objeto | suceso |
| 6 | 3 | Saturno | 2° al norte de la Luna | Octubre | | | | 1 | 10 | Mercurio | Elongación máxima al O(26°) | 1 | 10 | Mercurio | Elongación máxima al O(26°) |
| 10 | 1 | Neptuno | 4° al norte de la Luna | 1 | 15 | Luna | Luna Llena | 1 | 15 | Luna | Luna Llena | 1 | 15 | Luna | Luna Llena |
| 10 | 2 | Venus | Máximo brillo | 2 | 18 | Venus | 0.09° al sur de Régulo | 2 | 18 | Venus | 0.09° al sur de Régulo | 2 | 18 | Venus | 0.09° al sur de Régulo |
| 11 | 14 | Marte | 2° al norte de la Luna | 2 | 21 | Marte | 0.7° al norte de la Luna* | 2 | 21 | Marte | 0.7° al norte de la Luna* | 2 | 21 | Marte | 0.7° al norte de la Luna* |
| 12 | 1 | Mercurio | Estacionario | 3 | 11 | Luna | Apogeo | 3 | 11 | Luna | Apogeo | 3 | 11 | Luna | Apogeo |
| 12 | 1 | Venus | 1° al norte de Aldebarán | 4 | 0 | Plutón | Estacionario | 4 | 0 | Plutón | Estacionario | 4 | 0 | Plutón | Estacionario |
| 12 | 13 | Luna | Apogeo | 4 | 3 | Urano | 3° al norte de la Luna | 4 | 3 | Urano | 3° al norte de la Luna | 4 | 3 | Urano | 3° al norte de la Luna |
| 12 | 17 | Luna | Cuarto Menguante | 6 | 8 | Marte | Distancia mínima | 6 | 8 | Marte | Distancia mínima | 6 | 8 | Marte | Distancia mínima |
| 14 | 2 | Júpiter | Oposición | 9 | 19 | Luna | Cuarto Menguante | 9 | 19 | Luna | Cuarto Menguante | 9 | 19 | Luna | Cuarto Menguante |
| 14 | 6 | Urano | 4° al norte de la Luna | 13 | 17 | Marte | Oposición | 13 | 17 | Marte | Oposición | 13 | 17 | Marte | Oposición |
| 15 | 13 | Plutón | Oposición | 13 | 18 | Venus | 4° al sur de la Luna | 13 | 18 | Venus | 4° al sur de la Luna | 13 | 18 | Venus | 4° al sur de la Luna |
| 17 | 1 | Venus | 3° al sur de la Luna | 13 | 22 | Mercurio | Estacionario | 13 | 22 | Mercurio | Estacionario | 13 | 22 | Mercurio | Estacionario |
| 18 | 22 | Mercurio | 4° al sur de la Luna | 16 | 14 | Luna | Luna Nueva | 16 | 14 | Luna | Luna Nueva | 16 | 14 | Luna | Luna Nueva |
| 20 | 12 | Luna | Luna Nueva | 16 | 18 | Luna | Perigeo | 16 | 18 | Luna | Perigeo | 16 | 18 | Luna | Perigeo |
| 20 | 16 | Saturno | Oposición | 17 | 13 | Mercurio | 7° al sur de la Luna | 17 | 13 | Mercurio | 7° al sur de la Luna | 17 | 13 | Mercurio | 7° al sur de la Luna |
| 22 | 9 | Mercurio | Elongación máxima al O(20°) | 22 | 11 | Júpiter | 2° al norte de la Luna | 22 | 11 | Júpiter | 2° al norte de la Luna | 22 | 11 | Júpiter | 2° al norte de la Luna |
| 24 | 23 | Luna | Perigeo | 22 | 22 | Saturno | 3° al norte de la Luna | 22 | 22 | Saturno | 3° al norte de la Luna | 22 | 22 | Saturno | 3° al norte de la Luna |
| 27 | 7 | Luna | Cuarto Menguante | 23 | 7 | Luna | Cuarto Menguante | 23 | 7 | Luna | Cuarto Menguante | 23 | 7 | Luna | Cuarto Menguante |
| Agosto | | | | 25 | 12 | Mercurio | Conjunción inferior | 25 | 12 | Mercurio | Conjunción inferior | 25 | 12 | Mercurio | Conjunción inferior |
| 1 | 18 | Júpiter | 1.5° al norte de la Luna | 27 | 0 | Neptuno | 4° al norte de la Luna | 27 | 0 | Neptuno | 4° al norte de la Luna | 27 | 0 | Neptuno | 4° al norte de la Luna |
| 2 | 0 | Mercurio | 7° al sur de Polux | 29 | 10 | Marte | 3° al norte de la Luna | 29 | 10 | Marte | 3° al norte de la Luna | 29 | 10 | Marte | 3° al norte de la Luna |
| 2 | 0 | Plutón | 1.1° al norte de la Luna* | 30 | 13 | Luna | Apogeo | 30 | 13 | Luna | Apogeo | 30 | 13 | Luna | Apogeo |
| 2 | 7 | Saturno | 2° al norte de la Luna | 31 | 7 | Urano | 3° al norte de la Luna | 31 | 7 | Urano | 3° al norte de la Luna | 31 | 7 | Urano | 3° al norte de la Luna |
| 3 | 10 | Luna | Luna Llena | 31 | 9 | Luna | Luna Llena | 31 | 9 | Luna | Luna Llena | 31 | 9 | Luna | Luna Llena |
| 6 | 9 | Neptuno | 4° al norte de la Luna | 31 | 10 | Urano | Oposición | 31 | 10 | Urano | Oposición | 31 | 10 | Urano | Oposición |
| 9 | 2 | Marte | 0.8° al norte de la Luna* | Noviembre | | | | 3 | 2 | Mercurio | Estacionario | 3 | 2 | Mercurio | Estacionario |
| 9 | 8 | Luna | Apogeo | 8 | 8 | Luna | Cuarto Menguante | 8 | 8 | Luna | Cuarto Menguante | 8 | 8 | Luna | Cuarto Menguante |
| 10 | 15 | Urano | 4° al norte de la Luna | 10 | 11 | Mercurio | Elongación máxima al O(19°) | 10 | 11 | Mercurio | Elongación máxima al O(19°) | 10 | 11 | Mercurio | Elongación máxima al O(19°) |
| 11 | 11 | Luna | Cuarto Menguante | 12 | 15 | Venus | 3° al sur de la Luna | 12 | 15 | Venus | 3° al sur de la Luna | 12 | 15 | Venus | 3° al sur de la Luna |
| 12 | 18 | Venus | Elongación máxima al O(46°) | 13 | 15 | Mercurio | 1.7° al sur de la Luna | 13 | 15 | Mercurio | 1.7° al sur de la Luna | 13 | 15 | Mercurio | 1.7° al sur de la Luna |
| 15 | 7 | Venus | 4° al sur de la Luna | 14 | 6 | Luna | Perigeo | 14 | 6 | Luna | Perigeo | 14 | 6 | Luna | Perigeo |
| 15 | 11 | Urano | Estacionario | 14 | 23 | Luna | Luna Nueva | 14 | 23 | Luna | Luna Nueva | 14 | 23 | Luna | Luna Nueva |
| 17 | 9 | Mercurio | Conjunción superior | 15 | 7 | Venus | 4° al norte de Espiga | 15 | 7 | Venus | 4° al norte de Espiga | 15 | 7 | Venus | 4° al norte de Espiga |
| 18 | 21 | Luna | Luna Nueva | 15 | 13 | Marte | Estacionario | 15 | 13 | Marte | Estacionario | 15 | 13 | Marte | Estacionario |
| 21 | 5 | Luna | Perigeo | 19 | 3 | Júpiter | 2° al norte de la Luna | 19 | 3 | Júpiter | 2° al norte de la Luna | 19 | 3 | Júpiter | 2° al norte de la Luna |
| 25 | 12 | Luna | Cuarto Menguante | 19 | 9 | Saturno | 3° al norte de la Luna | 19 | 9 | Saturno | 3° al norte de la Luna | 19 | 9 | Saturno | 3° al norte de la Luna |
| 28 | 20 | Júpiter | 1.4° al norte de la Luna | 21 | 23 | Luna | Cuarto Menguante | 21 | 23 | Luna | Cuarto Menguante | 21 | 23 | Luna | Cuarto Menguante |
| 29 | 5 | Plutón | 1.2° al norte de la Luna* | 23 | 6 | Neptuno | 5° al norte de la Luna | 23 | 6 | Neptuno | 5° al norte de la Luna | 23 | 6 | Neptuno | 5° al norte de la Luna |
| 29 | 11 | Saturno | 2° al norte de la Luna | 25 | 14 | Marte | 5° al norte de la Luna | 25 | 14 | Marte | 5° al norte de la Luna | 25 | 14 | Marte | 5° al norte de la Luna |
| Septiembre | | | | 26 | 18 | Luna | Apogeo | 26 | 18 | Luna | Apogeo | 26 | 18 | Luna | Apogeo |
| 1 | 11 | Venus | 9° al sur de Polux | 27 | 11 | Urano | 3° al norte de la Luna | 27 | 11 | Urano | 3° al norte de la Luna | 27 | 11 | Urano | 3° al norte de la Luna |
| 1 | 23 | Luna | Luna Llena | 29 | 3 | Neptuno | Estacionario | 29 | 3 | Neptuno | Estacionario | 29 | 3 | Neptuno | Estacionario |
| 2 | 15 | Neptuno | 4° al norte de la Luna | 30 | 3 | Luna | Luna Llena | 30 | 3 | Luna | Luna Llena | 30 | 3 | Luna | Luna Llena |
| 5 | 23 | Marte | 0.03° al sur de la Luna* | Diciembre | | | | 7 | 19 | Luna | Cuarto Menguante | 7 | 19 | Luna | Cuarto Menguante |
| 7 | 0 | Luna | Apogeo | 12 | 15 | Luna | Perigeo | 12 | 15 | Luna | Perigeo | 12 | 15 | Luna | Perigeo |
| 6 | 22 | Urano | 3° al norte de la Luna | 12 | 15 | Venus | 0.8° al sur de la Luna* | 12 | 15 | Venus | 0.8° al sur de la Luna* | 12 | 15 | Venus | 0.8° al sur de la Luna* |
| 9 | 12 | Marte | Estacionario | 14 | 10 | Luna | Luna Nueva | 14 | 10 | Luna | Luna Nueva | 14 | 10 | Luna | Luna Nueva |
| 10 | 3 | Luna | Cuarto Menguante | 16 | 22 | Júpiter | 3° al norte de la Luna | 16 | 22 | Júpiter | 3° al norte de la Luna | 16 | 22 | Júpiter | 3° al norte de la Luna |
| 11 | 14 | Neptuno | Oposición | 16 | 23 | Saturno | 3° al norte de la Luna | 16 | 23 | Saturno | 3° al norte de la Luna | 16 | 23 | Saturno | 3° al norte de la Luna |
| 12 | 18 | Júpiter | Estacionario | 19 | 21 | Mercurio | Conjunción superior | 19 | 21 | Mercurio | Conjunción superior | 19 | 21 | Mercurio | Conjunción superior |
| 13 | 23 | Venus | 4° al sur de la Luna | 20 | 14 | Neptuno | 5° al norte de la Luna | 20 | 14 | Neptuno | 5° al norte de la Luna | 20 | 14 | Neptuno | 5° al norte de la Luna |
| 17 | 5 | Luna | Luna Nueva | 21 | 4 | Sol | Solsticio | 21 | 4 | Sol | Solsticio | 21 | 4 | Sol | Solsticio |
| 18 | 8 | Luna | Perigeo | 21 | 8 | Júpiter | 0.1° al sur de Saturno | 21 | 8 | Júpiter | 0.1° al sur de Saturno | 21 | 8 | Júpiter | 0.1° al sur de Saturno |
| 18 | 16 | Mercurio | 6° al sur de la Luna | 21 | 18 | Luna | Cuarto Menguante | 21 | 18 | Luna | Cuarto Menguante | 21 | 18 | Luna | Cuarto Menguante |
| 22 | 3 | Mercurio | 0.4° al norte de Espiga | 22 | 19 | Venus | 6° al norte de Antares | 22 | 19 | Venus | 6° al norte de Antares | 22 | 19 | Venus | 6° al norte de Antares |
| 22 | 8 | Sol | Equinoccio | 23 | 13 | Marte | 6° al norte de la Luna | 23 | 13 | Marte | 6° al norte de la Luna | 23 | 13 | Marte | 6° al norte de la Luna |
| 23 | 20 | Luna | Cuarto Menguante | 24 | 11 | Luna | Apogeo | 24 | 11 | Luna | Apogeo | 24 | 11 | Luna | Apogeo |
| 25 | 1 | Júpiter | 1.6° al norte de la Luna | 30 | 17 | Urano | 3° al norte de la Luna | 30 | 17 | Urano | 3° al norte de la Luna | 30 | 17 | Urano | 3° al norte de la Luna |
| 25 | 15 | Saturno | 2° al norte de la Luna | 29 | 21 | Luna | Luna Llena | 29 | 21 | Luna | Luna Llena | 29 | 21 | Luna | Luna Llena |
| 28 | 21 | Saturno | Estacionario | | | | | | | | | | | | |
| 29 | 20 | Neptuno | 4° al norte de la Luna | | | | | | | | | | | | |

* Ocultaciones.

** Eclipses

Fases de la Luna, 2020

Hora del meridiano 90° W.G.

Luna Nueva

| mes | d | h | m |
|-----|-----|-----|-----|
| | ... | ... | ... |
| ene | 24 | 15 | 42 |
| feb | 23 | 9 | 32 |
| mar | 24 | 3 | 28 |
| abr | 22 | 20 | 26 |
| may | 22 | 11 | 39 |
| jun | 21 | 0 | 41 |
| jul | 20 | 11 | 33 |
| ago | 18 | 20 | 42 |
| sep | 17 | 5 | 0 |
| oct | 16 | 13 | 31 |
| nov | 14 | 23 | 7 |
| dic | 14 | 10 | 16 |

Cuarto Creciente

| mes | d | h | m |
|-----|----|----|----|
| ene | 2 | 22 | 41 |
| feb | 1 | 19 | 42 |
| mar | 2 | 13 | 57 |
| abr | 1 | 4 | 21 |
| abr | 30 | 14 | 38 |
| may | 29 | 21 | 30 |
| jun | 28 | 2 | 16 |
| jul | 27 | 6 | 32 |
| ago | 25 | 11 | 58 |
| sep | 23 | 19 | 55 |
| oct | 23 | 7 | 23 |
| nov | 21 | 22 | 45 |
| dic | 21 | 17 | 41 |

Luna Llena

| mes | d | h | m |
|-----|----|----|----|
| ene | 10 | 13 | 21 |
| feb | 9 | 1 | 33 |
| mar | 9 | 11 | 48 |
| abr | 7 | 20 | 35 |
| may | 7 | 4 | 45 |
| jun | 5 | 13 | 12 |
| jul | 4 | 22 | 44 |
| ago | 3 | 9 | 59 |
| sep | 1 | 23 | 22 |
| oct | 1 | 15 | 5 |
| oct | 31 | 8 | 49 |
| nov | 30 | 3 | 30 |
| dic | 29 | 21 | 28 |

Cuarto Menguante

| mes | d | h | m |
|-----|-----|-----|-----|
| ene | 17 | 6 | 58 |
| feb | 15 | 16 | 17 |
| mar | 16 | 3 | 34 |
| abr | 14 | 16 | 56 |
| may | 14 | 8 | 3 |
| jun | 13 | 0 | 24 |
| jul | 12 | 17 | 29 |
| ago | 11 | 10 | 45 |
| sep | 10 | 3 | 26 |
| oct | 9 | 18 | 39 |
| nov | 8 | 7 | 46 |
| dic | 7 | 18 | 36 |
| | ... | ... | ... |

Crepúsculos, salidas y puestas de Sol, 2019

Hora local

LATITUD 30°

| | AM | CM | SS | PS | CV | AV | | AM | CM | SS | PS | CV | AV |
|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| | h m | h m | h m | h m | h m | h m | | h m | h m | h m | h m | h m | h m |
| Ene 1 | 5 31 | 6 30 | 6 56 | 17 12 | 17 38 | 18 37 | Jul 6 | 3 29 | 4 37 | 5 05 | 19 05 | 19 32 | 20 40 |
| 7 | 5 32 | 6 31 | 6 57 | 17 16 | 17 42 | 18 41 | 12 | 3 33 | 4 41 | 5 08 | 19 04 | 19 30 | 20 38 |
| 13 | 5 33 | 6 31 | 6 57 | 17 21 | 17 47 | 18 45 | 18 | 3 38 | 4 44 | 5 11 | 19 01 | 19 28 | 20 34 |
| 19 | 5 32 | 6 30 | 6 56 | 17 26 | 17 52 | 18 50 | 24 | 3 43 | 4 48 | 5 14 | 18 58 | 19 25 | 20 30 |
| 25 | 5 31 | 6 28 | 6 54 | 17 31 | 17 57 | 18 54 | 30 | 3 48 | 4 52 | 5 18 | 18 55 | 19 21 | 20 24 |
| 31 | 5 29 | 6 26 | 6 51 | 17 37 | 18 02 | 18 59 | Ago 5 | 3 53 | 4 56 | 5 22 | 18 50 | 19 16 | 20 18 |
| Feb 6 | 5 26 | 6 22 | 6 47 | 17 42 | 18 07 | 19 03 | 11 | 3 58 | 5 00 | 5 25 | 18 45 | 19 10 | 20 12 |
| 12 | 5 22 | 6 18 | 6 42 | 17 47 | 18 11 | 19 07 | 17 | 4 03 | 5 04 | 5 29 | 18 39 | 19 04 | 20 04 |
| 18 | 5 17 | 6 13 | 6 37 | 17 51 | 18 16 | 19 11 | 23 | 4 08 | 5 07 | 5 32 | 18 33 | 18 57 | 19 57 |
| 24 | 5 11 | 6 07 | 6 31 | 17 56 | 18 20 | 19 15 | 29 | 4 12 | 5 11 | 5 35 | 18 26 | 18 50 | 19 49 |
| Mar 2 | 5 05 | 6 01 | 6 25 | 18 00 | 18 24 | 19 19 | Sep 4 | 4 17 | 5 14 | 5 39 | 18 19 | 18 43 | 19 40 |
| 8 | 4 59 | 5 54 | 6 18 | 18 04 | 18 28 | 19 23 | 10 | 4 21 | 5 18 | 5 42 | 18 11 | 18 35 | 19 32 |
| 14 | 4 52 | 5 47 | 6 11 | 18 08 | 18 32 | 19 27 | 16 | 4 25 | 5 21 | 5 45 | 18 04 | 18 28 | 19 24 |
| 20 | 4 44 | 5 40 | 6 04 | 18 12 | 18 35 | 19 31 | 22 | 4 29 | 5 25 | 5 48 | 17 56 | 18 20 | 19 16 |
| 26 | 4 36 | 5 33 | 5 56 | 18 15 | 18 39 | 19 36 | 28 | 4 32 | 5 28 | 5 52 | 17 49 | 18 13 | 19 08 |
| Abr 1 | 4 28 | 5 25 | 5 49 | 18 19 | 18 43 | 19 40 | Oct 4 | 4 36 | 5 31 | 5 55 | 17 42 | 18 06 | 19 01 |
| 7 | 4 20 | 5 18 | 5 42 | 18 22 | 18 47 | 19 44 | 10 | 4 39 | 5 35 | 5 59 | 17 35 | 17 59 | 18 54 |
| 13 | 4 13 | 5 11 | 5 35 | 18 26 | 18 51 | 19 49 | 16 | 4 43 | 5 39 | 6 03 | 17 28 | 17 52 | 18 48 |
| 19 | 4 05 | 5 04 | 5 29 | 18 30 | 18 55 | 19 54 | 22 | 4 47 | 5 42 | 6 07 | 17 22 | 17 46 | 18 42 |
| 25 | 3 57 | 4 58 | 5 23 | 18 34 | 18 59 | 19 59 | 28 | 4 50 | 5 47 | 6 11 | 17 16 | 17 41 | 18 37 |
| May 1 | 3 50 | 4 52 | 5 17 | 18 38 | 19 03 | 20 05 | Nov 3 | 4 54 | 5 51 | 6 16 | 17 11 | 17 36 | 18 33 |
| 7 | 3 44 | 4 46 | 5 12 | 18 41 | 19 07 | 20 10 | 9 | 4 58 | 5 55 | 6 20 | 17 07 | 17 32 | 18 29 |
| 13 | 3 38 | 4 42 | 5 08 | 18 45 | 19 11 | 20 16 | 15 | 5 03 | 6 00 | 6 25 | 17 04 | 17 29 | 18 27 |
| 19 | 3 33 | 4 38 | 5 04 | 18 49 | 19 16 | 20 21 | 21 | 5 07 | 6 05 | 6 30 | 17 02 | 17 27 | 18 25 |
| 25 | 3 28 | 4 35 | 5 02 | 18 53 | 19 19 | 20 26 | 27 | 5 11 | 6 09 | 6 35 | 17 00 | 17 26 | 18 24 |
| 31 | 3 25 | 4 33 | 5 00 | 18 56 | 19 23 | 20 31 | Dic 3 | 5 15 | 6 14 | 6 40 | 17 00 | 17 26 | 18 25 |
| Jun 6 | 3 23 | 4 31 | 4 59 | 18 59 | 19 26 | 20 35 | 9 | 5 19 | 6 18 | 6 44 | 17 01 | 17 27 | 18 26 |
| 12 | 3 22 | 4 31 | 4 58 | 19 02 | 19 29 | 20 38 | 15 | 5 23 | 6 22 | 6 48 | 17 02 | 17 29 | 18 28 |
| 18 | 3 22 | 4 31 | 4 59 | 19 04 | 19 31 | 20 40 | 21 | 5 26 | 6 25 | 6 52 | 17 05 | 17 31 | 18 30 |
| 24 | 3 24 | 4 33 | 5 00 | 19 05 | 19 32 | 20 41 | 27 | 5 29 | 6 28 | 6 54 | 17 08 | 17 35 | 18 34 |
| 30 | 3 26 | 4 35 | 5 02 | 19 05 | 19 33 | 20 41 | Ene 2 | 5 31 | 6 30 | 6 56 | 17 12 | 17 38 | 18 37 |

LATITUD 25°

| | AM | CM | SS | PS | CV | AV | | AM | CM | SS | PS | CV | AV |
|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| | h m | h m | h m | h m | h m | h m | | h m | h m | h m | h m | h m | h m |
| Ene 1 | 5 24 | 6 20 | 6 45 | 17 22 | 17 47 | 18 44 | 7 | 4 28 | 5 22 | 5 45 | 18 19 | 18 42 | 19 37 |
| 7 | 5 26 | 6 22 | 6 47 | 17 27 | 17 51 | 18 48 | 13 | 4 21 | 5 16 | 5 40 | 18 22 | 18 45 | 19 40 |
| 13 | 5 27 | 6 22 | 6 47 | 17 31 | 17 56 | 18 51 | 19 | 4 15 | 5 11 | 5 34 | 18 25 | 18 48 | 19 44 |
| 19 | 5 27 | 6 22 | 6 47 | 17 36 | 18 00 | 18 55 | 25 | 4 08 | 5 05 | 5 29 | 18 27 | 18 51 | 19 48 |
| 25 | 5 26 | 6 21 | 6 45 | 17 40 | 18 04 | 18 59 | May 1 | 4 03 | 5 00 | 5 24 | 18 30 | 18 54 | 19 52 |
| 31 | 5 25 | 6 19 | 6 43 | 17 44 | 18 08 | 19 03 | 7 | 3 57 | 4 56 | 5 20 | 18 33 | 18 58 | 19 56 |
| Feb 6 | 5 22 | 6 16 | 6 40 | 17 49 | 18 12 | 19 06 | 13 | 3 52 | 4 52 | 5 17 | 18 36 | 19 01 | 20 01 |
| 12 | 5 19 | 6 13 | 6 36 | 17 53 | 18 16 | 19 10 | 19 | 3 48 | 4 49 | 5 14 | 18 39 | 19 04 | 20 05 |
| 18 | 5 15 | 6 09 | 6 32 | 17 56 | 18 19 | 19 13 | 25 | 3 45 | 4 47 | 5 12 | 18 42 | 19 08 | 20 09 |
| 24 | 5 11 | 6 04 | 6 27 | 18 00 | 18 23 | 19 16 | 31 | 3 43 | 4 45 | 5 10 | 18 45 | 19 11 | 20 13 |
| Mar 2 | 5 06 | 5 59 | 6 22 | 18 03 | 18 26 | 19 19 | Jun 6 | 3 41 | 4 44 | 5 10 | 18 48 | 19 14 | 20 16 |
| 8 | 5 00 | 5 53 | 6 16 | 18 06 | 18 29 | 19 22 | 12 | 3 41 | 4 44 | 5 10 | 18 50 | 19 16 | 20 19 |
| 14 | 4 54 | 5 47 | 6 10 | 18 09 | 18 31 | 19 25 | 18 | 3 41 | 4 45 | 5 10 | 18 52 | 19 18 | 20 21 |
| 20 | 4 48 | 5 41 | 6 04 | 18 11 | 18 34 | 19 27 | 24 | 3 42 | 4 46 | 5 12 | 18 53 | 19 19 | 20 22 |
| 26 | 4 41 | 5 35 | 5 58 | 18 14 | 18 37 | 19 30 | 30 | 3 45 | 4 48 | 5 14 | 18 54 | 19 20 | 20 23 |
| Abr 1 | 4 35 | 5 29 | 5 52 | 18 17 | 18 40 | 19 34 | Jul 6 | 3 47 | 4 50 | 5 16 | 18 54 | 19 19 | 20 22 |

Crepúsculos, salidas y puestas de Sol, 2019

Hora local

LATITUD 25°

| | AM | CM | SS | PS | CV | AV | | AM | CM | SS | PS | CV | AV |
|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| | h m | h m | h m | h m | h m | h m | | h m | h m | h m | h m | h m | h m |
| 12 | 3 51 | 4 53 | 5 18 | 18 53 | 19 18 | 20 20 | 10 | 4 40 | 5 33 | 5 56 | 17 38 | 18 01 | 18 54 |
| 18 | 3 54 | 4 56 | 5 21 | 18 51 | 19 16 | 20 18 | 16 | 4 43 | 5 36 | 5 59 | 17 32 | 17 55 | 18 48 |
| 24 | 3 58 | 4 59 | 5 24 | 18 49 | 19 14 | 20 14 | 22 | 4 45 | 5 39 | 6 02 | 17 27 | 17 50 | 18 43 |
| 30 | 4 02 | 5 02 | 5 27 | 18 46 | 19 10 | 20 10 | 28 | 4 48 | 5 42 | 6 05 | 17 22 | 17 46 | 18 39 |
| Ago 5 | 4 07 | 5 05 | 5 30 | 18 42 | 19 06 | 20 05 | Nov 3 | 4 51 | 5 45 | 6 09 | 17 18 | 17 42 | 18 36 |
| 11 | 4 10 | 5 08 | 5 32 | 18 38 | 19 02 | 19 59 | 9 | 4 54 | 5 49 | 6 13 | 17 15 | 17 39 | 18 33 |
| 17 | 4 14 | 5 11 | 5 35 | 18 33 | 18 57 | 19 53 | 15 | 4 58 | 5 53 | 6 17 | 17 12 | 17 37 | 18 31 |
| 23 | 4 18 | 5 14 | 5 37 | 18 27 | 18 51 | 19 47 | 21 | 5 01 | 5 57 | 6 21 | 17 11 | 17 35 | 18 30 |
| 29 | 4 21 | 5 16 | 5 40 | 18 22 | 18 45 | 19 40 | 27 | 5 05 | 6 01 | 6 25 | 17 10 | 17 35 | 18 30 |
| Sep 4 | 4 24 | 5 19 | 5 42 | 18 15 | 18 39 | 19 33 | Dic 3 | 5 09 | 6 05 | 6 30 | 17 10 | 17 35 | 18 31 |
| 10 | 4 27 | 5 21 | 5 44 | 18 09 | 18 32 | 19 26 | 9 | 5 12 | 6 09 | 6 34 | 17 11 | 17 36 | 18 33 |
| 16 | 4 30 | 5 24 | 5 46 | 18 03 | 18 26 | 19 19 | 15 | 5 16 | 6 12 | 6 37 | 17 13 | 17 38 | 18 35 |
| 22 | 4 33 | 5 26 | 5 49 | 17 56 | 18 19 | 19 12 | 21 | 5 19 | 6 16 | 6 41 | 17 16 | 17 41 | 18 37 |
| 28 | 4 35 | 5 28 | 5 51 | 17 50 | 18 13 | 19 06 | 27 | 5 22 | 6 18 | 6 43 | 17 19 | 17 44 | 18 41 |
| Oct 4 | 4 38 | 5 31 | 5 53 | 17 44 | 18 06 | 18 59 | Ene 2 | 5 24 | 6 21 | 6 45 | 17 23 | 17 48 | 18 44 |

