| EST +05:00 Tropical Geocentric Decl | $\begin{gathered} \hline \text { Sun } \\ \odot \end{gathered}$ | Mercury ४ | Venus + | Mars $\sigma^{7}$ | Jupiter 4 | Saturn ち | Uranus * | Neptune $\Psi$ | Pluto 우 | Chiron $k$ | $\begin{gathered} \text { True Node } \\ \Omega \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan 12021 | $-22^{\circ} 58^{\prime}$ | -24ำ18' | $-22^{\circ} 27^{\prime}$ | +11 ${ }^{\circ} 22^{\prime}$ | ' | ' |  | -05 ${ }^{\circ} 33^{\prime}$ | $-22^{\circ} 26^{\prime}$ | +04 ${ }^{\circ} 20^{\prime}$ | +23 ${ }^{\circ} 03^{\prime}$ |
| Jan 22021 | -22 ${ }^{\circ} 53^{\prime}$ | $-24^{\circ} 05^{\prime}$ | $-22^{\circ} 3{ }^{\prime}$ | +11 ${ }^{\circ} 33^{\prime}$ | $-19^{\circ} 56$ | $-20^{\circ} 08^{\prime}$ | +13 ${ }^{\circ} 1^{\prime}$ | -05 ${ }^{\circ} 3{ }^{\prime}$ | $-22^{\circ} 26^{\prime}$ | +04 ${ }^{\circ} 20^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 32021 | -22 ${ }^{\circ} 47$ | $-23^{\circ} 51^{\prime}$ | $-22^{\circ} 41^{\prime}$ | +11 ${ }^{\circ} 43^{\prime}$ | -1953' | $-20^{\circ} 07^{\prime}$ | +13 ${ }^{\circ} 21^{\prime}$ | -05 ${ }^{\circ} 32^{\prime}$ | $-22^{\circ} 26^{\prime}$ | +04 ${ }^{\circ} 21^{\prime}$ | ' |
| Jan 42021 | -22* ${ }^{\prime} 1^{\prime}$ | $-23^{\circ} 35^{\prime}$ | $-22^{\circ} 47^{\prime}$ | +11 ${ }^{\circ} 54^{\prime}$ | $-19^{\circ} 50$ | $-20^{\circ} 05^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 1^{\prime}$ | $-22^{\circ} 26^{\prime}$ | +04 ${ }^{\circ} 21^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 52021 | -22 ${ }^{\circ} 35^{\prime}$ | $-23^{\circ} 18^{\prime}$ | $-22^{\circ} 53^{\prime}$ | +12 ${ }^{\circ} 04^{\prime}$ | -1947' | $-20^{\circ} 04^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 31^{\prime}$ | -22 ${ }^{\circ} 5^{\prime}$ | +04 ${ }^{\circ} 21^{\prime}$ | $+23^{\circ} 02$ |
| Jan 62021 | -22 ${ }^{\circ} 8^{\prime}$ | $-22^{\circ} 59^{\prime}$ | $-22^{\circ} 57^{\prime}$ | +12* $15^{\prime}$ | -19 ${ }^{\circ} 44^{\prime}$ | $-20^{\circ} 02^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | $-05^{\circ} 30^{\prime}$ | $-22^{\circ} 25^{\prime}$ | +04 ${ }^{\circ} 21^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 72021 | -22 ${ }^{\circ} 0^{\prime}$ | -22³9' | $-23^{\circ} 01^{\prime}$ | +12 ${ }^{\circ} 26^{\prime}$ | -190 $1^{\prime}$ | $-20^{\circ} 01^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 30^{\prime}$ | -22 ${ }^{\circ} 5^{\prime}$ | +04 ${ }^{\circ} 22^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 82021 | -22 ${ }^{\circ} 12^{\prime}$ | $-22^{\circ} 17{ }^{\prime}$ | $-23^{\circ} 04^{\prime}$ | +12 ${ }^{\circ} 36^{\prime}$ | -19 ${ }^{\circ} 37$ | -1959' | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 29^{\prime}$ | $-22^{\circ} 25^{\prime}$ | +04 ${ }^{\circ} 22^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 92021 | -22 ${ }^{\circ} 04^{\prime}$ | -215 ${ }^{\prime}$ | $-23^{\circ} 07^{\prime}$ | +12 ${ }^{\circ} 47^{\prime}$ | $-19^{\circ} 34^{\prime}$ | $-19^{\circ} 58^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05²9' | $-22^{\circ} 24^{\prime}$ | +04 ${ }^{\circ} 22^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 102021 | -2155' | -21º 28 ' | $-23^{\circ} 09^{\prime}$ | +12 $58^{\prime}$ | -19³1' | -19 ${ }^{\circ} 56$ ' | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 28^{\prime}$ | $-22^{\circ} 24{ }^{\prime}$ | +04 ${ }^{\circ} 23^{\prime}$ | +23 ${ }^{\circ} 02^{\prime}$ |
| Jan 112021 | -2146' | $-21^{\circ} 02$ | $-23^{\circ} 10^{\prime}$ | +13 $08^{\prime}$ | -19 ${ }^{\circ} 27^{\prime}$ | $-19^{\circ} 55^{\prime}+$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 27$ | $-22^{\circ} 24^{\prime}$ | +04 ${ }^{\circ} 23^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 122021 | -21³6' | $-20^{\circ} 34$ | $-23^{\circ} 10^{\prime}$ | +13 ${ }^{\circ} 9^{\prime}$ | -19 ${ }^{\circ} 24^{\prime}$ | $-19^{\circ} 53^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 27^{\prime}$ | -22*²3' | +04 ${ }^{\circ} 23^{\prime}$ | $+23^{\circ} 02^{\prime}$ |
| Jan 132021 | $-21^{\circ} 26$ | -2005' | $-23^{\circ} 10^{\prime}$ | +13 ${ }^{\circ} 30^{\prime}$ | -19 ${ }^{\circ} 1^{\prime}$ |  | +13 ${ }^{\circ} 20^{\prime}$ | $-05^{\circ} 26^{\prime}$ | $-22^{\circ} 23^{\prime}$ | +04 ${ }^{\circ} 24^{\prime}$ | 2' |
| Jan 142021 | -21¹5' | -19³5' | $-23^{\circ} 09^{\prime}$ | +13* $41^{\prime}$ | -19 ${ }^{\circ} 17$ | $-19^{\circ} 50 '$ | +13 ${ }^{\circ} 20^{\prime}$ | $-05^{\circ} 26^{\prime}$ | $-22^{\circ} 23^{\prime}$ | +04 ${ }^{\circ} 24^{\prime}$ | $+23^{\circ} 01^{\prime}$ |
| Jan 152021 | -21 ${ }^{\circ} 04^{\prime}$ | -1903' | $-23^{\circ} 07^{\prime}$ | +13 ${ }^{\circ} 51^{\prime}$ | -19 ${ }^{\circ} 14$ | $-19^{\circ} 48^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05²5' | $-22^{\circ} 23^{\prime}$ | +04 ${ }^{\circ} 25^{\prime}$ | +23 ${ }^{\circ} 01^{\prime}$ |
| Jan 162021 | -2053' | -18 $31 '$ | $-23^{\circ} 05^{\prime}$ | +14 ${ }^{\circ} 02^{\prime}$ | -19 ${ }^{\circ} 10^{\prime}$ | $-19^{\circ} 47^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 24^{\prime}$ | $-22^{\circ} 22^{\prime}$ | +04 ${ }^{\circ} 25^{\prime}$ | $+23^{\circ} 00^{\prime}$ |
| Jan 172021 | -2041' | -170 57' | $-23^{\circ} 02^{\prime}$ | +14 ${ }^{\circ} 13^{\prime}$ | -19 07 | $-19^{\circ} 45^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 4^{\prime}$ | $-22^{\circ} 22^{\prime}$ | +04 ${ }^{\circ} 26^{\prime}$ | $+23^{\circ} 00^{\prime}$ |
| Jan 182021 | $-20^{\circ} 29^{\prime}$ | -17 ${ }^{\circ} 23^{\prime}$ | $-22^{\circ} 58{ }^{\prime}$ | +14²4' | -19 ${ }^{\circ} 04^{\prime}$ | $-19^{\circ} 43^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 23^{\prime}$ | $-22^{\circ} 22^{\prime}$ | +04 ${ }^{\circ} 26^{\prime}$ | $+22^{\circ} 59^{\prime}$ |
| Jan 192021 | -2017' | -16*48' | -22 ${ }^{\circ} 3^{\prime}$ | +14 ${ }^{\circ} 34^{\prime}$ | $-19^{\circ} 00^{\prime}$ | -19 ${ }^{\circ} 42^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | $-05^{\circ} 23^{\prime}$ | $-22^{\circ} 22^{\prime}$ | +04 ${ }^{\circ} 27^{\prime}$ | $+22^{\circ} 59^{\prime}$ |
| Jan 202021 | -2004' | -16¹3' | -22 ${ }^{\circ} 8^{\prime}$ | +14* $45^{\prime}$ | $-18^{\circ} 56$ | $-19^{\circ} 40$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 22^{\prime}$ | $-22^{\circ} 21^{\prime}$ | +04 ${ }^{\circ} 27^{\prime}$ | $+22^{\circ} 59^{\prime}$ |
| Jan 212021 | -19 ${ }^{\circ} 51$ | -15 ${ }^{\circ} 37$ | $-22^{\circ} 42^{\prime}$ | +14*56' | $-18^{\circ} 53^{\prime}$ | $-19^{\circ} 39^{\prime}$ | +13 ${ }^{\circ} 20^{\prime}$ | -05 ${ }^{\circ} 1^{\prime}$ | $-22^{\circ} 21^{\prime}$ | +04 ${ }^{\circ} 28^{\prime}$ | +22 ${ }^{\circ} 59^{\prime}$ |
| Jan 222021 | -19 ${ }^{\circ} 37$ | -15 $02{ }^{\prime}$ | $-22^{\circ} 35^{\prime}$ | +15 ${ }^{\circ} 06^{\prime}$ | -18² ${ }^{\prime}$ | $-19^{\circ} 37 \cdot$ | +13 ${ }^{\circ} 21^{\prime}$ | -05 ${ }^{\circ} 0^{\prime}$ | $-22^{\circ} 21^{\prime}$ | +04 ${ }^{\circ} 28^{\prime}$ | +22 ${ }^{\circ} 59$ |
| Jan 232021 | -19 ${ }^{\circ} 23^{\prime}$ | -14²0' | $-22^{\circ} 28^{\prime}$ | +15 ${ }^{\circ} 17^{\prime}$ | $-18^{\circ} 46^{\prime}$ | -19 ${ }^{\circ} 35^{\prime}$ | $+13^{\circ} 21^{\prime}$ | $-05^{\circ} 20^{\prime}$ | $-22^{\circ} 20^{\prime}$ | +04 ${ }^{\circ} 29^{\prime}$ | $+22^{\circ} 59^{\prime}$ |
| Jan 242021 | -19 ${ }^{\circ} 09^{\prime}$ | -1354' | $-22^{\circ} 20^{\prime}$ | +15 ${ }^{\circ} 28^{\prime}$ | -180 $42^{\prime}$ | $-19^{\circ} 34^{\prime}$ | +13 ${ }^{\circ} 21^{\prime}$ | $-05^{\circ} 19^{\prime}$ | $-22^{\circ} 20^{\prime}$ | +04 ${ }^{\circ} 30^{\prime}$ | +22 ${ }^{\circ} 59^{\prime}$ |
| Jan 252021 | -1854' | -13²1' | $-22^{\circ} 11^{\prime}$ | +15 ${ }^{\circ} 38^{\prime}$ | -18³9' | -19 ${ }^{\circ} 32^{\prime}$ | +13 ${ }^{\circ} 1^{\prime}$ | $-05^{\circ} 18^{\prime}$ | $-22^{\circ} 20^{\prime}$ | +04 ${ }^{\circ} 30^{\prime}$ | +22 ${ }^{\circ} 59^{\prime}$ |
| Jan 262021 | -18 ${ }^{\circ} 39^{\prime}$ | -1250' | $-22^{\circ} 02^{\prime}$ | +15* $49^{\prime}$ | -18³ ${ }^{\prime}$ | $-19^{\circ} 31^{\prime}$ | +13 ${ }^{\circ} 21^{\prime}$ | $-05^{\circ} 18^{\prime}$ | $-22^{\circ} 20^{\prime}$ | +04 ${ }^{\circ} 31^{\prime}$ | +22 ${ }^{\circ} 59$ |
| Jan 272021 | -18 ${ }^{\circ} 24^{\prime}$ | -12 $21^{\prime}$ | $-21^{\circ} 51{ }^{\prime}$ | +15 ${ }^{\circ} 59^{\prime}$ | -18³1' | $-19^{\circ} 29^{\prime}$ | +13 ${ }^{\circ} 22^{\prime}$ | -05 ${ }^{\circ} 17$ | $-22^{\circ} 19^{\prime}$ | +04 ${ }^{\circ} 32^{\prime}$ | +22 ${ }^{\circ} 5{ }^{\prime}$ |
| Jan 282021 | -18 ${ }^{\circ} 08^{\prime}$ | -1105 | $-21^{\circ} 41^{\prime}$ | +16 ${ }^{\circ} 10^{\prime}$ | -18²8' | $-19^{\circ} 27^{\prime}+$ | +13 ${ }^{\circ} 22^{\prime}$ | -05 ${ }^{\circ} 16^{\prime}$ | $-22^{\circ} 19^{\prime}$ | +04³2' | +22 ${ }^{\circ} 58^{\prime}$ |
