

EPHEMERIDES

2 20.9

2 21.0

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 467528 | 2007 <i>MN</i> ₂₇ | | 2 20.9 115°12 | 3°7/25.2 | 18 | | 523523 | 2017 <i>OR</i> ₄₅ | | 2 21.0 299°10 | 5°2/25.0 | 17 | |
| 1 12 | 10 36.20 | - 4 36.9 | 2.474 | 3.170 | 14.3 | 21.5 | 1 22 | 10 34.74 | - 3 56.1 | 1.739 | 2.556 | 15.0 | 20.6 |
| 1 22 | 10 32.94 | - 4 26.0 | 2.381 | 3.181 | 12.0 | 21.3 | 2 1 | 10 29.76 | - 4 3.8 | 1.647 | 2.539 | 11.8 | 20.3 |
| 2 1 | 10 27.87 | - 3 56.7 | 2.308 | 3.191 | 9.2 | 21.2 | 2 11 | 10 22.67 | - 3 49.6 | 1.578 | 2.521 | 8.3 | 20.1 |
| 2 11 | 10 21.41 | - 3 9.5 | 2.261 | 3.202 | 6.3 | 21.0 | 2 21 | 10 14.22 | - 3 14.3 | 1.534 | 2.504 | 5.5 | 19.9 |
| 2 21 | 10 14.19 | - 2 7.3 | 2.241 | 3.212 | 4.0 | 20.9 | 3 2 | 10 5.42 | - 2 21.5 | 1.517 | 2.487 | 5.9 | 19.9 |
| 3 2 | 10 6.93 | - 0 54.5 | 2.251 | 3.222 | 4.2 | 20.9 | 3 12 | 9 57.46 | - 1 17.9 | 1.526 | 2.470 | 9.2 | 20.0 |
| 3 12 | 10 0.42 | + 0 22.9 | 2.290 | 3.232 | 6.7 | 21.1 | 3 22 | 9 51.31 | + 0 11.0 | 1.561 | 2.453 | 13.0 | 20.2 |
| 3 22 | 9 55.25 | + 1 39.0 | 2.357 | 3.241 | 9.6 | 21.2 | 4 1 | 9 47.69 | + 0 51.7 | 1.616 | 2.437 | 16.5 | 20.4 |
| 245948 | 2006 <i>SJ</i> ₁₉ | | 2 20.9 144°10 | 7°6/3.6 | 18 | | 43933 | 1996 <i>RX</i> ₉ | | 2 21.0 94°00 | 0°1/20.9 | 18 | |
| 1 12 | 10 37.58 | -22 56.0 | 3.400 | 3.934 | 13.0 | 21.1 | 1 22 | 10 35.69 | + 8 31.5 | 1.797 | 2.655 | 12.6 | 19.2 |
| 1 22 | 10 33.61 | -23 34.0 | 3.302 | 3.946 | 11.8 | 21.0 | 2 1 | 10 30.14 | + 9 18.7 | 1.734 | 2.662 | 8.8 | 19.0 |
| 2 1 | 10 28.12 | -23 53.7 | 3.221 | 3.958 | 10.5 | 20.9 | 2 11 | 10 22.71 | +10 17.3 | 1.696 | 2.669 | 4.5 | 18.8 |
| 2 11 | 10 21.48 | -23 52.9 | 3.161 | 3.969 | 9.2 | 20.8 | 2 21 | 10 14.23 | +11 21.1 | 1.687 | 2.675 | 0.2 | 18.4 |
| 2 21 | 10 14.19 | -23 30.9 | 3.124 | 3.979 | 8.1 | 20.7 | 3 2 | 10 5.72 | +12 23.2 | 1.706 | 2.682 | 4.6 | 18.8 |
| 3 2 | 10 6.85 | -22 48.6 | 3.114 | 3.989 | 7.6 | 20.7 | 3 12 | 9 58.25 | +13 17.3 | 1.753 | 2.689 | 8.8 | 19.1 |
| 3 12 | 10 0.07 | -21 49.2 | 3.130 | 3.998 | 7.8 | 20.7 | 3 22 | 9 52.63 | +13 59.1 | 1.825 | 2.695 | 12.6 | 19.3 |
| 3 22 | 9 54.37 | -20 37.4 | 3.173 | 4.007 | 8.8 | 20.8 | 4 1 | 9 49.38 | +14 26.1 | 1.918 | 2.701 | 15.6 | 19.5 |
| 61746 | 2000 <i>QB</i> ₁₅₅ | | 2 20.9 306°03 | 5°5/26.3 | 18 | | 335999 | 2007 <i>TY</i> ₃₅₅ | | 2 21.0 77°71 | 0°6/20.4 | 18 | |
| 1 12 | 10 34.31 | - 7 46.5 | 1.835 | 2.542 | 18.2 | 19.2 | 1 22 | 10 33.78 | + 9 20.7 | 2.177 | 3.033 | 10.9 | 20.6 |