LATITUD 20°

| | AM | CM | SS | PS | CV | AV | | AM | CM | SS | PS | CV | AV |
|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| | h m | h m | h m | h m | h m | h m | | h m | h m | h m | h m | h m | h m |
| Ene 1 | 5 17 | 6 11 | 6 35 | 17 32 | 17 56 | 18 51 | May 1 | 4 13 | 5 08 | 5 31 | 18 24 | 18 47 | 19 42 |
| 7 | 5 19 | 6 13 | 6 37 | 17 36 | 18 00 | 18 54 | 7 | 4 09 | 5 04 | 5 27 | 18 26 | 18 49 | 19 45 |
| 13 | 5 20 | 6 14 | 6 38 | 17 40 | 18 04 | 18 58 | 13 | 4 05 | 5 01 | 5 25 | 18 28 | 18 52 | 19 48 |
| 19 | 5 21 | 6 14 | 6 38 | 17 44 | 18 08 | 19 01 | 19 | 4 02 | 4 59 | 5 23 | 18 31 | 18 55 | 19 52 |
| 25 | 5 21 | 6 14 | 6 37 | 17 48 | 18 11 | 19 04 | 25 | 3 59 | 4 57 | 5 21 | 18 33 | 18 57 | 19 55 |
| 31 | 5 20 | 6 13 | 6 36 | 17 52 | 18 15 | 19 07 | 31 | 3 57 | 4 56 | 5 20 | 18 36 | 19 00 | 19 58 |
| Feb 6 | 5 19 | 6 11 | 6 34 | 17 55 | 18 18 | 19 10 | Jun 6 | 3 56 | 4 55 | 5 20 | 18 38 | 19 02 | 20 01 |
| 12 | 5 16 | 6 08 | 6 31 | 17 58 | 18 21 | 19 13 | 12 | 3 56 | 4 56 | 5 20 | 18 40 | 19 04 | 20 04 |
| 18 | 5 13 | 6 05 | 6 27 | 18 01 | 18 23 | 19 15 | 18 | 3 57 | 4 56 | 5 21 | 18 41 | 19 06 | 20 06 |
| 24 | 5 10 | 6 01 | 6 23 | 18 03 | 18 26 | 19 17 | 24 | 3 58 | 4 58 | 5 22 | 18 43 | 19 07 | 20 07 |
| Mar 2 | 5 06 | 5 57 | 6 19 | 18 06 | 18 28 | 19 19 | 30 | 4 00 | 4 59 | 5 24 | 18 43 | 19 08 | 20 07 |
| 8 | 5 01 | 5 52 | 6 14 | 18 08 | 18 30 | 19 21 | Jul 6 | 4 03 | 5 02 | 5 26 | 18 44 | 19 08 | 20 07 |
| 14 | 4 56 | 5 47 | 6 09 | 18 09 | 18 31 | 19 23 | 12 | 4 05 | 5 04 | 5 28 | 18 43 | 19 07 | 20 06 |
| 20 | 4 51 | 5 42 | 6 04 | 18 11 | 18 33 | 19 24 | 18 | 4 08 | 5 06 | 5 30 | 18 42 | 19 06 | 20 04 |
| 26 | 4 45 | 5 37 | 5 59 | 18 13 | 18 35 | 19 26 | 24 | 4 12 | 5 09 | 5 33 | 18 40 | 19 04 | 20 01 |
| Abr 1 | 4 40 | 5 31 | 5 54 | 18 14 | 18 37 | 19 28 | 30 | 4 15 | 5 11 | 5 35 | 18 38 | 19 01 | 19 58 |
| 7 | 4 34 | 5 26 | 5 48 | 18 16 | 18 38 | 19 31 | Ago 5 | 4 18 | 5 14 | 5 37 | 18 35 | 18 58 | 19 54 |
| 13 | 4 28 | 5 21 | 5 44 | 18 18 | 18 40 | 19 33 | 11 | 4 21 | 5 16 | 5 39 | 18 31 | 18 54 | 19 49 |
| 19 | 4 23 | 5 16 | 5 39 | 18 20 | 18 42 | 19 36 | 17 | 4 24 | 5 18 | 5 41 | 18 27 | 18 50 | 19 44 |
| 25 | 4 18 | 5 12 | 5 35 | 18 22 | 18 44 | 19 39 | 23 | 4 26 | 5 20 | 5 42 | 18 23 | 18 45 | 19 39 |

Crepúsculos, salidas y puestas de Sol, 2019

Hora local

LATITUD 20°

| | AM | CM | SS | PS | CV | AV | | AM | CM | SS | PS | CV | AV |
|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| | h m | h m | h m | h m | h m | h m | | h m | h m | h m | h m | h m | h m |
| 29 | 4 28 | 5 21 | 5 44 | 18 18 | 18 40 | 19 33 | Nov 3 | 4 48 | 5 40 | 6 03 | 17 24 | 17 47 | 18 39 |
| Sep 4 | 4 31 | 5 23 | 5 45 | 18 13 | 18 35 | 19 27 | 9 | 4 50 | 5 43 | 6 06 | 17 22 | 17 45 | 18 38 |
| 10 | 4 32 | 5 24 | 5 46 | 18 07 | 18 29 | 19 21 | 15 | 4 53 | 5 46 | 6 09 | 17 20 | 17 43 | 18 37 |
| 16 | 4 34 | 5 26 | 5 48 | 18 02 | 18 24 | 19 15 | 21 | 4 56 | 5 49 | 6 13 | 17 19 | 17 43 | 18 36 |
| 22 | 4 36 | 5 27 | 5 49 | 17 56 | 18 18 | 19 09 | 27 | 4 59 | 5 53 | 6 16 | 17 19 | 17 43 | 18 37 |
| 28 | 4 37 | 5 28 | 5 50 | 17 51 | 18 13 | 19 04 | Dic 3 | 5 02 | 5 56 | 6 20 | 17 20 | 17 44 | 18 38 |
| Oct 4 | 4 39 | 5 30 | 5 52 | 17 45 | 18 07 | 18 58 | 9 | 5 05 | 6 00 | 6 24 | 17 21 | 17 45 | 18 40 |
| 10 | 4 40 | 5 31 | 5 53 | 17 40 | 18 02 | 18 54 | 15 | 5 09 | 6 03 | 6 27 | 17 23 | 17 47 | 18 42 |
| 16 | 4 42 | 5 33 | 5 55 | 17 36 | 17 58 | 18 49 | 21 | 5 12 | 6 07 | 6 31 | 17 26 | 17 50 | 18 45 |
| 22 | 4 43 | 5 35 | 5 57 | 17 31 | 17 54 | 18 45 | 27 | 5 15 | 6 09 | 6 33 | 17 29 | 17 53 | 18 48 |
| 28 | 4 45 | 5 37 | 6 00 | 17 28 | 17 50 | 18 42 | Ene 2 | 5 17 | 6 12 | 6 36 | 17 33 | 17 57 | 18 51 |

LATITUD 15°

| | AM | CM | SS | PS | CV | AV | | AM | CM | SS | PS | CV | AV |
|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| | h m | h m | h m | h m | h m | h m | | h m | h m | h m | h m | h m | h m |
| Ene 1 | 5 10 | 6 03 | 6 26 | 17 42 | 18 05 | 18 58 | Jul 6 | 4 16 | 5 12 | 5 35 | 18 34 | 18 58 | 19 54 |
| 7 | 5 12 | 6 05 | 6 28 | 17 45 | 18 08 | 19 01 | 12 | 4 18 | 5 14 | 5 37 | 18 34 | 18 57 | 19 53 |
| 13 | 5 14 | 6 06 | 6 29 | 17 49 | 18 12 | 19 04 | 18 | 4 20 | 5 16 | 5 39 | 18 33 | 18 57 | 19 52 |
| 19 | 5 15 | 6 07 | 6 30 | 17 52 | 18 15 | 19 07 | 24 | 4 23 | 5 18 | 5 41 | 18 32 | 18 55 | 19 50 |
| 25 | 5 15 | 6 07 | 6 30 | 17 55 | 18 18 | 19 10 | 30 | 4 25 | 5 20 | 5 42 | 18 30 | 18 53 | 19 47 |
| 31 | 5 15 | 6 07 | 6 29 | 17 58 | 18 21 | 19 12 | Ago 5 | 4 28 | 5 21 | 5 44 | 18 28 | 18 51 | 19 44 |
| Feb 6 | 5 14 | 6 05 | 6 28 | 18 01 | 18 23 | 19 14 | 11 | 4 30 | 5 23 | 5 45 | 18 25 | 18 48 | 19 40 |
| 12 | 5 13 | 6 04 | 6 26 | 18 03 | 18 25 | 19 16 | 17 | 4 32 | 5 24 | 5 46 | 18 22 | 18 44 | 19 36 |
| 18 | 5 11 | 6 01 | 6 23 | 18 05 | 18 27 | 19 17 | 23 | 4 33 | 5 25 | 5 47 | 18 18 | 18 40 | 19 32 |
| 24 | 5 08 | 5 58 | 6 20 | 18 07 | 18 28 | 19 18 | 29 | 4 35 | 5 26 | 5 47 | 18 14 | 18 36 | 19 27 |
| Mar 2 | 5 05 | 5 55 | 6 16 | 18 08 | 18 30 | 19 19 | Sep 4 | 4 36 | 5 26 | 5 48 | 18 10 | 18 31 | 19 22 |
| 8 | 5 01 | 5 51 | 6 12 | 18 09 | 18 31 | 19 20 | 10 | 4 37 | 5 27 | 5 48 | 18 05 | 18 27 | 19 17 |
| 14 | 4 57 | 5 47 | 6 08 | 18 10 | 18 32 | 19 21 | 16 | 4 37 | 5 27 | 5 49 | 18 01 | 18 22 | 19 12 |
| 20 | 4 53 | 5 43 | 6 04 | 18 11 | 18 32 | 19 22 | 22 | 4 38 | 5 28 | 5 49 | 17 56 | 18 17 | 19 07 |
| 26 | 4 48 | 5 38 | 6 00 | 18 12 | 18 33 | 19 23 | 28 | 4 38 | 5 28 | 5 50 | 17 51 | 18 13 | 19 03 |
| Abr 1 | 4 44 | 5 34 | 5 55 | 18 12 | 18 34 | 19 24 | Oct 4 | 4 39 | 5 29 | 5 50 | 17 47 | 18 08 | 18 58 |
| 7 | 4 39 | 5 30 | 5 51 | 18 13 | 18 35 | 19 25 | 10 | 4 39 | 5 29 | 5 51 | 17 43 | 18 04 | 18 54 |
| 13 | 4 34 | 5 25 | 5 47 | 18 14 | 18 36 | 19 27 | 16 | 4 40 | 5 30 | 5 52 | 17 39 | 18 01 | 18 51 |
| 19 | 4 30 | 5 21 | 5 43 | 18 15 | 18 37 | 19 29 | 22 | 4 41 | 5 31 | 5 53 | 17 36 | 17 57 | 18 48 |
| 25 | 4 26 | 5 18 | 5 40 | 18 16 | 18 38 | 19 30 | 28 | 4 42 | 5 33 | 5 55 | 17 33 | 17 55 | 18 45 |
| May 1 | 4 22 | 5 15 | 5 37 | 18 17 | 18 40 | 19 33 | Nov 3 | 4 44 | 5 35 | 5 57 | 17 30 | 17 53 | 18 44 |
| 7 | 4 18 | 5 12 | 5 34 | 18 19 | 18 42 | 19 35 | 9 | 4 45 | 5 37 | 5 59 | 17 29 | 17 51 | 18 42 |
| 13 | 4 15 | 5 09 | 5 32 | 18 21 | 18 44 | 19 38 | 15 | 4 47 | 5 39 | 6 02 | 17 28 | 17 50 | 18 42 |
| 19 | 4 13 | 5 08 | 5 31 | 18 23 | 18 46 | 19 40 | 21 | 4 50 | 5 42 | 6 05 | 17 27 | 17 50 | 18 42 |
| 25 | 4 11 | 5 06 | 5 30 | 18 24 | 18 48 | 19 43 | 27 | 4 52 | 5 45 | 6 08 | 17 28 | 17 51 | 18 43 |
| 31 | 4 10 | 5 06 | 5 29 | 18 26 | 18 50 | 19 46 | Dic 3 | 4 55 | 5 48 | 6 11 | 17 29 | 17 52 | 18 45 |
| Jun 6 | 4 09 | 5 06 | 5 29 | 18 28 | 18 52 | 19 48 | 9 | 4 58 | 5 51 | 6 15 | 17 30 | 17 54 | 18 47 |
| 12 | 4 10 | 5 06 | 5 30 | 18 30 | 18 54 | 19 50 | 15 | 5 01 | 5 55 | 6 18 | 17 33 | 17 56 | 18 49 |
| 18 | 4 10 | 5 07 | 5 31 | 18 32 | 18 55 | 19 52 | 21 | 5 04 | 5 58 | 6 21 | 17 36 | 17 59 | 18 52 |
| 24 | 4 12 | 5 08 | 5 32 | 18 33 | 18 57 | 19 53 | 27 | 5 07 | 6 01 | 6 24 | 17 39 | 18 02 | 18 55 |
| 30 | 4 13 | 5 10 | 5 34 | 18 34 | 18 57 | 19 54 | Ene 2 | 5 10 | 6 03 | 6 26 | 17 42 | 18 05 | 18 58 |

Eclipses 2020

Hora del meridiano 90° W.G.

Ocurrirán seis eclipses, dos de Sol y cuatro de Luna.

I.- Eclipse penumbral de Luna el 10 de enero de 2020

La oposición ocurrirá a las 13h 4m, no se observará en la República Mexicana. Se observará en Canadá, el Océano Atlántico, África, Europa, Asia y el Océano Pacífico.

| <i>Circunstancias del eclipse</i> | <i>mes</i> | <i>día</i> | <i>h</i> | <i>m</i> | <i>s</i> |
|-----------------------------------|------------|------------|----------|----------|----------|
| Inicio el eclipse penumbral | ene | 10 | 11 | 5 | 43 |
| Máximo del eclipse | ene | 10 | 13 | 10 | 0 |
| Termina el eclipse penumbral | ene | 10 | 15 | 14 | 23 |

II.- Eclipse penumbral de Luna el 5 de junio de 2020

La oposición ocurrirá a las 12h 58m, no se observará en la República Mexicana. Se observará en el extremo oriental de América del Sur, Brasil, la costa de Argentina, Uruguay y la Patagonia, en el Océano Atlántico, Europa, África, Asia, el Océano Índico, Nueva Zelanda y Australia exceptuando su costa Este.

| <i>Circunstancias del eclipse</i> | <i>mes</i> | <i>día</i> | <i>h</i> | <i>m</i> | <i>s</i> |
|-----------------------------------|------------|------------|----------|----------|----------|
| Inicio el eclipse penumbral | jun | 5 | 11 | 43 | 24 |
| Máximo del eclipse | jun | 5 | 13 | 25 | 5 |
| Termina el eclipse penumbral | jun | 5 | 15 | 6 | 35 |

III.- Eclipse anular de sol del 20 al 21 de junio de 2020

La conjunción ocurrirá a las 0h 41m, no se observará en la República Mexicana. La franja de anularidad se observará desde la región central de África, el sur de la Península Arábiga, el norte de la India y el sur de China. Se observará como parcial hasta la región central de Europa, Asia, Japón, y hasta el sur de África, el Océano Índico hasta Nueva Zelanda y el norte de Australia.

| <i>Circunstancias del eclipse</i> | <i>mes</i> | <i>día</i> | <i>h</i> | <i>m</i> | <i>s</i> |
|-----------------------------------|------------|------------|----------|----------|----------|
| Inicia el eclipse penumbral | jun | 20 | 21 | 46 | 1 |
| Inicia el eclipse umbral | jun | 20 | 22 | 48 | 12 |
| Inicia el eclipse anular | jun | 20 | 22 | 48 | 30 |
| Máximo del eclipse anular | jun | 21 | 0 | 41 | 24 |
| Termina el eclipse anular | jun | 21 | 2 | 31 | 42 |
| Termina el eclipse umbral | jun | 21 | 2 | 31 | 53 |
| Termina el eclipse penumbral | jun | 21 | 3 | 34 | 6 |

Eclipses 2020

Hora del meridiano 90° W.G.

IV.- Eclipse penumbral de Luna el 4 de julio de 2020

La oposición ocurrirá a las 22h 29m, será observable en la República Mexicana. Se observará en Océano Pacífico, el continente Americano con excepción de su extremo norte, en el Océano Atlántico, en la región occidental de Europa y África.

| <i>Circunstancias del eclipse</i> | <i>mes</i> | <i>día</i> | <i>h</i> | <i>m</i> | <i>s</i> |
|-----------------------------------|------------|------------|----------|----------|----------|
| Inicio el eclipse penumbral | jul | 4 | 21 | 4 | 18 |
| Máximo del eclipse | jul | 4 | 22 | 30 | 1 |
| Termina el eclipse penumbral | jul | 4 | 23 | 55 | 30 |

V.- Eclipse penumbral de Luna el 30 de noviembre de 2020

La oposición ocurrirá a las 3h 8m, será observable en la República Mexicana. Se observará en el Continente Americano, el extremo norte de Europa, en Asia desde su región central a su extremo oriental, el extremo este del Océano Índico, Nueva Zelanda, Australia, Japón y el Océano Pacífico.

| <i>Circunstancias del eclipse</i> | <i>mes</i> | <i>día</i> | <i>h</i> | <i>m</i> | <i>s</i> |
|-----------------------------------|------------|------------|----------|----------|----------|
| Inicio el eclipse penumbral | nov | 30 | 1 | 30 | 0 |
| Máximo del eclipse | nov | 30 | 3 | 42 | 54 |
| Termina el eclipse penumbral | nov | 30 | 5 | 55 | 48 |

VI.- Eclipse total de sol el 14 de diciembre de 2020

La conjunción ocurrirá a las 10h 18m, no se observará en la República Mexicana. La franja de totalidad iniciará en la región central del Océano Pacífico, cruzará en la parte media de Chile y Argentina y terminará frente a las costas del sur de África.

| <i>Circunstancias del eclipse</i> | <i>mes</i> | <i>día</i> | <i>h</i> | <i>m</i> | <i>s</i> |
|-----------------------------------|------------|------------|----------|----------|----------|
| Inicia el eclipse parcial | dic | 14 | 7 | 33 | 54 |
| Inicia el eclipse umbral | dic | 14 | 8 | 32 | 42 |
| Máximo del eclipse | dic | 14 | 10 | 18 | 13 |
| Termina el eclipse umbral | dic | 14 | 11 | 54 | 1 |
| Termina el eclipse parcial | dic | 14 | 12 | 53 | 6 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | $\Delta \delta m$ /año | |
|----------------------------|---------|----|----|----------|----|----|----------|------------|---------------------------|----|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Aguascalientes | | | | | | | | | | |
| Aguascalientes | 21 | 52 | 43 | 102 | 18 | 4 | 1888 | 5 | 35 | -7 |
| Asientos | 22 | 14 | 18 | 102 | 5 | 29 | 2164 | 5 | 30 | -7 |
| Calvillo | 21 | 50 | 45 | 102 | 44 | 14 | 1702 | 5 | 45 | -7 |
| Jesús María | 21 | 57 | 45 | 102 | 20 | 48 | 1907 | 5 | 36 | -7 |
| Puertecito | 21 | 57 | 52 | 102 | 15 | 15 | 2052 | 5 | 34 | -7 |
| Rincón de Romos | 22 | 13 | 49 | 102 | 19 | 22 | 1957 | 5 | 36 | -7 |
| Baja California | | | | | | | | | | |
| Bailador Isla | 31 | 56 | 56 | 116 | 5 | 12 | 0 | 10 | 56 | -5 |
| Cedros Isla | 28 | 3 | 53 | 115 | 11 | 35 | 0 | 10 | 4 | -5 |
| Ensenada | 31 | 51 | 10 | 116 | 38 | 9 | 2 | 11 | 3 | -5 |
| Granito Isla | 29 | 33 | 0 | 113 | 32 | 0 | 0 | 9 | 54 | -5 |
| Guadalupe Isla | 29 | 10 | 45 | 118 | 19 | 30 | 0 | 10 | 53 | -4 |
| Mejía Isla | 29 | 33 | 8 | 113 | 35 | 18 | 0 | 9 | 55 | -5 |
| Mexicali | 32 | 40 | 0 | 115 | 27 | 0 | 0 | 10 | 55 | -5 |
| Miramar Isla | 30 | 2 | 30 | 114 | 31 | 30 | 0 | 10 | 14 | -5 |
| Salsipuedes Isla | 28 | 44 | 0 | 112 | 50 | 30 | 0 | 9 | 36 | -5 |
| San Benito Isla | 28 | 18 | 8 | 115 | 36 | 12 | 0 | 10 | 11 | -5 |
| San Felipe | 31 | 1 | 36 | 114 | 49 | 46 | 0 | 10 | 29 | -5 |
| San Jerónimo Isla | 29 | 47 | 20 | 115 | 48 | 14 | 0 | 10 | 29 | -5 |
| San Pedro Mártir | 31 | 2 | 39 | 115 | 27 | 49 | 2800 | 10 | 38 | -5 |
| San Quintín | 30 | 22 | 16 | 115 | 59 | 10 | 0 | 10 | 38 | -5 |
| Baja California Sur | | | | | | | | | | |
| Asunción Isla | 27 | 6 | 21 | 114 | 18 | 15 | 0 | 9 | 42 | -5 |
| Catalina Isla | 25 | 35 | 35 | 110 | 47 | 48 | 0 | 8 | 37 | -5 |
| Cerralvo Isla | 24 | 22 | 0 | 109 | 55 | 29 | 0 | 8 | 14 | -6 |
| Coronados Isla | 26 | 6 | 12 | 111 | 15 | 38 | 0 | 8 | 48 | -5 |
| Danaznte Isla | 25 | 48 | 0 | 111 | 12 | 0 | 0 | 8 | 45 | -5 |
| El Triunfo | 23 | 48 | 13 | 110 | 8 | 41 | 432 | 8 | 14 | -5 |
| Espíritu Santo Isla | 24 | 34 | 43 | 110 | 21 | 30 | 0 | 8 | 22 | -5 |
| José del Cabo | 23 | 4 | 8 | 109 | 40 | 36 | 7 | 8 | 2 | -6 |
| La Paz | 24 | 9 | 41 | 110 | 20 | 44 | 10 | 8 | 19 | -5 |
| Miraflores | 23 | 22 | 25 | 109 | 48 | 33 | 183 | 8 | 6 | -6 |
| Muleje | 26 | 53 | 33 | 111 | 46 | 41 | 35 | 9 | 3 | -5 |
| Roca Alijos Isla | 24 | 58 | 6 | 113 | 44 | 47 | 0 | 9 | 15 | -5 |
| San Bartolo | 23 | 44 | 16 | 109 | 52 | 15 | 353 | 8 | 9 | -6 |
| San Marcos Isla | 27 | 14 | 35 | 112 | 5 | 23 | 0 | 9 | 11 | -5 |
| Santa Ines Isla | 27 | 2 | 34 | 111 | 53 | 28 | 0 | 9 | 6 | -5 |
| Santiago | 23 | 28 | 24 | 109 | 43 | 21 | 98 | 8 | 5 | -6 |
| Tortugas Isla | 27 | 26 | 59 | 111 | 52 | 59 | 0 | 9 | 9 | -5 |
| Campeche | | | | | | | | | | |
| Becal | 20 | 26 | 34 | 90 | 1 | 36 | 12 | 0 | -16 | -8 |
| Bolonchenticul | 20 | 0 | 21 | 89 | 44 | 53 | 14 | 0 | -23 | -8 |
| Calkini | 20 | 22 | 21 | 90 | 3 | 3 | 52 | 0 | -15 | -8 |
| Campeche | 19 | 50 | 47 | 90 | 32 | 14 | 5 | 0 | 5 | -8 |
| Carmen | 18 | 38 | 22 | 91 | 50 | 16 | 3 | 0 | 56 | -8 |
| Carmen Isla | 18 | 38 | 44 | 91 | 50 | 16 | 0 | 0 | 56 | -8 |
| Champoton | 19 | 21 | 4 | 90 | 43 | 0 | 27 | 0 | 15 | -8 |
| Dzibalchen | 19 | 27 | 41 | 89 | 43 | 55 | 100 | 0 | -19 | -8 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ /año |
|-----------------------|---------|----|----|----------|----|----|----------|------------|-----|---------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Escarcega | 18 | 36 | 25 | 90 | 43 | 55 | 75 | 0 | 20 | -8 |
| Hontun | 19 | 34 | 49 | 90 | 11 | 12 | 50 | 0 | -5 | -8 |
| Holpechen | 19 | 44 | 47 | 89 | 50 | 35 | 56 | 0 | -18 | -8 |
| Iturbide | 19 | 34 | 58 | 89 | 36 | 4 | 110 | 0 | -25 | -8 |
| Lerma | 18 | 15 | 39 | 90 | 36 | 12 | 5 | 0 | 18 | -8 |
| Palizada | 19 | 6 | 13 | 92 | 4 | 42 | 46 | 1 | 1 | -8 |
| Pital | 18 | 33 | 3 | 91 | 7 | 41 | 20 | 0 | 34 | -8 |
| Río Desenpeno | 18 | 29 | 50 | 89 | 54 | 6 | 200 | 0 | -7 | -8 |
| Sabancury | 18 | 58 | 34 | 91 | 10 | 51 | 2 | 0 | 32 | -8 |
| Xicalango | 18 | 37 | 55 | 91 | 53 | 38 | 2 | 0 | 58 | -8 |
| Coahuila | | | | | | | | | | |
| Acuna | 29 | 19 | 33 | 100 | 55 | 51 | 200 | 5 | 11 | -7 |
| Allende | 28 | 20 | 36 | 100 | 51 | 6 | 374 | 5 | 7 | -7 |
| Cuatro Ciénegas | 26 | 58 | 19 | 102 | 4 | 9 | 742 | 5 | 38 | -7 |
| Jiménez | 29 | 4 | 21 | 100 | 40 | 21 | 290 | 5 | 3 | -7 |
| Laguna de Jaco | 27 | 57 | 28 | 103 | 57 | 6 | 1350 | 6 | 29 | -7 |
| Monclova | 26 | 54 | 14 | 101 | 25 | 8 | 586 | 5 | 20 | -7 |
| Muzquiz | 27 | 52 | 51 | 101 | 30 | 56 | 504 | 5 | 25 | -7 |
| Parras | 25 | 27 | 0 | 102 | 10 | 0 | 1683 | 5 | 37 | -7 |
| Piedras Negras | 28 | 42 | 25 | 100 | 31 | 2 | 220 | 4 | 58 | -7 |
| Sabinas | 27 | 50 | 34 | 101 | 7 | 23 | 340 | 5 | 14 | -7 |
| Saltillo | 25 | 26 | 37 | 100 | 59 | 22 | 1599 | 5 | 6 | -7 |
| San Pedro de Colonias | 25 | 45 | 24 | 102 | 59 | 1 | 1103 | 5 | 58 | -7 |
| Sierra Mojada | 27 | 17 | 8 | 103 | 42 | 7 | 1256 | 6 | 21 | -7 |
| Torreón | 25 | 32 | 18 | 103 | 27 | 55 | 1140 | 6 | 9 | -7 |
| Union | 28 | 14 | 0 | 100 | 44 | 30 | 0 | 5 | 3 | -7 |
| Viesca | 25 | 20 | 46 | 102 | 48 | 19 | 1093 | 5 | 52 | -7 |
| Zaragoza | 28 | 30 | 36 | 100 | 52 | 8 | 540 | 5 | 8 | -7 |
| Colima | | | | | | | | | | |
| Colima | 19 | 14 | 29 | 103 | 43 | 47 | 508 | 6 | 3 | -7 |
| Madrid | 19 | 4 | 57 | 103 | 52 | 38 | 120 | 6 | 6 | -7 |
| Manzanillo | 19 | 3 | 15 | 104 | 19 | 46 | 3 | 6 | 15 | -6 |
| Socorro Isla | 18 | 42 | 57 | 110 | 56 | 53 | 0 | 7 | 56 | -5 |
| Tecomán | 18 | 54 | 31 | 103 | 52 | 38 | 80 | 6 | 6 | -7 |
| Chiapas | | | | | | | | | | |
| Acapetahua | 15 | 16 | 20 | 92 | 41 | 59 | 23 | 1 | 45 | -8 |
| Arista | 15 | 56 | 8 | 93 | 48 | 41 | 0 | 2 | 13 | -8 |
| Cacahuanton | 14 | 59 | 31 | 92 | 9 | 46 | 630 | 1 | 31 | -8 |
| Catazaja | 17 | 43 | 56 | 92 | 1 | 57 | 7 | 1 | 8 | -8 |
| Cintalapa | 16 | 41 | 58 | 93 | 43 | 24 | 545 | 2 | 6 | -8 |
| Comitán | 16 | 15 | 12 | 92 | 7 | 41 | 1530 | 1 | 21 | -8 |
| Chiapa de Corzo | 16 | 42 | 28 | 93 | 1 | 5 | 415 | 1 | 45 | -8 |
| Escuintla | 15 | 18 | 53 | 92 | 39 | 58 | 110 | 1 | 44 | -8 |
| Huixtla | 15 | 7 | 41 | 92 | 28 | 34 | 28 | 1 | 40 | -8 |
| Jaltenango | 15 | 52 | 12 | 92 | 43 | 35 | 677 | 1 | 42 | -8 |
| Juárez | 17 | 39 | 8 | 93 | 9 | 47 | 152 | 1 | 43 | -8 |
| La Gradeza | 15 | 30 | 46 | 92 | 13 | 38 | 1950 | 1 | 30 | -8 |
| Las Margaritas | 15 | 32 | 35 | 93 | 5 | 46 | 1512 | 1 | 55 | -8 |
| Mapastepec | 15 | 25 | 52 | 92 | 54 | 27 | 85 | 1 | 50 | -8 |
| Mazatan | 14 | 51 | 43 | 92 | 25 | 59 | 35 | 1 | 40 | -8 |