| Jan 292021 | -17* $52 \cdot$ | -11³1' | $-21^{\circ} 29^{\prime}$ | +16 ${ }^{\circ} 20^{\prime}$ | -18²4' | -19 ${ }^{\circ} 26^{\prime}$ | +13 ${ }^{\circ} 22^{\prime}$ | $-05^{\circ} 16^{\prime}$ | $-22^{\circ} 19^{\prime}$ | +04 ${ }^{\circ} 33^{\prime}$ | +22 ${ }^{\circ} 58^{\prime}$ |
| Jan 302021 | -17* $35^{\prime}$ | -11¹1' | $-21^{\circ} 17^{\prime}$ | +16 ${ }^{\circ} 31^{\prime}$ | $-18^{\circ} 20^{\prime}$ | -19 ${ }^{\circ} 24^{\prime}$ | +13 ${ }^{\circ} 22^{\prime}$ | $-05^{\circ} 15^{\prime}$ | $-22^{\circ} 19^{\prime}$ | +04 ${ }^{\circ} 34^{\prime}$ | +22 ${ }^{\circ} 57$ |
| Jan 312021 | -17* $19^{\prime}$ | $-10^{\circ} 55$ | $-21^{\circ} 05^{\prime}$ | +16* $41^{\prime}$ | -180 $1^{\prime}$ | -19 ${ }^{\circ} 22^{\prime}$ | +13 ${ }^{\circ} 23^{\prime}$ | -05 ${ }^{\circ} 14^{\prime}$ | -22 ${ }^{\circ} 18^{\prime}$ | +04 ${ }^{\circ} 35^{\prime}$ | +22 ${ }^{\circ} 56^{\prime}$ |
| Feb 12021 | $-17^{\circ} 02 \cdot$ | -1043' | $-20^{\circ} 51^{\prime}$ | +16 ${ }^{\circ} 51^{\prime}$ | $-18^{\circ} 13^{\prime}$ | $-19^{\circ} 21^{\prime}$ | +13 ${ }^{\circ} 23^{\prime}$ | -05 ${ }^{\circ} 13^{\prime}$ | $-22^{\circ} 18^{\prime}$ | +04 ${ }^{\circ} 35^{\prime}$ | +22 ${ }^{\circ} 55^{\prime}$ |
| Feb 22021 | $-16^{\circ} 45^{\prime}$ | $-10^{\circ} 35^{\prime}$ | $-20^{\circ} 37 \cdot$ | +17 ${ }^{\circ} 02^{\prime}$ | $-18^{\circ} 09^{\prime}$ | -19 $19^{\prime}$ | +13 ${ }^{\circ} 23^{\prime}$ | $-05^{\circ} 13^{\prime}$ | $-22^{\circ} 18^{\prime}$ | +04 ${ }^{\circ} 36$ | +22 ${ }^{\circ} 55^{\prime}$ |
| Feb 32021 | -16 ${ }^{\circ} 27$ ' | $-10^{\circ} 31^{\prime}$ | $-20^{\circ} 23^{\prime}$ | +17* $12^{\prime}$ | $-18^{\circ} 05^{\prime}$ | -19 $17^{\prime}$ | +13 ${ }^{\circ} 24^{\prime}$ | -05 ${ }^{\circ} 12^{\prime}$ | $-22^{\circ} 18^{\prime}$ | +04 ${ }^{\circ} 37^{\prime}$ | $+22^{\circ} 54^{\prime}$ |
| Feb 42021 | -16 ${ }^{\circ} 9^{\prime}$ | $-10^{\circ} 32 \cdot$ | $-20^{\circ} 08^{\prime}$ | +17* $22^{\prime}$ | -1801' | $-19^{\circ} 16^{\prime}$ | +13 ${ }^{\circ} 24^{\prime}$ | $-05^{\circ} 11^{\prime}$ | $-22^{\circ} 17^{\prime}$ | +04 ${ }^{\circ} 38^{\prime}$ | +22 ${ }^{\circ} 54^{\prime}$ |
| Feb 52021 | -15 ${ }^{\circ} 1^{\prime}$ | -10037' | -19 $52^{\prime}$ | +17 ${ }^{\circ} 32^{\prime}$ | $-17^{\circ} 57$ | $-19^{\circ} 14^{\prime}$ | +13 ${ }^{\circ} 25^{\prime}$ | $-05^{\circ} 10$ | $-22^{\circ} 17^{\prime}$ | +04 ${ }^{\circ} 39^{\prime}$ | +22 ${ }^{\circ} 54^{\prime}$ |
| Feb 62021 | -15 ${ }^{\circ} 33^{\prime}$ | $-10^{\circ} 46$ | -19 ${ }^{\circ} 6^{\prime}$ | +17* $42^{\prime}$ | $-17^{\circ} 54$ | $-19^{\circ} 12^{\prime}$ | +13 ${ }^{\circ} 25^{\prime}$ | $-05^{\circ} 09^{\prime}$ | $-22^{\circ} 17$ | +04 ${ }^{\circ} 40^{\prime}$ | +22 ${ }^{\circ} 5{ }^{\prime}$ |
| Feb 72021 | -15 ${ }^{\circ} 14^{\prime}$ | -1059' | -19 ${ }^{\circ} 9^{\prime}$ | +17 ${ }^{\circ} 52^{\prime}$ | $-17^{\circ} 50^{\prime}$ | -19 $11^{\prime}$ | +13 ${ }^{\circ} 25^{\prime}$ | -05 ${ }^{\circ} 09^{\prime}$ | $-22^{\circ} 17^{\prime}$ | +04 ${ }^{\circ} 40^{\prime}$ | +22 ${ }^{\circ} 54{ }^{\prime}$ |
| Feb 82021 | -14*55' | -11 ${ }^{\circ} 15^{\prime}$ | $-19^{\circ} 01^{\prime}$ | +18 ${ }^{\circ} 02^{\prime}$ | $-17^{\circ} 46^{\prime}$ | -19 ${ }^{\circ} 09^{\prime}$ | +13 ${ }^{\circ} 26^{\prime}$ | -05 ${ }^{\circ} 08^{\prime}$ | $-22^{\circ} 16^{\prime}$ | +04 $41^{\prime}$ | $+22^{\circ} 54$ |
| Feb 92021 | -14*36' | -11033' | $-18^{\circ} 43^{\prime}$ | +18 ${ }^{\circ} 12^{\prime}$ | $-17^{\circ} 42^{\prime}$ | $-19^{\circ} 07^{\prime}$ | +13 ${ }^{\circ} 26^{\prime}$ | -05º ${ }^{\prime}$ | $-22^{\circ} 16^{\prime}$ | +04 ${ }^{\circ} 42^{\prime}$ | $+22^{\circ} 54^{\prime}$ |
| Feb 102021 | -14*16' | -110 53' | $-18^{\circ} 25^{\prime}$ | +18 ${ }^{\circ} 21^{\prime}$ | $-17^{\circ} 38^{\prime}$ | $-19^{\circ} 06^{\prime}$ | +13 ${ }^{\circ} 27^{\prime}$ | $-05^{\circ} 06^{\prime}$ | $-22^{\circ} 16^{\prime}$ | +04 $43^{\prime}$ | +22 ${ }^{\circ} 53^{\prime}$ |
| Feb 112021 | -13 ${ }^{\circ} 57$ | -12 ${ }^{\circ} 14{ }^{\prime}$ | $-18^{\circ} 06^{\prime}$ | +18 ${ }^{\circ} 31^{\prime}$ | $-17^{\circ} 34^{\prime}$ | -19 ${ }^{\circ} 04^{\prime}$ | +13 ${ }^{\circ} 27^{\prime}$ | -05 ${ }^{\circ} 05^{\prime}$ | $-22^{\circ} 16^{\prime}$ | +04${ }^{\circ} 44^{\prime}$ | +22 ${ }^{\circ} 52^{\prime}$ |
| Feb 122021 | -13 ${ }^{\circ} 37{ }^{\prime}$ | -12º $37{ }^{\prime}$ | $-17^{\circ} 46^{\prime}$ | +18 ${ }^{\circ} 41^{\prime}$ | $-17^{\circ} 30^{\prime}$ | $-19^{\circ} 02^{\prime}$ | +13 ${ }^{\circ} 28^{\prime}$ | -05 ${ }^{\circ} 04^{\prime}$ | $-22^{\circ} 15^{\prime}$ | +04² $5^{\prime}$ | $+22^{\circ} 51^{\prime}$ |
| Feb 132021 | -13 ${ }^{\circ} 17$ ' | -1259' | $-17^{\circ} 26^{\prime}$ | +18 ${ }^{\circ} 50^{\prime}$ | $-17^{\circ} 27^{\prime}$ | $-19^{\circ} 01^{\prime}$ | +13 ${ }^{\circ} 28^{\prime}$ | -05 ${ }^{\circ} 04^{\prime}$ | $-22^{\circ} 15^{\prime}$ | +04²6' | $+22^{\circ} 50$ |
| Feb 142021 | -12 ${ }^{\circ} 56^{\prime}$ | -13²1' | $-17^{\circ} 05^{\prime}$ | +19 ${ }^{\circ} 00^{\prime}$ | -17 ${ }^{\circ} 23^{\prime}$ | $-18^{\circ} 59^{\prime}$ | +13 ${ }^{\circ} 29^{\prime}$ | -05 ${ }^{\circ} 03^{\prime}$ | $-22^{\circ} 15^{\prime}$ | +04²7 ${ }^{\prime}$ | $+22^{\circ} 49^{\prime}$ |
| Feb 152021 | $-12^{\circ} 36$ | -130 ${ }^{\prime}$ | $-16^{\circ} 44^{\prime}$ | +19 ${ }^{\circ} 09^{\prime}$ | -17 ${ }^{\circ} 19^{\prime}$ | $-18^{\circ} 57 \cdot$ | +13 ${ }^{\circ} 29^{\prime}$ | -05 ${ }^{\circ} 02^{\prime}$ | $-22^{\circ} 15^{\prime}$ | +04 ${ }^{\circ} 48^{\prime}$ | +22 ${ }^{\circ} 48^{\prime}$ |
| Feb 162021 | -12 ${ }^{\circ} 15^{\prime}$ | -140 $0{ }^{\prime}$ | $-16^{\circ} 23^{\prime}$ | +19 ${ }^{\circ} 18^{\prime}$ | -17 ${ }^{\circ} 15^{\prime}$ | -18 $56 '$ | +13 ${ }^{\circ} 30^{\prime}$ | -05º ${ }^{\circ}$ | $-22^{\circ} 15^{\prime}$ | +04 ${ }^{\circ} 49^{\prime}$ | $+22^{\circ} 47^{\prime}$ |
| Feb 172021 | -11 ${ }^{\circ} 54 \cdot$ | $-14^{\circ} 22^{\prime}$ | -16 ${ }^{\circ} 1^{\prime}$ | +19 ${ }^{\circ} 28^{\prime}$ | -17 ${ }^{\circ} 11^{\prime}$ | $-18^{\circ} 54 '$ | $+13^{\circ} 30^{\prime}$ | -05 ${ }^{\circ} 00^{\prime}$ | $-22^{\circ} 14^{\prime}$ | +04 ${ }^{\circ} 50^{\prime}$ | $+22^{\circ} 47{ }^{\prime}$ |
| Feb 182021 | -11³3' | -14³9' | -15 ${ }^{\circ} 8^{\prime}$ | +19 ${ }^{\circ} 37^{\prime}$ | -170 07 | $-18^{\circ} 52 \cdot$ | +13 ${ }^{\circ} 31^{\prime}$ | $-04^{\circ} 59$ | $-22^{\circ} 14^{\prime}$ | +04 ${ }^{\circ} 51^{\prime}$ | +22 ${ }^{\circ} 46^{\prime}$ |
| Feb 192021 | -11 ${ }^{\circ} 11^{\prime}$ | -1456' | $-15^{\circ} 15^{\prime}$ | +19 ${ }^{\circ} 46^{\prime}$ | $-17^{\circ} 03^{\prime}$ | $-18^{\circ} 51 '$ | +13 ${ }^{\circ} 32^{\prime}$ | $-04^{\circ} 59^{\prime}$ | $-22^{\circ} 14^{\prime}$ | +04 ${ }^{\circ} 52^{\prime}$ | $+22^{\circ} 46^{\prime}$ |
| Feb 202021 | $-10^{\circ} 50 '$ | -15 ${ }^{\circ} 10^{\prime}$ | $-14^{\circ} 52^{\prime}$ | +19${ }^{\circ} 55^{\prime}$ | $-16^{\circ} 59^{\prime}$ | $-18^{\circ} 49^{\prime}$ | +13 ${ }^{\circ} 32^{\prime}$ | $-04^{\circ} 58$ | $-22^{\circ} 14^{\prime}$ | +04 ${ }^{\circ} 53^{\prime}$ | $+22^{\circ} 46^{\prime}$ |
| Feb 212021 | $-10^{\circ} 28^{\prime}$ | -15²3' | $-14^{\circ} 28^{\prime}$ | +20 ${ }^{\circ} 04^{\prime}$ | $-16^{\circ} 55^{\prime}$ | $-18^{\circ} 47^{\prime}$ | +13 ${ }^{\circ} 33^{\prime}$ | -04²57' | $-22^{\circ} 13^{\prime}$ | +04${ }^{\circ} 54^{\prime}$ | $+22^{\circ} 46^{\prime}$ |
| Feb 222021 | -1007' | -15 ${ }^{\circ} 34^{\prime}$ | $-14^{\circ} 04^{\prime}$ | +20 ${ }^{\circ} 12^{\prime}$ | $-16^{\circ} 51^{\prime}$ | $-18^{\circ} 46^{\prime}$ | +13 ${ }^{\circ} 33^{\prime}$ | $-04^{\circ} 56^{\prime}$ | $-22^{\circ} 13^{\prime}$ | +04${ }^{\circ} 55^{\prime}$ | $+22^{\circ} 46^{\prime}$ |
| Feb 232021 | -09 ${ }^{\circ} 45^{\prime}$ | -15²4' | $-13^{\circ} 40^{\prime}$ | +20 ${ }^{\circ} 21^{\prime}$ | $-16^{\circ} 47{ }^{\prime}$ | $-18^{\circ} 44^{\prime}$ | +13 ${ }^{\circ} 34^{\prime}$ | $-04^{\circ} 55^{\prime}$ | $-22^{\circ} 13^{\prime}$ | +04 ${ }^{\circ} 56^{\prime}$ | $+22^{\circ} 46^{\prime}$ |
| Feb 242021 | $-09^{\circ} 22^{\prime}$ | -15 ${ }^{\circ} 52^{\prime}$ | $-13^{\circ} 15^{\prime}$ | +20 ${ }^{\circ} 29^{\prime}$ | $-16^{\circ} 43^{\prime}$ | - $18^{\circ} 43^{\prime}$ | +13 ${ }^{\circ} 35^{\prime}$ | $-04^{\circ} 54^{\prime}$ | $-22^{\circ} 13^{\prime}$ | +04 ${ }^{\circ} 58^{\prime}$ | $+22^{\circ} 45^{\prime}$ |
| Feb 252021 | -09 ${ }^{\circ} 00^{\prime}$ | -1558' | -12** ${ }^{\circ}{ }^{\prime}$ | +20 ${ }^{\circ} 38^{\prime}$ | -16 ${ }^{\circ} 39^{\prime}$ | - $18^{\circ} 41^{\prime}+$ | +13 ${ }^{\circ} 36^{\prime}$ | -04 $53^{\prime}$ | $-22^{\circ} 13^{\prime}$ | +04 $59^{\prime}$ | +22 ${ }^{\circ} 44^{\prime}$ |