| 1 22 | 10 32.36 | - 7 39.4 | 1.731 | 2.534 | 15.6 | 19.0 | 2 1 | 10 28.49 | +10 25.2 | 2.126 | 3.054 | 7.5 | 20.4 |
| 2 1 | 10 28.01 | - 7 5.0 | 1.645 | 2.525 | 12.5 | 18.7 | 2 11 | 10 21.74 | +11 38.1 | 2.101 | 3.074 | 3.7 | 20.2 |
| 2 11 | 10 21.71 | - 6 1.9 | 1.581 | 2.517 | 9.0 | 18.5 | 2 21 | 10 14.23 | +12 53.4 | 2.107 | 3.095 | 0.6 | 20.0 |
| 2 21 | 10 14.19 | - 4 32.3 | 1.542 | 2.509 | 6.0 | 18.3 | 3 2 | 10 6.78 | +14 4.9 | 2.142 | 3.115 | 4.1 | 20.3 |
| 3 2 | 10 6.44 | - 2 42.5 | 1.531 | 2.502 | 5.9 | 18.3 | 3 12 | 10 0.22 | +15 7.2 | 2.206 | 3.136 | 7.7 | 20.5 |
| 3 12 | 9 59.58 | - 0 42.2 | 1.548 | 2.494 | 8.9 | 18.4 | 3 22 | 9 55.17 | +15 56.8 | 2.297 | 3.156 | 10.8 | 20.8 |
| 3 22 | 9 54.51 | + 1 17.9 | 1.590 | 2.487 | 12.6 | 18.6 | 4 1 | 9 52.06 | +16 32.0 | 2.409 | 3.176 | 13.3 | 21.0 |
| 200671 | 2001 <i>TE</i> ₁₂₇ | | 2 20.9 242°84 | 3°1/23.4 | 18 | | 306374 | 3362 <i>T</i> ₋₃ | | 2 21.0 58°55 | 2°2/19.5 | 18 | |
| 1 12 | 10 39.91 | + 0 23.4 | 1.701 | 2.444 | 18.2 | 20.9 | 1 22 | 10 39.54 | +13 52.8 | 1.337 | 2.214 | 14.9 | 20.5 |
| 1 22 | 10 37.04 | + 0 25.8 | 1.598 | 2.435 | 15.1 | 20.7 | 2 1 | 10 33.13 | +14 37.9 | 1.293 | 2.231 | 10.2 | 20.3 |
| 2 1 | 10 31.44 | + 0 50.1 | 1.515 | 2.424 | 11.3 | 20.4 | 2 11 | 10 24.31 | +15 29.5 | 1.273 | 2.248 | 5.2 | 20.0 |
| 2 11 | 10 23.54 | + 1 36.0 | 1.454 | 2.414 | 7.0 | 20.1 | 2 21 | 10 14.23 | +16 19.2 | 1.278 | 2.265 | 2.4 | 19.9 |
| 2 21 | 10 14.19 | + 2 40.0 | 1.420 | 2.403 | 3.4 | 19.9 | 3 2 | 10 4.36 | +16 58.9 | 1.311 | 2.282 | 6.5 | 20.2 |
| 3 2 | 10 4.53 | + 3 55.3 | 1.414 | 2.392 | 5.1 | 20.0 | 3 12 | 9 56.10 | +17 23.2 | 1.369 | 2.300 | 11.2 | 20.5 |
| 3 12 | 9 55.88 | + 5 13.4 | 1.435 | 2.380 | 9.5 | 20.2 | 3 22 | 9 50.39 | +17 30.1 | 1.449 | 2.318 | 15.3 | 20.8 |
| 3 22 | 9 49.27 | + 6 26.1 | 1.480 | 2.368 | 13.9 | 20.4 | 4 1 | 9 47.71 | +17 20.0 | 1.548 | 2.335 | 18.6 | 21.0 |
| 89087 | 2001 <i>TS</i> ₁₇₄ | | 2 20.9 37°52 | 6°7/15.6 | 18 | | 305629 | 2009 <i>BM</i> ₈ | | 2 21.0 55°06 | 0°4/21.3 | 18 | |
| 1 12 | 10 42.34 | +24 46.9 | 1.661 | 2.466 | 16.1 | 18.8 | 1 22 | 10 37.85 | + 7 5.0 | 1.235 | 2.104 | 16.4 | 20.7 |
| 1 22 | 10 39.05 | +25 59.3 | 1.591 | 2.469 | 12.9 | 18.6 | 2 1 | 10 32.04 | + 7 51.2 | 1.192 | 2.124 | 11.5 | 20.4 |
| 2 1 | 10 32.76 | +27 15.0 | 1.543 | 2.473 | 9.5 | 18.4 | 2 11 | 10 23.78 | + 8 53.6 | 1.171 | 2.144 | 6.0 | 20.2 |
| 2 11 | 10 24.12 | +28 24.0 | 1.520 | 2.477 | 7.1 | 18.3 | 2 21 | 10 14.25 | +10 4.0 | 1.175 | 2.164 | 0.4 | 19.8 |