Poblaciones de la República Mexicana, 2020

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| ESTADO Población | latitud | | | longitud | | | alt m | δm | | Δδm '/año |
|-------------------------|---------|----|----|----------|----|----|----------|----|----|--------------|
| | ° | ' | “ | ° | ' | “ | | ° | ' | |
| Ocosingo | 16 | 54 | 38 | 92 | 5 | 45 | 908 | 1 | 16 | -8 |
| Ocozacoautla | 16 | 45 | 55 | 93 | 22 | 37 | 864 | 1 | 55 | -8 |
| Pichucalco | 17 | 31 | 46 | 93 | 7 | 24 | 100 | 1 | 43 | -8 |
| Pueblo Nuevo | 15 | 12 | 37 | 92 | 35 | 7 | 28 | 1 | 42 | -8 |
| Puerto Madero | 14 | 42 | 59 | 93 | 25 | 37 | 2 | 2 | 11 | -8 |
| San Bartolome | 16 | 19 | 29 | 92 | 33 | 36 | 804 | 1 | 34 | -8 |
| Suchiate | 14 | 40 | 23 | 92 | 9 | 12 | 22 | 1 | 34 | -8 |
| Tonala | 16 | 5 | 14 | 93 | 45 | 21 | 55 | 2 | 11 | -8 |
| Tuxtla Gutiérrez | 16 | 45 | 20 | 93 | 6 | 46 | 528 | 1 | 48 | -8 |
| Villa Flores | 16 | 14 | 8 | 93 | 16 | 3 | 610 | 1 | 56 | -8 |
| Yajalon | 17 | 10 | 57 | 92 | 20 | 24 | 849 | 1 | 21 | -8 |
| Chihuahua | | | | | | | | | | |
| Ahumada | 30 | 37 | 18 | 106 | 31 | 12 | 1181 | 7 | 45 | -6 |
| Camargo | 27 | 41 | 49 | 105 | 10 | 9 | 1653 | 6 | 58 | -6 |
| Cienaga de Ortiz | 28 | 8 | 15 | 106 | 12 | 11 | 1300 | 7 | 24 | -6 |
| Ciudad Guerrero | 28 | 32 | 57 | 107 | 29 | 27 | 2000 | 7 | 55 | -6 |
| Ciudad Jiménez | 27 | 7 | 52 | 104 | 55 | 29 | 1381 | 6 | 50 | -6 |
| Ciudad Juárez | 31 | 44 | 19 | 106 | 29 | 15 | 1144 | 7 | 52 | -6 |
| Coyame | 29 | 27 | 42 | 105 | 5 | 44 | 1062 | 7 | 5 | -6 |
| Cuchillo Parado | 29 | 26 | 34 | 104 | 52 | 58 | 900 | 6 | 59 | -6 |
| Cusihuirachi | 28 | 14 | 25 | 106 | 50 | 13 | 1985 | 7 | 39 | -6 |
| Chihuahua | 28 | 38 | 12 | 106 | 4 | 42 | 1430 | 7 | 24 | -6 |
| Chinipas | 27 | 23 | 34 | 108 | 32 | 22 | 1640 | 8 | 9 | -6 |
| Galeana | 30 | 6 | 52 | 107 | 37 | 51 | 1431 | 8 | 8 | -6 |
| Guadalupe | 31 | 23 | 27 | 106 | 6 | 13 | 1113 | 7 | 40 | -6 |
| Guadalupe y Calvo | 26 | 6 | 6 | 106 | 58 | 2 | 1100 | 7 | 29 | -6 |
| Guerrero | 28 | 32 | 57 | 107 | 29 | 18 | 2000 | 7 | 55 | -6 |
| Meoqui | 28 | 16 | 36 | 105 | 29 | 16 | 1155 | 7 | 8 | -6 |
| Namiquipa | 29 | 15 | 5 | 107 | 24 | 34 | 1828 | 7 | 57 | -6 |
| Ocampo | 28 | 10 | 59 | 108 | 22 | 27 | 1732 | 8 | 11 | -6 |
| Ojinaga | 29 | 33 | 53 | 104 | 25 | 23 | 841 | 6 | 48 | -6 |
| Parral Hidalgo del | 26 | 56 | 4 | 105 | 39 | 58 | 1661 | 7 | 6 | -6 |
| Placer de Guadalupe | 29 | 9 | 41 | 105 | 22 | 57 | 900 | 7 | 10 | -6 |
| San Buenaventura | 29 | 50 | 47 | 107 | 29 | 10 | 1574 | 8 | 3 | -6 |
| San Ignacio | 27 | 10 | 21 | 106 | 19 | 28 | 970 | 7 | 22 | -6 |
| Santa Bárbara | 26 | 48 | 13 | 105 | 49 | 1 | 1969 | 7 | 8 | -6 |
| Santa Isabel | 28 | 20 | 34 | 106 | 22 | 1 | 1630 | 7 | 29 | -6 |
| Satevo | 27 | 57 | 17 | 106 | 6 | 32 | 1368 | 7 | 21 | -6 |
| Temosachic | 28 | 57 | 12 | 107 | 49 | 50 | 1900 | 8 | 4 | -6 |
| Valle de Zaragoza | 27 | 27 | 40 | 105 | 48 | 35 | 900 | 7 | 12 | -6 |
| Valle del Rosario | 27 | 19 | 5 | 106 | 17 | 41 | 1480 | 7 | 22 | -6 |
| Ciudad de México | | | | | | | | | | |
| Alamo | 19 | 23 | 55 | 99 | 8 | 30 | 2246 | 4 | 21 | -7 |
| Atzacapotzalco | 19 | 28 | 48 | 99 | 11 | 7 | 2277 | 4 | 22 | -7 |
| Ciudad Universitaria | 19 | 20 | 1 | 99 | 10 | 54 | 2280 | 4 | 22 | -7 |
| Ciudad Universitaria | 19 | 19 | 50 | 99 | 11 | 3 | 2280 | 4 | 22 | -7 |
| Coyoacán | 19 | 20 | 54 | 99 | 9 | 45 | 2278 | 4 | 22 | -7 |
| Cuajimalpa | 19 | 21 | 33 | 99 | 18 | 1 | 2783 | 4 | 25 | -7 |
| Chapultepec | 19 | 25 | 11 | 99 | 10 | 52 | 2310 | 4 | 22 | -7 |
| Churubusco | 19 | 21 | 17 | 99 | 8 | 56 | 2260 | 4 | 21 | -7 |
| Guadalupe Hidalgo | 19 | 29 | 9 | 99 | 6 | 56 | 2200 | 4 | 20 | -7 |

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| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ '/año |
|----------------------|---------|----|----|----------|----|----|----------|------------|----|----------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Ixtacalco | 19 | 23 | 22 | 99 | 7 | 16 | 2261 | 4 | 20 | -7 |
| Ixtapalapa | 19 | 21 | 22 | 99 | 5 | 30 | 2280 | 4 | 20 | -7 |
| La Piedad | 19 | 24 | 3 | 99 | 9 | 20 | 2253 | 4 | 21 | -7 |
| México | 19 | 25 | 59 | 99 | 7 | 58 | 2233 | 4 | 21 | -7 |
| Mixcoac | 19 | 22 | 37 | 99 | 10 | 55 | 2200 | 4 | 22 | -7 |
| Mixquic | 19 | 13 | 28 | 98 | 57 | 52 | 2260 | 4 | 17 | -7 |
| Nativitas | 19 | 23 | 12 | 99 | 8 | 48 | 2246 | 4 | 21 | -7 |
| San Jerónimo | 19 | 19 | 33 | 99 | 13 | 20 | 2394 | 4 | 23 | -7 |
| San Simón | 19 | 22 | 36 | 99 | 8 | 39 | 2100 | 4 | 21 | -7 |
| Tacubaya | 19 | 24 | 10 | 99 | 11 | 40 | 2298 | 4 | 22 | -7 |
| Tlahuac | 19 | 16 | 6 | 99 | 0 | 16 | 2264 | 4 | 18 | -7 |
| Tlalpam | 19 | 17 | 16 | 99 | 9 | 57 | 2294 | 4 | 22 | -7 |
| Villa Obregón | 19 | 20 | 41 | 99 | 11 | 21 | 2340 | 4 | 22 | -7 |
| Xochimilco | 19 | 15 | 44 | 99 | 6 | 7 | 2274 | 4 | 20 | -7 |
| Durango | | | | | | | | | | |
| Ciudad Lerdo | 25 | 32 | 14 | 103 | 31 | 28 | 1135 | 6 | 11 | -7 |
| Cuencame | 24 | 52 | 18 | 103 | 38 | 6 | 1889 | 6 | 11 | -7 |
| Durango | 24 | 1 | 31 | 104 | 40 | 11 | 1889 | 6 | 32 | -6 |
| Gómez Palacio | 25 | 34 | 18 | 103 | 30 | 17 | 1195 | 6 | 10 | -7 |
| Guanacevi | 25 | 55 | 59 | 105 | 57 | 31 | 2230 | 7 | 7 | -6 |
| Inde | 25 | 54 | 45 | 105 | 10 | 16 | 2049 | 6 | 50 | -6 |
| Llano Grande | 23 | 52 | 2 | 105 | 12 | 7 | 2406 | 6 | 43 | -6 |
| Mezquital | 23 | 28 | 57 | 104 | 22 | 18 | 1468 | 6 | 24 | -7 |
| Nazas | 25 | 13 | 40 | 104 | 6 | 53 | 1264 | 6 | 23 | -7 |
| Nombre de Dios | 23 | 51 | 4 | 104 | 15 | 25 | 1855 | 6 | 22 | -7 |
| Pueblo Nuevo | 23 | 22 | 35 | 105 | 22 | 18 | 1982 | 6 | 45 | -6 |
| San J. de Guadalupe | 24 | 37 | 0 | 102 | 45 | 8 | 1520 | 5 | 49 | -7 |
| San Juan del Río | 24 | 46 | 45 | 104 | 23 | 22 | 1737 | 6 | 28 | -7 |
| Santa María del Oro | 25 | 56 | 53 | 105 | 19 | 56 | 1871 | 6 | 54 | -6 |
| Santa María Ocotlán | 22 | 54 | 44 | 104 | 36 | 10 | 365 | 6 | 27 | -6 |
| Santiago Papasquiaro | 25 | 2 | 47 | 105 | 25 | 30 | 1716 | 6 | 52 | -6 |
| Tamazula | 24 | 58 | 11 | 106 | 58 | 13 | 240 | 7 | 24 | -6 |
| Tayoltita | 24 | 6 | 27 | 105 | 55 | 30 | 500 | 6 | 59 | -6 |
| Tepehuanes | 25 | 21 | 19 | 105 | 47 | 9 | 1967 | 7 | 1 | -6 |
| Tizonazo | 25 | 58 | 4 | 105 | 15 | 33 | 1981 | 6 | 52 | -6 |
| Topia | 25 | 12 | 19 | 106 | 34 | 34 | 1851 | 7 | 17 | -6 |
| Tlahualilo | 26 | 6 | 31 | 103 | 26 | 21 | 1132 | 6 | 10 | -7 |
| Guerrero | | | | | | | | | | |
| Acapulco | 16 | 50 | 21 | 99 | 55 | 1 | 82 | 4 | 46 | -7 |
| Acayahualco | 18 | 13 | 30 | 99 | 28 | 52 | 790 | 4 | 32 | -7 |
| Coahuayutla | 18 | 18 | 52 | 101 | 48 | 37 | 358 | 5 | 24 | -7 |
| Coatepec | 18 | 20 | 22 | 99 | 42 | 56 | 1260 | 4 | 37 | -7 |
| Coyuca de Catalán | 18 | 20 | 2 | 100 | 39 | 0 | 210 | 4 | 59 | -7 |
| Chaucingo | 18 | 18 | 7 | 99 | 6 | 53 | 810 | 4 | 23 | -7 |
| Chilpancingo | 17 | 33 | 10 | 99 | 30 | 3 | 1360 | 4 | 34 | -7 |
| Huamuxtitlan | 17 | 48 | 37 | 99 | 34 | 2 | 1125 | 4 | 35 | -7 |
| Iguana | 18 | 21 | 1 | 99 | 32 | 24 | 731 | 4 | 33 | -7 |
| La Unión | 17 | 58 | 52 | 101 | 48 | 49 | 174 | 5 | 25 | -7 |
| Mayanalan | 18 | 10 | 29 | 99 | 26 | 1 | 0 | 4 | 31 | -7 |
| Mezcala | 17 | 56 | 13 | 99 | 36 | 6 | 420 | 4 | 35 | -7 |
| Pericotepec | 17 | 57 | 40 | 100 | 13 | 0 | 770 | 4 | 50 | -7 |

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| ESTADO Población | latitud | | | longitud | | | alt m | δm | | Δδm '/año |
|--------------------------|---------|----|----|----------|----|----|----------|----|----|--------------|
| | ° | ' | “ | ° | ' | “ | | ° | ' | |
| Petatlán | 17 | 32 | 8 | 101 | 17 | 0 | 0 | 5 | 14 | -7 |
| Placeres de Oro | 18 | 14 | 31 | 100 | 53 | 57 | 0 | 5 | 4 | -7 |
| San Jerónimo | 17 | 5 | 55 | 100 | 28 | 26 | 0 | 4 | 57 | -7 |
| San L. de La Loma | 17 | 15 | 42 | 100 | 53 | 48 | 0 | 5 | 6 | -7 |
| San Marcos | 16 | 47 | 31 | 99 | 20 | 41 | 210 | 4 | 33 | -7 |
| Santa Fetepetlapa | 18 | 33 | 5 | 99 | 25 | 19 | 1090 | 4 | 30 | -7 |
| Taxco | 18 | 33 | 16 | 99 | 36 | 20 | 1755 | 4 | 34 | -7 |
| Teloloapan | 18 | 22 | 6 | 99 | 52 | 31 | 1620 | 4 | 41 | -7 |
| Tonalapa del Río | 18 | 20 | 38 | 99 | 41 | 6 | 750 | 4 | 36 | -7 |
| Tepantitlancoa | 18 | 0 | 26 | 100 | 17 | 6 | 820 | 4 | 51 | -7 |
| Tepecoacuilco | 18 | 17 | 10 | 99 | 27 | 55 | 1012 | 4 | 31 | -7 |
| Teteladelrio | 17 | 59 | 7 | 100 | 4 | 50 | 350 | 4 | 46 | -7 |
| Tlacoztitlan | 17 | 53 | 29 | 99 | 7 | 51 | 560 | 4 | 24 | -7 |
| Tlapehuala | 18 | 14 | 21 | 100 | 31 | 18 | 235 | 4 | 56 | -7 |
| Zihuatanejo | 17 | 38 | 14 | 101 | 33 | 48 | 0 | 5 | 20 | -7 |
| Zirandaro | 18 | 29 | 4 | 100 | 58 | 0 | 193 | 5 | 6 | -7 |
| Guanajuato | | | | | | | | | | |
| Abasolo | 20 | 26 | 59 | 100 | 31 | 48 | 1760 | 4 | 53 | -7 |
| Acambaro | 20 | 2 | 1 | 100 | 43 | 24 | 1947 | 4 | 58 | -7 |
| Apaseo | 20 | 32 | 37 | 100 | 41 | 7 | 1767 | 4 | 57 | -7 |
| Apaseo El Alto | 20 | 27 | 25 | 100 | 37 | 13 | 1853 | 4 | 55 | -7 |
| Atargea | 21 | 16 | 5 | 99 | 43 | 5 | 1258 | 4 | 32 | -7 |
| C. González | 21 | 28 | 44 | 101 | 12 | 52 | 2140 | 5 | 9 | -7 |
| Celaya | 20 | 31 | 24 | 100 | 48 | 55 | 1808 | 5 | 0 | -7 |
| Cerano | 20 | 6 | 41 | 101 | 23 | 26 | 1500 | 5 | 14 | -7 |
| Comonfort | 20 | 43 | 15 | 100 | 45 | 51 | 1795 | 4 | 59 | -7 |
| Coronea | 20 | 11 | 42 | 100 | 21 | 59 | 1998 | 4 | 50 | -7 |
| Cortazar | 20 | 28 | 59 | 100 | 52 | 58 | 1800 | 5 | 2 | -7 |
| Cubilete E. | 21 | 0 | 25 | 101 | 22 | 30 | 2480 | 5 | 13 | -7 |
| Cueramaro | 20 | 37 | 36 | 101 | 40 | 23 | 1785 | 5 | 20 | -7 |
| Dolores Hidalgo | 21 | 9 | 32 | 100 | 56 | 0 | 1987 | 5 | 2 | -7 |
| Guanajuato | 21 | 1 | 1 | 101 | 15 | 20 | 2050 | 5 | 10 | -7 |
| Huanimaro | 20 | 22 | 1 | 101 | 29 | 45 | 2459 | 5 | 16 | -7 |
| Ibarra | 21 | 28 | 53 | 101 | 32 | 23 | 2110 | 5 | 17 | -7 |
| Irapuato | 20 | 40 | 28 | 101 | 20 | 51 | 1795 | 5 | 12 | -7 |
| Iturbide | 21 | 0 | 3 | 100 | 23 | 4 | 1100 | 4 | 49 | -7 |
| Jaral del Progreso | 20 | 22 | 11 | 101 | 13 | 45 | 1743 | 5 | 10 | -7 |
| Jerécuaro | 20 | 9 | 3 | 100 | 30 | 43 | 1100 | 4 | 53 | -7 |
| León | 21 | 7 | 22 | 101 | 41 | 0 | 1885 | 5 | 20 | -7 |
| Manuel Doblado | 20 | 43 | 49 | 101 | 57 | 14 | 1795 | 5 | 26 | -7 |
| Mora | 21 | 8 | 47 | 100 | 19 | 0 | 2128 | 4 | 47 | -7 |
| Moroleón | 20 | 7 | 54 | 101 | 11 | 36 | 1772 | 5 | 9 | -7 |
| Penjamo | 20 | 25 | 44 | 101 | 43 | 22 | 1700 | 5 | 21 | -7 |
| Pueblo Nuevo | 20 | 31 | 35 | 101 | 22 | 18 | 1714 | 5 | 13 | -7 |
| Purísima de Bustos | 21 | 1 | 48 | 101 | 52 | 36 | 1780 | 5 | 25 | -7 |
| Romita | 20 | 52 | 14 | 101 | 31 | 7 | 1792 | 5 | 16 | -7 |
| Salamanca | 20 | 34 | 22 | 101 | 11 | 39 | 1721 | 5 | 9 | -7 |
| Salvatierra | 20 | 12 | 56 | 100 | 53 | 46 | 1749 | 5 | 2 | -7 |
| San Diego de La Unión | 21 | 27 | 56 | 100 | 52 | 25 | 2080 | 5 | 1 | -7 |
| San Francisco del Rincón | 21 | 1 | 2 | 101 | 51 | 36 | 1721 | 5 | 24 | -7 |
| San Juan de Los Llanos | 21 | 16 | 47 | 101 | 19 | 4 | 1000 | 5 | 12 | -7 |

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Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ /año |
|-----------------------|---------|----|----|----------|----|----|----------|------------|----|---------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| San José | 20 | 56 | 13 | 100 | 58 | 32 | 2002 | 5 | 4 | -7 |
| San Luis de la Paz | 21 | 17 | 57 | 100 | 30 | 52 | 2020 | 4 | 52 | -7 |
| San Miguel de Allende | 20 | 54 | 52 | 100 | 44 | 47 | 1870 | 4 | 58 | -7 |
| Santa Catarina | 21 | 8 | 27 | 100 | 14 | 10 | 1845 | 4 | 45 | -7 |
| Santa Cruz Galeana | 20 | 38 | 35 | 100 | 59 | 50 | 1000 | 5 | 4 | -7 |
| Santiago Maravatio | 20 | 10 | 28 | 100 | 59 | 38 | 1790 | 5 | 4 | -7 |
| Silao | 20 | 56 | 24 | 101 | 25 | 59 | 1780 | 5 | 14 | -7 |
| Tarandacua | 20 | 1 | 14 | 100 | 32 | 3 | 1920 | 4 | 54 | -7 |
| Tarimoro | 20 | 17 | 39 | 100 | 45 | 20 | 1790 | 4 | 59 | -7 |
| Tierra Blanca | 21 | 6 | 9 | 100 | 4 | 44 | 1760 | 4 | 42 | -7 |
| Uriangato | 20 | 8 | 46 | 100 | 8 | 10 | 1800 | 4 | 44 | -7 |
| Valle de Santiago | 20 | 23 | 31 | 101 | 11 | 21 | 1760 | 5 | 9 | -7 |
| Victoria | 21 | 12 | 23 | 100 | 13 | 9 | 1760 | 4 | 45 | -7 |
| Villa Ocampo | 21 | 38 | 52 | 101 | 28 | 50 | 2420 | 5 | 15 | -7 |
| Villagran | 20 | 29 | 40 | 100 | 59 | 52 | 1790 | 5 | 4 | -7 |
| Xichu | 21 | 18 | 0 | 100 | 3 | 37 | 1334 | 4 | 41 | -7 |
| Yuriria | 20 | 12 | 51 | 100 | 8 | 19 | 1882 | 4 | 44 | -7 |
| Hidalgo | | | | | | | | | | |
| Acayuca | 20 | 1 | 48 | 98 | 50 | 30 | 2570 | 4 | 12 | -7 |
| Actopan | 20 | 16 | 12 | 96 | 56 | 42 | 2069 | 3 | 21 | -8 |
| Ahuehuevo | 21 | 1 | 43 | 98 | 54 | 24 | 2500 | 4 | 12 | -7 |
| Altajayucan | 20 | 24 | 40 | 99 | 20 | 59 | 1898 | 4 | 24 | -7 |
| Apan | 19 | 39 | 35 | 98 | 24 | 10 | 2493 | 4 | 2 | -7 |
| Atonilco Grande | 20 | 17 | 6 | 98 | 40 | 13 | 2138 | 4 | 7 | -7 |
| Bonanza | 20 | 43 | 12 | 99 | 14 | 36 | 1900 | 4 | 21 | -7 |
| Chapantongo | 20 | 17 | 16 | 99 | 24 | 50 | 2145 | 4 | 26 | -7 |
| Chapulhuacan | 21 | 9 | 29 | 98 | 54 | 22 | 1500 | 4 | 12 | -7 |
| Chicautla | 20 | 19 | 54 | 99 | 13 | 49 | 1884 | 4 | 21 | -7 |
| Epazoyuca | 20 | 1 | 33 | 98 | 37 | 26 | 2461 | 4 | 6 | -7 |
| Huasca | 20 | 12 | 12 | 98 | 34 | 42 | 1900 | 4 | 5 | -7 |
| Huautla | 21 | 2 | 3 | 98 | 16 | 54 | 1900 | 3 | 55 | -7 |
| Huejutla | 21 | 8 | 43 | 98 | 24 | 58 | 2490 | 3 | 59 | -7 |
| Huichapan | 20 | 22 | 37 | 99 | 38 | 58 | 2102 | 4 | 32 | -7 |
| Ixmiquilpan | 20 | 29 | 4 | 99 | 13 | 5 | 1745 | 4 | 21 | -7 |
| Metxtitlan | 20 | 35 | 45 | 98 | 45 | 30 | 1353 | 4 | 9 | -7 |
| Mexquititlan | 20 | 32 | 0 | 98 | 38 | 27 | 1421 | 4 | 6 | -7 |
| Nopala | 20 | 15 | 19 | 98 | 38 | 52 | 2437 | 4 | 6 | -7 |
| Orizatlan | 21 | 10 | 35 | 98 | 36 | 40 | 1900 | 4 | 4 | -7 |
| Pachuca | 20 | 7 | 44 | 98 | 43 | 54 | 2426 | 4 | 9 | -7 |
| Pisa Flores | 21 | 11 | 44 | 99 | 0 | 15 | 1900 | 4 | 14 | -7 |
| Real del Monte | 20 | 8 | 23 | 98 | 40 | 21 | 2679 | 4 | 7 | -7 |
| San Agustín Tlaxiaca | 20 | 7 | 5 | 98 | 53 | 6 | 2372 | 4 | 13 | -7 |
| San Gabriel | 19 | 52 | 44 | 98 | 36 | 58 | 1900 | 4 | 7 | -7 |
| San Juanico | 19 | 54 | 14 | 98 | 40 | 17 | 1900 | 4 | 8 | -7 |
| San Pablo | 20 | 38 | 38 | 98 | 55 | 21 | 1900 | 4 | 13 | -7 |
| Santa Mónica | 19 | 58 | 55 | 98 | 37 | 16 | 1900 | 4 | 6 | -7 |
| Singuilucan | 20 | 1 | 52 | 98 | 19 | 59 | 2714 | 3 | 59 | -7 |
| Tasquillo | 20 | 33 | 7 | 99 | 18 | 21 | 1720 | 4 | 23 | -7 |
| Tepetitlan | 20 | 11 | 14 | 99 | 22 | 59 | 2000 | 4 | 25 | -7 |
| Tezontepec | 19 | 52 | 44 | 98 | 49 | 10 | 2326 | 4 | 12 | -7 |
| Tianguistengo | 20 | 44 | 0 | 98 | 37 | 34 | 1687 | 4 | 5 | -7 |