| Feb 262021 | -08º $38^{\prime}$ | -1602' | $-12^{\circ} 24^{\prime}$ | +2046' | -16³5' | -18³ $3{ }^{\prime}$ | +13 ${ }^{\circ} 36^{\prime}$ | -045 ${ }^{\prime}$ | $-22^{\circ} 13^{\prime}$ | +0500' | +22 ${ }^{\circ} 43^{\prime}$ |
| Feb 282021 | -07* $53{ }^{\prime}$ | -1606' | -11 ${ }^{\circ} 2^{\prime}$ | +21 ${ }^{\circ} 03^{\prime}$ | -16²7' | -18ํ36' | +13 ${ }^{\circ} 38^{\prime}$ | $-04^{\circ} 51^{\prime}$ | $-22^{\circ} 12^{\prime}$ | +05 $02^{\prime}$ | +22 ${ }^{\circ} 1^{\prime}$ |
| Mar 12021 | -07 ${ }^{\circ} 30^{\prime}$ | $-16^{\circ} 06{ }^{\prime}$ | $-11^{\circ} 05^{\prime}$ | +21 ${ }^{\circ} 11^{\prime}$ | $-16^{\circ} 23^{\prime}$ | $-18^{\circ} 35^{\prime}$ | +13 ${ }^{\circ} 38^{\prime}$ | -0450' | $-22^{\circ} 12^{\prime}$ | +05 ${ }^{\circ} 03^{\prime}$ | $+22^{\circ} 40^{\prime}$ |
| Mar 22021 | -07* $07{ }^{\prime}$ | -16 ${ }^{\circ} 4^{\prime}$ | $-10^{\circ} 38^{\prime}$ | +21 ${ }^{\circ} 18^{\prime}$ | $-16^{\circ} 19^{\prime}$ | $-18^{\circ} 33^{\prime}$ | +13 ${ }^{\circ} 39^{\prime}$ | -04²9' | $-22^{\circ} 12^{\prime}$ | +05 ${ }^{\circ} 04^{\prime}$ | +22 ${ }^{\circ} 39^{\prime}$ |
| Mar 32021 | -06²4' | $-16^{\circ} 00^{\prime}$ | -1011' | +21 ${ }^{\circ} 26^{\prime}$ | $-16^{\circ} 15^{\prime}$ | -18 ${ }^{\circ} 31^{\prime}$ | +13* $40^{\prime}$ | $-04^{\circ} 48^{\prime}$ | $-22^{\circ} 12^{\prime}$ | +05 ${ }^{\circ} 06^{\prime}$ | $+22^{\circ} 38^{\prime}$ |

$\left.\begin{array}{|c|c|c|c|c|c|c|c|c|c|c|c|}\hline \text { EST }+05: 00 & \text { Sun } & \text { Mercury } & \text { Venus } \\ \text { Tropical } \\ \text { Geocentric Decl }\end{array}\right)$

Mar 42021
Mar 52021
Mar 62021
Mar 72021
Mar 82021
Mar 92021
Mar 102021
Mar 112021
Mar 122021
Mar 132021
Mar 142021
Mar 152021
Mar 162021
Mar 172021
Mar 182021
Mar 192021
Mar 202021
Mar 212021
Mar 222021
Mar 232021
Mar 242021
Mar 252021
Mar 262021
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Mar 282021
Mar 292021
Mar 302021
Mar 312021
Apr 12021
Apr 22021
Apr 32021
Apr 42021
Apr 52021
Apr 62021
Apr 72021
Apr 82021
Apr 92021
Apr 102021
Apr 112021
Apr 122021
Apr 132021
Apr 142021
Apr 152021
Apr 162021
Apr 172021
Apr 182021
Apr 192021
Apr 202021
Apr 212021
Apr 222021
Apr 232021
Apr 242021
Apr 252021
Apr 262021
Apr 272021
Apr 282021
Apr 292021
Apr 302021
May 12021
May 22021
May 32021
May 42021


| EST +05:00 Tropical Geocentric Decl | $\begin{aligned} & \text { Sun } \\ & \odot \end{aligned}$ | $\underset{\ddagger}{\text { Mercury }}$ | $\begin{gathered} \text { Venus } \\ \stackrel{9}{9} \end{gathered}$ | Mars $\sigma^{\prime \prime}$ | Jupiter $4$ | $\begin{gathered} \text { Saturn } \\ \hbar \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Uranus } \\ \text { 炎 } \end{array}$ | $\begin{gathered} \text { septune } \\ \Psi \end{gathered}$ | $\begin{aligned} & \text { Pluto } \\ & \stackrel{\%}{\text { ¢ }} \end{aligned}$ | $\begin{gathered} \text { Chiron } \\ k \end{gathered}$ | $\begin{gathered} \text { True Node } \\ \AA \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May 52021 | +16 ${ }^{\circ}$ | +22 | +18 | +2440' | - $12^{\circ} 33^{\prime}$ | -170 $24 \cdot$ | +1443' | 8' | -22 |  | , |
| May 62021 | +1603 | '+22 ${ }^{\circ} 8^{\prime}$ | +19013 | +24 ${ }^{\circ} 38^{\prime}$ | -12 ${ }^{\circ}{ }^{\prime}$ | -170 $23^{\prime}$ | +14*44' | -0358' | -22 ${ }^{\circ} 12^{\prime}$ | +06 ${ }^{\circ} 8^{\prime}$ | +22 ${ }^{\circ} 5^{\prime}$ |
| May 72021 | +16 ${ }^{\circ}$ | ${ }^{\prime}+23^{\circ} 22^{\prime}$ | +1903 | +24³6' | - $12^{\circ} 28^{\prime}$ | -170 $23^{\prime}$ | +140 $45^{\prime}$ | -030 ${ }^{\circ}{ }^{\prime}$ | $-22^{\circ} 12^{\prime}$ | +06 | +2200 ${ }^{\prime}$ |
| May 82021 | +170 ${ }^{\circ}$ | + $23^{\circ} 43^{\prime}$ | +1905 | +24 ${ }^{\circ} 33^{\prime}$ | - $12^{\circ} 26^{\prime}$ | -170 $23 \cdot$ | +14046' | -0356' | -22¹2' | +06 ${ }^{\circ} 0^{\prime}$ | '+22 ${ }^{\circ} 4^{\prime}$ |
| May 92021 | +170 ${ }^{\circ}$ | + $24^{\circ} 02^{\prime}$ | $+20^{\circ} 0$ | +24³1' | - $12{ }^{\circ} 23^{\prime}$ | -170 $23^{\prime}$ | +14047' | --0356' | -22 ${ }^{\circ}$ | +06 ${ }^{\circ}{ }^{\prime}$ | +2200 ${ }^{\prime}$ |
| May 102021 | +17 | + $24^{\circ} 19^{\prime}$ |  | +24 ${ }^{\circ} 28^{\prime}$ | -1221' | - $17^{\circ} 22^{\prime}$ | +14048' | '-0355' |  | +06 ${ }^{\circ} 33^{\prime}$ | +2200 ${ }^{\prime}$ |
| May 112021 | +17 ${ }^{\circ}$ | + $24^{\circ} 33^{\prime}$ | +20 | 24 ${ }^{\circ} 25^{\prime}$ | - $12^{\circ} 19^{\prime}$ | -170 $22^{\prime}$ | +14049' | - -03 ${ }^{\circ} 55^{\prime}$ | -22 | +06³4' | +2203' |
| May 122021 | +18 ${ }^{\circ}$ | +24* ${ }^{\circ}{ }^{\prime}$ | +21 | 24 ${ }^{\circ} 21$ | - $12{ }^{\circ} 16^{\prime}$ | - $17^{\circ} 22^{\prime}$ | +14050' | - $03^{\circ} 54^{\prime}$ | -22¹3' | 06 ${ }^{\circ} 35^{\prime}$ | +2200 ${ }^{\prime}$ |
| May 132021 | +180 2 | +24*55' | +21 | 24*18' | -12 ${ }^{\circ} 14^{\prime}$ | -170 $22^{\prime}$ | +14*51' | --0354' | -22¹3' | +06³6' | +2200 ${ }^{\prime}$ |
| May 142021 | +180 $40{ }^{\prime}$ | + $25^{\circ} 03^{\prime}$ | +21932 | +24 $14^{\prime}$ | $-12^{\circ} 12^{\prime}$ | -170 $22^{\prime}$ | +14052' | -0353' | -22¹3' | +06³7' | +2202' |
| May 152021 | +18 ${ }^{\circ} 54{ }^{\prime}$ | + $25^{\circ} 08^{\prime}$ | +21 ${ }^{\circ} 47$ | +24 ${ }^{\circ} 11^{\prime}$ | -12 ${ }^{\circ} 10$ | $-17^{\circ} 21^{\prime}$ | +14 ${ }^{\circ} 53^{\prime}$ | ${ }^{\prime}-03^{\circ} 53^{\prime}$ | $-22^{\circ}$ | +06 ${ }^{\circ} 38^{\prime}$ | +220 03 |
| May 162021 | +19 ${ }^{\circ} 8$ | + $25^{\circ} 12^{\prime}$ | +2201 | +24 ${ }^{\circ} 07{ }^{\prime}$ | $-12^{\circ} 08^{\prime}$ | $-17^{\circ} 21^{\prime}$ | +14*54' | -0352' | $-22^{\circ}$ | +06 | +220 ${ }^{\circ}{ }^{\prime}$ |
| May 172021 | +19 ${ }^{\circ} 22$ | + $25^{\circ} 14^{\prime}$ | +22 ${ }^{\circ} 15$ | +24 ${ }^{\circ} 03^{\prime}$ | -12006' | - $17^{\circ} 21^{\prime}$ | +14055' | -0352' | -22 | +06 | +22003 |
| May 182021 | +19 ${ }^{\circ} 35$ | + $25^{\circ} 14{ }^{\prime}$ | +22 | +23 ${ }^{\circ} 58^{\prime}$ | -12004 | $-17^{\circ} 21^{\prime}$ | +14057' | -0351' | $-22^{\circ}$ | +060 42 | +22003' |
| May 192021 | +19048 | '+25 ${ }^{\circ} 13^{\prime}$ | +22 | +23 ${ }^{\circ} 54^{\prime}$ | -12002 | $-17^{\circ} 21^{\prime}$ | +14058' | -0351' | -22 ${ }^{\circ}$ | $+06^{\circ}$ | +22003' |
| May 202021 | $+20^{\circ}$ | + $+25^{\circ} 10^{\prime}$ | +2205 | +2309' | -1200' | -170 21 | +14059' | -030 ${ }^{\circ} 1^{\prime}$ | -22 ${ }^{\circ}$ | +06 | +2200 ${ }^{\prime}$ |
| May 212021 | +20 13 | +25 ${ }^{\circ} 5^{\prime}$ | +23003 | +23045' | -1158' | $-17^{\circ} 21^{\prime}$ | +15 ${ }^{\circ} 00^{\prime}$ | - $03^{\circ} 50^{\prime}$ | -22 ${ }^{\circ} 15$ | +06 ${ }^{\circ}$ | +2200 ${ }^{\prime}$ |
| May 222021 | $+20^{\circ} 25$ | + $+24^{\circ} 59^{\prime}$ | +23 13 | +2300' | -11057' | $-17^{\circ} 22^{\prime}$ | +15 ${ }^{\circ} 11^{\prime}$ | -03 ${ }^{\circ} 50^{\prime}$ | $-22^{\circ} 1$ | +06 | +2203' |
| May 232021 | +20 3 | + $24^{\circ} 52^{\prime}$ | +23 ${ }^{\circ} 23$ | +23³5' | - $11^{\circ} 55^{\prime}$ | - $17^{\circ} 22^{\prime}$ | +1502' | - $-03^{\circ} 49^{\prime}$ | -22 | +06 | +2203' |
| May 242021 | +20 ${ }^{\circ} 48$ | ${ }^{\prime}+24^{\circ} 43^{\prime}$ | +23 ${ }^{\circ}$ | +23 $30^{\prime}$ | -11 ${ }^{\circ} 54^{\prime}$ | -170 $22^{\prime}$ | +15 ${ }^{\circ} 3^{\prime}$ | -0349' | $-22^{\circ} 1$ | +0648' | +2203' |
| May 252021 | +20 ${ }^{\circ}$ | + $24^{\circ} 33^{\prime}$ | $+23^{\circ} 40$ | +23²4' | -11 ${ }^{\circ} 2^{\prime}$ | - $17^{\circ} 22^{\prime}$ | +15 ${ }^{\circ} 04^{\prime}$ | -0349' | $-22^{\circ}$ | +06 | +2200 ${ }^{\prime}$ |
| May 262021 | $+21^{\circ} 0$ | + $24^{\circ} 22^{\prime}$ | +23048 | +23 ${ }^{\circ} 19^{\prime}$ | -11 ${ }^{\circ} 11^{\prime}$ | - $17^{\circ} 22^{\prime}$ | +15 $05^{\prime}$ | -030 ${ }^{\text {¢ }}$ | -22 |  | +2203 ${ }^{\prime}$ |
| May 272021 | +21 ${ }^{\circ}$ | + $24^{\circ} 10^{\prime}$ | +23 ${ }^{\circ} 5$ | +23 ${ }^{\circ} 13^{\prime}$ | -110949' | -170 $22^{\prime}$ | +15 $06^{\prime}$ | '-0348' | -22 |  | +22003' |
| May 282021 | +21 ${ }^{\circ} 29$ | + $23^{\circ} 56^{\prime}$ | $+24^{\circ} 0$ | +23007' | -11048' | -17023' | +15007' | '-0348' | -22 | +06 ${ }^{\circ} 52^{\prime}$ | +22003' |
| May 292021 | +21 ${ }^{\circ} 38$ | +23 ${ }^{\circ} 42^{\prime}$ | $+24^{\circ} 0$ | +23 ${ }^{\circ} 1^{\prime}$ | -11047' | - $17^{\circ} 23^{\prime}$ | +15 ${ }^{\circ} 8^{\prime}$ | '-030 $47^{\prime}$ | -22 | +06 ${ }^{\circ} 3^{\prime}$ | +22003' |
| May 302021 | $+21^{\circ} 4$ | +23 ${ }^{\circ} 27^{\prime}$ | +24 ${ }^{\circ}$ | +22 ${ }^{\circ} 55^{\prime}$ | $-11^{\circ} 45^{\prime}$ | - $17^{\circ} 23^{\prime}$ | +1509' | '-030 $47^{\prime}$ | $-22^{\circ}$ |  | +22 ${ }^{\circ} 3^{\prime}$ |