| 2 21 | 10 14.19 | +29 16.8 | 1.524 | 2.482 | 7.2 | 18.3 | 3 2 | 10 4.92 | +11 12.5 | 1.206 | 2.185 | 5.5 | 20.3 |
| 3 2 | 10 4.34 | +29 46.0 | 1.554 | 2.487 | 9.8 | 18.5 | 3 12 | 9 57.20 | +12 10.6 | 1.262 | 2.206 | 10.7 | 20.6 |
| 3 12 | 9 55.92 | +29 48.9 | 1.608 | 2.491 | 13.0 | 18.7 | 3 22 | 9 52.06 | +12 52.7 | 1.341 | 2.227 | 15.2 | 20.9 |
| 3 22 | 9 49.88 | +29 27.0 | 1.683 | 2.496 | 16.2 | 18.9 | 4 1 | 9 49.97 | +13 16.9 | 1.438 | 2.248 | 18.7 | 21.2 |
| 383681 | 2007 <i>TV</i> ₂₄₃ | | 2 20.9 106°23 | 3°7/17.6 | 18 | | 374068 | 2004 <i>RE</i> ₇₀ | | 2 21.0 145°37 | 0°5/20.5 | 18 | |
| 1 12 | 10 43.46 | +21 44.9 | 2.401 | 3.178 | 12.5 | 21.1 | 1 22 | 10 39.00 | + 9 16.2 | 1.794 | 2.649 | 12.8 | 21.7 |
| 1 22 | 10 38.73 | +22 16.5 | 2.324 | 3.189 | 9.9 | 20.9 | 2 1 | 10 32.44 | +10 12.1 | 1.733 | 2.660 | 8.9 | 21.5 |
| 2 1 | 10 31.87 | +22 50.4 | 2.271 | 3.200 | 7.0 | 20.7 | 2 11 | 10 23.90 | +11 18.5 | 1.697 | 2.670 | 4.5 | 21.3 |
| 2 11 | 10 23.43 | +23 21.2 | 2.246 | 3.211 | 4.4 | 20.6 | 2 21 | 10 14.25 | +12 29.0 | 1.690 | 2.679 | 0.6 | 21.0 |
| 2 21 | 10 14.20 | +23 43.9 | 2.250 | 3.221 | 3.9 | 20.6 | 3 2 | 10 4.61 | +13 36.0 | 1.713 | 2.688 | 4.9 | 21.3 |
| 3 2 | 10 5.07 | +23 54.3 | 2.283 | 3.232 | 6.1 | 20.7 | 3 12 | 9 56.09 | +14 33.0 | 1.765 | 2.695 | 9.1 | 21.6 |
| 3 12 | 9 56.94 | +23 50.6 | 2.345 | 3.242 | 8.9 | 20.9 | 3 22 | 9 49.53 | +15 15.9 | 1.841 | 2.703 | 12.9 | 21.8 |
| 3 22 | 9 50.49 | +23 32.9 | 2.432 | 3.252 | 11.5 | 21.1 | 4 1 | 9 45.46 | +15 43.1 | 1.938 | 2.709 | 16.0 | 22.1 |
| 464294 | 2016 <i>AL</i> ₉₃ | | 2 20.9 355°36 | 2°6/19.0 | 18 | | 104619 | 2000 <i>GJ</i> ₁₁₀ | | 2 21.0 45°10 | 4°6/25.6 | 18 | |
| 1 12 | 10 35.61 | +12 10.0 | 1.362 | 2.171 | 18.7 | 21.0 | 1 22 | 10 32.65 | - 5 16.2 | 1.963 | 2.770 | 13.9 | 19.5 |
| 1 22 | 10 34.20 | +13 5.4 | 1.283 | 2.168 | 14.8 | 20.7 | 2 1 | 10 27.94 | - 4 55.4 | 1.891 | 2.776 | 10.8 | 19.3 |
| 2 1 | 10 29.71 | +14 19.3 | 1.224 | 2.165 | 10.2 | 20.5 | 2 11 | 10 21.57 | - 4 12.9 | 1.843 | 2.783 | 7.6 | 19.1 |
| 2 11 | 10 22.71 | +15 44.3 | 1.187 | 2.163 | 5.2 | 20.2 | 2 21 | 10 14.26 | - 3 11.3 | 1.821 | 2.790 | 5.0 | 18.9 |
| 2 21 | 10 14.20 | +17 10.2 | 1.177 | 2.162 | 2.9 | 20.0 | 3 2 | 10 6.90 | - 1 55.5 | 1.827 | 2.797 | 5.1 | 19.0 |
| 3 2 | 10 5.58 | +18 25.9 | 1.192 | 2.162 | 7.2 | 20.3 | 3 12 | 10 0.40 | - 0 33.0 | 1.861 | 2.805 | 7.8 | 19.1 |