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Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | $\Delta \delta m$ /año | |
|----------------------|---------|----|----|----------|----|----|----------|------------|---------------------------|----|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Tulancingo | 20 | 4 | 58 | 98 | 22 | 8 | 2222 | 4 | 0 | -7 |
| Tlaxcoapan | 20 | 5 | 40 | 99 | 13 | 29 | 2100 | 4 | 22 | -7 |
| Yolotepec | 20 | 23 | 36 | 99 | 4 | 31 | 1900 | 4 | 17 | -7 |
| Zempoala | 19 | 54 | 54 | 98 | 40 | 2 | 2532 | 4 | 8 | -7 |
| Zimapan | 20 | 44 | 20 | 99 | 22 | 58 | 1813 | 4 | 25 | -7 |
| Jalisco | | | | | | | | | | |
| Ameca | 20 | 32 | 47 | 104 | 2 | 46 | 1235 | 6 | 11 | -7 |
| Atoyac | 20 | 0 | 40 | 103 | 31 | 12 | 1350 | 6 | 0 | -7 |
| Autlan de Navarro | 19 | 46 | 13 | 104 | 22 | 4 | 688 | 6 | 16 | -6 |
| Bolanos | 21 | 46 | 31 | 103 | 46 | 58 | 910 | 6 | 7 | -7 |
| Cabo Corriente | 20 | 24 | 42 | 105 | 40 | 50 | 81 | 6 | 42 | -6 |
| Carranza | 19 | 44 | 46 | 103 | 46 | 18 | 0 | 6 | 4 | -7 |
| Cihuatlan | 19 | 14 | 8 | 104 | 33 | 36 | 0 | 6 | 19 | -6 |
| Ciudad Guzmán | 19 | 42 | 13 | 103 | 27 | 53 | 1507 | 5 | 58 | -7 |
| Cocula | 20 | 23 | 55 | 103 | 49 | 27 | 1432 | 6 | 6 | -7 |
| Colotlan | 22 | 6 | 51 | 103 | 16 | 8 | 0 | 5 | 57 | -7 |
| Encarnación de Díaz | 21 | 31 | 37 | 102 | 14 | 6 | 1814 | 5 | 33 | -7 |
| Guachinango | 20 | 34 | 38 | 104 | 22 | 59 | 1285 | 6 | 18 | -6 |
| Guadalajara | 20 | 42 | 32 | 103 | 23 | 9 | 1567 | 5 | 57 | -7 |
| Guerrero | 21 | 59 | 4 | 103 | 35 | 52 | 1785 | 6 | 4 | -7 |
| Hostotipaquillo | 21 | 3 | 46 | 104 | 4 | 21 | 1079 | 6 | 12 | -7 |
| Huejuquilla | 22 | 37 | 42 | 103 | 53 | 58 | 1480 | 6 | 12 | -7 |
| La Barca | 20 | 16 | 37 | 102 | 32 | 53 | 1517 | 5 | 39 | -7 |
| La Rosa | 19 | 45 | 7 | 103 | 10 | 2 | 0 | 5 | 52 | -7 |
| Lagos de Moreno | 21 | 21 | 20 | 101 | 55 | 24 | 1942 | 5 | 26 | -7 |
| Ojuelos | 21 | 52 | 5 | 101 | 35 | 20 | 2254 | 5 | 18 | -7 |
| Puerto Vallarta | 20 | 36 | 56 | 105 | 14 | 42 | 5 | 6 | 34 | -6 |
| San Miguel del Alto | 21 | 1 | 52 | 102 | 24 | 12 | 2385 | 5 | 36 | -7 |
| San Pedro Analco | 21 | 14 | 54 | 103 | 57 | 57 | 0 | 6 | 10 | -7 |
| Talpa de Allende | 20 | 23 | 41 | 104 | 49 | 52 | 1039 | 6 | 26 | -6 |
| Tapatitlán | 20 | 48 | 48 | 102 | 45 | 41 | 1764 | 5 | 44 | -7 |
| Tecatitlán | 19 | 28 | 16 | 103 | 18 | 30 | 1036 | 5 | 55 | -7 |
| Tecomates | 19 | 33 | 8 | 104 | 29 | 18 | 0 | 6 | 18 | -6 |
| Tecaltiche | 21 | 26 | 11 | 102 | 34 | 32 | 2240 | 5 | 41 | -7 |
| Tequila | 20 | 53 | 33 | 103 | 50 | 8 | 1215 | 6 | 7 | -7 |
| Unión de Tula | 19 | 57 | 37 | 104 | 16 | 7 | 1385 | 6 | 14 | -6 |
| México | | | | | | | | | | |
| Acambay | 19 | 57 | 18 | 99 | 50 | 47 | 2552 | 4 | 37 | -7 |
| Amecameca | 19 | 7 | 36 | 98 | 46 | 0 | 2468 | 4 | 12 | -7 |
| Analco de Becerra | 19 | 15 | 34 | 100 | 1 | 26 | 2511 | 4 | 43 | -7 |
| Atlacomulco | 19 | 48 | 7 | 98 | 52 | 48 | 2526 | 4 | 13 | -7 |
| Ayotla | 19 | 18 | 55 | 98 | 56 | 8 | 2251 | 4 | 16 | -7 |
| Chalco | 19 | 15 | 53 | 98 | 54 | 12 | 2280 | 4 | 15 | -7 |
| Chapa de Mota | 19 | 47 | 24 | 99 | 31 | 23 | 3070 | 4 | 30 | -7 |
| Chicoloapan | 19 | 25 | 3 | 98 | 54 | 11 | 2235 | 4 | 15 | -7 |
| Chimalhuacán | 19 | 25 | 45 | 98 | 56 | 57 | 2255 | 4 | 16 | -7 |
| Coatlichán | 19 | 27 | 4 | 98 | 52 | 34 | 2200 | 4 | 14 | -7 |
| Ecatzingo de Hidalgo | 18 | 57 | 2 | 98 | 45 | 29 | 2340 | 4 | 12 | -7 |
| Huexotla | 19 | 28 | 50 | 98 | 52 | 25 | 2200 | 4 | 14 | -7 |
| Huizquilucan | 19 | 21 | 47 | 99 | 21 | 39 | 2750 | 4 | 26 | -7 |
| Ixtapan de La Sal | 18 | 50 | 13 | 99 | 40 | 28 | 1900 | 4 | 35 | -7 |

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Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ /año |
|---------------------------|---------|----|----|----------|----|----|----------|------------|----|---------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Ixtlahuaca | 19 | 52 | 54 | 98 | 51 | 39 | 2640 | 4 | 13 | -7 |
| Jilotepec | 19 | 57 | 13 | 99 | 31 | 45 | 2525 | 4 | 29 | -7 |
| Lerma | 19 | 17 | 16 | 99 | 30 | 34 | 2599 | 4 | 30 | -7 |
| Los Reyes | 19 | 21 | 27 | 98 | 52 | 42 | 2200 | 4 | 14 | -7 |
| Naucalpan | 19 | 28 | 36 | 99 | 13 | 45 | 2298 | 4 | 23 | -7 |
| Otumba | 19 | 41 | 59 | 98 | 45 | 33 | 2349 | 4 | 11 | -7 |
| Ozumba | 19 | 2 | 3 | 98 | 47 | 50 | 2500 | 4 | 13 | -7 |
| Progreso Industrial | 19 | 37 | 37 | 99 | 20 | 32 | 2449 | 4 | 25 | -7 |
| Popocatepetl | 19 | 1 | 17 | 98 | 37 | 34 | 5452 | 4 | 9 | -7 |
| Popocatepetl | 19 | 5 | 3 | 98 | 39 | 12 | 5450 | 4 | 9 | -7 |
| Remedios | 19 | 28 | 25 | 99 | 15 | 2 | 2383 | 4 | 23 | -7 |
| San Antonio del Rosario | 18 | 24 | 4 | 100 | 18 | 43 | 3350 | 4 | 51 | -7 |
| San Cristobal | 19 | 24 | 24 | 99 | 19 | 40 | 2239 | 4 | 25 | -7 |
| San Pedro Atzapatzaltongo | 19 | 37 | 38 | 99 | 18 | 54 | 2420 | 4 | 25 | -7 |
| San Pedro Atzompa | 19 | 40 | 56 | 99 | 0 | 36 | 2243 | 4 | 17 | -7 |
| Sultepec | 18 | 50 | 0 | 99 | 51 | 44 | 2336 | 4 | 40 | -7 |
| Tecamac | 19 | 42 | 21 | 98 | 58 | 10 | 2300 | 4 | 16 | -7 |
| Temascalapa | 19 | 49 | 37 | 98 | 54 | 11 | 2347 | 4 | 14 | -7 |
| Temascaltepec | 19 | 2 | 24 | 100 | 2 | 47 | 1640 | 4 | 44 | -7 |
| Tenancingo | 18 | 57 | 51 | 99 | 35 | 45 | 2022 | 4 | 33 | -7 |
| Teoloyucan | 19 | 44 | 48 | 99 | 10 | 53 | 2280 | 4 | 21 | -7 |
| Texcoco | 19 | 30 | 52 | 98 | 52 | 57 | 2278 | 4 | 14 | -7 |
| Tlalmanalco | 19 | 12 | 36 | 98 | 48 | 27 | 2412 | 4 | 13 | -7 |
| Tlalnepantla | 19 | 32 | 20 | 99 | 11 | 39 | 2278 | 4 | 22 | -7 |
| Toluca | 19 | 17 | 33 | 99 | 39 | 38 | 2680 | 4 | 34 | -7 |
| Michoacán | | | | | | | | | | |
| Aguililla | 18 | 44 | 17 | 102 | 44 | 9 | 970 | 5 | 43 | -7 |
| Agostitlán | 19 | 32 | 6 | 100 | 37 | 13 | 2500 | 4 | 56 | -7 |
| Apatzingan | 19 | 4 | 54 | 102 | 15 | 31 | 682 | 5 | 33 | -7 |
| Apo | 19 | 26 | 38 | 102 | 25 | 2 | 0 | 5 | 36 | -7 |
| Ario de Rosales | 19 | 12 | 21 | 101 | 44 | 19 | 2050 | 5 | 22 | -7 |
| Buenavista | 19 | 12 | 3 | 102 | 35 | 35 | 586 | 5 | 40 | -7 |
| Coahuayana | 18 | 45 | 9 | 103 | 40 | 30 | 20 | 6 | 2 | -7 |
| Cotija | 19 | 48 | 41 | 102 | 42 | 26 | 1751 | 5 | 43 | -7 |
| Hidalgo | 19 | 41 | 19 | 100 | 33 | 23 | 2360 | 4 | 55 | -7 |
| Huajumbaro | 19 | 40 | 52 | 100 | 44 | 29 | 2390 | 4 | 59 | -7 |
| Irimbo | 19 | 41 | 54 | 100 | 28 | 58 | 2015 | 4 | 53 | -7 |
| Janitzio | 19 | 34 | 27 | 101 | 39 | 11 | 2120 | 5 | 20 | -7 |
| Jiquilpan | 19 | 59 | 31 | 102 | 43 | 16 | 1654 | 5 | 43 | -7 |
| La Huacana | 18 | 57 | 36 | 101 | 48 | 39 | 550 | 5 | 24 | -7 |
| Los Reyes | 19 | 35 | 23 | 102 | 28 | 57 | 1280 | 5 | 38 | -7 |
| Maravatio | 19 | 53 | 33 | 100 | 26 | 43 | 2080 | 4 | 52 | -7 |
| Morelia | 19 | 42 | 16 | 101 | 11 | 30 | 1941 | 5 | 9 | -7 |
| Ostula | 18 | 29 | 50 | 103 | 28 | 19 | 229 | 5 | 58 | -7 |
| Panindicuario | 19 | 59 | 7 | 102 | 45 | 40 | 1638 | 5 | 44 | -7 |
| Paracuaro | 19 | 8 | 46 | 103 | 13 | 32 | 586 | 5 | 53 | -7 |
| Paracho | 19 | 38 | 44 | 102 | 3 | 1 | 1567 | 5 | 28 | -7 |
| Patzcuaro | 19 | 32 | 24 | 101 | 37 | 0 | 2174 | 5 | 19 | -7 |
| Penjamillo | 20 | 6 | 31 | 101 | 55 | 40 | 1645 | 5 | 26 | -7 |
| Piedad de Cavadas | 20 | 20 | 44 | 102 | 1 | 32 | 1696 | 5 | 28 | -7 |
| Pueblo Viejo | 19 | 46 | 16 | 101 | 34 | 3 | 2210 | 5 | 18 | -7 |

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Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ '/año |
|-----------------------|---------|----|----|----------|----|----|----------|------------|----|----------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Puruandiro | 20 | 5 | 21 | 101 | 30 | 59 | 1994 | 5 | 16 | -7 |
| San Pedro Jacuaro | 19 | 43 | 1 | 100 | 38 | 49 | 2004 | 4 | 57 | -7 |
| Senguio | 19 | 44 | 11 | 100 | 21 | 31 | 2030 | 4 | 50 | -7 |
| Tacambaro | 19 | 13 | 52 | 101 | 27 | 34 | 1577 | 5 | 16 | -7 |
| Tequicheo | 18 | 54 | 0 | 100 | 44 | 21 | 440 | 5 | 0 | -7 |
| Tepalcatepec | 19 | 11 | 31 | 102 | 50 | 35 | 320 | 5 | 45 | -7 |
| Tumbiscatio | 18 | 31 | 33 | 102 | 22 | 28 | 820 | 5 | 36 | -7 |
| Turicato | 19 | 3 | 0 | 101 | 25 | 14 | 795 | 5 | 15 | -7 |
| Tuzantla | 19 | 12 | 19 | 100 | 34 | 39 | 640 | 4 | 56 | -7 |
| Uruapan | 19 | 24 | 56 | 102 | 3 | 46 | 1634 | 5 | 29 | -7 |
| Villa Madero | 19 | 23 | 30 | 101 | 16 | 34 | 800 | 5 | 11 | -7 |
| Zacapu | 19 | 49 | 11 | 101 | 47 | 34 | 1980 | 5 | 23 | -7 |
| Zamora | 19 | 59 | 17 | 102 | 18 | 52 | 1567 | 5 | 34 | -7 |
| Zinapécuaro | 19 | 53 | 5 | 100 | 40 | 32 | 1920 | 4 | 57 | -7 |
| Zitacuaro | 19 | 25 | 51 | 100 | 21 | 50 | 1781 | 4 | 50 | -7 |
| Morelos | | | | | | | | | | |
| Acapatzingo | 18 | 54 | 11 | 99 | 13 | 17 | 1465 | 4 | 24 | -7 |
| Acatlipa | 18 | 49 | 30 | 99 | 13 | 42 | 1215 | 4 | 24 | -7 |
| Ahuacatlán | 18 | 58 | 42 | 99 | 15 | 19 | 1955 | 4 | 25 | -7 |
| Atlatlahuacán | 18 | 56 | 5 | 98 | 53 | 53 | 1656 | 4 | 16 | -7 |
| Coatetelco | 18 | 43 | 55 | 99 | 19 | 48 | 1029 | 4 | 27 | -7 |
| Cuajomulco | 19 | 2 | 2 | 99 | 12 | 17 | 2651 | 4 | 23 | -7 |
| Cuautla | 18 | 48 | 20 | 98 | 57 | 13 | 1309 | 4 | 18 | -7 |
| Cuernavaca | 18 | 54 | 54 | 99 | 14 | 14 | 1542 | 4 | 24 | -7 |
| Chapultepec | 18 | 55 | 11 | 99 | 12 | 49 | 1492 | 4 | 24 | -7 |
| Huautla | 18 | 26 | 24 | 99 | 1 | 44 | 1075 | 4 | 20 | -7 |
| Huitzilac | 19 | 1 | 39 | 99 | 16 | 2 | 2540 | 4 | 25 | -7 |
| Itzamatitlán | 18 | 53 | 58 | 99 | 1 | 30 | 1235 | 4 | 19 | -7 |
| Jojutla | 18 | 36 | 39 | 99 | 10 | 52 | 890 | 4 | 24 | -7 |
| Oaxtepec | 18 | 54 | 2 | 98 | 58 | 11 | 1385 | 4 | 18 | -7 |
| San Miguel | 18 | 41 | 42 | 98 | 48 | 40 | 1403 | 4 | 14 | -7 |
| Tejalpa | 18 | 53 | 43 | 99 | 9 | 57 | 1337 | 4 | 23 | -7 |
| Tepalcingo | 18 | 35 | 34 | 98 | 50 | 43 | 1220 | 4 | 16 | -7 |
| Tetelcingo | 18 | 51 | 55 | 98 | 55 | 47 | 1425 | 4 | 17 | -7 |
| Xiutepec | 18 | 52 | 31 | 99 | 10 | 27 | 1355 | 4 | 23 | -7 |
| Xochitepec | 18 | 47 | 4 | 99 | 13 | 50 | 1154 | 4 | 25 | -7 |
| Yautepec | 18 | 52 | 38 | 99 | 3 | 46 | 1282 | 4 | 20 | -7 |
| Yecapixtla | 18 | 52 | 56 | 98 | 51 | 55 | 1603 | 4 | 15 | -7 |
| Nayarit | | | | | | | | | | |
| Acaponeta | 22 | 29 | 21 | 105 | 21 | 41 | 30 | 6 | 42 | -6 |
| Amatlán de Jara | 21 | 23 | 9 | 104 | 8 | 47 | 1150 | 6 | 14 | -7 |
| Huajimic | 21 | 41 | 29 | 104 | 18 | 18 | 1170 | 6 | 18 | -6 |
| Ixtapan | 21 | 18 | 16 | 105 | 9 | 44 | 0 | 6 | 34 | -6 |
| Ixtlán del Río | 21 | 2 | 9 | 104 | 22 | 16 | 1042 | 6 | 18 | -6 |
| Jesús María | 22 | 15 | 9 | 104 | 31 | 10 | 610 | 6 | 24 | -6 |
| Mezcaltitan | 21 | 54 | 18 | 105 | 28 | 39 | 0 | 6 | 42 | -6 |
| Ruiz | 21 | 57 | 29 | 105 | 8 | 35 | 24 | 6 | 36 | -6 |
| San Blas | 21 | 32 | 27 | 105 | 17 | 16 | 2 | 6 | 38 | -6 |
| San Martín de Bolanos | 21 | 29 | 42 | 104 | 1 | 35 | 0 | 6 | 12 | -7 |
| Tepic | 21 | 30 | 47 | 104 | 53 | 42 | 915 | 6 | 30 | -6 |
| Tuxpan | 21 | 54 | 10 | 104 | 8 | 6 | 39 | 6 | 15 | -7 |

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Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | $\Delta \delta m$ /año | |
|-----------------------|---------|----|----|----------|----|----|----------|------------|---------------------------|----|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Nuevo León | | | | | | | | | | |
| Agualeguas | 26 | 18 | 38 | 99 | 33 | 3 | 207 | 4 | 27 | -7 |
| Arramberri | 24 | 6 | 10 | 99 | 49 | 3 | 1076 | 4 | 34 | -7 |
| Cadereyta Jiménez | 25 | 35 | 34 | 99 | 59 | 54 | 360 | 4 | 39 | -7 |
| Cerralvo | 26 | 5 | 32 | 99 | 36 | 29 | 345 | 4 | 28 | -7 |
| China | 25 | 42 | 30 | 99 | 13 | 55 | 163 | 4 | 17 | -7 |
| Doctor Arroyo | 23 | 40 | 23 | 100 | 10 | 52 | 1766 | 4 | 43 | -7 |
| Galeana | 24 | 49 | 41 | 100 | 3 | 53 | 1654 | 4 | 40 | -7 |
| García | 25 | 48 | 49 | 100 | 35 | 21 | 697 | 4 | 56 | -7 |
| Lampazos de Naranjo | 27 | 1 | 32 | 100 | 30 | 33 | 340 | 4 | 55 | -7 |
| Linares | 24 | 51 | 39 | 99 | 34 | 5 | 684 | 4 | 27 | -7 |
| Los Aldamas | 26 | 3 | 58 | 99 | 11 | 30 | 288 | 4 | 16 | -7 |
| Mier y Noriega | 23 | 25 | 19 | 100 | 7 | 11 | 1681 | 4 | 42 | -7 |
| Montemorelos | 25 | 11 | 34 | 99 | 49 | 31 | 432 | 4 | 34 | -7 |
| Monterrey | 25 | 40 | 11 | 100 | 18 | 26 | 538 | 4 | 48 | -7 |
| Parras | 26 | 30 | 5 | 99 | 31 | 5 | 165 | 4 | 26 | -7 |
| Sabinas Hidalgo | 26 | 29 | 59 | 100 | 10 | 9 | 313 | 4 | 45 | -7 |
| Salinas Victoria | 25 | 57 | 34 | 100 | 18 | 0 | 464 | 4 | 48 | -7 |
| Santiago Huajuco | 25 | 25 | 35 | 100 | 8 | 17 | 445 | 4 | 43 | -7 |
| Vallecillo | 26 | 39 | 41 | 99 | 58 | 2 | 274 | 4 | 39 | -7 |
| Villa Aldama | 26 | 29 | 49 | 100 | 25 | 50 | 469 | 4 | 52 | -7 |
| Zaragoza | 23 | 50 | 52 | 99 | 36 | 19 | 1377 | 4 | 28 | -7 |
| Oaxaca | | | | | | | | | | |
| Ayutla | 18 | 1 | 48 | 96 | 39 | 46 | 733 | 3 | 21 | -8 |
| Ayoquezco | 16 | 41 | 13 | 96 | 50 | 2 | 0 | 3 | 32 | -8 |
| Ayotzintepec | 17 | 40 | 38 | 96 | 8 | 17 | 64 | 3 | 9 | -8 |
| Coatzopan | 18 | 2 | 56 | 96 | 45 | 31 | 1922 | 3 | 24 | -8 |
| Colotepec | 15 | 53 | 33 | 96 | 56 | 28 | 0 | 3 | 38 | -8 |
| Cuicatlán | 17 | 48 | 11 | 96 | 57 | 36 | 595 | 3 | 30 | -8 |
| Chacalapa | 15 | 55 | 20 | 95 | 55 | 48 | 555 | 3 | 12 | -8 |
| Chalcatongo | 17 | 1 | 57 | 97 | 34 | 24 | 2365 | 3 | 49 | -8 |
| Ecatepec | 16 | 17 | 8 | 95 | 52 | 39 | 1690 | 3 | 9 | -8 |
| Ejutla de Crespo | 16 | 33 | 48 | 96 | 43 | 44 | 1440 | 3 | 30 | -8 |
| Etla | 17 | 12 | 17 | 96 | 47 | 49 | 1640 | 3 | 28 | -8 |
| Guichicovi | 16 | 58 | 35 | 95 | 13 | 52 | 297 | 2 | 47 | -8 |
| Guelatao | 17 | 19 | 15 | 96 | 29 | 34 | 1698 | 3 | 20 | -8 |
| Guelatao | 17 | 19 | 10 | 96 | 29 | 31 | 1600 | 3 | 20 | -8 |
| Huajuapán de León | 17 | 48 | 30 | 97 | 46 | 31 | 1680 | 3 | 51 | -8 |
| Huamelulas Pedro | 16 | 1 | 39 | 95 | 40 | 1 | 1030 | 3 | 4 | -8 |
| Huatulco | 15 | 49 | 44 | 96 | 19 | 11 | 325 | 3 | 23 | -8 |
| Huautla | 18 | 7 | 53 | 96 | 50 | 45 | 1714 | 3 | 26 | -8 |
| Jamiltepec | 16 | 16 | 33 | 97 | 49 | 23 | 240 | 3 | 58 | -8 |
| Juchitlán de Zaragoza | 16 | 25 | 56 | 95 | 1 | 31 | 38 | 2 | 45 | -8 |
| Juguila | 16 | 14 | 6 | 97 | 17 | 45 | 1500 | 3 | 45 | -8 |
| Juxtlahuaca | 17 | 20 | 11 | 98 | 0 | 56 | 1650 | 3 | 59 | -7 |
| Lachiguiri | 16 | 23 | 9 | 97 | 20 | 8 | 1780 | 3 | 46 | -8 |
| Loxicha | 16 | 0 | 31 | 96 | 37 | 20 | 1885 | 3 | 29 | -8 |
| Mazatlán | 17 | 2 | 11 | 95 | 26 | 48 | 642 | 2 | 53 | -8 |
| Miahuatlán | 16 | 20 | 1 | 96 | 35 | 44 | 1607 | 3 | 27 | -8 |
| Nejapa | 16 | 36 | 50 | 95 | 58 | 48 | 1000 | 3 | 10 | -8 |
| Niltepec | 16 | 33 | 47 | 94 | 36 | 48 | 110 | 2 | 32 | -8 |
| Nochixtlan | 17 | 27 | 33 | 97 | 13 | 29 | 2200 | 3 | 38 | -8 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ '/año |
|----------------------|---------|----|----|----------|----|----|----------|------------|----|----------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Oaxaca de Juárez | 17 | 3 | 43 | 96 | 43 | 18 | 1550 | 3 | 27 | -8 |
| Ocoatepec | 17 | 47 | 53 | 96 | 23 | 47 | 1636 | 3 | 15 | -8 |
| Ojitlán | 18 | 3 | 42 | 96 | 23 | 31 | 0 | 3 | 14 | -8 |
| Ojitlán | 18 | 3 | 35 | 96 | 23 | 34 | 233 | 3 | 14 | -8 |
| Pluma Hidalgo | 15 | 54 | 50 | 96 | 25 | 30 | 1475 | 3 | 25 | -8 |
| Pochutla | 15 | 44 | 21 | 96 | 27 | 57 | 163 | 3 | 27 | -8 |
| Puerto Ángel | 15 | 39 | 24 | 96 | 29 | 35 | 20 | 3 | 28 | -8 |
| Putla | 17 | 1 | 28 | 97 | 56 | 2 | 1248 | 3 | 58 | -8 |
| Quiachapa | 16 | 25 | 34 | 96 | 14 | 54 | 1900 | 3 | 18 | -8 |
| Quiotepec | 17 | 54 | 8 | 96 | 59 | 0 | 845 | 3 | 30 | -8 |
| Salinas Cruz | 16 | 9 | 37 | 95 | 12 | 11 | 70 | 2 | 51 | -8 |
| San Jerónimo Ixtepec | 16 | 33 | 58 | 95 | 6 | 1 | 121 | 2 | 46 | -8 |
| San Miguel Peras | 16 | 56 | 22 | 97 | 0 | 16 | 50 | 3 | 35 | -8 |
| San Vicente Coatlán | 16 | 23 | 15 | 96 | 50 | 42 | 0 | 3 | 33 | -8 |
| Santa María del Mar | 16 | 13 | 24 | 94 | 51 | 33 | 0 | 2 | 41 | -8 |
| Silacayoapan | 17 | 30 | 14 | 98 | 8 | 38 | 1720 | 4 | 2 | -7 |
| Soladevega | 16 | 31 | 1 | 96 | 58 | 22 | 1580 | 3 | 36 | -8 |
| Soyaltepec | 18 | 12 | 12 | 96 | 28 | 57 | 0 | 3 | 16 | -8 |
| Suchixtepec | 17 | 58 | 28 | 97 | 39 | 26 | 2842 | 3 | 48 | -8 |
| Tamazulapan | 17 | 40 | 30 | 97 | 34 | 19 | 0 | 3 | 47 | -8 |
| Tecomavaca | 17 | 57 | 34 | 97 | 1 | 5 | 660 | 3 | 31 | -8 |
| Tehuantepec | 16 | 19 | 57 | 95 | 13 | 46 | 100 | 2 | 51 | -8 |
| Teotitlán del Camino | 18 | 7 | 53 | 97 | 4 | 26 | 1067 | 3 | 32 | -8 |
| Teposcolula | 17 | 30 | 45 | 97 | 29 | 16 | 2155 | 3 | 45 | -8 |
| Tequisistlán | 16 | 24 | 21 | 95 | 36 | 2 | 1000 | 3 | 0 | -8 |
| Teutla | 17 | 59 | 0 | 96 | 42 | 54 | 1338 | 3 | 23 | -8 |
| Tezoatlán | 17 | 40 | 24 | 97 | 48 | 42 | 1500 | 3 | 53 | -8 |
| Tlaxiaco | 17 | 15 | 59 | 97 | 40 | 58 | 1210 | 3 | 51 | -8 |
| Tlocola de Matamoros | 16 | 57 | 19 | 96 | 28 | 43 | 1650 | 3 | 21 | -8 |
| Tololapan | 16 | 40 | 4 | 96 | 18 | 12 | 0 | 3 | 18 | -8 |
| Tuxtepec | 18 | 5 | 24 | 96 | 6 | 50 | 91 | 3 | 6 | -8 |
| Valle Nacional | 17 | 40 | 43 | 96 | 17 | 59 | 65 | 3 | 13 | -8 |
| Villa Alta | 17 | 20 | 41 | 96 | 9 | 8 | 1138 | 3 | 11 | -8 |
| Yacuane | 17 | 14 | 25 | 97 | 27 | 3 | 0 | 3 | 45 | -8 |
| Yautepec | 16 | 25 | 52 | 95 | 58 | 11 | 1100 | 3 | 10 | -8 |
| Yautepec | 16 | 30 | 15 | 96 | 6 | 18 | 1000 | 3 | 14 | -8 |
| Yalalag | 17 | 11 | 20 | 96 | 10 | 48 | 1186 | 3 | 12 | -8 |
| Zaniza | 16 | 39 | 7 | 97 | 20 | 19 | 0 | 3 | 45 | -8 |
| Zimatlan | 16 | 52 | 0 | 96 | 46 | 34 | 1609 | 3 | 29 | -8 |
| Puebla | | | | | | | | | | |
| Acatepec | 19 | 1 | 16 | 98 | 18 | 24 | 2174 | 4 | 1 | -7 |
| Acatlán de Osorio | 18 | 12 | 6 | 98 | 3 | 6 | 1213 | 3 | 57 | -8 |
| Ahuatempan | 18 | 24 | 47 | 98 | 0 | 58 | 1810 | 3 | 55 | -8 |
| Atezcal | 18 | 23 | 51 | 97 | 43 | 28 | 1847 | 3 | 48 | -8 |
| Atlixco | 18 | 54 | 32 | 98 | 26 | 27 | 1881 | 4 | 5 | -7 |
| Cacalotepec | 19 | 0 | 3 | 98 | 17 | 28 | 2337 | 4 | 0 | -7 |
| Canoa | 19 | 8 | 55 | 98 | 6 | 4 | 2000 | 3 | 55 | -7 |
| Canal de Morelos | 18 | 44 | 8 | 97 | 25 | 20 | 2337 | 3 | 39 | -8 |
| Coronanc | 19 | 7 | 11 | 98 | 17 | 58 | 2230 | 4 | 0 | -7 |
| Coxcatlán | 18 | 15 | 55 | 97 | 8 | 55 | 1217 | 3 | 33 | -8 |
| Oyotzingo | 19 | 11 | 49 | 98 | 26 | 18 | 2322 | 4 | 4 | -7 |