| May 312021 | +21 ${ }^{\circ} 56$ | '+23 ${ }^{\circ} 11^{\prime}$ | +24 | +22 ${ }^{\circ} 49^{\prime}$ | -11044' | -17 ${ }^{\circ} 24^{\prime}$ | +15 ${ }^{\circ} 10^{\prime}$ | '-030 $47^{\prime}$ | -22 |  | +2200 ${ }^{\prime}$ |
| Jun 12021 | $+22^{\circ}$ | + $+22^{\circ} 54^{\prime}$ | +24 | +22 ${ }^{\circ} 42^{\prime}$ | -110 $43^{\prime}$ | -17 ${ }^{\circ} 24^{\prime}$ | +15 ${ }^{\circ} 10^{\prime}$ | -0346' | -22 ${ }^{\circ}$ | +06 | +2203' |
| Jun 22021 | +22 ${ }^{\circ}$ | +22 ${ }^{\circ} 37^{\prime}$ | +24 ${ }^{\circ}$ | +22 ${ }^{\circ} 35^{\prime}$ | -11 ${ }^{\circ} 42^{\prime}$ | -170 $24^{\prime}$ | +15 ${ }^{\circ} 11^{\prime}$ | '-0346' | $-22^{\circ}$ | +06 | +22003' |
| Jun 32021 | +220 2 | '+22 ${ }^{\circ} 19^{\prime}$ | +24 ${ }^{\circ}$ | +22 ${ }^{\circ} 29^{\prime}$ | -11*41 | - $17^{\circ} 25^{\prime}$ | +15 ${ }^{\circ} 12^{\prime}$ | -0346' | -22 | +06 | +220 03 |
| Jun 42021 | $+22^{\circ} 27$ | + $+22^{\circ} 01^{\prime}$ | $+24^{\circ} 25$ | +22 ${ }^{\circ} 22^{\prime}$ | -110 40 | -170 ${ }^{\circ} 5^{\prime}$ | +15 ${ }^{\circ} 13^{\prime}$ | -0346' | -22 | +06 | +22003 |
| Jun 52021 | +22 ${ }^{\circ} 33^{\prime}$ | + $21^{\circ} 42^{\prime}$ | $+24^{\circ} 26$ | +22 ${ }^{\circ} 15^{\prime}$ | -11 ${ }^{\circ} 39^{\prime}$ | -170 $26^{\prime}$ | +15 ${ }^{\circ} 14^{\prime}$ | -0345' | $-22^{\circ} 19^{\prime}$ | +06 ${ }^{\circ} 59$ | + $+22^{\circ} 03^{\prime}$ |
| Jun 62021 | +22 ${ }^{\circ} 40^{\prime}$ | ${ }^{\prime}+21^{\circ} 24^{\prime}$ | $+24^{\circ} 25$ | +22007' | -11³9' | -170 $26^{\prime}$ | +15 ${ }^{\circ} 15^{\prime}$ | -0345' | $-22^{\circ} 19^{\prime}$ | +060 $59{ }^{\prime}$ | + $+22^{\circ} 03^{\prime}$ |
| Jun 72021 | +22 ${ }^{\circ} 46^{\prime}$ | +21 ${ }^{\circ} 05^{\prime}$ | $+24^{\circ} 25$ | +22 ${ }^{\circ} 00^{\prime}$ | -11³8' | -17027' | +15 ${ }^{\circ} 16^{\prime}$ | '-0345' | $-22^{\circ} 20^{\prime}$ | +07 ${ }^{\circ} 00^{\prime}$ | + $+22^{\circ} 03^{\prime}$ |
| Jun 82021 | +22 ${ }^{\circ} 1^{\prime}$ | ' $+20^{\circ} 47^{\prime}$ | +24 ${ }^{\circ} 23$ | +21 ${ }^{\circ} 52^{\prime}$ | -11 ${ }^{\circ} 37$ | - $17^{\circ} 27^{\prime}$ | +15017' | -0345' | $-22^{\circ} 20$ | +07 | +22 ${ }^{\circ} 3^{\prime}$ |
| Jun 92021 | +22 ${ }^{\circ} 56^{\prime}$ | + $20^{\circ} 29^{\prime}$ | +24 ${ }^{\circ} 21$ | +21 ${ }^{\circ} 45^{\prime}$ | - $11^{\circ} 37{ }^{\prime}$ | - $17^{\circ} 28^{\prime}$ | +15 ${ }^{\circ} 18^{\prime}$ | -0345' | -22 | +0702' | +22 ${ }^{\circ} 3^{\prime}$ |
| Jun 102021 | +23 ${ }^{\circ} 1^{\prime}$ | ${ }^{\prime}+20^{\circ} 11^{\prime}$ | +24* $18^{\prime}$ | +21 ${ }^{\circ} 37$ | - $11^{\circ} 36^{\prime}$ | - $17^{\circ} 28^{\prime}$ | +15 ${ }^{\circ} 19^{\prime}$ | -0344' | -22 | +0702' | +2203 ${ }^{\prime}$ |
| Jun 112021 | +2305' | '+190 $54{ }^{\prime}$ | +24 ${ }^{\circ} 14^{\prime}$ | +21 ${ }^{\circ} 29^{\prime}$ | -11 ${ }^{\circ} 36^{\prime}$ | - $17^{\circ} 29^{\prime}$ | +15 $20^{\prime}$ | -0344' | -22 | +07 | +2203' |
| Jun 122021 | +2309' | +19038' | +24 ${ }^{\circ} 09$ | $+21^{\circ} 21$ | - $11^{\circ} 35{ }^{\prime}$ | -17 $30^{\prime}$ | +15 $20^{\prime}$ | -0344' | $-22^{\circ}$ | +070 | +2203' |
| Jun 132021 | +23 ${ }^{\circ} 13^{\prime}$ | '+190 $24{ }^{\prime}$ | +24004 | +21 ${ }^{\circ} 12^{\prime}$ | - $11^{\circ} 35{ }^{\prime}$ | - $17^{\circ} 30^{\prime}$ | +15 $21{ }^{\prime}$ | '-0344' | -22 ${ }^{\circ} 22^{\prime}$ | +070 ${ }^{\prime}$ | +2200 ${ }^{\prime}$ |
| Jun 142021 | +23 ${ }^{\circ} 16$ | '+190 $10^{\prime}$ | +23058 | +21 ${ }^{\circ} 04{ }^{\prime}$ | - $11^{\circ} 35{ }^{\prime}$ | - $17^{\circ} 31{ }^{\prime}$ | +15022' | -0344' | $-22^{\circ}$ | +070 $05^{\prime}$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 152021 | +23 1 | ${ }^{\prime}+18^{\circ} 57^{\prime}$ | +2305 | +20 ${ }^{\circ} 55^{\prime}$ | - $11^{\circ} 35^{\prime}$ | - $17^{\circ} 32^{\prime}$ | +15 ${ }^{\circ} 23^{\prime}$ | -0344' | $-22^{\circ} 2$ | +07 | + $+22^{\circ} 02^{\prime}$ |
| Jun 162021 | +23 ${ }^{\circ}$ | '+180 $\mathbf{}^{\prime}$ ' | +23045 | +2047' | - $11^{\circ} 35^{\prime}$ | - $17^{\circ} 33^{\prime}$ | +15 $24^{\prime}$ | -0344' | -220 2 | +0 | + $+22^{\circ} 02^{\prime}$ |
| Jun 172021 | +23 22 | + $18^{\circ} 37{ }^{\prime}$ | +23037 | +20 $38^{\prime}$ | - $11^{\circ} 35{ }^{\prime}$ | - $17^{\circ} 33^{\prime}$ | +15 $25^{\prime}$ | '-0344' | -220 2 | +0707' | +2200 ${ }^{\prime}$ |
| Jun 182021 | +23 ${ }^{\circ}$ | +18²9' | +23 ${ }^{\circ}$ | +20²9' | - $11^{\circ} 35{ }^{\prime}$ | - $17^{\circ} 34^{\prime}$ | +15 $25^{\prime}$ | '-0344' | -22 ${ }^{\circ} 23^{\prime}$ | +070 $08^{\prime}$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 192021 | +23 2 | ${ }^{\prime}+18^{\circ} 23^{\prime}$ | +23 ${ }^{\circ}$ | $+20^{\circ} 20^{\prime}$ | - $11^{\circ} 35{ }^{\prime}$ | - $17^{\circ} 35^{\prime}$ | + $15^{\circ} 26^{\prime}$ | -0344' | -22 | +070 $08^{\prime}+$ | +2202' |
| Jun 202021 | +23 ${ }^{\circ}$ | +180 ${ }^{\circ}{ }^{\prime}$ | $+23^{\circ} 0$ | $+20^{\circ} 11$ | - $11^{\circ} 35^{\prime}$ | - $17^{\circ} 36^{\prime}$ | +15 $27{ }^{\prime}$ | -0344' | -22 | +070 $09^{\prime}+$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 212021 | +230 2 | ${ }^{\prime}+18^{\circ} 16^{\prime}$ | +22 | +20 011 | - $11^{\circ} 35^{\prime}$ | -17037' | +15 $28^{\prime}$ | -0344' | -22 | +070 $09^{\prime}+$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 222021 | +23 ${ }^{\circ} 25$ | + $+18^{\circ} 15^{\prime}$ | +22047 | +19 ${ }^{\circ} 2^{\prime}$ | -11³6' | - $17^{\circ} 38^{\prime}$ | +15 ${ }^{\circ} 29^{\prime}$ | -0344' | $-22^{\circ} 25^{\prime}$ | +07* $10^{\prime}$ | +22 ${ }^{\circ}{ }^{\prime}$ |
| Jun 232021 | +23 ${ }^{\circ} 25^{\prime}$ | '+18 ${ }^{\circ} 16^{\prime}$ | +22 35 | +19 ${ }^{\circ} 42^{\prime}$ | -11 ${ }^{\circ} 36^{\prime}$ | - $17^{\circ} 38^{\prime}$ | +15 $5^{\circ} 29^{\prime}$ | -0344' | $-22^{\circ} 25^{\prime}$ | +07 ${ }^{\circ} 10^{\prime}$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 242021 | +23²4' | +180 $18^{\prime}$ | +22 ${ }^{\circ} 2$ | +19 ${ }^{\circ} 2^{\prime}$ | -11³7' | - $17^{\circ} 39^{\prime}$ | +15 $30^{\prime}$ | '-0344' | $-22^{\circ} 25^{\prime}$ | +07º $11^{\prime}$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 252021 | +23²2' | + $18^{\circ} 23^{\prime}$ | +22 09 | +19 ${ }^{\circ} 22^{\prime}$ | -11³7' | -170 $40^{\prime}$ | +15 $31{ }^{\prime}$ | '-0344' | $-22^{\circ} 26^{\prime}$ | +07011' | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 262021 | +23²0' | + $18^{\circ} 28^{\prime}$ | +21 ${ }^{\circ} 55$ | +19 ${ }^{\circ} 12^{\prime}$ | -11 ${ }^{\circ} 38^{\prime}$ | -17041' | +15 $32{ }^{\prime}$ | -0344' | $-22^{\circ} 26^{\prime}$ | +07 $12^{\prime}$ | +22 ${ }^{\circ} 2^{\prime}$ |
| Jun 272021 | +23 ${ }^{\circ} 18^{\prime}$ | ${ }^{\prime}+18^{\circ} 35^{\prime}$ | +21041 | +19 ${ }^{\circ} 2^{\prime}$ | -11 ${ }^{\circ} 38^{\prime}$ | -170 $42^{\prime}$ | +15 $32^{\prime}$ | -0344' | $-22^{\circ} 26^{\prime}$ | +07 $12^{\prime}$ | +22 ${ }^{\circ} 1^{\prime}$ |
| Jun 282021 | +23 ${ }^{\circ} 15^{\prime}$ | ${ }^{\prime}+18^{\circ} 44^{\prime}$ | +21 ${ }^{\circ} 26$ | +18 ${ }^{\circ} 2^{\prime}$ | - $11^{\circ} 39^{\prime}$ | -170 $43^{\prime}$ | +15 ${ }^{\circ} 33^{\prime}$ | -0344' | $-22^{\circ} 27^{\prime}$ | +07 $13^{\prime}$ | +22 ${ }^{\circ} 1{ }^{\prime}$ |
| Jun 292021 | +23 ${ }^{\circ} 12^{\prime}$ | '+18054' | +21010 | +180 ${ }^{\prime}{ }^{\prime}$ | - $11^{\circ} 40^{\prime}$ | - $17^{\circ} 44^{\prime}$ | +15 $34^{\prime}$ | -0344' | -22 ${ }^{\circ} 27^{\prime}$ | +07013' | $+22^{\circ} 00^{\prime}$ |
| Jun 302021 | +2309' | +19004' | +20 ${ }^{\circ} 5{ }^{\prime}$ | +18031' | - $11^{\circ} 41^{\prime}$ | -170 $45^{\prime}$ | + $15^{\circ} 34^{\prime}$ | '-0344' | $-22^{\circ} 27$ | +07 ${ }^{\circ} 14^{\prime}$ | $+22^{\circ} 00^{\prime}$ |
| Jul 12021 | +23 ${ }^{\circ} 5^{\prime}$ | '+190 $16^{\prime}$ | +20 ${ }^{\circ} 37$ | +18020' | -11 ${ }^{\circ} 42^{\prime}$ | -170 $46^{\prime}$ | +15 $35^{\prime}$ | '-0344' | $-22^{\circ} 28^{\prime}$ | +07 ${ }^{\circ} 14^{\prime}$ | $+22^{\circ} 00^{\prime}$ |
| Jul 22021 | +23 ${ }^{\circ} 1^{\prime}$ | $\prime+19^{\circ} 29^{\prime}$ | $+20^{\circ} 20$ | +1809' | -11 ${ }^{\circ} 43^{\prime}$ | -170 $47^{\prime}$ | +15 $36^{\prime}$ | '-0344' | $-22^{\circ} 28^{\prime}$ | +07 ${ }^{\circ} 14^{\prime}+$ | +22 ${ }^{\circ} 00^{\prime}$ |
| Jul 32021 | +22 ${ }^{\circ} 6^{\prime}$ | '+190 ${ }^{\prime} 3^{\prime}$ | +20 02 | +17059' | -11 ${ }^{\circ} 44^{\prime}$ | -170 $49^{\prime}$ | +15 $36^{\prime}$ | '-0344' | $-22^{\circ} 29^{\prime}$ | +07¹5' | +22 ${ }^{\circ} 00^{\prime}$ |