| 3 12 | 9 58.33 | +19 22.7 | 1.231 | 2.163 | 12.2 | 20.6 | 3 22 | 9 55.50 | + 0 48.9 | 1.921 | 2.812 | 11.0 | 19.3 |
| 3 22 | 9 53.53 | +19 56.5 | 1.292 | 2.164 | 16.6 | 20.8 | 4 1 | 9 52.70 | + 2 3.9 | 2.004 | 2.820 | 13.9 | 19.6 |
| 490048 | 2008 <i>TH</i> ₆₅ | | 2 20.9 223°22 | 0°4/21.3 | 18 | | 2561 | Margolin | | 2 21.0 55°34 | 0°5/21.4 | 18 | |
| 1 12 | 10 45.39 | + 8 17.7 | 1.799 | 2.557 | 16.8 | 21.9 | 1 22 | 10 36.99 | + 7 0.1 | 1.369 | 2.234 | 15.4 | 16.9 |
| 1 22 | 10 41.25 | + 8 23.8 | 1.695 | 2.547 | 13.6 | 21.7 | 2 1 | 10 31.37 | + 7 42.2 | 1.317 | 2.247 | 10.8 | 16.6 |
| 2 1 | 10 34.29 | + 8 44.2 | 1.613 | 2.537 | 9.7 | 21.4 | 2 11 | 10 23.45 | + 8 39.6 | 1.289 | 2.261 | 5.7 | 16.4 |
| 2 11 | 10 24.98 | + 9 16.1 | 1.556 | 2.527 | 5.1 | 21.1 | 2 21 | 10 14.27 | + 9 45.3 | 1.287 | 2.276 | 0.5 | 16.0 |
| 2 21 | 10 14.20 | + 9 54.6 | 1.526 | 2.515 | 0.4 | 20.7 | 3 2 | 10 5.18 | +10 50.6 | 1.312 | 2.290 | 5.2 | 16.4 |
| 3 2 | 10 3.16 | +10 33.7 | 1.526 | 2.503 | 4.9 | 21.0 | 3 12 | 9 57.52 | +11 47.1 | 1.363 | 2.305 | 10.2 | 16.7 |
| 3 12 | 9 53.18 | +11 7.5 | 1.554 | 2.490 | 9.7 | 21.3 | 3 22 | 9 52.20 | +12 29.7 | 1.436 | 2.320 | 14.5 | 17.0 |
| 3 22 | 9 45.30 | +11 31.4 | 1.606 | 2.476 | 14.0 | 21.5 | 4 1 | 9 49.76 | +12 55.7 | 1.530 | 2.335 | 18.0 | 17.3 |
| 489624 | 2007 <i>TE</i> ₃₁₈ | | 2 20.9 112°30 | 0°7/21.6 | 18 | | 306222 | 2011 <i>QX</i> ₄₉ | | 2 21.0 229°06 | 2°0/22.4 | 17 | |

EPHEMERIDES

2 21.0

2 21.0

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|---------|----------|------|---------------|-------------------------------|-----------------|----------|---------|----------|------|
| 194532 | 2001 <i>XD</i> ₄₀ | | 2 21.0 | 51°75' | 3°7/19.0 | 18 | 38984 | 2000 <i>UZ</i> ₄ | | 2 21.0 | 66°66' | 0°2/20.8 | 18 R |
| 1 22 | 10 43.22 | +17 41.4 | 1.152 | 2.036 | 16.3 | 19.2 | 1 22 | 10 34.72 | +9 40.9 | 2.258 | 3.111 | 10.6 | 19.5 |
| 2 1 | 10 35.84 | +18 14.7 | 1.118 | 2.057 | 11.2 | 19.0 | 2 1 | 10 29.08 | +10 15.3 | 2.209 | 3.135 | 7.3 | 19.3 |
| 2 11 | 10 25.71 | +18 48.9 | 1.106 | 2.079 | 6.1 | 18.8 | 2 11 | 10 22.05 | +10 56.7 | 2.187 | 3.159 | 3.7 | 19.1 |
| 2 21 | 10 14.28 | +19 14.9 | 1.118 | 2.102 | 3.9 | 18.7 | 2 21 | 10 14.31 | +11 40.6 | 2.193 | 3.182 | 0.2 | 18.9 |
| 3 2 | 10 3.30 | +19 25.7 | 1.157 | 2.124 | 7.8 | 19.0 | 3 2 | 10 6.68 | +12 22.4 | 2.230 | 3.206 | 3.8 | 19.2 |
| 3 12 | 9 54.38 | +19 18.0 | 1.220 | 2.148 | 12.6 | 19.3 | 3 12 | 9 59.94 | +12 57.9 | 2.296 | 3.229 | 7.2 | 19.5 |