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Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ /año |
|------------------------|---------|----|----|----------|----|----|----------|------------|----|---------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Cualtlaningo | 19 | 5 | 16 | 98 | 16 | 14 | 2118 | 4 | 0 | -7 |
| Chachapa | 19 | 2 | 47 | 98 | 5 | 35 | 2298 | 3 | 55 | -7 |
| Chiautla de Tapia | 18 | 17 | 28 | 98 | 35 | 55 | 1025 | 4 | 10 | -7 |
| Chila Asunción | 17 | 58 | 26 | 97 | 51 | 11 | 1676 | 3 | 53 | -8 |
| Cholula | 19 | 3 | 45 | 98 | 18 | 15 | 2150 | 4 | 1 | -7 |
| Huauchinango | 20 | 10 | 51 | 98 | 2 | 58 | 1472 | 3 | 51 | -8 |
| Huejotzingo | 19 | 9 | 29 | 98 | 24 | 22 | 2291 | 4 | 3 | -7 |
| Hueyotlipan | 19 | 5 | 6 | 98 | 12 | 32 | 2195 | 3 | 58 | -7 |
| Ixtaccihuatl | 19 | 11 | 11 | 98 | 38 | 38 | 5146 | 4 | 9 | -7 |
| Izúcar de Matamoros | 18 | 36 | 6 | 98 | 27 | 42 | 1326 | 4 | 6 | -7 |
| La Malinche | 19 | 13 | 48 | 98 | 1 | 47 | 4461 | 3 | 53 | -8 |
| Loreto | 19 | 3 | 24 | 98 | 11 | 5 | 2221 | 3 | 58 | -7 |
| Molcaxac | 18 | 44 | 9 | 97 | 54 | 8 | 1874 | 3 | 51 | -8 |
| Momoxpan | 19 | 4 | 13 | 98 | 15 | 54 | 2159 | 4 | 0 | -7 |
| Moyotzingo | 19 | 14 | 35 | 98 | 24 | 11 | 2271 | 4 | 3 | -7 |
| Nextetelco | 19 | 7 | 13 | 98 | 20 | 21 | 1500 | 4 | 1 | -7 |
| Nopalucan | 19 | 12 | 59 | 97 | 49 | 10 | 2490 | 3 | 48 | -8 |
| Ocotlan | 19 | 8 | 37 | 98 | 17 | 3 | 2243 | 4 | 0 | -7 |
| Ocoyucan | 18 | 58 | 30 | 98 | 17 | 58 | 2152 | 4 | 1 | -7 |
| Pantepec | 20 | 31 | 29 | 97 | 56 | 14 | 738 | 3 | 47 | -8 |
| Petlaltzingo | 18 | 4 | 59 | 97 | 55 | 12 | 1325 | 3 | 54 | -8 |
| Popocatepetl | 19 | 1 | 17 | 98 | 37 | 34 | 5452 | 4 | 9 | -7 |
| Puebla de Zaragoza | 19 | 2 | 30 | 98 | 11 | 48 | 2162 | 3 | 58 | -7 |
| Resurreccion | 19 | 6 | 4 | 98 | 7 | 36 | 2366 | 3 | 56 | -7 |
| San Andrés Chalchico | 18 | 59 | 10 | 97 | 26 | 52 | 2540 | 3 | 39 | -8 |
| San Antonio | 19 | 6 | 3 | 98 | 9 | 31 | 2296 | 3 | 57 | -7 |
| San Aparicio | 18 | 29 | 42 | 97 | 16 | 51 | 1771 | 3 | 36 | -8 |
| San Baltazar | 19 | 1 | 24 | 98 | 12 | 18 | 2142 | 3 | 58 | -7 |
| Sanctorum | 19 | 5 | 51 | 98 | 15 | 8 | 2000 | 3 | 59 | -7 |
| San Juan de Los Llanos | 19 | 27 | 54 | 97 | 41 | 3 | 2380 | 3 | 43 | -8 |
| San Martín Texmelucan | 19 | 16 | 59 | 98 | 25 | 59 | 2278 | 4 | 3 | -7 |
| San Salvador El Seco | 19 | 8 | 7 | 97 | 38 | 32 | 2450 | 3 | 43 | -8 |
| Santa María Chiamecatí | 18 | 38 | 47 | 98 | 4 | 46 | 2000 | 3 | 56 | -7 |
| Santa Rita Tlahuapan | 19 | 19 | 56 | 98 | 35 | 9 | 2291 | 4 | 7 | -7 |
| Santiago Xalitzintla | 19 | 4 | 36 | 98 | 30 | 53 | 2000 | 4 | 6 | -7 |
| Tecali | 18 | 53 | 58 | 97 | 57 | 59 | 2240 | 3 | 52 | -8 |
| Tecamachalco | 18 | 52 | 57 | 97 | 43 | 49 | 2055 | 3 | 46 | -8 |
| Tehuacán de Las Gran | 18 | 27 | 51 | 97 | 23 | 20 | 1676 | 3 | 39 | -8 |
| Temextatiloyan | 19 | 5 | 22 | 98 | 12 | 46 | 2183 | 3 | 58 | -7 |
| Tepeaca | 18 | 57 | 43 | 97 | 54 | 8 | 2257 | 3 | 51 | -8 |
| Tepeji Rodríguez | 18 | 34 | 47 | 97 | 55 | 45 | 1746 | 3 | 52 | -8 |
| Tetela de Ocampo | 19 | 49 | 15 | 97 | 48 | 10 | 1790 | 3 | 45 | -8 |
| Teziutlan | 19 | 49 | 30 | 97 | 21 | 17 | 1990 | 3 | 33 | -8 |
| Tlacotepec | 18 | 40 | 54 | 97 | 39 | 9 | 1977 | 3 | 45 | -8 |
| Tlaltenango | 19 | 10 | 10 | 98 | 20 | 36 | 2246 | 4 | 1 | -7 |
| Tlancualpican | 18 | 25 | 41 | 98 | 41 | 41 | 1100 | 4 | 12 | -7 |
| Tlaxcalanzingo | 19 | 1 | 44 | 98 | 16 | 24 | 2173 | 4 | 0 | -7 |
| Tonantzintla | 19 | 1 | 58 | 98 | 18 | 50 | 2147 | 4 | 1 | -7 |
| Xalmimilulco | 18 | 12 | 32 | 98 | 22 | 46 | 2248 | 4 | 5 | -7 |
| Xochimehuacan | 19 | 5 | 23 | 98 | 11 | 51 | 2200 | 3 | 58 | -7 |
| Xonacatepec | 19 | 5 | 12 | 98 | 6 | 8 | 2209 | 3 | 55 | -7 |
| Zacapoaxtla | 19 | 52 | 49 | 97 | 35 | 2 | 2045 | 3 | 39 | -8 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | Δδm /año |
|--------------------------|---------|----|----|----------|----|----|----------|----|-----|-------------|
| | ° | ′ | ″ | ° | ′ | ″ | | ° | ′ | |
| Zacatlán de Las Manzanas | 19 | 56 | 7 | 97 | 57 | 27 | 2059 | 3 | 49 | -8 |
| Zapotitlán | 18 | 19 | 56 | 97 | 28 | 23 | 2407 | 3 | 41 | -8 |
| Zautla | 19 | 43 | 6 | 97 | 40 | 21 | 2020 | 3 | 42 | -8 |
| Zinacatepec | 18 | 19 | 57 | 97 | 14 | 41 | 1139 | 3 | 36 | -8 |
| Querétaro | | | | | | | | | | |
| Amealco | 20 | 11 | 17 | 100 | 8 | 38 | 2075 | 4 | 44 | -7 |
| Arroyo Seco | 21 | 32 | 54 | 99 | 41 | 13 | 1008 | 4 | 31 | -7 |
| Boye | 20 | 40 | 58 | 99 | 44 | 47 | 1000 | 4 | 34 | -7 |
| Cadereyta | 20 | 41 | 41 | 99 | 48 | 58 | 2077 | 4 | 35 | -7 |
| Ezequiel Montes | 20 | 40 | 2 | 99 | 53 | 54 | 1000 | 4 | 38 | -7 |
| Huimilpan | 20 | 22 | 39 | 100 | 16 | 32 | 2307 | 4 | 47 | -7 |
| Jalpan | 21 | 13 | 8 | 99 | 28 | 16 | 860 | 4 | 26 | -7 |
| Querétaro | 20 | 35 | 36 | 100 | 23 | 11 | 1000 | 4 | 50 | -7 |
| San Juan del Río | 20 | 23 | 30 | 99 | 59 | 49 | 1978 | 4 | 40 | -7 |
| Tequisquiapan | 20 | 31 | 26 | 99 | 53 | 42 | 1717 | 4 | 38 | -7 |
| Toliman | 20 | 54 | 35 | 99 | 55 | 45 | 1535 | 4 | 38 | -7 |
| Quintana Roo | | | | | | | | | | |
| Ascensión | 19 | 46 | 31 | 87 | 28 | 0 | 0 | -1 | 40 | -8 |
| Cabo Catoche | 21 | 36 | 25 | 87 | 6 | 21 | 157 | -2 | 8 | -8 |
| Carrillo Puerto | 19 | 34 | 50 | 88 | 2 | 38 | 30 | -1 | 19 | -8 |
| Contoy | 21 | 31 | 45 | 86 | 48 | 12 | 0 | -2 | 18 | -8 |
| Cozumel | 20 | 31 | 20 | 86 | 57 | 12 | 0 | -2 | 5 | -8 |
| Chetumal | 18 | 29 | 39 | 88 | 17 | 56 | 0 | -1 | 1 | -8 |
| Filomeno Mata | 19 | 52 | 8 | 88 | 23 | 47 | 0 | -1 | 8 | -8 |
| Icaiche | 18 | 4 | 17 | 89 | 10 | 7 | 183 | 0 | -28 | -8 |
| Kantunil Kin | 21 | 6 | 14 | 87 | 29 | 12 | 20 | -1 | 50 | -8 |
| Leona Vicario | 20 | 59 | 23 | 87 | 12 | 22 | 0 | -1 | 59 | -8 |
| Polyuc | 19 | 36 | 50 | 88 | 33 | 58 | 0 | -1 | 1 | -8 |
| Put | 19 | 39 | 8 | 89 | 24 | 46 | 0 | 0 | -32 | -8 |
| Saban | 20 | 2 | 12 | 88 | 32 | 16 | 0 | -1 | 5 | -8 |
| Santa Cruz Chico | 18 | 56 | 3 | 88 | 9 | 44 | 0 | -1 | 9 | -8 |
| Tulum | 20 | 12 | 34 | 87 | 25 | 34 | 150 | -1 | 45 | -8 |
| Vigia Chico | 19 | 46 | 27 | 87 | 35 | 2 | 0 | -1 | 36 | -8 |
| Xkalak | 18 | 13 | 32 | 87 | 50 | 50 | 0 | -1 | 15 | -8 |
| Xkanha | 19 | 6 | 13 | 89 | 20 | 5 | 0 | 0 | -30 | -8 |
| San Luis Potosí | | | | | | | | | | |
| Ahualco | 22 | 23 | 56 | 101 | 9 | 58 | 1902 | 5 | 8 | -7 |
| Alaquines | 22 | 7 | 41 | 99 | 35 | 27 | 1300 | 4 | 28 | -7 |
| Arista | 22 | 38 | 46 | 100 | 51 | 2 | 1560 | 5 | 0 | -7 |
| Arriaga | 21 | 54 | 44 | 101 | 22 | 58 | 2660 | 5 | 13 | -7 |
| Cárdenas | 21 | 59 | 49 | 99 | 38 | 28 | 1201 | 4 | 30 | -7 |
| Catorce | 23 | 41 | 34 | 100 | 53 | 23 | 2756 | 5 | 2 | -7 |
| Cerritos | 22 | 25 | 55 | 100 | 16 | 51 | 1153 | 4 | 46 | -7 |
| Ciudad del Maíz | 22 | 24 | 8 | 99 | 36 | 9 | 1239 | 4 | 28 | -7 |
| Charcas | 23 | 7 | 47 | 101 | 6 | 37 | 2057 | 5 | 7 | -7 |
| Guadalcazar | 22 | 37 | 1 | 100 | 23 | 56 | 1673 | 4 | 49 | -7 |
| Matehuala | 23 | 38 | 41 | 100 | 38 | 26 | 1615 | 4 | 55 | -7 |
| Moctezuma | 22 | 45 | 7 | 101 | 5 | 0 | 1777 | 5 | 6 | -7 |
| Pastora | 22 | 8 | 2 | 100 | 3 | 25 | 920 | 4 | 40 | -7 |
| Ramos | 22 | 49 | 59 | 101 | 55 | 3 | 2210 | 5 | 27 | -7 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | $\Delta \delta m$ '/año |
|--------------------------|---------|----|----|----------|----|----|----------|------------|----|----------------------------|
| | ° | ' | " | ° | ' | " | | ° | ' | |
| Río Verde | 21 | 55 | 52 | 99 | 59 | 38 | 991 | 4 | 39 | -7 |
| Salinas de Puente Blanco | 22 | 37 | 44 | 101 | 43 | 0 | 2099 | 5 | 22 | -7 |
| San Luis Potosí | 22 | 9 | 10 | 100 | 58 | 38 | 1877 | 5 | 3 | -7 |
| Santa Catarina | 21 | 39 | 37 | 99 | 29 | 36 | 898 | 4 | 26 | -7 |
| Santa María del Río | 21 | 48 | 4 | 100 | 44 | 9 | 1703 | 4 | 57 | -7 |
| Santo Domingo | 23 | 19 | 35 | 101 | 44 | 6 | 1971 | 5 | 23 | -7 |
| Tamazunchale | 21 | 16 | 0 | 98 | 47 | 18 | 206 | 4 | 8 | -7 |
| Tamuín | 21 | 0 | 18 | 98 | 46 | 30 | 275 | 4 | 8 | -7 |
| Tancanhuitz | 21 | 36 | 11 | 98 | 57 | 57 | 241 | 4 | 12 | -7 |
| Valles | 21 | 59 | 4 | 99 | 0 | 58 | 95 | 4 | 13 | -7 |
| Vieja | 22 | 2 | 29 | 99 | 25 | 16 | 10 | 4 | 24 | -7 |
| Villa de Reyes | 21 | 48 | 19 | 100 | 56 | 0 | 1819 | 5 | 2 | -7 |
| Zaragozas José de | 22 | 2 | 8 | 100 | 43 | 53 | 1925 | 4 | 57 | -7 |
| Sinaloa | | | | | | | | | | |
| Altata | 24 | 38 | 0 | 107 | 55 | 53 | 2 | 7 | 41 | -6 |
| Badiraguato | 25 | 21 | 40 | 107 | 33 | 7 | 300 | 7 | 37 | -6 |
| Cosala | 24 | 24 | 38 | 106 | 41 | 44 | 300 | 7 | 16 | -6 |
| Culiacán | 24 | 48 | 36 | 107 | 23 | 57 | 84 | 7 | 31 | -6 |
| El Fuerte | 26 | 25 | 14 | 108 | 39 | 0 | 0 | 8 | 5 | -6 |
| La Laguna | 26 | 34 | 58 | 108 | 27 | 25 | 600 | 8 | 2 | -6 |
| Mazatlán | 23 | 11 | 55 | 106 | 25 | 20 | 3 | 7 | 5 | -6 |
| Mocorito | 25 | 29 | 0 | 107 | 55 | 13 | 838 | 7 | 45 | -6 |
| Navolato | 24 | 45 | 57 | 107 | 41 | 48 | 12 | 7 | 37 | -6 |
| Rosario | 22 | 59 | 29 | 105 | 51 | 13 | 32 | 6 | 53 | -6 |
| San Blas | 26 | 4 | 38 | 108 | 45 | 53 | 37 | 8 | 5 | -6 |
| San José de Gracia | 26 | 8 | 38 | 107 | 53 | 38 | 750 | 7 | 48 | -6 |
| Santa María | 25 | 33 | 56 | 109 | 10 | 26 | 46 | 8 | 9 | -6 |
| Sinaloa | 25 | 49 | 26 | 108 | 13 | 29 | 55 | 7 | 53 | -6 |
| Soyatita | 25 | 44 | 21 | 107 | 18 | 36 | 1200 | 7 | 34 | -6 |
| Topolobampo | 25 | 36 | 1 | 109 | 2 | 52 | 3 | 8 | 7 | -6 |
| Sonora | | | | | | | | | | |
| Agua Prieta | 31 | 19 | 42 | 109 | 33 | 44 | 1050 | 8 | 58 | -6 |
| Aguiabampo | 26 | 21 | 58 | 109 | 8 | 59 | 7 | 8 | 14 | -6 |
| Alamos | 27 | 1 | 16 | 108 | 56 | 2 | 410 | 8 | 14 | -6 |
| Altar | 30 | 42 | 46 | 111 | 44 | 12 | 0 | 9 | 35 | -5 |
| Antimonio | 30 | 44 | 34 | 112 | 36 | 49 | 61 | 9 | 50 | -5 |
| Arizpe | 30 | 20 | 9 | 110 | 10 | 22 | 870 | 9 | 2 | -6 |
| Bacanora | 28 | 59 | 2 | 109 | 23 | 21 | 446 | 8 | 37 | -6 |
| Bacerac | 30 | 21 | 41 | 108 | 49 | 25 | 937 | 8 | 35 | -6 |
| Baroyeca | 27 | 38 | 32 | 109 | 29 | 33 | 0 | 8 | 29 | -6 |
| Buenavista | 27 | 51 | 3 | 109 | 52 | 24 | 111 | 8 | 37 | -6 |
| Caborca | 30 | 41 | 50 | 112 | 9 | 29 | 305 | 9 | 42 | -5 |
| Cananea | 30 | 58 | 57 | 110 | 18 | 1 | 1489 | 9 | 10 | -6 |
| Carbo | 29 | 41 | 0 | 110 | 57 | 29 | 464 | 9 | 12 | -5 |
| Carbon | 29 | 41 | 0 | 110 | 57 | 29 | 464 | 9 | 12 | -5 |
| Cedros | 27 | 45 | 39 | 109 | 17 | 26 | 475 | 8 | 26 | -6 |
| Ciudad Obregón | 27 | 29 | 35 | 109 | 56 | 0 | 100 | 8 | 36 | -6 |
| Conicarit | 27 | 14 | 18 | 109 | 5 | 5 | 145 | 8 | 18 | -6 |
| Cucurpe | 30 | 19 | 51 | 110 | 42 | 18 | 803 | 9 | 13 | -6 |
| Guaymas | 27 | 55 | 28 | 110 | 53 | 31 | 0 | 8 | 56 | -5 |
| Hermosillo | 29 | 4 | 29 | 110 | 57 | 36 | 237 | 9 | 7 | -5 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | Δδm '/año |
|---------------------|---------|----|----|----------|----|----|----------|----|----|--------------|
| | ° | ' | “ | ° | ' | “ | | ° | ' | |
| Huatabampo | 26 | 49 | 36 | 109 | 38 | 46 | 20 | 8 | 26 | -6 |
| Imuris | 30 | 46 | 38 | 110 | 51 | 58 | 826 | 9 | 19 | -6 |
| Libertad | 29 | 54 | 12 | 112 | 45 | 7 | 0 | 9 | 45 | -5 |
| Macoyahui | 27 | 19 | 36 | 108 | 54 | 28 | 201 | 8 | 16 | -6 |
| Magdalena | 30 | 37 | 45 | 111 | 3 | 42 | 693 | 9 | 22 | -5 |
| Moctezuma | 29 | 48 | 10 | 109 | 41 | 41 | 677 | 8 | 49 | -6 |
| Minas Nuevas | 27 | 3 | 29 | 109 | 0 | 33 | 520 | 8 | 16 | -6 |
| Movas | 28 | 9 | 40 | 109 | 26 | 34 | 260 | 8 | 32 | -6 |
| Naco | 31 | 19 | 53 | 109 | 57 | 5 | 1340 | 9 | 6 | -6 |
| Nacori Grande | 29 | 3 | 37 | 110 | 2 | 44 | 634 | 8 | 50 | -6 |
| Nacozari | 30 | 22 | 25 | 109 | 41 | 28 | 1040 | 8 | 53 | -6 |
| Navjoa | 27 | 4 | 52 | 109 | 27 | 13 | 40 | 8 | 24 | -6 |
| Nogales | 31 | 19 | 49 | 110 | 56 | 42 | 1120 | 9 | 25 | -6 |
| Nabas | 28 | 27 | 40 | 109 | 31 | 35 | 170 | 8 | 35 | -6 |
| Puerto Libertad | 29 | 54 | 34 | 102 | 40 | 52 | 8 | 6 | 3 | -7 |
| Punta Peñasco | 31 | 18 | 9 | 113 | 32 | 57 | 61 | 10 | 11 | -5 |
| Quiriego | 27 | 31 | 11 | 109 | 15 | 7 | 251 | 8 | 23 | -6 |
| Rayon | 29 | 42 | 47 | 110 | 34 | 36 | 560 | 9 | 5 | -6 |
| Sahuaripa | 29 | 3 | 18 | 109 | 13 | 31 | 460 | 8 | 34 | -6 |
| San José de Pimas | 28 | 42 | 47 | 110 | 21 | 2 | 415 | 8 | 53 | -6 |
| Santa Ana | 30 | 32 | 38 | 111 | 7 | 26 | 687 | 9 | 22 | -5 |
| Santa Clara | 31 | 40 | 41 | 114 | 29 | 30 | 0 | 10 | 30 | -5 |
| Soyopa | 28 | 45 | 49 | 109 | 38 | 7 | 272 | 8 | 40 | -6 |
| Suaqui Grande | 28 | 23 | 44 | 109 | 53 | 30 | 272 | 8 | 42 | -6 |
| Tiburón | 28 | 45 | 55 | 112 | 41 | 56 | 0 | 9 | 34 | -5 |
| Torin | 27 | 34 | 30 | 110 | 13 | 19 | 64 | 8 | 42 | -6 |
| Tubutama | 30 | 53 | 4 | 111 | 28 | 16 | 682 | 9 | 32 | -5 |
| Ures | 29 | 25 | 45 | 110 | 23 | 29 | 432 | 8 | 59 | -6 |
| Yabaros | 26 | 42 | 12 | 109 | 30 | 45 | 2 | 8 | 23 | -6 |
| Tabasco | | | | | | | | | | |
| Alvaro Obregón | 18 | 13 | 19 | 92 | 40 | 4 | 33 | 1 | 25 | -8 |
| Astapa | 17 | 46 | 42 | 92 | 59 | 18 | 134 | 1 | 37 | -8 |
| Cardenas | 18 | 0 | 42 | 93 | 22 | 10 | 4 | 1 | 47 | -8 |
| Comalcalco | 18 | 15 | 54 | 93 | 13 | 7 | 5 | 1 | 41 | -8 |
| Francisco I Madero | 18 | 25 | 18 | 92 | 44 | 28 | 72 | 1 | 26 | -8 |
| Huimanquillo | 17 | 52 | 10 | 93 | 27 | 31 | 193 | 1 | 51 | -8 |
| Ignacio Allende | 18 | 23 | 10 | 92 | 50 | 51 | 32 | 1 | 29 | -8 |
| Tacotalpa | 17 | 35 | 47 | 92 | 49 | 26 | 60 | 1 | 33 | -8 |
| Tapijulapa | 17 | 27 | 52 | 92 | 46 | 50 | 0 | 1 | 33 | -8 |
| Teapa | 17 | 33 | 14 | 92 | 57 | 12 | 50 | 1 | 38 | -8 |
| Tenosique | 17 | 28 | 45 | 91 | 25 | 33 | 60 | 0 | 51 | -8 |
| Tierra Colorada | 17 | 57 | 22 | 92 | 37 | 46 | 144 | 1 | 25 | -8 |
| Villahermosa | 17 | 59 | 15 | 92 | 55 | 0 | 10 | 1 | 34 | -8 |
| Xicotencatl | 17 | 30 | 35 | 92 | 40 | 52 | 206 | 1 | 30 | -8 |
| Tamaulipas | | | | | | | | | | |
| Abasolo | 24 | 4 | 0 | 98 | 22 | 38 | 61 | 3 | 53 | -7 |
| Aldama Presas | 22 | 55 | 6 | 98 | 4 | 12 | 98 | 3 | 46 | -7 |
| Altamira | 22 | 23 | 40 | 97 | 55 | 47 | 26 | 3 | 43 | -7 |
| Antiguo Morelos | 22 | 33 | 3 | 99 | 5 | 9 | 178 | 4 | 15 | -7 |
| Burgos | 24 | 57 | 1 | 98 | 46 | 57 | 193 | 4 | 4 | -7 |
| Camargo | 26 | 19 | 1 | 98 | 49 | 55 | 68 | 4 | 6 | -7 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | Δδm '/año |
|------------------------|---------|----|----|----------|----|----|----------|----|----|--------------|
| | ° | ' | “ | ° | ' | “ | | ° | ' | |
| Casas | 23 | 43 | 44 | 98 | 44 | 27 | 120 | 4 | 4 | -7 |
| Ciudad Victoria | 23 | 44 | 6 | 99 | 7 | 51 | 321 | 4 | 15 | -7 |
| Cruillas | 24 | 45 | 32 | 98 | 30 | 59 | 265 | 3 | 57 | -7 |
| Guemes | 23 | 55 | 18 | 99 | 0 | 28 | 220 | 4 | 11 | -7 |
| Guerrero | 26 | 46 | 45 | 99 | 20 | 22 | 34 | 4 | 21 | -7 |
| Jaumave | 23 | 24 | 30 | 99 | 22 | 28 | 735 | 4 | 22 | -7 |
| Jiménez | 24 | 12 | 56 | 99 | 28 | 44 | 101 | 4 | 24 | -7 |
| Llera | 23 | 19 | 11 | 99 | 1 | 15 | 290 | 4 | 12 | -7 |
| Magiscatzin | 22 | 48 | 29 | 98 | 42 | 1 | 56 | 4 | 4 | -7 |
| Matamoros | 25 | 52 | 45 | 97 | 31 | 9 | 12 | 3 | 26 | -7 |
| Méndez | 25 | 7 | 11 | 98 | 34 | 12 | 128 | 3 | 58 | -7 |
| Mier | 26 | 25 | 57 | 99 | 8 | 41 | 80 | 4 | 15 | -7 |
| Miquihuana | 23 | 34 | 15 | 99 | 46 | 32 | 1892 | 4 | 32 | -7 |
| Ocampo | 20 | 50 | 32 | 99 | 20 | 14 | 348 | 4 | 23 | -7 |
| Padilla | 24 | 0 | 39 | 98 | 46 | 27 | 153 | 4 | 5 | -7 |
| Reynosa | 26 | 5 | 50 | 98 | 16 | 42 | 38 | 3 | 49 | -7 |
| San Carlos | 24 | 34 | 50 | 98 | 56 | 26 | 432 | 4 | 9 | -7 |
| San Fernando | 24 | 50 | 56 | 98 | 9 | 30 | 55 | 3 | 46 | -7 |
| Tampico | 22 | 13 | 0 | 97 | 51 | 19 | 12 | 3 | 41 | -8 |
| Tula | 22 | 59 | 50 | 99 | 42 | 55 | 1173 | 4 | 31 | -7 |
| Villagrán | 24 | 28 | 33 | 99 | 20 | 21 | 363 | 4 | 20 | -7 |
| Xicotencatl | 22 | 59 | 48 | 98 | 56 | 35 | 131 | 4 | 10 | -7 |
| Tlaxcala | | | | | | | | | | |
| Apizaco | 19 | 24 | 59 | 98 | 8 | 27 | 2408 | 3 | 55 | -7 |
| Calpulalpam | 19 | 35 | 37 | 98 | 34 | 18 | 2578 | 4 | 6 | -7 |
| Cuauila | 19 | 36 | 10 | 98 | 38 | 44 | 2703 | 4 | 8 | -7 |
| Cuahutotohuatlan | 19 | 7 | 7 | 98 | 10 | 9 | 2308 | 3 | 57 | -7 |
| Huamantla | 19 | 18 | 53 | 97 | 55 | 39 | 2553 | 3 | 50 | -8 |
| Tenancingo | 19 | 8 | 47 | 98 | 11 | 57 | 2281 | 3 | 58 | -7 |
| Tlaxcala | 19 | 19 | 4 | 98 | 14 | 9 | 2252 | 3 | 58 | -7 |
| San Aparicio | 19 | 6 | 0 | 98 | 9 | 30 | 2293 | 3 | 57 | -7 |
| San Juan de Los Llanos | 19 | 27 | 54 | 97 | 41 | 0 | 2448 | 3 | 43 | -8 |
| San Martín Tezmelucan | 19 | 16 | 59 | 98 | 25 | 59 | 2278 | 4 | 3 | -7 |
| Veracruz | | | | | | | | | | |
| Acayucan | 17 | 56 | 42 | 95 | 54 | 43 | 88 | 3 | 1 | -8 |
| Acayucan | 17 | 56 | 34 | 94 | 54 | 13 | 88 | 2 | 33 | -8 |
| Acayucan | 17 | 56 | 42 | 94 | 54 | 48 | 158 | 2 | 33 | -8 |
| Actopan | 19 | 30 | 11 | 96 | 36 | 45 | 311 | 3 | 14 | -8 |
| Alvarado | 18 | 46 | 14 | 95 | 45 | 56 | 9 | 2 | 53 | -8 |
| Ciudad Azueta | 18 | 4 | 43 | 95 | 42 | 18 | 0 | 2 | 55 | -8 |
| Coatepec | 19 | 27 | 8 | 96 | 57 | 1 | 1252 | 3 | 24 | -8 |
| Coatzacoalcos | 18 | 8 | 56 | 94 | 24 | 40 | 2 | 2 | 18 | -8 |
| Coatzintla | 20 | 29 | 6 | 97 | 26 | 12 | 144 | 3 | 34 | -8 |
| Córdoba | 18 | 53 | 34 | 96 | 55 | 52 | 924 | 3 | 25 | -8 |
| Cosamaloapan | 18 | 21 | 46 | 95 | 48 | 32 | 96 | 2 | 57 | -8 |
| Coscomatepec | 19 | 4 | 23 | 97 | 2 | 5 | 1588 | 3 | 27 | -8 |
| Cuatotolopan | 18 | 7 | 16 | 95 | 18 | 7 | 23 | 2 | 43 | -8 |
| Cuichapa | 18 | 46 | 28 | 96 | 52 | 8 | 642 | 3 | 24 | -8 |
| Chiconamel | 21 | 14 | 0 | 98 | 27 | 36 | 158 | 4 | 0 | -7 |
| Chicontepec | 20 | 58 | 31 | 98 | 9 | 54 | 595 | 3 | 52 | -7 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