| Jul 42021 | +22 | + $+19^{\circ} 57^{\prime}$ | +19 ${ }^{\circ} 43$ | +170 $48^{\prime}$ | - $11^{\circ} 45^{\prime}$ | - $17^{\circ} 50^{\prime}$ | +15 37 | -03 $44^{\prime}$ | -22²9 | +07 ${ }^{\circ}$ | $+22^{\circ} 00^{\prime}$ |
| Jul 52021 | $+22^{\circ} 45^{\prime}$ | ' $+20^{\circ} 11^{\prime}$ |  |  |  |  |  | '-0345' | $-22^{\circ} 29^{\prime}$ |  | $+22^{\circ} 00^{\prime}$ |

$\left.\begin{array}{|c|c|c|c|c|c|c|c|c|c|c|c|}\hline \text { EST }+05: 00 & \text { Sun } & \text { Mercury } & \text { Venus } \\ \text { Tropical } \\ \text { Geocentric Decl }\end{array}\right)$

Jul 62021
Jul 72021 Jul 82021 Jul 92021 Jul 102021 Jul 112021 Jul 122021 Jul 132021 Jul 142021 Jul 152021 Jul 162021 Jul 172021 Jul 182021 Jul 192021 Jul 202021 Jul 212021 Jul 222021 Jul 232021 Jul 242021 Jul 252021 Jul 262021 Jul 272021 Jul 282021 Jul 292021 Jul 302021 Jul 312021
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Sep 42021
Sep 52021

|  | ${ }^{\circ}$ | +19 ${ }^{\circ}$ | $17^{\circ} 25$ | 1147' | -17․ 52 | +15 ${ }^{\circ} 38^{\prime}$ | -030 ${ }^{\prime}$ | -22 | 07 | $+22^{\circ} 00^{\prime}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +22 | +20 | +18 | +170 14 |  | -170 53 | +15 $39^{\prime}$ | 0345' |  | ' | +22 ${ }^{\circ} 00^{\prime}$ |
| +22 ${ }^{\circ} 6^{\prime}$ | +20 ${ }^{\circ} 57$ | +1802 | 1702' | -11050' | $-17^{\circ} 54{ }^{\prime}$ | +15 ${ }^{\circ} 39^{\prime}$ | -030 $45{ }^{\prime}$ |  | ' | +22 ${ }^{\circ} 00^{\prime}$ |
| +22 ${ }^{\circ} 19^{\prime}$ | +21 ${ }^{\circ} 11^{\prime}$ | +1803' | +1651' | -11052' | $-17^{\circ} 55^{\prime}$ | +150 $40^{\prime}$ | -030 45 | -22 | 07¹6' | +22 ${ }^{\circ} 00^{\prime}$ |
| +22 ${ }^{\circ} 12^{\prime}$ | +21 ${ }^{\circ} 26$ | +17 ${ }^{\circ}$ | +16³9' | -11*53' | -17057' | +15²1 ${ }^{\prime}$ | 03 ${ }^{\circ} 46^{\prime}$ | -22 | 6' | +21 ${ }^{\circ} 59^{\prime}$ |
| +22 ${ }^{\circ} 04$ | +21 ${ }^{\circ} 40^{\prime}$ | +170 $19^{\prime}$ | +16²7' | -11055' | $-17^{\circ} 58^{\prime}$ | +15*41' | 0346' | -22 | 07¹6' | +21 ${ }^{\circ} 58^{\prime}$ |
| +21 ${ }^{\circ} 56^{\prime}$ | +21 ${ }^{\circ} 53^{\prime}$ | +16057' | +16 ${ }^{\circ} 15^{\prime}$ | -1156' | $-17^{\circ} 59^{\prime}$ | +15 ${ }^{\circ} 2^{\prime}$ | 03 ${ }^{\circ} 46^{\prime}$ | -22 | 07¹7' | +21 ${ }^{\circ} 57^{\prime}$ |
| +21 ${ }^{\circ}$ | +22006 | +16 ${ }^{\circ} 34^{\prime}$ | $16^{\circ} 03^{\prime}$ | -1158' | $-18^{\circ} 00^{\prime}$ | +150 $42^{\prime}$ | 03 ${ }^{\circ} 46^{\prime}$ | -2232' | 07 | +21 ${ }^{\circ} 56$ |
| +21 ${ }^{\circ} 38^{\prime}$ | +22 ${ }^{\circ} 17$ | +16 | - | $-12^{\circ} 00 \cdot$ | -18001 | +150 ${ }^{\circ}$ | -030 $47{ }^{\prime}$ | -22 | +07 | +21 ${ }^{\circ} 56^{\prime}$ |
| +21 ${ }^{\circ} 29^{\prime}$ | +22 ${ }^{\circ} 27$ | +150 | 1539' | -12002' | -18003 | +15 43 | 03 $3^{\circ} 4{ }^{\prime}$ |  |  | ' |
| +210 ${ }^{\circ}{ }^{\prime}$ | +22 ${ }^{\circ} 6^{\prime}$ | +15 ${ }^{\circ}$ | $15^{\circ} 27$ | -12 ${ }^{\circ} \mathbf{4}^{\prime}$ | $-18^{\circ} 04^{\prime}$ | +15 $44^{\prime}$ | 030 $47^{\prime}$ | -22 |  | $4^{\prime}$ |
| +21 ${ }^{\circ} 09^{\prime}$ | +22 ${ }^{\circ} 43^{\prime}$ | +14 ${ }^{\circ}$ | +15 ${ }^{\circ} 14$ | -12006' | $-18^{\circ} 05^{\prime}$ | +15 ${ }^{\circ}$ | -03 $47^{\prime}$ |  |  | ' |
| +20 ${ }^{\circ} 58^{\prime}$ | +220 48 | +14 ${ }^{\circ}$ | +15 ${ }^{\circ} 2^{\prime}$ | -12008' | $-18^{\circ} 06^{\prime}$ | +150 ${ }^{\circ}$ | -03048' |  |  | $4^{\prime}$ |
| +20 ${ }^{\circ} 48^{\prime}$ | +22 5 | +14 | +14 | -12 ${ }^{\circ} 10$ |  | $+15^{\circ} 4$ |  |  |  |  |
| +20 | +220 | +13 | +14 37 | -12 ${ }^{\circ} 12$ |  | +15 ${ }^{\circ}$ | -03048' |  |  |  |
| +20 | +22049 | +13 |  | 12 ${ }^{\circ} 14^{\prime}$ | $-18^{\circ} 10^{\prime}$ | +15 ${ }^{\circ}$ | -0349' |  |  |  |
| +20 | +22045 | +12 ${ }^{\circ}$ | - | $-12^{\circ} 16^{\prime}$ | $-18^{\circ} 12^{\prime}$ | $+15^{\circ} 4$ | -0349' |  |  | 54' |
| +20 | +22 ${ }^{\circ} 8^{\prime}$ | +120 2 | +1358' | -12 ${ }^{\circ} 8^{\prime}$ | $-18^{\circ} 13^{\prime}$ | $+15^{\circ} 4$ | -03*49' |  |  | 54' |
| +19 | +22 ${ }^{\circ} 29$ | +1105 | +130 45 | -12021' | $-18^{\circ} 14^{\prime}$ | +15 ${ }^{\circ}$ | -0350' |  |  | ' |
| +19 | +22 ${ }^{\circ} 17^{\prime}$ | +11 ${ }^{\circ} 29$ | +13 ${ }^{\circ} 3^{\prime}$ | -120 $23{ }^{\prime}$ | -180 $15^{\prime}$ | $+15^{\circ}$ | -0350' |  | +07 ${ }^{1} 6^{\prime}$ | 1' |
| +19 | +22 ${ }^{\circ} 2^{\prime}$ | +11 ${ }^{\circ} 02{ }^{\prime}$ | +13 ${ }^{\circ} 19^{\prime}$ | -120 $25^{\prime}$ | $-18^{\circ} 17^{\prime}$ | +15 ${ }^{\circ} 48^{\prime}$ | -0351' | -22 | +07 $16^{\prime}$ | $+21^{\circ} 50^{\prime}$ |
| +19 ${ }^{\circ}$ | +21 ${ }^{\circ} 45^{\prime}$ | +10 ${ }^{\circ} 34^{\prime}$ | +1305' | -12 $28^{\prime}$ | $-18^{\circ} 18^{\prime}$ | +15 ${ }^{\circ} 48^{\prime}$ | -0351' | $-22^{\circ} 3$ | 07 ${ }^{\circ} 16^{\prime}$ | +21 ${ }^{\circ} 49^{\prime}$ |
| +180 ${ }^{\circ}$ | +21 ${ }^{\circ} 25^{\prime}$ | +10 $0^{\circ} 0{ }^{\prime}$ | +120 $52^{\prime}$ | -12 ${ }^{\circ} 30^{\prime}$ | $-18^{\circ} 19^{\prime}$ | +1549' | -0351' | $-22^{\circ} 3$ | -07 $16^{\prime}$ | + $21^{\circ} 48^{\prime}$ |
| +18 | +21 ${ }^{\circ} 02^{\prime}$ | +09 38 | +12 ${ }^{\circ} 8^{\prime}$ | -12³3' | -18 $8^{\circ} 1^{\prime}$ | +1549' | -0352' | -22 ${ }^{\circ}$ | -07016' | +21 ${ }^{\circ} 47^{\prime}$ |
| +1802 | +20 37 | +09 ${ }^{\circ} 09^{\prime}$ | +12 ${ }^{\circ} 5^{\prime}$ | -12 ${ }^{\circ} 35^{\prime}$ | $-18^{\circ} 22^{\prime}$ | +1549' | -0352' | -2238' | +07¹6' | +21 ${ }^{\circ} 46^{\prime}$ |
| +18 ${ }^{\circ}$ | +20 ${ }^{\circ} 10^{\prime}$ | +080 40 | 12011' | -12 ${ }^{\circ} 38^{\prime}$ | $-18^{\circ} 23^{\prime}$ | +15*49' | -0353' | -22 ${ }^{\circ}$ | +07 ${ }^{\circ}$ | +21 ${ }^{\circ} 46^{\prime}$ |
| +17 | +19 ${ }^{\circ} 41$ | +08 ${ }^{\circ}$ | +11 ${ }^{\circ} 57$ | -120 40 | $-18^{\circ} 25^{\prime}$ | +15 ${ }^{\circ} 0^{\prime}$ | -0353' | $-22^{\circ} 3$ | +07 | +21 ${ }^{\circ} 46^{\prime}$ |
| +17 | +19 ${ }^{\circ} 09$ | +07 | 110 44 | -120 $43^{\prime}$ | $-18^{\circ} 26^{\prime}$ | +15 ${ }^{\circ} 50$ | -03 ${ }^{\circ} 54^{\prime}$ |  |  | ${ }^{\prime}$ |
| +17 | +18 ${ }^{\circ} 6^{\prime}$ | +07 | $11^{\circ} 30$ | $-12^{\circ} 45^{\prime}$ | $-18^{\circ} 27^{\prime}$ | +15050 | -03 ${ }^{\circ} 4^{\prime}$ |  |  | ${ }^{\prime}$ |
| +17 | +1802 | +06 ${ }^{\circ}$ | $11^{1} 1$ | -12048' | $-18^{\circ} 28^{\prime}$ | +15 50 | -0355' | -22 |  | ${ }^{\prime}$ |
| +16 | +170 25 | +06 | +11 ${ }^{\circ} 02$ | -12 ${ }^{\circ} 1$ | -18 ${ }^{\circ}$ | +150 5 | -0355' | -22 |  | ${ }^{\prime}$ |
| +1 | +16 ${ }^{\circ}$ | +05 | +1048' | $-12^{\circ} 5$ | -1 | +15 ${ }^{\circ}$ | -03 ${ }^{\circ} 56{ }^{\prime}$ |  |  | +21 ${ }^{\circ} 45^{\prime}$ |
| +16 | +16009 | +05 | +10 ${ }^{\circ} 34^{\prime}$ | $-12^{\circ} 5$ | - $18^{\circ} 32^{\prime}$ | +15 ${ }^{\circ}$ | -0356' |  |  |  |
| +16 | +15 ${ }^{\circ} 29$ | +04 | $10^{\circ} 1$ | $12^{\circ} 5$ | -18 ${ }^{\circ}$ | +15 | -03 57 |  |  | 2 |
| +15 | +14099 | +04*13 | +1005' | - $13^{\circ} 02^{\prime}$ | -183․ | +15 ${ }^{\circ}$ | -0357' |  |  | $0^{\prime}$ |
| +150 2 | +1407 ${ }^{\circ}$ | +03* 42 | +09 ${ }^{\circ} 1^{\prime}$ | - $13^{\circ} 05^{\prime}$ | - $18^{\circ} 36^{\prime}$ | +15 ${ }^{\circ}$ | -0358' | -22 |  | ' |
| +15 | +13 ${ }^{\circ} 25^{\prime}$ | +03 12 | +0936' | -13007' | -1837' | +15 5 | -0358' |  |  |  |
| +14 ${ }^{\circ}$ | +12 ${ }^{\circ} 42^{\prime}$ | +020 4 | +09 ${ }^{\circ} 22^{\prime}$ | -130 $10^{\prime}$ | -18 ${ }^{\circ} 38^{\prime}$ | +15 ${ }^{\circ} 52^{\prime}$ | -03 ${ }^{\circ} 59^{\prime}$ |  |  | + $+21^{\circ} 36^{\prime}$ |
| +14 ${ }^{\circ}$ | +11 ${ }^{\circ} 59$ | +02 ${ }^{\circ} 11^{\prime}$ | +09 $07^{\prime}$ | - $13^{\circ} 13^{\prime}$ | $-18^{\circ} 40^{\prime}$ | +15 ${ }^{\circ} 52^{\prime}$ | -0359' | -220 | +07 ${ }^{\circ} 10^{\prime}$ | + $+21^{\circ} 35^{\prime}$ |
| +14* ${ }^{\circ}$ | +11 ${ }^{\circ} 15^{\prime}$ | +01* 40 | +0852' | - $13^{\circ} 16^{\prime}$ | -18041' | + $+15^{\circ} 52^{\prime}$ | -04 ${ }^{\circ} 00^{\prime}$ | $-22^{\circ} 4$ | +07 ${ }^{\circ} 10^{\prime}$ | '+21 ${ }^{\circ} 34^{\prime}$ |
| +130 5 | +10 31 | +01 ${ }^{\circ} 09{ }^{\prime}$ | +08³8' | -13 $19^{\prime}$ | -18²2' | +15 ${ }^{\circ} 52^{\prime}$ | -04*00' | $-22^{\circ} 4$ | +070 $09^{\prime}$ | + $+21^{\circ} 34^{\prime}$ |
| +13 ${ }^{\circ}{ }^{\prime}$ | +09 ${ }^{\circ} 6^{\prime}$ | $+00^{\circ} 38^{\prime}$ | +08²3' | - $13^{\circ} 21^{\prime}$ | -1843' | +15 ${ }^{\circ} 52^{\prime}$ | -04 $01{ }^{\prime}$ | $-22^{\circ} 4$ | +0709 ${ }^{\prime}$ | + $+21^{\circ} 34^{\prime}$ |
| +13 ${ }^{\circ} 20$ | +0902' | +00 $07{ }^{\prime}$ | +0808' | -13²4' | -18* $44^{\prime}$ | +15 ${ }^{\circ} 52^{\prime}$ | -04002' | $-22^{\circ} 4$ | 0708' | '+21 ${ }^{\circ} 34^{\prime}$ |