| 3 22 | 9 48.47 | +18 52.7 | 1.304 | 2.171 | 16.8 | 19.7 | 3 22 | 9 54.71 | +13 24.2 | 2.388 | 3.252 | 10.2 | 19.7 |
| 4 1 | 9 45.98 | +18 12.1 | 1.405 | 2.195 | 20.1 | 19.9 | 4 1 | 9 51.36 | +13 40.0 | 2.503 | 3.276 | 12.7 | 19.9 |
| 248627 | 2006 <i>FR</i> ₄ | | 2 21.0 | 305°80' | 1°4/20.1 | 17 | 360436 | 2002 <i>JE</i> ₇₀ | | 2 21.0 | 267°81' | 2°5/18.8 | 17 |
| 1 22 | 10 36.15 | +10 47.1 | 1.310 | 2.187 | 15.2 | 20.4 | 1 22 | 10 39.21 | +14 40.6 | 1.968 | 2.830 | 11.5 | 22.0 |
| 2 1 | 10 31.45 | +11 39.8 | 1.219 | 2.156 | 10.7 | 20.1 | 2 1 | 10 32.91 | +15 48.3 | 1.867 | 2.798 | 8.1 | 21.8 |
| 2 11 | 10 23.88 | +12 48.7 | 1.151 | 2.126 | 5.5 | 19.7 | 2 11 | 10 24.38 | +17 4.5 | 1.793 | 2.766 | 4.3 | 21.5 |
| 2 21 | 10 14.28 | +14 6.2 | 1.108 | 2.096 | 1.5 | 19.3 | 2 21 | 10 14.32 | +18 21.8 | 1.749 | 2.732 | 2.7 | 21.3 |
| 3 2 | 10 4.03 | +15 21.7 | 1.091 | 2.066 | 6.8 | 19.6 | 3 2 | 10 3.76 | +19 32.3 | 1.734 | 2.698 | 6.2 | 21.4 |
| 3 12 | 9 54.79 | +16 24.8 | 1.098 | 2.036 | 12.6 | 19.8 | 3 12 | 9 53.89 | +20 29.0 | 1.748 | 2.662 | 10.4 | 21.6 |
| 3 22 | 9 48.00 | +17 8.4 | 1.127 | 2.006 | 17.9 | 20.0 | 3 22 | 9 45.78 | +21 7.9 | 1.787 | 2.625 | 14.3 | 21.8 |
| 4 1 | 9 44.62 | +17 29.4 | 1.173 | 1.978 | 22.4 | 20.2 | 4 1 | 9 40.20 | +21 27.8 | 1.846 | 2.588 | 17.6 | 21.9 |
| 469102 | 2015 <i>CV</i> ₄₈ | | 2 21.0 | 207°32' | 0°5/20.4 | 18 | 355798 | 2008 <i>SH</i> ₁₅₃ | | 2 21.0 | 118°05' | 0°2/21.2 | 18 |
| 1 22 | 10 33.20 | +9 34.0 | 2.295 | 3.150 | 10.4 | 20.8 | 1 22 | 10 39.53 | +7 25.9 | 1.553 | 2.410 | 14.4 | 21.4 |
| 2 1 | 10 28.19 | +10 31.1 | 2.221 | 3.149 | 7.2 | 20.6 | 2 1 | 10 32.99 | +8 14.6 | 1.498 | 2.424 | 10.1 | 21.2 |
| 2 11 | 10 21.68 | +11 37.1 | 2.174 | 3.147 | 3.6 | 20.3 | 2 11 | 10 24.25 | +9 17.1 | 1.466 | 2.438 | 5.2 | 20.9 |
| 2 21 | 10 14.29 | +12 46.9 | 2.157 | 3.145 | 0.6 | 20.1 | 2 21 | 10 14.32 | +10 26.2 | 1.462 | 2.451 | 0.2 | 20.5 |
| 3 2 | 10 6.80 | +13 54.6 | 2.169 | 3.143 | 4.1 | 20.3 | 3 2 | 10 4.44 | +11 33.9 | 1.487 | 2.464 | 5.0 | 20.9 |
| 3 12 | 10 0.06 | +14 54.8 | 2.211 | 3.141 | 7.6 | 20.6 | 3 12 | 9 55.88 | +12 32.5 | 1.539 | 2.476 | 9.7 | 21.2 |
| 3 22 | 9 54.72 | +15 43.6 | 2.279 | 3.138 | 10.8 | 20.8 | 3 22 | 9 49.54 | +13 17.4 | 1.615 | 2.488 | 13.8 | 21.5 |
| 4 1 | 9 51.27 | +16 18.9 | 2.369 | 3.136 | 13.5 | 20.9 | 4 1 | 9 45.96 | +13 46.1 | 1.712 | 2.499 | 17.1 | 21.8 |
| 41523 | 2000 <i>QD</i> ₂₁₇ | | 2 21.0 | 316°91' | 0°1/21.1 | 18 | 160155 | 2001 <i>QP</i> ₁₃₈ | | 2 21.0 | 134°21' | 4°3/24.5 | 18 |