| ESTADO Población | latitud | | | longitud | | | alt m | δm | | Δδm '/año |
|----------------------|---------|----|----|----------|----|----|----------|----|----|--------------|
| | ° | ' | “ | ° | ' | “ | | ° | ' | |
| General Alemán | 18 | 11 | 32 | 96 | 5 | 44 | 18 | 3 | 5 | -8 |
| Hidalgotitlán | 17 | 46 | 20 | 94 | 38 | 47 | 77 | 2 | 27 | -8 |
| Huatusco | 19 | 9 | 1 | 96 | 57 | 9 | 1344 | 3 | 25 | -8 |
| Huayacocotla | 20 | 32 | 27 | 98 | 28 | 38 | 2100 | 4 | 1 | -7 |
| Inalámbrica | 19 | 10 | 50 | 96 | 7 | 36 | 0 | 3 | 2 | -8 |
| Ixcatepec | 21 | 14 | 23 | 98 | 0 | 14 | 295 | 3 | 47 | -8 |
| Ixhuatlán | 20 | 41 | 30 | 98 | 0 | 35 | 306 | 3 | 49 | -8 |
| Jalapa | 19 | 31 | 35 | 96 | 54 | 51 | 1427 | 3 | 22 | -8 |
| Lobos | 21 | 28 | 0 | 97 | 13 | 3 | 0 | 3 | 25 | -8 |
| Martínez de La Torre | 20 | 3 | 58 | 97 | 2 | 36 | 151 | 3 | 24 | -8 |
| Minatitlán | 17 | 58 | 47 | 94 | 32 | 27 | 64 | 2 | 22 | -8 |
| Misantla | 19 | 56 | 2 | 96 | 50 | 24 | 410 | 3 | 19 | -8 |
| Mocayapan | 18 | 12 | 49 | 94 | 50 | 17 | 340 | 2 | 30 | -8 |
| Naolingó | 19 | 39 | 15 | 96 | 51 | 51 | 1605 | 3 | 21 | -8 |
| Nautla | 20 | 12 | 43 | 95 | 45 | 38 | 4 | 2 | 47 | -8 |
| Orizaba | 18 | 50 | 58 | 97 | 5 | 47 | 1284 | 3 | 30 | -8 |
| Ozuluama | 21 | 39 | 46 | 97 | 51 | 0 | 229 | 3 | 42 | -8 |
| Pantepec | 20 | 31 | 29 | 97 | 56 | 14 | 738 | 3 | 47 | -8 |
| Papantla | 20 | 26 | 53 | 97 | 19 | 7 | 298 | 3 | 31 | -8 |
| Perote | 19 | 33 | 52 | 97 | 14 | 24 | 2465 | 3 | 31 | -8 |
| Pico Orizaba | 19 | 2 | 0 | 97 | 15 | 42 | 5700 | 3 | 33 | -8 |
| Pl Vicente | 17 | 50 | 5 | 95 | 48 | 35 | 95 | 2 | 59 | -8 |
| Rizo | 19 | 3 | 17 | 95 | 55 | 8 | 0 | 2 | 57 | -8 |
| Rodríguez Clara | 17 | 59 | 28 | 95 | 24 | 9 | 148 | 2 | 47 | -8 |
| Sacrificios | 19 | 10 | 26 | 96 | 5 | 27 | 0 | 3 | 1 | -8 |
| San Andrés Tuxtla | 18 | 26 | 42 | 95 | 11 | 53 | 361 | 2 | 39 | -8 |
| San Andrés Tuxtla | 18 | 26 | 40 | 95 | 13 | 1 | 323 | 2 | 39 | -8 |
| San Carlos | 19 | 24 | 17 | 96 | 21 | 25 | 136 | 3 | 7 | -8 |
| San Juan de Ulua | 19 | 12 | 26 | 96 | 7 | 46 | 0 | 3 | 2 | -8 |
| San Juan Evangelista | 17 | 52 | 59 | 95 | 8 | 12 | 88 | 2 | 40 | -8 |
| San Martín | 18 | 33 | 48 | 95 | 10 | 48 | 1738 | 2 | 38 | -8 |
| Santiagouillo | 19 | 8 | 29 | 95 | 48 | 23 | 0 | 2 | 53 | -8 |
| Tamarindo | 18 | 45 | 23 | 96 | 22 | 49 | 80 | 3 | 11 | -8 |
| Tamiahua | 21 | 16 | 26 | 97 | 26 | 29 | 4 | 3 | 32 | -8 |
| Tantoyucan | 21 | 21 | 7 | 98 | 13 | 31 | 217 | 3 | 53 | -7 |
| Tehuipango | 18 | 31 | 14 | 97 | 3 | 31 | 2382 | 3 | 30 | -8 |
| Teocelo de Díaz | 19 | 23 | 8 | 96 | 57 | 47 | 1218 | 3 | 24 | -8 |
| Tepetzintla | 21 | 10 | 43 | 96 | 49 | 48 | 351 | 3 | 15 | -8 |
| Tesechoacan | 18 | 8 | 12 | 95 | 39 | 47 | 0 | 2 | 54 | -8 |
| Tierra Blanca | 18 | 27 | 3 | 96 | 21 | 28 | 60 | 3 | 11 | -8 |
| Tihuatlan | 20 | 43 | 26 | 97 | 32 | 23 | 222 | 3 | 36 | -8 |
| Tlacojalpan | 18 | 13 | 57 | 95 | 57 | 13 | 91 | 3 | 1 | -8 |
| Tlacotalpan | 18 | 36 | 40 | 95 | 39 | 54 | 320 | 2 | 51 | -8 |
| Tlaliscoyan | 18 | 48 | 7 | 96 | 3 | 26 | 84 | 3 | 2 | -8 |
| Tlapacoyan | 19 | 58 | 13 | 97 | 12 | 35 | 504 | 3 | 29 | -8 |
| Tonayan | 19 | 40 | 54 | 96 | 54 | 45 | 0 | 3 | 22 | -8 |
| Tuxpan | 20 | 57 | 18 | 97 | 23 | 59 | 14 | 3 | 31 | -8 |
| Veracruz | 19 | 12 | 2 | 96 | 8 | 13 | 14 | 3 | 2 | -8 |
| Verde | 19 | 11 | 50 | 96 | 3 | 59 | 0 | 3 | 0 | -8 |
| Xico | 19 | 25 | 17 | 97 | 0 | 11 | 0 | 3 | 25 | -8 |
| Zongolica | 18 | 40 | 10 | 96 | 59 | 26 | 1294 | 3 | 28 | -8 |

Poblaciones de la República Mexicana, 2020

Coordenadas geográficas (Anuario del Observatorio 1984)

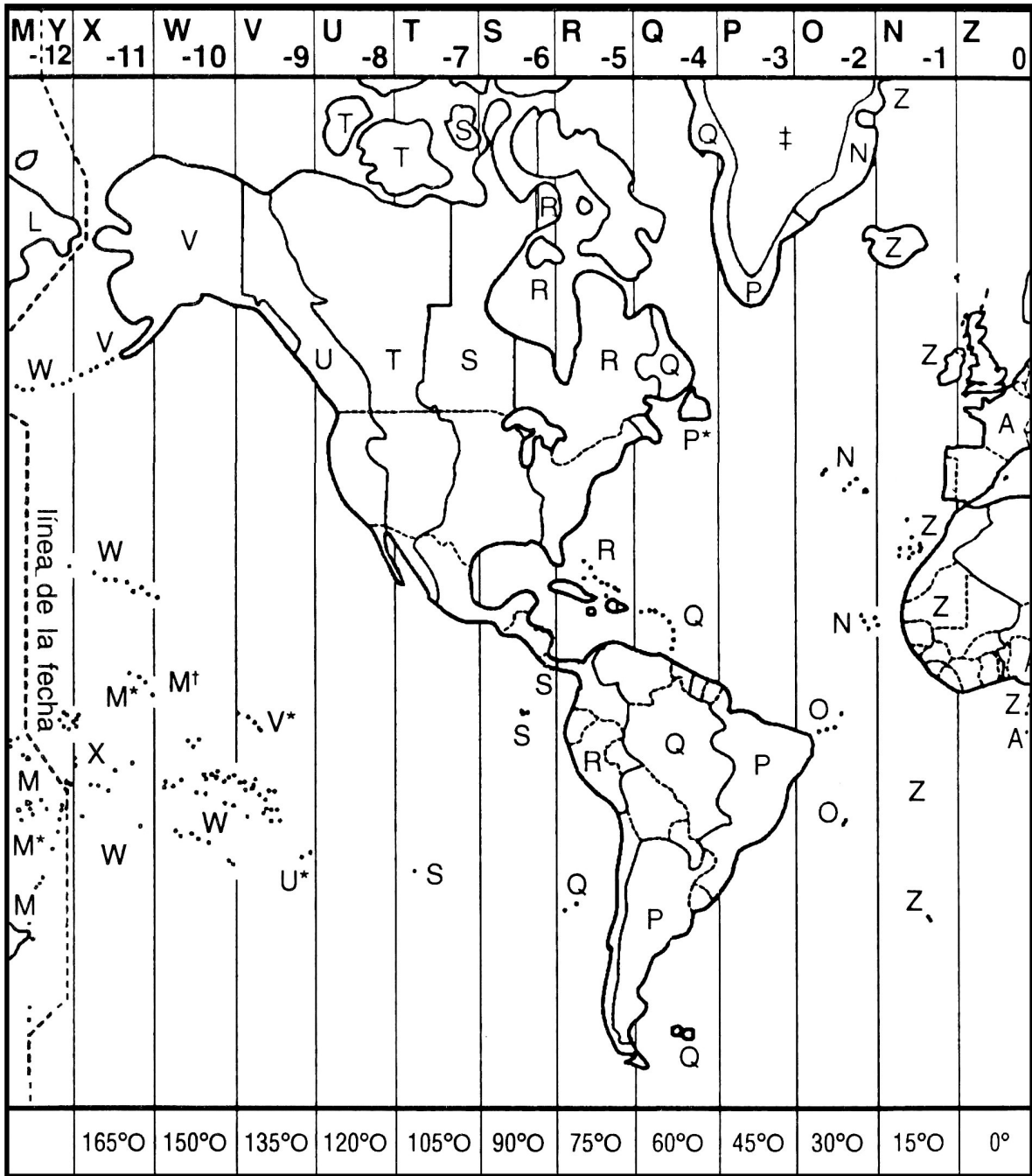
| ESTADO Población | latitud | | | longitud | | | alt | δm | | Δδm |
|--------------------------|---------|----|----|----------|----|----|------|----|-----|-------|
| | ° | ' | " | ° | ' | " | m | ° | ' | '/año |
| Yucatán | | | | | | | | | | |
| Becanchen | 19 | 52 | 32 | 89 | 13 | 3 | 0 | 0 | -40 | -8 |
| Celestum | 20 | 51 | 36 | 90 | 24 | 5 | 3 | 0 | -6 | -8 |
| Cuyo | 21 | 31 | 9 | 87 | 40 | 48 | 8 | -1 | 46 | -8 |
| Chancernote | 20 | 59 | 36 | 87 | 46 | 56 | 0 | -1 | 39 | -8 |
| Chavihau | 21 | 21 | 28 | 89 | 7 | 7 | 0 | 0 | -54 | -8 |
| Espita | 21 | 0 | 36 | 88 | 18 | 27 | 22 | -1 | 20 | -8 |
| Halacho | 20 | 28 | 44 | 90 | 4 | 51 | 6 | 0 | -15 | -8 |
| Huhi | 20 | 43 | 42 | 89 | 10 | 0 | 15 | 0 | -48 | -8 |
| Izamal | 20 | 56 | 16 | 88 | 57 | 14 | 14 | 0 | -57 | -8 |
| Maxcanu | 20 | 35 | 11 | 89 | 59 | 55 | 8 | 0 | -18 | -8 |
| Merida | 20 | 59 | 0 | 89 | 38 | 43 | 9 | 0 | -33 | -8 |
| Molas | 20 | 49 | 0 | 89 | 37 | 48 | 10 | 0 | -32 | -8 |
| Progreso | 21 | 18 | 0 | 89 | 39 | 30 | 8 | 0 | -35 | -8 |
| San Felipe | 21 | 34 | 8 | 88 | 13 | 58 | 0 | -1 | 27 | -8 |
| Sisal | 21 | 9 | 59 | 90 | 1 | 55 | 0 | 0 | -21 | -8 |
| Tekax | 20 | 12 | 18 | 98 | 17 | 20 | 35 | 3 | 57 | -7 |
| Telchac | 21 | 20 | 35 | 89 | 15 | 50 | 10 | 0 | -49 | -8 |
| Tzimin | 21 | 8 | 1 | 88 | 9 | 6 | 17 | -1 | 27 | -8 |
| Valladolid | 20 | 41 | 24 | 88 | 12 | 23 | 20 | -1 | 21 | -8 |
| Yalkubul | 21 | 31 | 26 | 88 | 36 | 55 | 0 | -1 | 13 | -8 |
| Zacatecas | | | | | | | | | | |
| Calera | 22 | 57 | 2 | 102 | 42 | 10 | 2236 | 5 | 45 | -7 |
| Concepción del Oro | 24 | 36 | 54 | 101 | 25 | 43 | 2070 | 5 | 16 | -7 |
| Chalchihuites | 23 | 28 | 42 | 103 | 53 | 15 | 2321 | 6 | 13 | -7 |
| Fresnillo | 23 | 10 | 35 | 102 | 52 | 39 | 2250 | 5 | 50 | -7 |
| Guadalupe | 22 | 45 | 30 | 102 | 31 | 9 | 2265 | 5 | 41 | -7 |
| Jeréz | 22 | 38 | 51 | 102 | 59 | 48 | 2027 | 5 | 52 | -7 |
| Juchipila | 21 | 24 | 46 | 103 | 7 | 29 | 1350 | 5 | 53 | -7 |
| Nieves | 23 | 59 | 41 | 103 | 1 | 12 | 2017 | 5 | 55 | -7 |
| Nochistlán | 21 | 21 | 47 | 102 | 50 | 55 | 1930 | 5 | 47 | -7 |
| Observatorio Astronómico | 22 | 43 | 56 | 102 | 32 | 26 | 2717 | 5 | 41 | -7 |
| Observatorio Astronómico | 22 | 46 | 1 | 102 | 32 | 56 | 2425 | 5 | 41 | -7 |
| Ojo Caliente | 22 | 34 | 44 | 102 | 15 | 20 | 2114 | 5 | 34 | -7 |
| Ojuelos | 21 | 52 | 5 | 101 | 35 | 20 | 2000 | 5 | 18 | -7 |
| Panuco | 22 | 52 | 45 | 102 | 32 | 30 | 2321 | 5 | 41 | -7 |
| Pinos | 22 | 17 | 54 | 101 | 34 | 23 | 2419 | 5 | 18 | -7 |
| Río Grande | 23 | 49 | 40 | 103 | 2 | 17 | 2000 | 5 | 55 | -7 |
| San Juan del Mezquital | 24 | 17 | 28 | 103 | 23 | 47 | 2000 | 6 | 4 | -7 |
| Sombrerete | 23 | 37 | 53 | 103 | 38 | 30 | 2351 | 6 | 8 | -7 |
| Tlatenango | 21 | 47 | 0 | 103 | 18 | 44 | 1724 | 5 | 57 | -7 |
| Valparaiso | 22 | 46 | 13 | 103 | 34 | 5 | 2140 | 6 | 5 | -7 |
| Villa de Cos | 23 | 17 | 40 | 102 | 20 | 55 | 2050 | 5 | 37 | -7 |
| Villanueva | 22 | 21 | 16 | 102 | 53 | 13 | 1955 | 5 | 49 | -7 |
| Zacateca | 22 | 46 | 30 | 102 | 34 | 45 | 2496 | 5 | 42 | -7 |

Zonas horarias

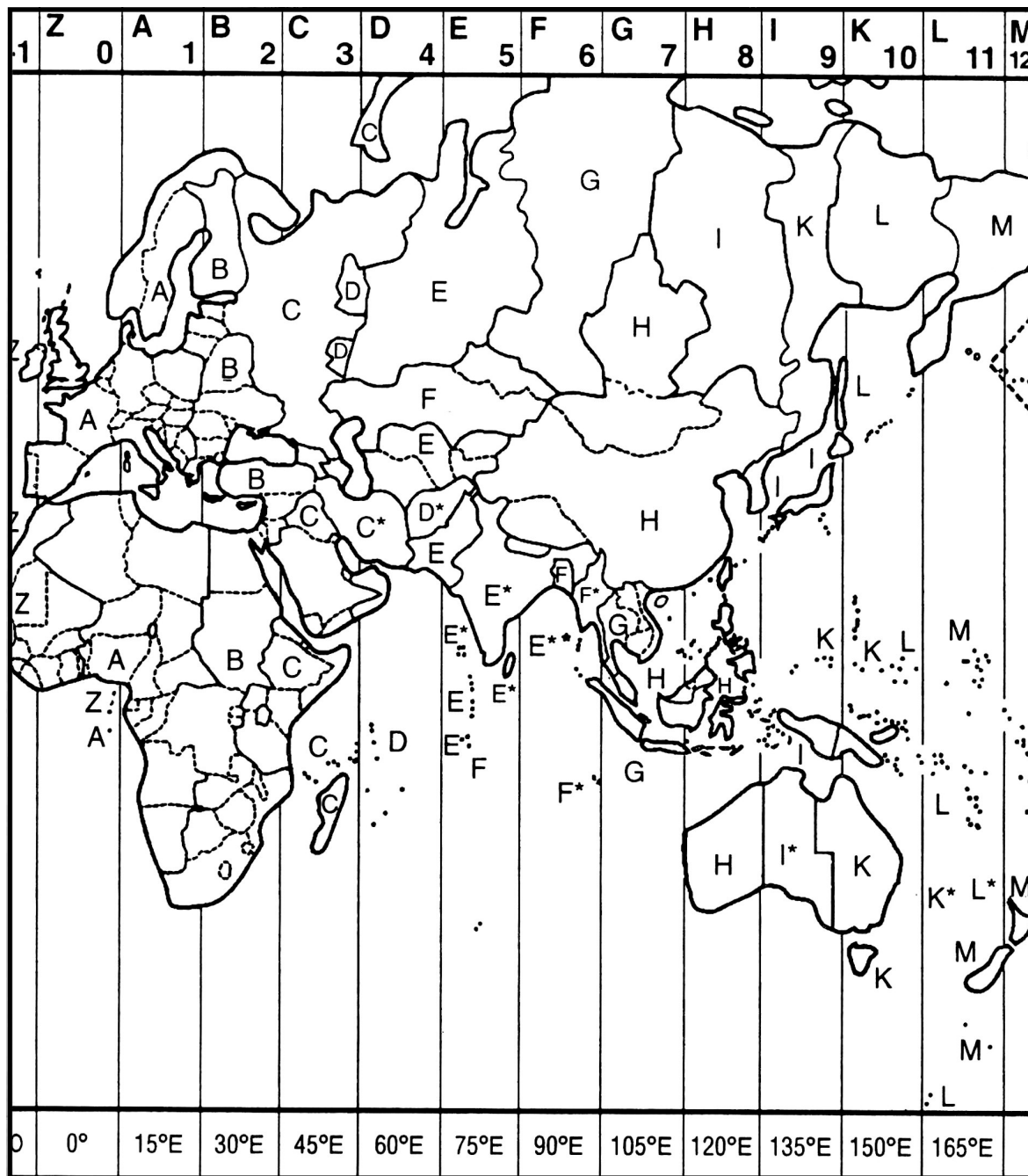
Las zonas horarias dividen a la Tierra en 24 franjas de 15° de anchura; las letras representan el código de uso con los que se corrige la hora del Meridiano de Greenwich. Además de señalarse en el encabezado del mapa, en la tabla se indica el número de horas que deberán sumarse, algebraicamente, a la hora del Meridiano de Greenwich. El mapa se tomó del Standard Time Zones, del Astronomical Phenomena, 1998.

| ° ' zona h m | ° ' zona h m | ° ' zona h m | ° ' zona h m |
|------------------|--------------------|--------------------|-------------------|
| 00 Z 0 | +90 F + 6 | +180 M + 12 | |
| +15 A + 1 | +97 30 F* + 6 30 | +187 30 M* + 12 30 | -105 T - 7 |
| +30 B + 2 | +105 G + 7 | -15 N - 1 | -120 U - 8 |
| +45 C + 3 | +120 H + 8 | -30 O - 2 | -127 30 U* - 8 30 |
| +52 30 C* + 3 30 | +135 I + 9 | -45 P - 3 | -135 V - 9 |
| +60 D + 4 | +142 30 I* + 9 30 | -52 30 P* - 3 30 | -142 30 V* - 9 30 |
| +67 30 D* + 4 30 | +150 K + 10 | -60 Q - 4 | -150 W - 10 |
| +75 E + 5 | +157 30 K* + 10 30 | -75 R - 5 | -165 X - 11 |
| +82 30 E* + 5 30 | +165 L + 11 | -90 S - 6 | -180 Y - 12 |

Mapa de zonas horarias



Mapa de zonas horarias



Hora Legal en los Estados Unidos Mexicanos

Sistema de cuatro husos horarios en los Estados Unidos Mexicanos
(*Diario Oficial de la Federación: 31-01-2015*)

Artículo 1. La presente Ley es de aplicación general y regirá en todo el territorio de los Estados Unidos Mexicanos, sus disposiciones son de orden público e interés general, su aplicación y vigilancia estará a cargo del Ejecutivo Federal por conducto de las dependencias que conforme a la Ley Orgánica de la Administración Pública Federal tengan asignada competencia sobre la materia que regula el presente ordenamiento.

Artículo 2. Se reconoce para los Estados Unidos Mexicanos la aplicación y vigencia de los husos horarios 75 grados, 90 grados, 105 grados y 120 grados al oeste del meridiano de Greenwich y los horarios que les corresponden conforme a su ubicación, aceptando los acuerdos tomados en la Conferencia Internacional de Meridianos de 1884, que establece el meridiano cero (*Artículo reformado Diario Oficial de la Federación 31-01-2015*).

Artículo 3. Para el efecto de la aplicación de esta Ley, se establecen dentro del territorio nacional las siguientes zonas horarias y se reconocen los meridianos que les correspondan:

I. Zona Centro: Referida al meridiano 90 grados al oeste de Greenwich y que comprende la mayor parte del territorio nacional, con la salvedad de lo establecido en los numerales II, III, IV y V de este mismo artículo (*Fracción reformada Diario Oficial de la Federación 31-01-2015*).

II. Zona Pacífico: Referida al meridiano 105 oeste y que comprende los territorios de los estados de Baja California Sur; Chihuahua; Nayarit, con excepción del municipio de Bahía de Banderas, el cual se regirá conforme a la fracción anterior en lo relativo a la Zona Centro; Sinaloa y Sonora (*Fracción reformada Diario Oficial de la Federación 06-01-2010*).

III. Zona Noroeste: Referida al meridiano 120 oeste y que comprende el territorio del Estado de

Baja California (*Fracción reformada Diario Oficial de la Federación 31-01-2015*).

IV. Zona Sureste: Referida al meridiano 75 oeste y que comprende el territorio del Estado de Quintana Roo (*Fracción adicionada Diario Oficial de la Federación 31-01-2015*).

V. Las islas, arrecifes y cayos quedarán comprendidos dentro del meridiano al cual corresponda su situación geográfica y de acuerdo a los instrumentos de derecho internacional aceptados (*Fracción recorrida Diario Oficial de la Federación 31-01-2015*).

Artículo 4. El sistema normal de medición del tiempo en la República, que se establece con la aplicación de los husos horarios y su correspondiente hora en los artículos que anteceden, podrá ser modificado mediante decreto del Honorable Congreso de la Unión que establezca horarios estacionales.

Artículo 5. Cualquier propuesta de establecimiento o modificación de horarios estacionales deberá ser presentada al Honorable Congreso de la Unión, a más tardar el 15 de noviembre del año inmediato anterior al que se pretende modificar el horario. El decreto respectivo deberá ser emitido a más tardar el 15 de diciembre del mismo año.

Artículo 6. En el caso del establecimiento de horarios estacionales, el Ejecutivo Federal en coordinación con los Ejecutivos Estatales y del Distrito Federal, difundirán, con la anticipación debida, el Decreto por medio del cual se establece dicho horario, para el conocimiento de la población.

Artículo 7. Las dependencias de los ejecutivos federal, y estatales y del Distrito Federal, en el ámbito de sus respectivas competencias, tomarán las medidas necesarias a efecto de implementar de forma eficiente los horarios estacionales decretados.