| +13 | +08¹7' | -00²3' | +070 $53^{\prime}$ | -13027' | -180 $46^{\prime}$ | + $15^{\circ} 52^{\prime}$ | -04002' | -220 | -0707' | '+21 ${ }^{\circ} 34^{\prime}$ |
| +12 | +07 $33^{\prime}$ | -0054' | +07³9' | $-13^{\circ} 30^{\prime}$ | -18* $47^{\prime}$ | +15 $5^{\circ} 2^{\prime}$ | -0403' | $-22^{\circ} 4$ | -0707' | +21 ${ }^{\circ} 33^{\prime}$ |
| +12 | +060 $48^{\prime}$ | -01 ${ }^{\circ} 25^{\prime}$ | +07º $24{ }^{\prime}$ | 13³3' | $-18^{\circ} 48^{\prime}$ | +15 ${ }^{\circ} 2^{\prime}$ | -0403' | $-22^{\circ} 4$ | -0706 | +21 ${ }^{\circ} 32^{\prime}$ |
| +12 | +06 ${ }^{\circ} 3^{\prime}$ | -0156 | +0709' | $-13^{\circ} 36^{\prime}$ | $-18^{\circ} 49^{\prime}$ | +15 ${ }^{\circ} 2^{\prime}$ | -0404' | $-22^{\circ} 4$ | 05' | +21 ${ }^{\circ} 1^{\prime}$ |
|  | +05 ${ }^{\circ} 1{ }^{\prime}$ | -02 ${ }^{\circ} 26$ | +06 ${ }^{\circ} 4^{\prime}$ | $-13^{\circ} 38^{\prime}$ | $-18^{\circ} 50^{\prime}$ | +150 $52^{\prime}$ | -04 ${ }^{\circ} 05^{\prime}$ | $-22^{\circ}$ |  | +21 ${ }^{\circ} 29^{\prime}$ |
|  | +0435' | -0257 | +06³8' | -13041' | $-18^{\circ} 5$ | + $+15^{\circ} 52^{\prime}$ | -04*05' | -220 |  | +21 ${ }^{\circ} 27^{\prime}$ |
|  | +03 ${ }^{\circ} 1^{\prime}$ | -03 | +06²3' | -130 $44^{\prime}$ | -18 | + $15^{\circ} 52^{\prime}$ | -04*06 | -22 | +070 $03^{\prime}$ | +21 ${ }^{\circ} 25^{\prime}$ |
| +10 | +0307 | -03 | +0600 | -13047' | -185 | +150 5 | -04*06 | -2 | +0703' | + $21^{\circ} 23$ |
| +10 | +02 ${ }^{\circ} 23^{\prime}$ | -04 | 05 ${ }^{\circ}$ | -13*49' | -1805 | +15 5 | -04007' | -22 | +070 $0{ }^{\prime}$ | + $21^{\circ} 21^{\prime}$ |
| +09 ${ }^{\circ} 9^{\prime}$ | +01* 40 | -05 | - | -130 $52{ }^{\prime}$ | $-18^{\circ} 5$ | +15 ${ }^{\circ}$ | -04008' | -22 | +0701' | $1^{\circ} 20^{\prime}$ |
| +09 ${ }^{\circ} 37$ | +00 57 | -05 | 05 22 | - $13^{\circ} 55^{\prime}$ | -1805 | +15 ${ }^{\circ}$ | -0408' | $-22^{\circ}$ |  | +21 ${ }^{\circ} 20^{\prime}$ |
| +09 ${ }^{\circ} 16$ | +00 ${ }^{\circ} 15^{\prime}$ | -06 ${ }^{\circ} 01$ | +05 ${ }^{\circ} 7^{\prime}$ | - $13^{\circ} 57^{\prime}$ | -18 $8^{\circ} 58^{\prime}$ | +15 ${ }^{\circ}$ | -04 ${ }^{\circ} 09^{\prime}$ | -22 ${ }^{\circ} 47^{\prime}$ | +07 | +21 ${ }^{\circ} 20^{\prime}$ |
| +08ํ.55' | -00 $26{ }^{\prime}$ | -06³2' | +04 ${ }^{\circ} 52^{\prime}$ | -1400' | -1859' | +15 ${ }^{\circ} 51$ | -04* ${ }^{\circ} 0^{\prime}$ | -220 $47{ }^{\prime}$ | +06 ${ }^{\circ} 59^{\prime}$ | +21 ${ }^{\circ} 20^{\prime}$ |
| +08 ${ }^{\circ} 3{ }^{\prime}$ | -01 ${ }^{\circ} 08^{\prime}$ | -0702' | +04 ${ }^{\circ} 36^{\prime}$ | - $14^{\circ} 03^{\prime}$ | -18 ${ }^{\circ} 59^{\prime}$ | +15 ${ }^{\circ} 51$ | -04*10' | $-22^{\circ} 47^{\prime}$ | +06 ${ }^{\circ} 58^{\prime}$ | +21 ${ }^{1} 19^{\prime}$ |
| +08 ${ }^{\circ} 11$ | -01*49' | -07³2' | +04 ${ }^{\circ} 21$ | -1405' | - $19^{\circ} 00^{\prime}$ | +15 ${ }^{\circ} 51$ | -04*11' | $-22^{\circ} 48^{\prime}$ | +06 ${ }^{\circ} 57^{\prime}$ | + $21^{\circ} 19^{\prime}$ |
| +070 50 | -02²9' | -0802' | +0405' | - $14^{\circ} 08^{\prime}$ | -19 ${ }^{\circ} 11^{\prime}$ | + $+15^{\circ} 51$ | -04*11' | $-22^{\circ} 48^{\prime}$ | 0656' | +21 ${ }^{\circ} 19^{\prime}$ |
| +070 28 | -0309' | -0832' | +0350' | $-14^{\circ} 10^{\prime}$ | -19 ${ }^{\circ} 2^{\prime}$ | + $15^{\circ} 50^{\prime}$ | -04*12' | $-22^{\circ} 48^{\prime}$ | $6^{\circ} 55^{\prime}$ | + $21^{\circ} 18^{\prime}$ |
| 06 | -03048' | -09 | +03³4' | - $14^{\circ} 13^{\prime}$ | -19 03 ${ }^{\prime}$ | + $15^{\circ} 50^{\prime}$ | -04¹3' | - |  | +21 ${ }^{1} 16^{\prime}$ |
|  |  |  |  |  |  |  |  |  |  |  |

$+22^{\circ} 26^{\prime}+20^{\circ} 57^{\prime}+18^{\circ} 24^{\prime}+17^{\circ} 02^{\prime}-11^{\circ} 50^{\prime}-17^{\circ} 54^{\prime}+15^{\circ} 39^{\prime}-03^{\circ} 45^{\prime}-22^{\circ} 30^{\prime}+07^{\circ} 16^{\prime}+22^{\circ} 00^{\prime}$ $+22^{\circ} 19^{\prime}+21^{\circ} 11^{\prime}+18^{\circ} 03^{\prime}+16^{\circ} 51^{\prime}-11^{\circ} 52^{\prime}-17^{\circ} 55^{\prime}+15^{\circ} 40^{\prime}-03^{\circ} 45^{\prime}-22^{\circ} 31^{\prime}+07^{\circ} 16^{\prime}+22^{\circ} 00^{\prime}$ $+22^{\circ} 12^{\prime}+21^{\circ} 26^{\prime}+17^{\circ} 41^{\prime}+16^{\circ} 39^{\prime}-11^{\circ} 53^{\prime}-17^{\circ} 57^{\prime}+15^{\circ} 41^{\prime}-03^{\circ} 46^{\prime}-22^{\circ} 31^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 59^{\prime}$ $+22^{\circ} 04^{\prime}+21^{\circ} 40^{\prime}+17^{\circ} 19^{\prime}+16^{\circ} 27^{\prime}-11^{\circ} 55^{\prime}-17^{\circ} 58^{\prime}+15^{\circ} 41^{\prime}-03^{\circ} 46^{\prime}-22^{\circ} 31^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 58^{\prime}$ $+21^{\circ} 56^{\prime}+21^{\circ} 53^{\prime}+16^{\circ} 57^{\prime}+16^{\circ} 15^{\prime}-11^{\circ} 56^{\prime}-17^{\circ} 59^{\prime}+15^{\circ} 42^{\prime}-03^{\circ} 46^{\prime}-22^{\circ} 32^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 57^{\prime}$ $+21^{\circ} 47^{\prime}+22^{\circ} 06^{\prime}+16^{\circ} 34^{\prime}+16^{\circ} 03^{\prime}-11^{\circ} 58^{\prime}-18^{\circ} 00^{\prime}+15^{\circ} 42^{\prime}-03^{\circ} 46^{\prime}-22^{\circ} 32^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 56^{\prime}$ $+21^{\circ} 38^{\prime}+22^{\circ} 17^{\prime}+16^{\circ} 11^{\prime}+15^{\circ} 51^{\prime}-12^{\circ} 00^{\prime}-18^{\circ} 01^{\prime}+15^{\circ} 43^{\prime}-03^{\circ} 47^{\prime}-22^{\circ} 33^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 56^{\prime}$ $+21^{\circ} 29^{\prime}+22^{\circ} 27^{\prime}+15^{\circ} 47^{\prime}+15^{\circ} 39^{\prime}-12^{\circ} 02^{\prime}-18^{\circ} 03^{\prime}+15^{\circ} 43^{\prime}-03^{\circ} 47^{\prime}-22^{\circ} 33^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 55^{\prime}$ $+21^{\circ} 19^{\prime}+22^{\circ} 36^{\prime}+15^{\circ} 23^{\prime}+15^{\circ} 27^{\prime}-12^{\circ} 04^{\prime}-18^{\circ} 04^{\prime}+15^{\circ} 44^{\prime}-03^{\circ} 47^{\prime}-22^{\circ} 33^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 54^{\prime}$ $+21^{\circ} 09^{\prime}+22^{\circ} 43^{\prime}+14^{\circ} 58^{\prime}+15^{\circ} 14^{\prime}-12^{\circ} 06^{\prime}-18^{\circ} 05^{\prime}+15^{\circ} 44^{\prime}-03^{\circ} 47^{\prime}-22^{\circ} 34^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 54^{\prime}$ $+20^{\circ} 58^{\prime}+22^{\circ} 48^{\prime}+14^{\circ} 33^{\prime}+15^{\circ} 02^{\prime}-12^{\circ} 08^{\prime}-18^{\circ} 06^{\prime}+15^{\circ} 45^{\prime}-03^{\circ} 48^{\prime}-22^{\circ} 34^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 54^{\prime}$ $-22^{\circ} 34^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 54^{\prime}$ $22^{\circ} 35^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 55^{\prime}$ ${ }^{2}{ }^{\circ}+07^{\circ} 17^{\prime}+21^{\circ} 55^{\prime}$ $-22^{\circ} 36^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 54^{\prime}$ $-22^{\circ} 36^{\prime}+07^{\circ} 17^{\prime}+21^{\circ} 53^{\prime}$ $-22^{\circ} 36^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 51^{\prime}$ $-22^{\circ} 37^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 49^{\prime}$ $-22^{\circ} 37^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 48^{\prime}$ $-22^{\circ} 38^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 47^{\prime}$ $-22^{\circ} 38^{\prime}+07^{\circ} 16^{\prime}+21^{\circ} 46^{\prime}$ $-22^{\circ} 38^{\prime}+07^{\circ} 15^{\prime}+21^{\circ} 46^{\prime}$ $-22^{\circ} 39^{\prime}+07^{\circ} 15^{\prime}+21^{\circ} 46^{\prime}$ $-22^{\circ} 39^{\prime}+07^{\circ} 14^{\prime}+21^{\circ} 46^{\prime}$ $-22^{\circ} 40^{\prime}+07^{\circ} 14^{\prime}+21^{\circ} 46^{\prime}$ $-22^{\circ} 40^{\prime}+07^{\circ} 14^{\prime}+21^{\circ} 46^{\prime}$ $22^{4} 40^{\prime}+07^{\circ} 13^{\prime}+21^{\circ} 45$ $-22^{\circ} 41^{\prime}+07^{\circ} 13^{\prime}+21^{\circ} 42^{\prime}$ $-22^{\circ} 41^{\prime}+07^{\circ} 12^{\prime}+21^{\circ} 40^{\prime}$ $-22^{\circ} 42^{\prime}+07^{\circ} 12^{\prime}+21^{\circ} 39^{\prime}$ $-22^{\circ} 42^{\prime}+07^{\circ} 11^{\prime}+21^{\circ} 37^{\prime}$ $-22^{\circ} 43^{\prime}+07^{\circ} 10^{\prime}+21^{\circ} 35^{\prime}$ $-22^{\circ} 43^{\prime}+07^{\circ} 10^{\prime}+21^{\circ} 34^{\prime}$ $-22^{\circ} 43^{\prime}+07^{\circ} 09^{\prime}+21^{\circ} 34^{\prime}$ $-22^{\circ} 44^{\prime}+07^{\circ} 09^{\prime}+21^{\circ} 34^{\prime}$ $2^{\circ} 44^{\prime}+07^{\circ} 08^{\prime}+21^{\circ} 34^{\prime}$ $-22^{\circ} 44^{\prime}+07^{\circ} 07^{\prime}+21^{\circ} 33^{\prime}$ $-22^{\circ} 45^{\prime}+07^{\circ} 06^{\prime}+21^{\circ} 32^{\prime}$ $-22^{\circ} 45^{\prime}+07^{\circ} 05^{\prime}+21^{\circ} 31^{\prime}$ $-22^{\circ} 45^{\prime}+07^{\circ} 05^{\prime}+21^{\circ} 29^{\prime}$ $-22^{\circ} 45^{\prime}+07^{\circ} 04^{\prime}+21^{\circ} 27^{\prime}$ $2^{\circ} 46^{\prime}+07^{\circ} 03^{\prime}+21^{\circ} 25^{\prime}$ $-22^{\circ} 46^{\prime}+07^{\circ} 02^{\prime}+21^{\circ} 21^{\prime}$ $-22^{\circ} 46^{\prime}+07^{\circ} 01^{\prime}+21^{\circ} 20^{\prime}$ $-22^{\circ} 47^{\prime}+07^{\circ} 00^{\prime}+21^{\circ} 20^{\prime}$ $2247+0700^{+}+21^{1} 20$ $-22^{\circ} 47^{\prime}+06^{\circ} 58^{\prime}+21^{\circ} 19^{\prime}$ $-22^{\circ} 48^{\prime}+06^{\circ} 57^{\prime}+21^{\circ} 19^{\prime}$ $-22^{\circ} 48^{\prime}+06^{\circ} 56^{\prime}+21^{\circ} 19^{\prime}$ $-22^{\circ} 48^{\prime}+06^{\circ} 55^{\prime}+21^{\circ} 18^{\prime}$ $-22^{\circ} 48^{\prime}+06^{\circ} 54^{\prime}+21^{\circ} 14^{\prime}$