| 1 22 | 10 33.70 | +6 47.8 | 1.728 | 2.587 | 13.1 | 18.7 | 1 22 | 10 39.01 | -2 44.9 | 1.713 | 2.529 | 15.2 | 20.4 |
| 2 1 | 10 28.93 | +7 48.9 | 1.654 | 2.582 | 9.2 | 18.5 | 2 1 | 10 32.53 | -2 34.7 | 1.647 | 2.541 | 11.6 | 20.2 |
| 2 11 | 10 22.20 | +9 5.3 | 1.605 | 2.577 | 4.8 | 18.2 | 2 11 | 10 24.00 | -2 3.0 | 1.604 | 2.552 | 7.7 | 20.0 |
| 2 21 | 10 14.29 | +10 30.4 | 1.584 | 2.573 | 0.2 | 17.8 | 2 21 | 10 14.32 | -1 12.5 | 1.588 | 2.563 | 4.7 | 19.9 |
| 3 2 | 10 6.23 | +11 56.0 | 1.592 | 2.569 | 4.7 | 18.2 | 3 2 | 10 4.62 | -0 8.8 | 1.600 | 2.573 | 5.3 | 19.9 |
| 3 12 | 9 59.11 | +13 13.9 | 1.626 | 2.565 | 9.2 | 18.4 | 3 12 | 9 56.04 | +1 0.4 | 1.640 | 2.583 | 8.8 | 20.1 |
| 3 22 | 9 53.83 | +14 18.0 | 1.686 | 2.561 | 13.2 | 18.6 | 3 22 | 9 49.48 | +2 7.6 | 1.706 | 2.592 | 12.5 | 20.4 |
| 4 1 | 9 50.97 | +15 4.9 | 1.766 | 2.557 | 16.5 | 18.9 | 4 1 | 9 45.47 | +3 6.9 | 1.794 | 2.600 | 15.7 | 20.6 |
| 238744 | 2005 <i>GB</i> ₁₄₁ | | 2 21.0 | 273°34' | 3°6/24.6 | 17 | 406105 | 2006 <i>VQ</i> ₉ | | 2 21.0 | 71°45' | 2°2/22.8 | 18 |
| 1 22 | 10 33.17 | -2 22.0 | 2.228 | 3.041 | 12.2 | 20.2 | 1 22 | 10 38.50 | +2 51.5 | 1.606 | 2.449 | 14.7 | 21.1 |
| 2 1 | 10 28.27 | -2 9.0 | 2.141 | 3.033 | 9.4 | 20.0 | 2 1 | 10 32.06 | +3 15.5 | 1.561 | 2.476 | 10.7 | 20.9 |
| 2 11 | 10 21.74 | -1 39.0 | 2.078 | 3.025 | 6.3 | 19.8 | 2 11 | 10 23.68 | +3 56.2 | 1.539 | 2.503 | 6.2 | 20.7 |
| 2 21 | 10 14.30 | -0 53.9 | 2.043 | 3.017 | 3.9 | 19.6 | 2 21 | 10 14.32 | +4 48.4 | 1.544 | 2.529 | 2.4 | 20.5 |
| 3 2 | 10 6.69 | +0 2.4 | 2.037 | 3.009 | 4.4 | 19.6 | 3 2 | 10 5.16 | +5 45.6 | 1.578 | 2.556 | 4.5 | 20.7 |
| 3 12 | 9 59.79 | +1 4.1 | 2.059 | 3.002 | 7.3 | 19.8 | 3 12 | 9 57.32 | +6 40.6 | 1.639 | 2.582 | 8.7 | 21.0 |
| 3 22 | 9 54.29 | +2 5.7 | 2.108 | 2.994 | 10.4 | 20.0 | 3 22 | 9 51.58 | +7 27.8 | 1.725 | 2.608 | 12.5 | 21.3 |
| 4 1 | 9 50.73 | +3 1.9 | 2.180 | 2.986 | 13.3 | 20.1 | 4 1 | 9 48.40 | +8 3.7 | 1.832 | 2.634 | 15.6 | 21.6 |
| 435344 | 2007 <i>VM</i> ₁₂₄ | | 2 21.0 | 37°26' | 5°8/15.1 | 15 | 404754 | 2014 <i>JQ</i> ₃₅ | | 2 21.0 | 183°11' | 3°0/18.7 | 18 |
| 1 22 | 10 36.42 | +27 26.9 | 2.184 | 3.054 | 10.2 | 21.1 | 1 22 | 10 40.78 | +16 1.3 | 1.725 | 2.592 | 12.6 | 22.1 |
| 2 1 | 10 30.54 | +28 34.0 | 2.132 | 3.055 | 7.7 | 20.9 | 2 1 | 10 33.89 | +17 3.9 | 1.660 | 2.593 | 8.7 | 21.9 |
| 2 11 | 10 22.90 | +29 34.8 | 2.106 | 3.057 | 6.0 | 20.8 | 2 11 | 10 24.76 | +18 11.1 | 1.621 | 2.594 | 4.7 | 21.6 |