Centros astronómicos en la República Mexicana

| Centro Astronómico | latitud ° ' " | longitud ° ' " | altura s.n.m.m. | ubicación |
|--|------------------|-------------------|--------------------|-------------------------------|
| Universidad Nacional Autónoma de México Instituto de Astronomía | | | | |
| BAJA CALIFORNIA | | | | |
| San Pedro Mártir | 31 02 39 | 115 27 49 | 2800 | Telescopio 2.12 m |
| | 31 02 43 | 115 28 00 | 2790 | Telescopio 1.50 m |
| PUEBLA | | | | |
| Tonantzintla | 19 01 58 | 98 18 50 | 2147 | Telescopio 1 m |
| Centro de Radioastronomía y Astrofísica, UNAM. | | | | |
| MICHOACÁN | | | | |
| Morelia | 19 42 16 | 101 11 30 | 1941 | |
| Instituto Nacional de Astrofísica, Óptica y Electrónica, SEP. | | | | |
| PUEBLA | | | | |
| Tonantzintla | 19 01 58 | 98 18 50 | 2147 | |
| SONORA | | | | |
| Observatorio Cananea Guillermo Haro | 31 03 10 | 110 18 19 | 2480 | Telescopio 2.1 m |
| Departamento de Astronomía, Universidad de Guanajuato | | | | |
| GUANAJUATO | | | | |
| Guanajuato | 21 03 10 | 101 19 28 | 2425 | Mineral de la Luz |
| Universidad Autónoma de Zacatecas | | | | |
| ZACATECAS | | | | |
| Observatorio astronómico | 22 43 56 | 102 32 26 | 2425 | Cd. Universitaria |
| Observatorio astronómico | 22 46 01 | 102 32 56 | 2714 | Cerro de la Virgen |
| Sociedad Astronómica de México | | | | |
| CIUDAD DE MÉXICO | | | | |
| Observatorio Luis G. León | 19 23 56 | 99 8 29 | 2246 | Col. Álamos, Cd. de México |
| ESTADO DE MÉXICO | | | | |
| Observatorio Chapa de Mota | 19 47 24 | 99 31 23 | 3070 | Municipio de Chapa de Mota |
| Universidad Autónoma de Sinaloa | | | | |
| SINALOA | | | | |
| Observatorio Cosala | 24 24 5 | 106 36 36 | 595 | Municipio de Cosala |
| Instituto de Geofísica | | | | |
| MEXART*: | 19 48 39 | 101 41 39 | | Michoacán |
| Observatorio de centelleo interplanetario | | | | Coeneo |
| * Mexican Array Radiotelescope | | | | |

Refracción

Presentamos un método gráfico para determinar la refracción atmosférica en función de la distancia cenital, temperatura o presión. Las gráficas se obtuvieron mediante interpolación polinomial de quinto, sexto, séptimo y noveno orden, de los valores tabulados y publicados por el Observatorio Pulkovo, en el Anuario Astronómico de la URSS, y por Pulkova, 1956, cuarta edición (Academia de Ciencias de la URSS, Moscú, Leningrado); y Abalakin, 1985, quinta edición (Observatorio Astronómico Central, Academia de Ciencias de la URSS, Leningrado).

De la gráfica de corrección por distancia cenital obtenemos la refracción media r dada en minutos de arco, en función de la distancia cenital dada en grados. Ésta se obtiene de la regresión polinomial de noveno orden, dada por la ecuación

$$r = a + b_1 z + b_2 z^2 + b_3 z^3 + b_4 z^4 + b_5 z^5 + b_6 z^6 + b_7 z^7 + b_8 z^8 + b_9 z^9,$$

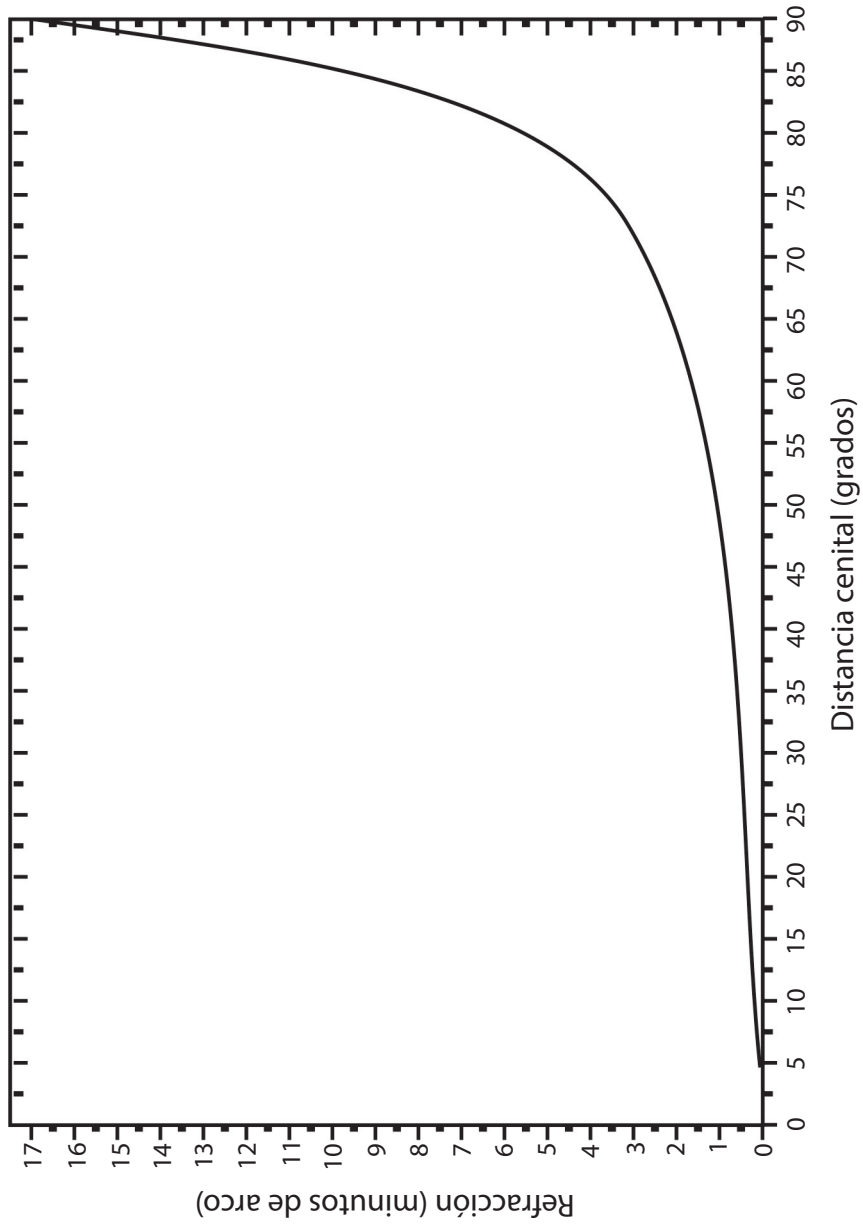
donde r está dada en minutos de arco, y sus coeficientes son:

| | | | |
|-------|--------------------------|-------|---------------------------|
| a | $-7.64878 \cdot 10^{-4}$ | b_5 | $1.22379 \cdot 10^{-6}$ |
| b_1 | 0.02752 | b_6 | $-2.70552 \cdot 10^{-8}$ |
| b_2 | -0.00384 | b_7 | $3.52568 \cdot 10^{-10}$ |
| b_3 | $5.03936 \cdot 10^{-4}$ | b_8 | $-2.50309 \cdot 10^{-12}$ |
| b_4 | $-3.28953 \cdot 10^{-5}$ | b_9 | $7.48708 \cdot 10^{-15}$ |

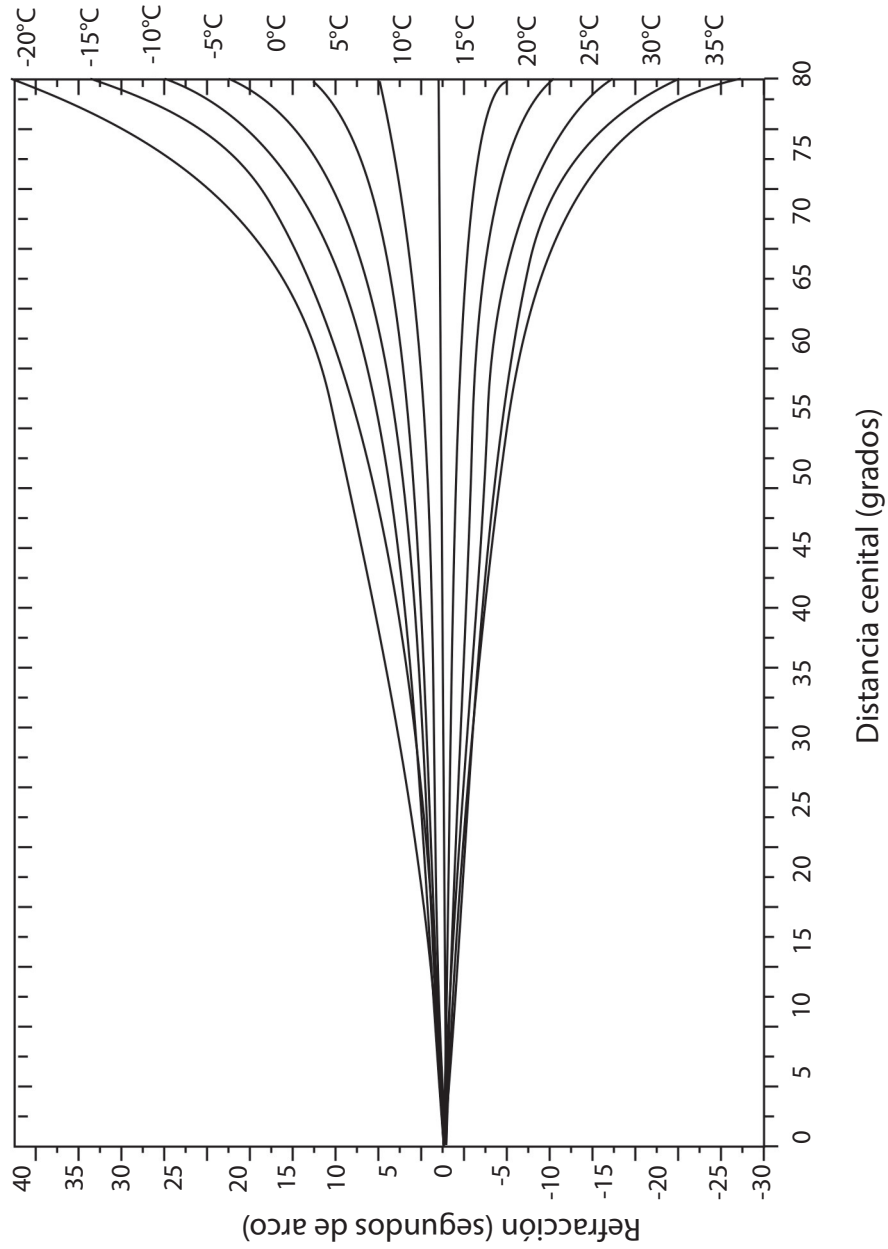
Con la gráfica de corrección por temperatura, se determina el valor en segundos de arco, que se deberá sumar algebraicamente a la refracción media. Cada curva corresponde a las temperaturas, en grados centígrados, señaladas al extremo derecho de cada una de ellas.

De la gráfica de corrección por presión se obtienen los valores en segundos de arco, que se deberán sumar algebraicamente a la refracción media. A la derecha de cada curva se muestran las variaciones de la refracción en función de la presión barométrica B , en mm.

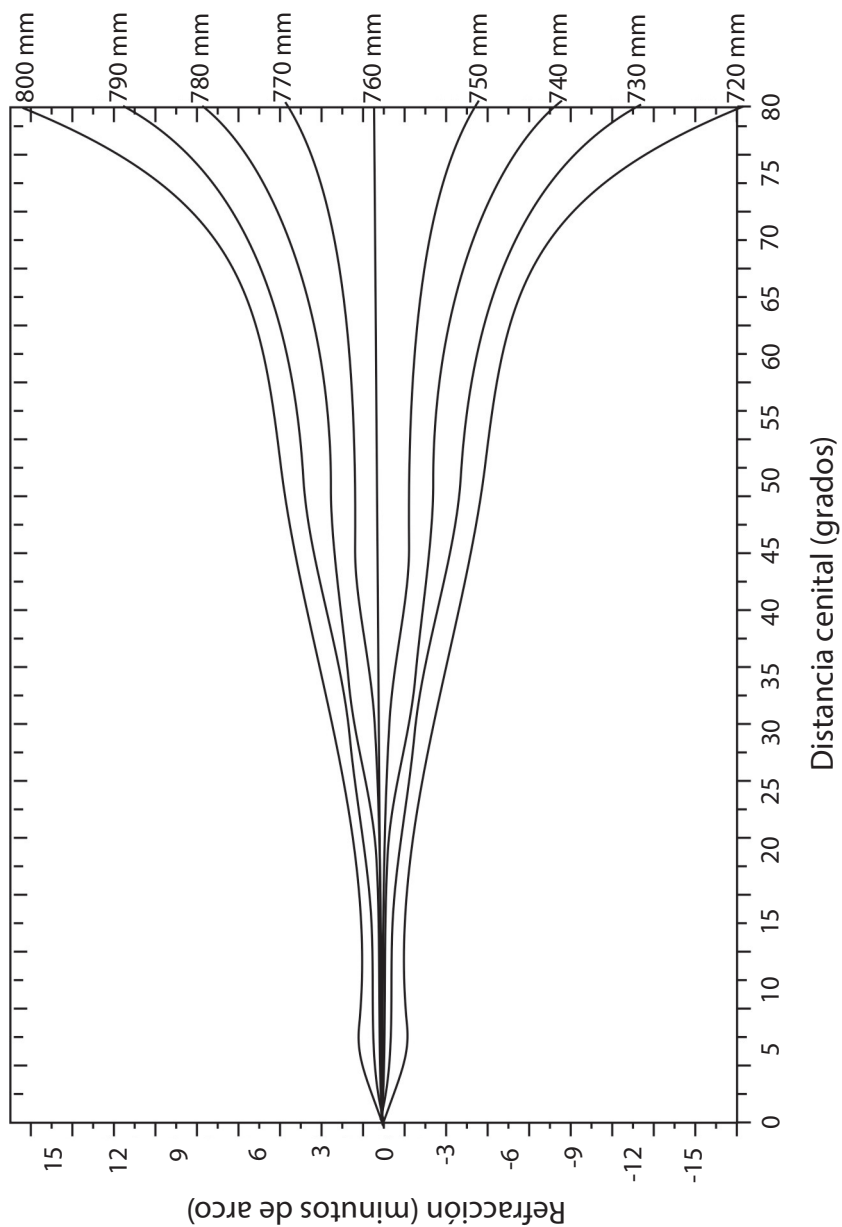
Corrección por distancia cenital



Corrección por temperatura



Corrección por presión



Abreviaturas

Día juliano

Abreviaturas:
d: día
ds: día de la semana
dj: día juliano

Hora sideral

Abreviaturas:
dj: día juliano

Sol

Abreviaturas:
 α : ascensión recta
 δ : declinación
hp: hora del paso por el meridiano
vh: variación horaria
 Δ : distancia geocéntrica
UA: unidad astronómica

Luna

Abreviaturas:
dj: día juliano
 α : ascensión recta
 δ : declinación
hp: hora del paso por el meridiano
 Δ : distancia geocéntrica en radios terrestres
sd: semidiámetro
pax: paralaje horizontal
DT: diámetro terrestre

Planetas

Abreviaturas:
 α : ascensión recta
 δ : declinación
 Δ : distancia geocéntrica
UA: unidad astronómica
hp: hora del paso por el meridiano

Sistema de constantes y parámetros

Abreviaturas:
 α : ascensión recta, d : declinación, f : latitud
UA: unidad astronómica, rad : radianes
DJ: día Juliano
 $1g$: aceleración de la gravedad en la superficie terrestre o Normal

Nomenclatura de las estrellas brillantes

Abreviaturas:
 α : ascensión recta
 δ : declinación
N: número del catálogo de estrellas brillantes en el Bright Star Catalog of la Universidad de Yale. E.U.A.

Posiciones medias de estrellas brillantes

Abreviaturas:
NBSC: número de estrella en: Bright Star Catalog, Yale University, EUA
NH: número en el Catálogo Hiparco
V: magnitud
SP: tipo espectral
nom: nombre de la estrella en clasificación Bayer

Posiciones aparentes de estrellas brillantes

Abreviaturas de términos astronómicos:
 α : ascensión recta
 α_c : ascensión recta en el sistema de referencia intermedio
 δ : declinación
Hp: hora del paso

Posiciones aparentes de la polar

Abreviaturas:
 α : ascensión recta
 α_c : ascensión recta coordenadas intermedias
 δ : declinación
hp: hora del paso por el meridiano

Lluvias de estrellas

Abreviaturas:
 α : ascensión recta
 δ : declinación
vel: velocidad de incidencia en km/s
Núm: número de estrellas fugaces por hora

Eventos planetarios

Abreviaturas:
E: Separación angular al Este (E).
Medida geocéntrica que se refiere a la separación angular entre los centros de los objetos (véase sección de explicaciones).
O: Separación angular al Oeste (O).
AC: acimut
a: altura
*: ocultación
**: eclipse

Crepúsculos Salidas y puestas del Sol

AM: inicia el crepúsculo astronómico matutino; CM: inicia el crepúsculo civil matutino;
SS: salida del Sol; PS: puesta del Sol; CV: termina el crepúsculo civil vespertino;
AV: termina el crepúsculo astronómico vespertino.
(Para el cálculo de la hora legal, véase la sección *Explicaciones*).

Objetos Messier

Abreviaturas:
M: número de objeto Messier; NGC: número en el Nuevo Catálogo General
const: constelación; v: magnitud; tipo: tipo morfológico;
 α : ascensión recta; d : declinación (ambas para J2000)
E: galaxia elíptica; S: galaxia espiral; SB: galaxia espiral barrada; Pec: peculiar
ca: cúmulo abierto; cg: cúmulo globular;
rsn: remanente de supernova; np: nebulosa planetaria;
nr: nebulosa de reflexión; ne: nebulosa de emisión;
(véase la sección de explicaciones para obtener r información sobre morfología).

Poblaciones de la República Mexicana

Abreviaturas:
alt: altura sobre el nivel del mar
 δm : declinación magnética para el 1 de del 2006
 $\Delta \delta m$: Variación de la declinación magnética por año

Glosario: Términos astronómicos básicos

Acimut o azimut. Distancia angular medida hacia el Este, desde el Norte geográfico, hasta el punto definido por la intersección con el horizonte del círculo vertical que pasa por un objeto celeste. También es común referirla al Sur geográfico.

Adviento. Período litúrgico de cuatro semanas que precede a la Navidad.

Afelio. Punto en el cual un cuerpo en órbita en torno al Sol alcanza su r distancia a éste.

Altitud o Altura. Distancia angular entre el horizonte y el cuerpo celeste. Se mide a lo largo del gran círculo que pasa por el objeto astronómico y el cenit del lugar. Es positiva cuando el objeto está sobre el horizonte y negativa cuando está por debajo.

Ángulo horario. Distancia angular entre el meridiano del lugar y el círculo horario que pasa por el objeto celeste. Se mide en el plano del ecuador celeste.

Anuario astronómico. Guía de posiciones de objetos celestes y acontecimientos astronómicos que se publica cada año.

Año anomalístico. Paso sucesivo de la Tierra por su perihelio. Su duración es de 365.25964 días.

Año civil. Intervalo de 365 días que rige las actividades civiles, sociales o religiosas de la ría de los países del mundo; y es la parte entera de la duración del año trópico. Para su buen funcionamiento es necesario que en cada año, la posición del Sol en el cielo corresponda al mismo día. Para lograrlo se agrega el día 29 de cada cuatro años, omitiéndose para aquellos años seculares (múltiplos de 100), que no sean divisibles entre 400. (Véase la sección *Explicaciones*, en Calendarios)

Año sideral. Tiempo que le toma a la Tierra en dar una vuelta completa alrededor del Sol, respecto de las estrellas fijas. Su duración es de 365.25636 días.

Año trópico. Tiempo que transcurre entre los dos equinoccios o bien el tiempo que le toma al Sol pasar dos veces consecutivas por el primer punto de Aries. Su duración es de 365.24219 días.

Apogeo. Punto orbital más alejado de un cuerpo, respecto de la Tierra.

Ascensión recta. Ángulo en el plano del ecuador celeste, que mide la separación entre los círculos horarios del punto Vernal y de un objeto celeste.

Asteroides. Pequeños objetos rocosos del Sistema Solar, cuyos diámetros son del orden de 400 km, en promedio. Se les localiza principalmente en el llamado Cinturón de Asteroides, entre las órbitas de Marte y Júpiter. Otros grupos se identifican como los Apolo, Amor y Trollanos.

Astrología. Un sistema de fundamentos subjetivos, no científico, con el que se pretende explicar el carácter y comportamiento humanos, tomando como base las posiciones de los astros.

Azimut. Véase Acimut.

Calendario. Conjunto de normas establecidas para medir el transcurso del tiempo en años, meses y días.

Calendario Gregoriano. Calendario introducido por el Papa Gregorio XIII en 1582, con el que modificó el calendario Juliano. Consiste en agregar un día en todos los años que sean divisibles por cuatro; a estos se les llaman años bisiestos. Se exceptúan aquellos años seculares, o de final de siglo, que no sean divisibles por cuatrocientos. Los años 1800, 1900 y 2100 no son años bisiestos, en cambio 1600 y 2000 sí lo son.

Calendario Juliano. Año de 365.25 días exactamente; según la tradición, César lo instituyó en el año 45 a.C. y fue modificado por el papa Gregorio XIII en 1582 d.C.

Carnaval. Los tres días que preceden a la cuaresma. Fiestas celebradas durante estos días, consistentes en mascaradas, bailes y otros regocijos bulliciosos.

Catálogo. En Astronomía, tabla en la que se enumeran y enlistan objetos astronómicos, y en la que se caracterizan sus propiedades.

Cenit o Zenit. Punto de la esfera celeste que se encuentra exactamente encima del observador.

Ciclo Solar. Relativo al calendario, es el periodo de veintiocho años al final del cual el año comienza con el mismo día.

Ciclo de actividad solar. Ciclo cuya duración es de 11 años aproximadamente. Se percibe por el aumento en la cantidad de manchas, ráfagas y protuberancias solares.

Círculo horario. Gran círculo en la bóveda celeste, que contiene a los polos celestes y algún objeto astronómico.

Conjunción. Evento que se produce cuando dos objetos celestes alcanzan la misma longitud eclíptica o ascensión recta.

Conjunción inferior. Suceso astronómico de Mercurio o Venus cuando alguno de ellos se encuentra exactamente entre el Sol y la Tierra.

Conjunción superior. Evento astronómico de Mercurio o Venus cuando el Sol se encuentra entre el planeta y la Tierra.

Cometa. Cuerpo que orbita alrededor del Sol, con núcleo de polvo y hielos de unos 10 km de diámetro. Cuando se acerca al Sol, sus materiales sólidos se su-

Glosario: Términos astronómicos básicos

bliman, de tal modo que al ser arrastrados por el viento solar producen una cauda cometaria; sus dimensiones pueden alcanzar más de cien millones de kilómetros.

Constelación. Grupo de estrellas cuya asociación esquemática o mítica, sirve para identificar cierta región de la esfera celeste; en la actualidad, dichos grupos han sido definidos por la Unión Astronómica Internacional, para delimitar con precisión las regiones de la esfera celeste. El cielo se ha dividido en 88 constelaciones.

Coordenadas geográficas. Latitud y longitud de un punto de la superficie terrestre, relativas al centro de la Tierra.

Coordenadas celestes eclípticas. Latitud y longitud de un punto de la bóveda celeste relativas al plano de la órbita de la Tierra. Pueden ser geocéntricas o heliocéntricas.

Coordenadas celestes ecuatoriales. Ascensión Recta y Declinación de un punto de la bóveda celeste relativas al plano del ecuador terrestre. Pueden ser geocéntricas o heliocéntricas.

Corona solar. Región más externa de la atmósfera solar, caracterizada por una temperatura de varios millones de grados. Se logra observar durante los eclipses totales de Sol. Otras estrellas también poseen corona.

Crepúsculo. Intervalo de tiempo que precede a la salida del Sol o que sigue después de su puesta, durante el cual el cielo está parcialmente iluminado. Puede ser crepúsculo civil, cuando se habla del tiempo que ocupa el Sol en recorrer la distancia cenital entre 90° y 50' y 96°; náutico entre 96° y 102°, y astronómico, entre 102° y 108°.

Culminación. Paso de un objeto celeste por el meridiano del observador. Punto en el que alcanza la máxima altura en su movimiento diario.

Cúmulo abierto o galáctico. Conglomerado estelar de cientos de estrellas cuya distribución tiende hacia el plano de la Galaxia.

Cúmulo globular. Grupo estelar de forma casi esférica que se encuentra fuera del plano de la Galaxia. Su número de estrellas va de unos cientos de miles a decenas de millones, muchas de ellas son estrellas tardías.

Declinación. Distancia angular en la esfera celeste que se mide desde el ecuador celeste, a lo largo del círculo horario definido por el objeto celeste. Es positiva al norte y negativa al sur.

Declinación magnética. Desviación de las líneas del campo magnético de la Tierra, respecto de la línea norte sur geográfica. Esta es una propiedad física que varía con el tiempo y depende del lugar donde se mide.

Deflexión de la vertical. Diferencia angular entre el cenit astronómico y el cenit geodésico.

Día Juliano. Intervalo de tiempo en días, a partir del 1 de del año 4713 a.C., al medio día del meridiano de Greenwich.

Día medio. Tiempo transcurrido entre dos pasos sucesivos del Sol medio o ficticio, por el meridiano. Su duración es de 24 horas.

Día sideral. Tiempo que transcurre entre dos pasos sucesivos del punto vernal o de alguna estrella por el meridiano. Su duración es de 23 horas, 56 minutos, 4.098904 segundos.

Día solar. Tiempo transcurrido entre dos tránsitos consecutivos del Sol por el meridiano. Por su variación durante el año, se hizo necesario definir el día solar medio. Dicha variación es causada por la irregularidad de la rotación de la Tierra y de su movimiento en torno al Sol.

Diámetro angular. Ángulo que subtende el diámetro aparente de un cuerpo celeste cercano. Para la Luna y el Sol dicho ángulo es de 30' aproximadamente.

Distancia cenital. Distancia angular de un cuerpo celeste, medida desde el cenit.

Distancia media. Parámetro de una órbita elíptica, definido por la longitud del semieje r .

Eclipse. Paso de un cuerpo celeste por la sombra de otro, haciendo que la fuente que lo ilumina quede oculta por el primero.

Eclipse anular de Sol. Ocurre cuando el diámetro aparente de la Luna es menor que el solar. Parte del disco solar se muestra como un anillo alrededor de la Luna.

Eclipse lunar. Paso de la Luna por la sombra de la Tierra. Puede ser total umbral, cuando la Luna se encuentra dentro de la umbra de la Tierra; parcial umbral cuando parte del disco lunar se encuentra dentro de ella. Será total penumbral, cuando el disco de la Luna sólo se encuentra en la penumbra de la Tierra; y parcial penumbral o simplemente parcial, cuando parte del disco lunar se encuentra en la penumbra terrestre.

Eclíptica, plano de la. Plano medio de la órbita de la Tierra alrededor del Sol.

Eclíptica. Trayectoria aparente que describe el Sol en la bóveda celeste, a lo largo del año. Es llamada así porque los eclipses ocurren cuando la Luna se encuentra en el plano que la contiene.

Ecuación del tiempo. Diferencia entre los ángulos horarios del Sol verdadero y el Sol medio o ficticio. Dife-

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rencia entre el tiempo solar aparente y el tiempo solar medio.

Ecuador. Gran círculo en la superficie de un cuerpo, que resulta de la intersección de ésta con el plano que pasa por su centro y es perpendicular al eje de rotación del cuerpo.

Ecuador celeste. Proyección del ecuador de la Tierra, en la bóveda celeste.

Edad de la Luna. Término dado en astronomía para el número de días transcurridos después de la Luna Nueva.

Efemérides. Predicción de la posición de un astro. Lista de posiciones astronómicas y otros datos que cambian con el tiempo.

Elementos orbitales. Parámetros que caracterizan la órbita de un cuerpo que se mueve en torno a otro.

Elongación. Ángulo geocéntrico entre un planeta y el Sol medido en el plano definido por el planeta, el Sol y la Tierra. Las elongaciones planetarias fluctúan entre 0° y 180°, al Este o al Oeste del Sol.