| Tropical Geocentric De | Sun $\bigodot$ | rcury 草 | Venus + | Mars | ter | Saturn | Uranus | Neptune | $\begin{aligned} & \text { Pluto } \\ & \text { \% } \end{aligned}$ | Chiron | $\begin{gathered} \mathrm{eN} \\ \Omega \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sep 62021 |  |  |  |  |  |  |  |  |  |  |  |
| 21 | +05 ${ }^{\circ}$ | -05 ${ }^{\circ} 1^{\prime}$ | $-10^{\circ} 29^{\prime}$ | +02 ${ }^{\circ} 47^{\prime}$ |  |  | +15 $5^{\circ} 4$ |  | -2 |  |  |
| Sep 82021 | +05 ${ }^{\circ}$ | -06¹8' | $-10^{\circ} 58{ }^{\prime}$ | +02 32 | -14 $22^{\prime}$ |  | +15 |  |  |  |  |
| Sep 92021 | +05 | -0653' | 11 ${ }^{\circ} 27{ }^{\prime}$ | +02 |  |  |  |  |  |  | 7' |
| Sep 102021 |  |  |  |  |  |  | +15 |  |  |  |  |
| Sep 112021 | +04 ${ }^{\circ} 28^{\prime}$ | -0801' |  |  |  | $-19^{\circ} 09^{\prime}$ | +15 | $17^{\prime}$ |  |  |  |
| Sep 122021 | +0405' | -08³3' | -12 |  |  |  |  | $-04^{\circ} 18^{\prime}$ |  |  |  |
| Sep 132021 | +03 $42{ }^{\prime}$ | -09 $04^{\prime}$ | $-13^{\circ} 19^{\prime}$ |  |  |  | +159 $48^{\prime}$ | -0419' | -2 | 0646 | 04' |
| Sep 142021 | +03 $19^{\prime}$ | -09³4' | -13047 | +00 ${ }^{\circ} 57$ |  |  | +15 ${ }^{\circ} 47^{\prime}$ | -04*19' |  | 06 | 21 ${ }^{\circ} 04^{\prime}$ |
| Sep 152021 | +02 ${ }^{\circ} 56{ }^{\prime}$ | -1003' | -14 ${ }^{\circ} 14^{\prime}$ | +00 |  |  | +15 ${ }^{\circ} 47$ | $-04^{\circ} 20^{\prime}$ |  | +06044 | 04' |
| Sep 162021 | +02 ${ }^{\circ} 33^{\prime}$ | $-10^{\circ} 30^{\prime}$ | $-14^{\circ} 40^{\prime}$ | +00 ${ }^{\circ} 26^{\prime}$ |  | -19 | +15 ${ }^{\circ} 46^{\prime}$ | -04 ${ }^{\circ} 21^{\prime}$ | -22 | +060 $43^{\prime}$ | 3' |
| Sep 172021 | +02 ${ }^{\circ} 10^{\prime}$ | $-10^{\circ} 56$ | -1507' | +00 ${ }^{\circ} 10^{\prime}$ | -14*41 |  | +15 | -04 ${ }^{\circ} 21^{\prime}$ | -22 | +06*42' | +21 ${ }^{\circ} 03^{\prime}$ |
| Sep 182021 | +01* ${ }^{\circ}$ | $-11^{\circ} 20^{\prime}$ | -15³3' | 00 | - |  |  | -04 $22^{\prime}$ | -22 |  | 1' |
| Sep 192021 | +01 ${ }^{\circ} 23^{\prime}$ | -11 ${ }^{\circ} 43^{\prime}$ | -15 | 00 | 14 | -19 | +15 | -04*23' | -22 | +06*40' | +20 ${ }^{\circ} 59^{\prime}$ |
| Sep 202021 | +01 ${ }^{\circ} 00$ | -12003' | -16 | 00 | 14 | -19 |  | -04 ${ }^{\circ} 23^{\prime}$ | -22 | +06³9' | +20 ${ }^{\circ} 7^{\prime}$ |
| Sep 212021 | +00 ${ }^{\circ} 37$ | $-12^{\circ} 22^{\prime}$ | -16 ${ }^{\circ} 5$ | -00 ${ }^{\circ} 3^{\prime}$ | $14^{\circ} 48^{\prime}$ | 19 |  | -04*24' | -22 | +06³8' | ' |
| Sep 222021 | +00 ${ }^{\circ} 13^{\prime}$ | $-12^{\circ} 38^{\prime}$ | -1715 | -01 ${ }^{\circ} 08^{\prime}$ | -14*49 | -19 |  | -04*25' | -22 |  | 53' |
| Sep 232021 | -00 09 | -120 $52^{\prime}$ | -17 ${ }^{\circ} 39$ | -01 24 | $14^{\circ} 5$ | -19 |  | $-04^{\circ} 25^{\prime}$ |  |  | 51' |
| 2021 | -00 32 | -1300 ${ }^{\prime}$ | -18003 | -010 40 | $14^{\circ} 5$ |  |  | -04²6' |  |  |  |
| Sep 252021 | -00 ${ }^{\circ} 5$ | -13 ${ }^{\circ} 12^{\prime}$ | -18027 | 01 | -14 ${ }^{\circ} 54^{\prime}$ | $-19^{\circ} 17^{\prime}$ |  | -04 ${ }^{\circ} 27^{\prime}$ | -22 |  |  |
| 2021 | -01 | -13 ${ }^{\circ} 18^{\prime \prime}$ | -18 ${ }^{\circ}$ | -02 ${ }^{\circ}$ | -14 $55^{\prime}$ |  |  | -04 ${ }^{\circ} 27^{\prime}$ |  |  | 50' |
| p 272021 | -01 | $-13^{\circ} 20^{\prime}$ | -19 | - | -14 ${ }^{\circ} 56^{\prime}$ |  |  | 28 |  |  | 50' |
| Sep 282021 | -02 | -13019' |  |  |  |  |  | 28' |  |  | $+20^{\circ} 50^{\prime}$ |
| Sep 292021 | -02 | -1 |  |  |  |  |  | -04²9' |  |  | $+20^{\circ} 50^{\prime}$ |
| Sep 302021 | -02 | -13 | -20 |  | - |  | +1 | - |  |  | +20 $0^{\circ}$ |
| Oct 12021 | -03 | -12 | -20 | -03 | -15 | -19 ${ }^{\circ} 19^{\prime}$ | +15 | - | -22052' | +06 ${ }^{\circ} 27$ | +20 ${ }^{\circ} 49^{\prime}$ |
| 21 | -03 | -12 ${ }^{\circ} 35^{\prime}$ | -21 | -03 | 15 | $-19^{\circ} 19^{\prime}$ | +15 | -0 |  | +06²6' | 8' |
| Oct 32021 | -04 | -120 ${ }^{\prime}{ }^{\prime}$ | -2 | -04 | -1500 | $-19^{\circ} 19^{\prime}$ | +15 | -04*32' |  | +060 $25^{\prime}$ | ' |
| Oct 42021 | -04 ${ }^{\circ} 25^{\prime}$ | -11 ${ }^{\circ} 46^{\prime}$ | -2 | -04 ${ }^{\circ} 18^{\prime}$ | -15 ${ }^{\circ} 04^{\prime}$ | $-19^{\circ} 20^{\prime}$ | +15 | -0432' |  | +06 ${ }^{\circ} 23^{\prime}$ | ' |
| Oct 52021 | -04*48' | -11 ${ }^{\circ} 16^{\prime}$ | -2 | -04 ${ }^{\circ} 34^{\prime}$ | $-15^{\circ} 05^{\prime}$ | -1 | +1 | -0433' | -2 |  | 44' |
| Oct 62021 | -05 ${ }^{\circ} 11^{\prime}$ | -1041' | $-22^{\circ} 18^{\prime}$ | -04 ${ }^{\circ} 50^{\prime}$ | -15 ${ }^{\circ} 05^{\prime}$ | -1 | +1 | -04 ${ }^{\circ} 33^{\prime}$ | -2 |  | 42' |
| Oct 72021 | -05 $34^{\prime}$ | -1002' | -22 ${ }^{\circ} 36^{\prime}$ | -05 ${ }^{\circ} 5^{\prime}$ | -15 $06^{\prime}$ | - |  | -04³ $34^{\prime}$ | -22 |  | $+20^{\circ} 41^{\prime}$ |
| Oct 82021 | -05 $57{ }^{\prime}$ | -09 $21{ }^{\prime}$ | $-22^{\circ} 54{ }^{\prime}$ | -05 $21{ }^{\prime}$ | -15 ${ }^{\circ} 06^{\prime}$ | -1 | +15 ${ }^{\circ} 35$ | -0434' | -22 | +06 ${ }^{\circ} 19^{\prime}$ | $+20^{\circ} 40^{\prime}$ |
| Oct 92021 | -06²0' | -08³7' | -23 | -05³6' | -15007 | -1 | +15 ${ }^{\circ} 5^{\prime}$ | -04*35 | -22 |  | $+20^{\circ} 40^{\prime}$ |
| Oct 102021 | -0643' | -0752' | $-23^{\circ} 28^{\prime}$ | -05 $52{ }^{\prime}$ | $-15^{\circ} 07^{\prime}$ |  |  | -04 ${ }^{\circ}$ | -22 |  | $+20^{\circ} 40^{\prime}$ |
| Oct 112021 | -07005 | -0707 | -23*44' | -0600 ${ }^{\prime}$ | -15 $08^{\prime}$ | $-19^{\circ} 20^{\prime}$ | +1 | -04³6' | -22 |  | $+20^{\circ} 40^{\prime}$ |
| Oct 122021 | $-07^{\circ} 28$ | -060 $23{ }^{\prime}$ | -23 | $06^{\circ} 23^{\prime}$ | $15^{\circ} 08{ }^{\prime}$ |  | +15 ${ }^{\circ}$ | $-04^{\circ} 37^{\prime}$ | $-22^{\circ} 53^{\prime}$ |  | $+20^{\circ} 40^{\prime}$ |
| ct 132021 | -07* | -05 $41{ }^{\prime}$ | -2 | 06³9 | $5^{\circ} 08$ |  |  | -0437' | -2 |  | $+20^{\circ} 40^{\prime}$ |
| ct 142021 | -08 ${ }^{\circ}$ | -0502' | -2 | -0654' | -15 $09^{\prime}$ |  |  | ' |  |  | $+20^{\circ} 40^{\prime}$ |
| 152021 | -08 | -04 ${ }^{\circ} 28^{\prime}$ | - | $-07^{\circ} 10^{\prime}$ | -15 $09^{\prime}$ |  |  | -04³8' |  |  |  |
| ct 162021 | -08든 | -03 |  |  | -15009' |  |  | -04³9' |  |  |  |
| 2021 | -09 ${ }^{\circ}$ | -03³3' | -2 |  |  |  |  | - |  |  | 37' |
| Oct 182021 | -090 | -03 $14{ }^{\prime}$ | - |  |  |  |  | -04ㄴ |  |  | ' |
| Oct 192021 | $-10^{\circ} 0$ | -03 ${ }^{\circ}$ | -25 32 | -08 | - |  | +15 | -04*40 |  |  | $5^{\prime}$ |
| Oct 202021 | $-10^{\circ}$ | -02 ${ }^{\circ} 4^{\prime}$ | -25 | $-08^{\circ} 26^{\prime}$ | -1508 |  | +15 | -0441' |  | +060 $05^{\prime}$ | ' |
| Oct 212021 | -10 | -02 ${ }^{\circ} 2^{\prime}$ | -25 53 | -08* | -15 |  | +15 | -0441' | - | +06004' | ' |
| Oct 222021 | -11 ${ }^{\circ}$ | -02 ${ }^{\circ} 56^{\prime}$ | -26 | -08 | -15 |  | +15 | -04* $42^{\prime}$ | -2 | +060 03 | 2032' |
| Oct 232021 | -11 ${ }^{\circ} 2$ | -0304' | -26 | -09 ${ }^{\circ} 12^{\prime}$ | -1500 |  |  | -04*42' |  | +06 $02{ }^{\prime}$ | 2032' |
| Oct 242021 | -11 ${ }^{\circ} 49^{\prime}$ | -03017' | $-26^{\circ} 20$ | -09 ${ }^{\circ} 27$ | -150 |  |  | -0443' | -22 |  | 2032' |
| Oct 252021 | -12009' | -03³4' | $-26^{\circ} 28$ | -09²2 | -1500 | 19 |  | -04* $43^{\prime}$ | -22 | $+06^{\circ}$ | +2032' |
| Oct 262021 | $-12^{\circ} 30 \cdot$ | -03 $55^{\prime}$ | -26 ${ }^{\circ}{ }^{\prime}$ | 09 ${ }^{\circ} 56$ | $-15^{\circ} 05^{\prime}$ | -19 | +15 $5^{\circ} 23$ | -04*44' | -22 ${ }^{\circ}$ | $5^{\circ}$ | +20³3' |
| Oct 272021 | -12 ${ }^{\circ} 50^{\prime}$ | -04* ${ }^{\circ} 9^{\prime}$ | -26 ${ }^{\circ} 1$ | -1011 | $-15^{\circ} 05$ | -19 | +15 $5^{\circ} 22$ | -04*44' | -22 ${ }^{\circ}$ | ${ }^{\circ}$ | +20³3' |
| Oct 282021 | -13 $11{ }^{\prime}$ | -04ㄴ46' | -2647 | $-10^{\circ} 26$ | $15^{\circ} 04$ | $19^{\circ}$ | +1502 | $-04^{\circ} 44^{\prime}$ | $-22^{\circ} 5$ |  | 20³3' |
| Oct 292021 | $-13^{\circ} 30^{\prime}$ | -05 ${ }^{\circ} 15^{\prime}$ | $-26^{\circ} 53^{\prime}$ | $10^{\circ} 41$ | $15^{\circ} 03$ | $10^{\circ}$ |  | $-04^{\circ} 45^{\prime}$ | -22 ${ }^{\circ}$ |  | 20³3' |