| 2 21 | 10 14.30 | +30 22.4 | 2.109 | 3.059 | 6.2 | 20.8 | 2 21 | 10 14.34 | +19 15.0 | 1.611 | 2.593 | 3.2 | 21.5 |
| 3 2 | 10 5.71 | +30 51.6 | 2.139 | 3.061 | 8.2 | 21.0 | 3 2 | 10 3.84 | +20 7.6 | 1.629 | 2.592 | 6.6 | 21.7 |
| 3 12 | 9 58.12 | +31 0.0 | 2.195 | 3.063 | 10.7 | 21.1 | 3 12 | 9 54.52 | +20 43.5 | 1.675 | 2.590 | 10.7 | 22.0 |
| 3 22 | 9 52.29 | +30 48.1 | 2.274 | 3.064 | 13.2 | 21.3 | 3 22 | 9 47.34 | +21 0.7 | 1.745 | 2.588 | 14.4 | 22.2 |
| 4 1 | 9 48.70 | +30 18.3 | 2.372 | 3.066 | 15.3 | 21.5 | 4 1 | 9 42.90 | +20 59.6 | 1.834 | 2.585 | 17.4 | 22.4 |
| 245202 | 2004 <i>UG</i> ₉ | | 2 21.0 | 218°47' | 3°0/18.8 | 18 | 496369 | 2013 <i>RZ</i> ₇₁ | | 2 21.0 | 123°97' | 2°8/18.5 | 17 |
| 1 22 | 10 41.65 | +17 4.5 | 1.787 | 2.653 | 12.3 | 20.5 | 1 22 | 10 37.00 | +17 9.8 | 2.034 | 2.902 | 11.0 | 21.8 |
| 2 1 | 10 34.49 | +17 48.2 | 1.714 | 2.646 | 8.6 | 20.3 | 2 1 | 10 30.93 | +18 0.9 | 1.975 | 2.909 | 7.6 | 21.6 |
| 2 11 | 10 25.08 | +18 34.8 | 1.666 | 2.637 | 4.7 | 20.0 | 2 11 | 10 23.12 | +18 54.1 | 1.943 | 2.915 | 4.1 | 21.4 |
| 2 21 | 10 14.31 | +19 17.4 | 1.646 | 2.629 | 3.1 | 19.9 | 2 21 | 10 14.34 | +19 43.2 | 1.940 | 2.921 | 3.0 | 21.4 |
| 3 2 | 10 3.38 | +19 49.1 | 1.656 | 2.619 | 6.5 | 20.1 | 3 2 | 10 5.57 | +20 22.3 | 1.965 | 2.926 | 5.8 | 21.6 |
| 3 12 | 9 53.58 | +20 5.6 | 1.693 | 2.609 | 10.5 | 20.3 | 3 12 | 9 57.80 | +20 47.7 | 2.019 | 2.932 | 9.2 | 21.8 |
| 3 22 | 9 45.89 | +20 5.3 | 1.755 | 2.598 | 14.3 | 20.5 | 3 22 | 9 51.79 | +20 57.6 | 2.097 | 2.938 | 12.4 | 22.0 |
| 4 1 | 9 40.94 | +19 48.8 | 1.836 | 2.587 | 17.4 | 20.7 | 4 1 | 9 48.01 | +20 52.4 | 2.196 | 2.943 | 15.0 | 22.2 |
| 497894 | 2006 <i>UR</i> ₂₈₈ | | 2 21.0 | 171°70' | 1°0/22.2 | 17 | 498555 | 2008 <i>HH</i> ₃₅ | | 2 21.0 | 258°40' | 2°7/18.5 | 17 |
| 1 22 | 10 33.85 | +5 34.2 | 2.841 | 3.675 | 9.3 | 22.2 | 1 22 | 10 36.15 | +15 19.0 | 1.940 | 2.809 | 11.4 | 21.2 |
| 2 1 | 10 28.38 | +5 54.5 | 2.764 | 3.678 | 6.6 | 22.0 | 2 1 | 10 30.62 | +16 30.7 | 1.860 | 2.794 | 7.9 | 20.9 |
| 2 11 | 10 21.68 | +6 23.4 | 2.714 | 3.680 | 3.7 | 21.8 | 2 11 | 10 23.11 | +17 49.1 | 1.805 | 2.778 | 4.2 | 20.7 |
| 2 21 | 10 14.30 | +6 58.0 | 2.695 | 3.682 | 1.1 | 21.6 | 2 21 | 10 14.35 | +19 6.7 | 1.780 | 2.762 | 2.9 | 20.6 |
| 3 2 | 10 6.88 | +7 34.9 | 2.706 | 3.683 | 3.0 | 21.8 | 3 2 | 10 5.34 | +20 15.8 | 1.783 | 2.746 | 6.2 | 20.7 |
| 3 12 | 10 0.07 | +8 10.4 | 2.748 | 3.684 | 6.0 | 22.0 | 3 12 | 9 57.18 | +21 10.1 | 1.815 | 2.729 | 10.0 | 20.9 |