Elongación máxima. Valor máximo de la elongación de un planeta interior.

Epacta. Número de días en que el año solar excede al lunar (casi 11 días). Edad de la Luna el 1 de cada año.

Epifanía. Fiesta que celebra la iglesia cristiana el día 6 de , para conmemorar la adoración de Jesucristo por los Reyes Magos. Manifestación de Dios a los paganos.

Equinoccio Vernal. Día del año en el que se inicia la primavera en el hemisferio norte. La duración del día y la noche son iguales. Nodo ascendente de la eclíptica sobre el ecuador celeste. Momento en el que la longitud aparente del Sol es cero.

Era. Sistema de notación cronológica, relativa a la fecha en que ocurrió algún suceso importante.

Esfera celeste. Esfera imaginaria donde parecen estar colocados a la misma distancia todos los objetos celestes. En su centro está la Tierra cuyo plano ecuatorial contiene al ecuador terrestre; sus polos son la intersección de la proyección del eje de rotación de la Tierra con dicha esfera.

Espectral, tipo. Clasificación de las estrellas con base en su espectro, de acuerdo con su temperatura superficial. Se han caracterizado los tipos principales: O, B, A, F, G, K, M y además C(R y N) y S. También se puede clasificar por su luminosidad como 0, I, II, III, IV, V, VI y VII.

Estacionario, punto. Posición en la cual la variación de la ascensión recta de un planeta es momentáneamente nula.

Estaciones. Intervalos del año definidos por el tiempo en que el Sol permanece entre aquellos puntos orbitales caracterizados por los solsticios y equinoccios. Son llamadas Primavera, Verano, Otoño e Invierno. El clima en la Tierra es diferente en cada una de ellas, debido a la inclinación de su eje de rotación respecto del plano de la eclíptica.

Estrella. Esfera de gas incandescente cuya fuente de energía son las reacciones termonucleares.

Excentricidad de una órbita. Para una órbita elíptica, el cociente de la distancia entre los focos y el diámetro r de la órbita. Parámetro que especifica la forma de una sección cónica.

Fase. Se dice del aspecto o forma aparente que presenta un planeta o luna, visto a distancia. Es la fracción del disco iluminado por el Sol.

Fases de la Luna. Forma aparente de la Luna. luna nueva, cuarto creciente, luna llena y cuarto menguante, se definen como los tiempos en los que la longitud de la Luna difieren de las del Sol en 0°, 90°, 180° y 270°, respectivamente.

Galaxia. Conglomerado de millones de estrellas, gas y polvo. Se clasifican según su morfología en: elípticas (E), espirales (S) e irregulares (I). Las espirales también pueden presentar núcleos que tienen forma de barra (SB).

Geocéntrico. Con referencia o perteneciente al centro de la Tierra.

Geodesia. Ciencia que trata de la forma y las medidas de la Tierra.

Gravitación. Campo de fuerza al que se debe la atracción de las masas en el Universo.

Greenwich. Región conurbada de Londres donde se encontraba el observatorio astronómico. El meridiano de este lugar se toma como origen de los meridianos, por lo que es llamado meridiano cero.

Hégira o Hégira. Era de los mahometanos, que se cuenta desde la puesta del Sol del 16 de de año 622 d.C., día en que Mahoma huyó de la Meca al salir hacia la ciudad de Medina.

Heliocéntrico. Con referencia o perteneciente al centro del Sol.

Hora civil o legal. Hora regida por el Sol medio o ficticio. Hora referida a un meridiano horario o huso horario. La Tierra se divide en 24 husos horarios, que se

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obtienen al dividir entre 15 los 360° de la circunferencia del ecuador.

Hora local. Hora regida por la posición del Sol verdadero. Cuando éste pasa por el meridiano del lugar, define las 12 horas o el mediodía locales.

Hora sideral. Tiempo transcurrido desde el paso del meridiano del lugar por el primer punto de Aries. El día sideral es 3m 55.91s menor que el día solar. Se refiere al tiempo medido basado en las estrellas fijas. Véase tiempo sideral.

Hora universal. Hora local de Greenwich. La hora local de algún punto de la superficie de la Tierra se obtiene restando a la hora de Greenwich la longitud del lugar convertida a horas.

Horizonte. Plano perpendicular a la línea que va del observador al cenit del lugar. Gran círculo formado por la intersección de la esfera celeste con el plano perpendicular a la línea que une al observador con el cenit del lugar, llamado horizonte astronómico u horizonte del observador.

Inclinación. En Astronomía, ángulo entre el plano de una órbita y otro de referencia. Elemento orbital que especifica la orientación de una órbita.

Júpiter. Planeta gigante del Sistema Solar. Después de Venus es el planeta más brillante del sistema solar. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Latitud celeste. Distancia angular en la esfera celeste medida al norte o al sur del plano de la eclíptica. Se mide a lo largo del gran círculo que pasa por los polos de la eclíptica y el cuerpo celeste.

Latitud terrestre. Distancia angular en la Tierra, medida al norte o al sur del ecuador, a lo largo de algún meridiano.

Lluvia de estrellas. Fenómeno luminoso causado por la caída de pequeñísimas partículas dejadas por los cometas. Se observan como estelas luminosas a las que, tradicionalmente, se les nombran estrellas fugaces, las cuales parecen surgir de un punto en el cielo llamado radiante. Se han clasificado unas 18 lluvias de estrellas, las cuales reciben el nombre de la constelación donde se ubica su respectivo radiante.

Longitud (geográfica). Distancia angular medida en el plano del ecuador, al Este o al Oeste del meridiano de Greenwich.

Longitud eclíptica. Distancia angular de un cuerpo celeste medida sobre el plano de la eclíptica, a partir del primer punto de Aries.

Luminosidad. Cantidad total de energía radiada por un cuerpo celeste en la unidad de tiempo.

Luna. Satélite natural de la Tierra. Después del Sol es el objeto más brillante del cielo. Véase tabla de satélites de los planetas.

Lunación. Periodo de tiempo entre dos lunas nuevas consecutivas. Su duración aproximada es de 29.5 días.

Luna llena. Fase durante la cual el disco lunar está totalmente iluminado; ocurre cuando la luna se encuentra en oposición al Sol respecto de la Tierra.

Luna nueva. Fase durante la cual el disco lunar no se ve iluminado ocurre cuando la Luna se encuentra en conjunción con el Sol.

Magnitud. Medida logarítmica del brillo de un objeto celeste, considerado como una fuente puntual.

Magnitud de un eclipse de Luna. Fracción del diámetro lunar obscurecido por la sombra de la Tierra, en el máximo del eclipse lunar.

Magnitud de un eclipse de Sol. Fracción del diámetro solar ocultado por la Luna, en el máximo del eclipse de Sol.

Marte. Planeta rocoso del Sistema Solar que, a simple vista, se aprecia de color rojizo. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Masa. Medida inherente a la cantidad de materia de un cuerpo.

Mercurio. Planeta rocoso del Sistema Solar que por su distancia heliocéntrica es el más cercano al Sol. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Meridiano. Círculo máximo en la esfera celeste que pasa por los polos y el cenit del observador.

Meridiano 90° W.G. Meridiano que atraviesa la Península de Yucatán. Se encuentra 90° al Oeste del meridiano de Greenwich en Inglaterra. Define al huso horario (S) de 6 horas al Oeste de Greenwich, llamado Hora del Centro en la República Mexicana. Difiere de la hora local de la ciudad de México en 36 minutos 37 segundos.

Meteorito. Dicese de algún fragmento de roca o metal del medio interplanetario, una vez que ha sufrido una colisión contra un planeta, satélite o, en general, con algún cuerpo del Sistema Solar.

Messier, catálogo. Enlistado de aquellos objetos celestes que al ser vistos con telescopios pequeños, son de aspecto difuso. Contiene cúmulos estelares, nebulosas y galaxias. Fue elaborado por Charles Messier.

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Movimiento directo. Dirección de la rotación o del movimiento de traslación de un planeta o satélite, visto desde el polo norte de la eclíptica, cuyo sentido es contrario al de las manecillas del reloj.

Movimiento retrógrado. Dirección de la rotación de un planeta o satélite visto desde el polo norte de la eclíptica, cuyo sentido es el de las manecillas del reloj.

Nadir. Punto de la esfera celeste diametralmente opuesto al cenit. Dícese de aquel punto, del otro lado de la Tierra, ubicado por debajo de nosotros.
Nebulosa. Nube de materia interestelar.

Nebulosa planetaria. Envoltura de gas alrededor de una estrella con masa parecida a la del Sol, arrojada por ella misma a consecuencia de un estado avanzado de su evolución.

Neptuno. Planeta gaseoso del Sistema Solar. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Nodo. El punto de intersección entre dos grandes círculos celestes. Los eclipses de Luna y de Sol ocurren cuando ambos se encuentran cerca de los nodos de intersección de sus trayectorias orbitales.

Número de Oro, o Áureo. En términos astronómicos, ciclo lunar de diez y nueve años, al cabo de los cuales las fases de la Luna vuelven a sucederse en los mismos días del año.

Ocultación. Efecto de cubrimiento de un objeto celeste por otro de r diámetro aparente, específicamente el paso de la Luna frente a una estrella o planeta.

Oposición. Configuración geocéntrica del Sol y un planeta exterior en la que sus longitudes aparentes difieren en 180° .

Órbita. Trayectoria de un cuerpo celeste en torno a otro.

Paso superior por el meridiano. Tránsito de un objeto celeste por el meridiano del observador.

Pentecostés. Fiesta de los judíos instituida en memoria de la ley de Jehová, que les fue dada en el Monte Sinaí. En la Iglesia Católica festividad de la venida del Espíritu Santo.

Perigeo. Punto en el cual un cuerpo en órbita en torno a la Tierra alcanza su menor distancia a ésta.

Perihelio. Punto en el cual un cuerpo en órbita en torno al Sol alcanza su menor distancia a éste.

Penumbra. Región intermedia entre la sombra y la zona iluminada. También se refiere a la región desde la que un eclipse se ve como parcial. Componente

exterior de la sombra que proyecta un objeto iluminado por una fuente de luz.

Planeta. Cuerpo celeste esférico cuyo tamaño es r de 1000 km de diámetro. No emite luz propia. Su masa es tal que la energía liberada por las reacciones nucleares en su interior no son suficientes para que se convierta en estrella. Actualmente se han encontrado evidencias de la existencia de planetas que orbitan algunas estrellas.

Plutón. Planeta del Sistema Solar cuya órbita es la más alejada del Sol. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.
Polar. Estrella Polar (a UMi). Se localiza a sólo 0.9o del Polo Norte Celeste.

Precesión. Movimiento progresivo y uniforme del eje de rotación de un cuerpo que rota libremente, sujeto a la torca ejercida por una fuerza gravitatoria externa. En la Tierra, la precesión es causada por la acción de la fuerza gravitatoria del Sol y la Luna sobre su deformación ecuatorial.

Primer punto de Aries. Punto imaginario donde se intersectan el ecuador celeste y la eclíptica. Cuando el Sol pasa por dicho punto, su declinación cambia de negativa a positiva. No existe ninguna estrella en esta posición.

Puesta del Sol. Momento en que el limbo superior del Sol desaparece bajo el horizonte del observador.

Polo norte celeste. Punto de intersección de la proyección del eje de rotación terrestre con la esfera celeste.

Punto Vernal. Véase primer punto de Aries.

Quincuagésima. Dominica que precede a la Cuaresma.

Ramadán. Noveno mes del año lunar de los musulmanes.

Revolución. Órbita de un cuerpo alrededor de otro.

Rosh Hashanah. Año Nuevo de los Judíos.

Salida del Sol. Momento en que el limbo superior del Sol sale por el horizonte del observador.

Saros. Ciclo lunar babilónico de 6585.32 días, o 18 años, 11.33 días o 223 lunaciones, después del cual el Sol y la Luna regresan a una misma posición relativa en el cielo. Significa repetición en griego.

Satélite. Cuerpo en órbita alrededor de otro. Luna de un planeta.

Saturno. Planeta gaseoso del Sistema Solar con un gran número de anillos. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

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Segundo. En el sistema internacional, duración de 9 192 631 770 ciclos de la radiación dada por la transición entre los dos niveles hiperfinos del estado base del Cesio 133.

Semana Santa. Semana que culmina con la Pascua, la cual se festeja en el primer domingo que sigue a la primera luna llena, después del equinoccio de primavera.

Septuagésima. Dominica que celebra la Iglesia Católica tres semanas antes de la primera de cuaresma.

Sideral. Relativo a las estrellas.

Sistema de referencia. Lugar y tiempo desde donde se mide o registra un evento.

Sol. Estrella más cercana a la Tierra.

Sol medio. Sol imaginario o ficticio, que se desplaza en la bóveda celeste a velocidad constante. No está sujeto a las variaciones del Sol verdadero debidas a la elipticidad de la órbita terrestre. Se usa para definir el tiempo solar medio.

Solsticio. Uno de dos puntos en los cuales el Sol parece estar en sus puntos Norte y Sur más extremos. Puntos de la eclíptica que están a la máxima distancia del ecuador celeste. En el hemisferio norte, el solsticio de verano ocurre alrededor del 21 de y el de invierno cerca del 22 de aproximadamente. Estas fechas corresponden al día más largo y corto del año, respectivamente.

Sombras volantes. Franjas de luz y sombra que se observan justo antes y después de la fase de totalidad de un eclipse de Sol.

Sucot. Fiesta judía de la cosecha.

Tiempo atómico internacional. Escala de tiempo que resulta del análisis de las mediciones de tiempos atómicos en varias ciudades del mundo, regulada por el Bureau International des Poids et Mesures. La unidad de tiempo es el segundo internacional de tiempo.

Tiempo solar medio. Medida de tiempo basada en el movimiento diurno de Sol medio o ficticio, suponiendo un movimiento de rotación terrestre uniforme.

Tiempo sideral. Medida de tiempo basada en el movimiento diurno del punto Vernal. Está dado por la razón de rotación terrestre respecto a las estrellas.

Tiempo universal. Medida de tiempo basada en el movimiento diurno del Sol. Hora local en el meridiano de Greenwich; se determina por la observación del movimiento diurno de las estrellas.

Tierra. Planeta rocoso del Sistema Solar. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Tránsito. Paso de un objeto celeste por un meridiano. Paso de un cuerpo frente a otro de r diámetro aparente.

Umbral. En un eclipse, la región desde donde se observa al cuerpo celeste totalmente oculto. Umbral, en latín, significa sombra.

Unidad astronómica o U.A. Distancia media entre la Tierra y el Sol; 150 millones de kilómetros, aproximadamente.

Urano. Planeta gaseoso del Sistema Solar con 9 anillos. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Venus. Planeta rocoso del Sistema Solar que se muestra desde la Tierra como el de r brillo. Véanse tablas de parámetros físicos y orbitales de planetas, y satélites de los planetas.

Yom Kippur. Día del perdón entre los judíos.

Zenit o Cenit. Ver Cenit.

Zodiaco. Banda imaginaria de constelaciones a través de la cual se mueve el Sol, la Luna y los planetas durante el año.

Apéndice

Explicaciones

Explicaciones generales al contenido del Anuario

Con la abreviatura W. G., debemos leer Oeste del meridiano de Greenwich, ésta se mantiene en toda la publicación, a menos que se indique otra referencia.

Calendario

En un sentido general los calendarios son sistemas de cómputo de días, con ellos se rige la vida social, civil y religiosa de los grupos humanos. Se construyen mediante la combinación de diferentes unidades de tiempo. Se han ideado diversas estructuras funcionales por medio de la aplicación de ciertos algoritmos o procedimientos matemáticos, con los que se pretende seguir la duración de diversos ciclos astronómicos. Ejemplos de ellos son los relacionados al movimiento aparente del Sol, la Luna, Venus o algunas estrellas brillantes, los cuales contienen implícitamente el movimiento de traslación y rotación de la Tierra, así como el de la Luna en torno a la Tierra.

El *año civil*, es el intervalo de 365 días que se utiliza en la ría de los países del mundo, y es la parte entera de la duración del año trópico (el ciclo de las estaciones). Para su buen funcionamiento se requiere que cada año para una fecha dada, la posición aproximada del Sol corresponda a la del año anterior. Para lograrlo se hace necesario corregirlo de acuerdo a las siguientes reglas:

Si el año es divisible exactamente entre 4, durará 366 días, al cual se le llama año *bisiesto*.

Los años seculares (múltiplos de 100) no serán bisiestos, excepto si son divisibles entre 400.

Como ejemplos de ello tenemos que los años 1700, 1800 y 1900 no fueron bisiestos; en cambio el año 1600 y el 2000 sí lo fueron.

Aquellos años contados de acuerdo a la Era Cristiana tienen su origen numérico en el año 1; este y los años subsiguientes se nombran después de Cristo (d. C.) y los precedentes como antes de Cristo (a.C.). En nuestros días, el calendario adoptado por la ría de los países del mundo es el Calendario Gregoriano, instituido por el Papa Gregorio XIII en 1582. En aquel año introdujo la corrección al calendario Juliano en 10 días, al decretar que al día 4 de le seguiría el 15 de .

En Astronomía, con el propósito de manejar los años numéricamente, el año 1 a.C. se define como el año cero. Los años contados antes de la era cristiana serán negativos, con la regla de restar uno al número del año, y el resultado escribirlo sin el sufijo a.C., anteponiendo el signo menos.

Como ejemplos: el año 2 a.C. será -1 en la notación astronómica; el año 23 a.C. será el -22, el año 115 a.C. será el -114, etc. Para los años posteriores a la era cristiana, simplemente se quita el sufijo d.C. y se tendrá la notación astronómica. Con esta representación se pueden manejar numéricamente los años y se puede obtener fácilmente, de acuerdo con el procedimiento ya mencionado, la secuencia de años bisiestos en cualquier época.

En la región geográfica comprendida entre el occidente de la República Mexicana hasta las que se encuentran entre las Repúblicas de Nicaragua y Costa Rica en centro América, a la

que se da el nombre de Mesoamérica, florecieron las culturas americanas desarrolladas por los huicholes, mexicas, huastecos, zapotecos, mayas, olmecas, etc. En ésta región de América se desarrolló un sistema de dos calendarios con los que se contaban, independientemente, intervalos de 365 y 260 días. El primer intervalo se daba mediante la combinación de 18 meses de 20 días, más cinco días adicionales con los que se completaba la cuenta; evidentemente se reproduce el ciclo anual del Sol. El segundo se obtenía mediante la combinación de 13 meses de 20 días, del cual se desconoce una contraparte en ciclos astronómicos. Hasta el momento se conoce con certeza por la existencia de los códices, el calendario mexica, maya y zapoteca, aunque existen evidencias de la calendárica olmeca, teotihuacana y otras. Entre las épocas más antiguas de esta calendárica, se encuentra la referida por la Estela 12 de Monte alban, para el año -591. Como resultado del estudio del calendario maya, se ha inferido la existencia de una fecha Era que corresponde al 13 de de -3112. Finalmente en base a estudios etnográficos, se ha detectado el uso actual de esta calendárica en las regiones Mixe de Oaxaca y la Maya entre México y Guatemala.

Día Juliano

Sistema de numeración sucesiva de días, establecido arbitrariamente para que todas las fechas históricas tengan un número progresivo. Así el día juliano queda definido como el número de días solares medios, transcurridos desde el 1 de de -4712, a partir del medio día del meridiano de Greenwich.

En la tabla se dan para cada mes, grupos de tres columnas; el número del día en la primera; en la segunda, el nombre del día y en la tercera el día juliano correspondiente al mediodía del meridiano 90°W.G.

Eras, ciclos cronológicos, cómputo, fiestas y aniversarios

Las Eras son épocas definidas por algún suceso cultural de importancia, las cuales referimos aquí al calendario gregoriano. Los ciclos cronológicos y el cómputo son reglas eclesiásticas que ordenan las celebraciones religiosas. Se rigen por los ciclos "solar", "número de oro" e "indicción romana", equivalentes a 28, 19 y 15 años respectivamente. La pascua corresponde al primer domingo, en el calendario gregoriano, después de la Luna Llena tabular que ocurre después del equinoccio vernal tabular (21 de). La Luna Llena tabular o eclesiástica, se basa en el ciclo Metónico de 235 meses sinódicos.

En la tabla de fiestas y aniversarios se dan las fechas de algunos acontecimientos históricos de importancia en la República Mexicana. También se dan algunas fechas de las celebraciones religiosas importantes de diferentes grupos sociales del País.

Estaciones del año

Se dan los instantes (mes, día, hora y minuto) en los que el Sol inicia su recorrido a través de cada una de las Constelaciones del Zodíaco. Señalamos los intervalos trimestrales de las estaciones del año y las longitudes eclípticas que delimitan cada constelación zodiacal. La primavera se inicia en , en el instante en que ocurre el equinoccio del Nodo Ascendente; el Verano en , en el instante en que ocurre el Solsticio; el Otoño en , en el instante en que ocurre el equinoccio del Nodo Descendente; y el Invierno que se inicia en , en el instante del Solsticio.

Nomenclatura de estrellas

Se dan los nombres propios de algunas estrellas, la extensión de la clasificación Bayer, y su correspondiente número secuencial del Bright Star Catalog. Conviene señalar que dicha clasificación fue desarrollada por el bávaro John Bayer (1572-1631), cuando publicó su atlas Uranometría en el año de 1603. De acuerdo a los modos de clasificación que él conocía, dio un nombre a las estrellas de acuerdo a seis órdenes de magnitud entre el brillo relativo de las estrellas, para cada constelación. Así a las estrellas más brillantes les asignó una letra griega, además del nombre de la constelación, de acuerdo al mencionado brillo y dependiendo de su posición dentro del grupo de estrellas.

Clasificación espectral de las estrellas

| Clase espectral | Color | Temperatura superficial °K | Carácter |
|-----------------|----------------------|-------------------------------|--|
| O | Blanco-azul | 35 000 | Líneas de helio ionizado, nitrógeno, oxígeno e hidrógeno. |
| B | Blanco-azul | 20 000 | Líneas de helio neutro. |
| A | Blanca | 10 000 | Líneas intensas de hidrógeno, no tiene helio. |
| F | Blanco-amarillo | 7 000 | Líneas intensas de calcio y débiles de hidrógeno |
| G | Amarilla | 6 000 | Líneas débiles de hidrógeno y líneas intensas de metales. La clase espectral de nuestro Sol es G2V. |
| K | Naranja | 4 000 a 4 700 | Espectro muy complejo con líneas de metales. |
| M | Roja | 2 500 a 3 000 | Espectro muy complejo con líneas intensas de metales y anchas bandas moleculares, en especial de óxido de titanio. |
| N y R | Rojo intenso Roja | 2 500 | Con bandas espectrales de compuestos de carbón. Semejantes a las N, con bandas de óxido de zirconio, y líneas de emisión del hidrógeno. |
| W | Azul | 50 000 | Muestran emisión debido a la expansión de sus capas externas y atmósferas muy turbulentas. |

Subclase

| | |
|-----|----------------------------|
| Ia | supergigante brillante |
| Ib | supergigante poco luminosa |
| II | gigante brillante |
| III | gigante normal |
| IV | subgigante |
| V | secuencia principal |
| VI | subenana |

Catálogo Messier

Es una selección de objetos astronómicos brillantes y difusos, creado por Charles Messier, quien pretendía identificarlos plenamente, para evitar confundirlos con los cometas. Messier era conocido por sus observaciones astronómicas en la búsqueda de este tipo de objetos, actividad que desarrolló desde fines del siglo XVIII, hasta su muerte en 1817, llegando a descubrir trece cometas. Los primeros ochenta objetos (del M1 al M80) fueron clasificados por el propio Messier.

Entre los elementos del catálogo se pueden distinguir objetos que pertenecen a nuestra Galaxia, y los que no, son llamados extragalácticos. Como parte de la Galaxia se encuentran los cúmulos abiertos (ca), que son grupos de unos cientos de estrellas ligados gravitatoriamente; cúmulos globulares o galácticos (cg), son conjuntos de cientos de miles de estrellas; remanentes de supernovas (rsn), son restos de estrellas cuyos procesos evolutivos terminan como supernovas; nebulosas planetarias (np), son estrellas cuyos procesos evolutivos terminan con la eyección de materia a velocidades moderadas; nebulosas de reflexión (nr), son aquellas nubes de material interestelar que reflejan la luz de las estrellas vecinas; y nebulosas de emisión (ne), son aquellas nubes que al estar sometidas a la radiación de estrellas muy caliente, ionizan el material interestelar del que están formadas.

Los objetos extragalácticos del catálogo son galaxias del tipo elíptico (E), espirales (S), o espirales barradas (SB).

Eventos astronómicos

Lluvias de estrellas. Son restos de cometas que al penetrar la atmósfera terrestre, se disuelven en ella dejando una estela luminosa comúnmente conocida como estrella fugaz. Como se trata de enjambres de materiales muy pequeños que inciden sobre la Tierra con trayectorias casi paralelas, las estrellas fugaces parecen surgir del mismo punto en la bóveda celeste, llamado radiante. En esta sección se dan las principales lluvias de estrellas, cuyos nombres se asocian a la constelación en la que se encuentra el radiante;

los días en que se pueden observar; y el número promedio de estrellas fugaces por hora.

Crepúsculos, salidas y puestas del sol y de la luna. Los crepúsculos, salidas y puestas del sol, son eventos astronómicos locales que dependen de la latitud del lugar de observación. La salida o puesta del sol está definida para el instante en el cual el centro del Sol se encuentra a 0.5° bajo el horizonte del observador, de tal manera que considerando la refracción y el semidiámetro solar, el limbo superior del Sol se encuentra a una altura de 0° sobre el horizonte. Los crepúsculos que se dan en estas tablas, son el astronómico y civil que corresponden a la posición del centro del disco solar, se encuentra bajo el horizonte a 18° y 6° respectivamente.

La hora en que ocurre cada evento está dada en *hora local*; la *hora legal* se obtiene al sumar a la hora local, la diferencia en horas entre la longitud del lugar de observación y el meridiano horario.

Por ejemplo, evaluemos para el meridiano 90° W. G. la salida del Sol el día 6 de , en un lugar cuya latitud es 30° y longitud $97^\circ 30'$. En la tabla dada para latitud 30° , la salida del Sol (SS) indicada para el 6 de , es 4h 59m.

La diferencia en longitud (DI) será:

$$\Delta\lambda = (97.5^\circ - 90^\circ)/15$$

$\Delta\lambda = 7.5^\circ/15$ donde obtenemos DI = 30 m; así, la hora de la salida del Sol será:

$$T = 4h\ 59m + 30m \quad \text{es decir} \quad T = 5h\ 29m.$$

Hora en la República Mexicana (Hora Legal en México)

La hora legal se adoptó en la República Mexicana el 1 de de 1922, actualmente se tienen cuatro husos horarios de referencia, los meridianos 75° , 90° , 105° y 120° al W. G. El 13 de de 1998 se modificó en México el horario de Verano, decretándose los cuatro husos horarios para la República Mexicana.

Los husos horarios en el mundo (ver mapa de zonas horarias), son franjas de 15° centradas en el meridiano horario de referencia, el meridiano de la ciudad de Greenwich, Inglaterra se ha definido como el meridiano 0° . Los meridianos se miden a partir del meridiano de Greenwich al Este o al Oeste y se escriben las siglas E.G. y W. G. precediéndolas el valor numérico de la longitud geográfica. También con el propósito de manejar numéricamente, los valores de las longitudes geográficas serán positivos para las longitudes medidas al Este de Greenwich y negativos para los que se determinan al Oeste. Por ejemplo el meridiano 90° W.G. se escribe numéricamente como -90° . Los meridianos horarios hacia el Este o al Oeste son: 15° , 30° , 45° , 60° , 75° , 90° , 105° , 120° , 135° , 150° , 165° . Al meridiano 180° se le llama Línea Internacional del Tiempo.

El tiempo referido al meridiano de Greenwich o simplemente meridiano 0° , es llamado Tiempo Universal. Los husos horarios en que se divide la Tierra son adaptados por los países según sus propias necesidades, esto se puede observar en el mapa de zonas horarias, donde las franjas de los husos horarios son modificadas por accidentes orográficos o hidrográficos o bien por las fronteras entre países vecinos o por límites entre sus propias divisiones políticas. La hora así definida es llamada también hora legal o civil. En algunos países, según sea la época del año, se suele modificar los horarios legales que les corresponden, por horarios llamados de Verano o Invierno, con el propósito de aprovechar mejor la iluminación de la luz solar.

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