| Oct 302021 | -13050 | -05* 47 | $-26^{\circ} 58^{\prime}$ | $10^{\circ} 5$ | $15^{\circ} 02$ | $1{ }^{\circ}$ | ${ }^{\circ} 2$ | -04* ${ }^{\circ}$ | $-22^{\circ} 5$ |  | $0^{\circ} 33^{\prime}$ |
| Oct 312021 | $-14^{\circ} 10$ | -060 ${ }^{\circ} 0^{\prime}$ | -2702 | $11^{\circ} 1$ | $15^{\circ} 01$ |  |  | $-04^{\circ} 46^{\prime}$ | - |  | $0^{\circ} 32^{\prime}$ |
| Nov 12021 | $-14^{\circ} 29$ | -060 ${ }^{\circ}{ }^{\prime}$ | $-27^{\circ} 05^{\prime}$ | -11 ${ }^{\circ} 2$ | $15^{\circ} 00$ |  | +15 ${ }^{\circ} 19$ | -04* ${ }^{\circ} 6^{\prime}$ | -22 ${ }^{\circ}$ |  | $0^{\circ} 3{ }^{\prime}$ |
| Nov 22021 | -1 | -07³0' | $-27^{\circ} 08^{\prime}$ | -11³9' | -14059 |  | +15 | -0446' | -22 |  | ${ }^{\circ}$ |
| Nov | -1 | -0806' | -27 | -115 | 58 | $-19^{\circ} 13^{\prime}$ | +1 | -04*47 | -220 51 |  | 硅 |
| Nov 42021 | -15 | -08 ${ }^{\circ}{ }^{\prime}$ | -270 $12^{\prime}$ | -12 ${ }^{\circ}$ | -140 57 |  |  | -04*47' | -22051' | +05 ${ }^{\circ} 50^{\prime}$ | ${ }^{\circ} 30^{\prime}$ |
| Nov 52021 | -1 | -09021 |  |  |  |  |  | 4047' |  |  | ' |
| Nov 62021 |  |  |  |  |  |  |  | -04*48' |  |  |  |


| Tropical ocentric Decl | $\odot$ | ఛ千 | $9$ | $\begin{gathered} \hline \text { Mars } \\ \sigma^{\prime \prime} \end{gathered}$ |  | $\hbar$ | s | Neptune | $\begin{aligned} & \text { Pluto } \\ & \stackrel{\oplus}{\mp} \end{aligned}$ | Chiron |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nov 72021 |  |  |  |  |  |  |  |  |  |  |  |
|  | 16 | -11 ${ }^{\circ} 14^{\prime}$ |  | - |  |  |  |  |  |  |  |
|  |  | -11 ${ }^{\circ} 2^{\prime}$ |  | 13 |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |
| Nov 112021 | 17 | 13 |  |  |  |  |  |  |  |  | 31 |
| Nov 122021 | -17 ${ }^{\circ}$ | -130 $43^{\prime}$ |  |  |  |  |  | -04* ${ }^{\prime}{ }^{\prime}$ |  |  | +2031' |
| Nov 132021 | -18000' | -14019' | -2702' |  |  |  |  | -04*49' |  | +05 41 | $0^{\circ} 30^{\prime}$ |
| Nov 142021 | $-18^{\circ} 16^{\prime}$ | -14055' | -2658' | -14026' |  | $-19^{\circ} 05^{\prime}$ | $+15^{\circ} 0$ | -0450' | -22 | +05 | +2030' |
| Nov 152021 | -18³1' | -15³0' | -2654' | -14 ${ }^{\circ}{ }^{\prime}$ | 14 | -19 | +15 | -04*50' | -22 | +05* 40 | $+20^{\circ} 30^{\prime}$ |
| Nov 162021 | -180 ${ }^{\circ} 6^{\prime}$ | -1604' | -2649' | -14053' | -14 | -19 | +1 | $-04^{\circ} 50^{\prime}$ | -22 | +05³9' | +20 $30^{\prime}$ |
| Nov 172021 | -19 ${ }^{\circ} 1{ }^{\prime}$ | -16³8' | -26*43' | -15 $06^{\prime}$ | $14^{\circ}$ | -19 | +15 ${ }^{\circ} 07$ | $-04^{\circ} 50$ | -22 | +05 | +20 $30^{\prime}$ |
| Nov 182021 | -19 ${ }^{\circ} 16^{\prime}$ | -17011' | -26 | $15^{\circ} 1$ | 14 | $19^{\circ}$ | +15 ${ }^{\circ} 06$ | -04*50' | -22 | +05 | +20²9' |
| Nov 192021 | -19 ${ }^{\circ} 30^{\prime}$ | -170 ${ }^{\prime}$ | -26³1' | $-15^{\circ} 32$ | $-14^{\circ} 3$ | -19 | +15 ${ }^{\circ} 05$ | -04*50' | $-22^{\circ}$ | +05³6' | +20²9' |
| Nov 202021 | -19043' | -1814' | -26²4 | 15 ${ }^{\circ} 44^{\prime}$ | -14029 | -19 | +15 ${ }^{\circ} 05$ | -0451' | -22 |  | +20²9' |
| ov 212021 | -19 ${ }^{\circ} 5$ | -180 $44^{\prime}$ | $-26^{\circ} 17$ | 15 ${ }^{\circ} 57$ | -14027 | -18 | +15 ${ }^{\circ} 04$ | -04*51' | -22 |  | +20²9' |
| v 222021 | $-20^{\circ} 10$ | -19 $14{ }^{\prime}$ |  | $16^{\circ} 10$ | -140 $25^{\prime}$ | $-18^{\circ}$ | +15 ${ }^{\circ} 03$ | -04*51' | -22 |  | ' |
| ov 232021 | -20 22 | -19042' | -2602 | $16^{\circ} 22$ | -140 $22^{\prime}$ |  | +15 03 | -04*51' |  |  |  |
| 242021 | $-20^{\circ} 3$ | $-20^{\circ} 10^{\prime}$ | $-25^{\circ} 53$ | 16 | $-14^{\circ} 20$ | -18 | +1 | -04*51' | -2 |  |  |
| 252021 | -20 | $-20^{\circ} 36^{\prime}$ |  | 16 |  |  |  | 51 |  |  |  |
| 21 |  | -21 ${ }^{\circ} 02{ }^{\prime}$ | -25 35 | -16 ${ }^{\circ}$ |  |  |  | -0451' |  |  |  |
| 21 |  |  |  |  |  |  |  | -0451' |  |  | 29 |
| Nov 282021 | -2 |  |  |  |  |  |  | -0451' |  |  | ' |
| Nov 292021 | -2 | -2 | -2 | -17 34 | -14.07 |  |  | -0451' |  |  | $+20^{\circ} 29^{\prime}$ |
| Nov 302021 | -2 | -22 | -2 | -17 | -1 | -18 |  | -0 | $-22^{\circ} 47^{\prime}$ | +05029' | ' |
| Dec 12021 | -2 | -2 | $-24^{\circ} 45^{\prime}$ | -17 | 1 | -18 | + | -0 |  | +05 | ' |
| Dec 22021 | -21 | -23 ${ }^{\circ} 13^{\prime}$ | $-24^{\circ} 34^{\prime}$ | -18 | -13 | -18 | +1 | -0451' | -2 | +05 ${ }^{\circ} 28^{\prime}$ | ' |
| Dec 32021 | -22007 | -23³1' | $-24^{\circ} 22 \cdot$ | $-18^{\circ} 20$ | -13 | -18 | +1 | -0451' | -2 | +05 $27^{\prime}$ | ' |
| Dec 42021 | -22 ${ }^{\circ} 15^{\prime}$ | -23048' | $-24^{\circ} 11{ }^{\prime}$ | $-18^{\circ} 3$ | -13 | -18 | +1 | -0451' | -2 |  | +20 $0^{\circ} 3{ }^{\prime}$ |
| Dec 52021 | -22 ${ }^{\circ} 23^{\prime}$ | -2403' | $-23^{\circ} 59$ ' | -180 | 13 | -18 | +1 | -04*51' | -2 |  | +20 $30^{\prime}$ |
| Dec 62021 | -22 ${ }^{\circ} 30^{\prime}$ | -24017' | $-23^{\circ} 47$ | -1852' | $-13^{\circ} 47^{\prime}$ | $10^{\circ}$ |  | -04*51' | -22 | +05 ${ }^{\circ} 26^{\prime}$ | +20 $30^{\prime}$ |
| Dec 72021 | -22 ${ }^{\circ} 37^{\prime}$ | -24³0' |  | $-19^{\circ}$ | -130 $44^{\prime}$ | -18 ${ }^{\circ}$ |  | -0451' | -22 | - | +20 |
| Dec 82021 | -22 ${ }^{\circ} 44^{\prime}$ | -240 42 | -23²3' | -1913' | $-13^{\circ}$ | -18 ${ }^{\circ}$ | +1405 | -0451' | $-22^{\circ}$ | +05 ${ }^{\circ} 25^{\prime}$ | +20²9' |
| Dec 92021 | -220 49 | -2452' | -2301 | 19 ${ }^{\circ} 23$ | -13037 | $-18^{\circ} 3$ | +1405 | -04*50 | -2 |  | +20²9' |
| Dec 102021 | $-22^{\circ} 55^{\prime}$ | -2501' | -22 ${ }^{\circ} 5$ | 19${ }^{\circ} 33^{\prime}$ | $13^{\circ} 34$ | -1835 | +14*52 | -0450' | -2 |  | +20 ${ }^{\circ} 28^{\prime}$ |
| ee 112021 | $-23^{\circ} 00^{\prime}$ | -2509' | -220 46 | -19043 | $13^{\circ} 3$ | $10^{\circ}$ | $+14^{\circ} 5$ | -04*50 | -2 | +05 ${ }^{\circ} 24^{\prime}$ | +20 ${ }^{\circ} 28^{\prime}$ |
| Dec 122021 | $-23^{\circ} 05^{\prime}$ | $-25^{\circ} 15^{\prime}$ | -22 ${ }^{\circ} 3$ | 19 53 | ${ }^{\circ}$ |  |  | ${ }^{-04}{ }^{\circ} 50^{\prime}$ |  |  |  |
| 132021 | $-23^{\circ} 0$ | -25 ${ }^{\circ} 0^{\prime}$ |  | -20 03 |  |  |  | ${ }^{\circ} 5$ |  |  |  |
| 42021 | $-23^{\circ}$ | -25²3' |  | -2012' |  |  |  | ${ }^{\circ} 5$ |  |  |  |
| 2021 | -23 | -25 ${ }^{\circ} 5^{\prime}$ |  |  |  |  |  | $4^{\circ}$ |  |  | 29' |
| Dec 162021 | -23 | -25 ${ }^{\circ} 6^{\prime}$ |  |  |  |  |  | $4^{\circ}$ |  |  | ' |
| Dec 172021 | -23 | $-25^{\circ} 25^{\prime}$ |  |  |  |  |  | - |  |  | $+20^{\circ} 30^{\prime}$ |
| Dec 182021 | -23 | -25 |  | -20 48 | -1 | - |  | -04* ${ }^{\circ}{ }^{\prime}$ |  |  | ' |
| Dec 192021 | -23 | -25 ${ }^{\circ} 19^{\prime}$ | -21 | -2057' | -1 | -18 | +1 | -04* ${ }^{\circ}$ |  |  | 29 |
| Dec 202021 | $-23^{\circ} 2$ | -25 | -20 | -21 | -12 | -18 | +14 | -0448' | - | +05 ${ }^{\circ} 21^{\prime}$ | $0^{\circ} 28^{\prime}$ |
| Dec 212021 | $-23^{\circ} 26$ | -2507' | -20 | -21 | -12 | -18 | +14 | -04048' |  | +05 $211^{\prime}$ | $0^{\circ} 27^{\prime}$ |
| Dec 222021 | $-23^{\circ} 26^{\prime}$ | -2458' | $-20^{\circ} 28$ | -21 ${ }^{\circ} 21^{\prime}$ | -12 | '-18 |  | -0448' |  | +05 $21{ }^{\prime}$ | +20 ${ }^{\circ} 26^{\prime}$ |
| Dec 232021 | $-23^{\circ} 25^{\prime}$ | -24088' | -2015' | -21²9' | -120 ${ }^{\text {c }}$ | -180 | $+14^{\circ} 4$ | -0447' | -22 |  | $+20^{\circ} 25^{\prime}$ |
| Dec 242021 | $-23^{\circ} 24^{\prime}$ | -24³7' | -200' | -21³7' | -120 44 | -18 | +140 45 | -04*47' |  |  | +20 ${ }^{\circ} 4^{\prime}$ |
| Dec 252021 | -23²3' | -24²4' | -19051 | $-21^{\circ} 44$ | $-12^{\circ} 40^{\prime}$ | -180 ${ }^{\circ}$ | +140 $45^{\prime}$ | -04*47' | -220 | $5^{\circ} 2$ | +20 ${ }^{\circ} 23^{\prime}$ |
| Dec 262021 | -23²1' | -2409' | -19 39 | -21 ${ }^{\circ} 51$ | -12 ${ }^{\circ} 36$ | 18¹0 | +140 $45^{\prime}$ | -0446' | $-22^{\circ} 4$ | $5^{\circ} 2$ | +20 ${ }^{\circ} 23^{\prime}$ |
| Dec 272021 | -23018' | -2353' | -19 ${ }^{\circ} 8$ | $-21^{\circ} 58$ | 12 ${ }^{\circ}$ | $18^{\circ} 08$ | +14044 | $-04^{\circ} 46^{\prime}$ | $-22^{\circ} 4$ | $5^{\circ}$ | +20²3' |
| Dec 282021 | $-23^{\circ} 16^{\prime}$ | $-23^{\circ} 36^{\prime}$ | -1916' | -2200 | $12^{\circ} 28$ | 18007 | $+14^{\circ} 4$ | $-04^{\circ} 45^{\prime}$ | $-22^{\circ} 4$ |  | 20 |
| Dec 292021 | -23 ${ }^{\circ} 12^{\prime}$ | -23 ${ }^{\circ} 17^{\prime}$ | -19 ${ }^{\circ} 5^{\prime}$ | -22 ${ }^{\circ} 1$ | -120 2 | -18005 | +140 4 | $-04^{\circ} 45^{\prime}$ | $-22^{\circ} 4$ |  | 2023' |
| Dec 302021 | -23*09 | -22 ${ }^{\circ} 7^{\prime}$ | -1854' | -22 ${ }^{\circ} 8^{\prime}$ | $-12^{\circ} 20$ | $-18^{\circ} 03^{\prime}$ | +14044 | $-04^{\circ} 45^{\prime}$ | $-22^{\circ} 39$ |  | 20 ${ }^{\circ} 24^{\prime}$ |
| Dec 312021 | $-23^{\circ} 0$ | $-22^{\circ} 36^{\prime}$ | $-18^{\circ} 43^{\prime}$ | $22^{\circ}$ | $-12^{\circ} 15^{\prime}$ |  |  | $-04^{\circ} 44^{\prime}$ | $-22^{\circ} 39^{\prime}$ |  | +20 ${ }^{\circ} 24^{\prime}$ |