| 3 22 | 9 54.41 | +8 41.7 | 2.817 | 3.685 | 8.7 | 22.2 | 3 22 | 9 50.77 | +21 46.2 | 1.870 | 2.712 | 13.6 | 21.1 |
| 4 1 | 9 50.31 | +9 6.2 | 2.910 | 3.686 | 11.0 | 22.3 | 4 1 | 9 46.75 | +22 3.4 | 1.946 | 2.695 | 16.6 | 21.3 |
| 341272 | 2007 <i>RS</i> ₂₇₁ | | 2 21.0 | 162°09' | 2°1/18.5 | 18 | 290658 | 2005 <i>UV</i> ₂₉₄ | | 2 21.0 | 140°88' | 0°7/21.6 | 18 |
| 1 22 | 10 34.90 | +17 4.1 | 2.818 | | | | | | | | | | |

EPHEMERIDES

2 21.0

2 21.0

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------------|-----------|---------|------|---------------|-------------------------------|-----------------|----------------|-----------|---------|------|
| 432161 | 2009 <i>BQ</i> ₁₅₆ | | 2 21.0 59°42' | 0°2'/21.3 | 17 | | 94230 | 2001 <i>BU</i> ₆₃ | | 2 21.0 254°30' | 0°5'/21.5 | 18 | |
| 1 22 | 10 32.56 | + 6 59.0 | 2.191 | 3.042 | 11.0 | 21.2 | 1 22 | 10 35.73 | + 8 50.7 | 2.661 | 3.505 | 9.5 | 18.7 |
| 2 1 | 10 27.77 | + 7 52.5 | 2.122 | 3.046 | 7.7 | 21.0 | 2 1 | 10 29.79 | + 8 51.8 | 2.579 | 3.499 | 6.7 | 18.5 |
| 2 11 | 10 21.48 | + 8 57.2 | 2.080 | 3.051 | 4.0 | 20.8 | 2 11 | 10 22.48 | + 8 59.1 | 2.525 | 3.494 | 3.6 | 18.3 |
| 2 21 | 10 14.34 | +10 7.8 | 2.067 | 3.055 | 0.3 | 20.5 | 2 21 | 10 14.38 | + 9 9.9 | 2.500 | 3.488 | 0.5 | 18.0 |
| 3 2 | 10 7.16 | +11 18.5 | 2.083 | 3.060 | 3.8 | 20.8 | 3 2 | 10 6.21 | + 9 21.4 | 2.506 | 3.483 | 3.3 | 18.2 |
| 3 12 | 10 0.75 | +12 23.3 | 2.129 | 3.065 | 7.5 | 21.0 | 3 12 | 9 58.70 | + 9 30.6 | 2.542 | 3.477 | 6.5 | 18.4 |
| 3 22 | 9 55.79 | +13 17.9 | 2.200 | 3.070 | 10.7 | 21.2 | 3 22 | 9 52.47 | + 9 35.4 | 2.605 | 3.471 | 9.4 | 18.6 |
| 4 1 | 9 52.75 | +13 59.5 | 2.295 | 3.075 | 13.5 | 21.4 | 4 1 | 9 47.96 | + 9 34.1 | 2.692 | 3.465 | 11.9 | 18.8 |
| 11292 | Bunjisuzuki | | 2 21.0 310°79' | 0°4'/21.5 | 18 | | 457561 | 2008 <i>YV</i> ₁₀₀ | | 2 21.0 105°29' | 1°7'/19.7 | 18 | |
| 1 22 | 10 32.25 | + 5 53.8 | 2.019 | 2.870 | 11.8 | 17.9 | 1 22 | 10 39.71 | +12 10.9 | 1.588 | 2.454 | 13.6 | 21.5 |
| 2 1 | 10 27.73 | + 6 56.0 | 1.939 | 2.863 | 8.3 | 17.7 | 2 1 | 10 33.07 | +13 11.2 | 1.538 | 2.471 | 9.3 | 21.3 |
| 2 11 | 10 21.55 | + 8 12.5 | 1.886 | 2.856 | 4.4 | 17.4 | 2 11 | 10 24.30 | +14 19.5 | 1.514 | 2.488 | 4.7 | 21.1 |
| 2 21 | 10 14.34 | + 9 37.6 | 1.861 | 2.850 | 0.5 | 17.1 | 2 21 | 10 14.39 | +15 27.8 | 1.517 | 2.504 | 1.8 | 20.9 |
| 3 2 | 10 6.99 | +11 4.3 | 1.866 | 2.843 | 4.1 | 17.4 | 3 2 | 10 4.60 | +16 27.9 | 1.549 | 2.520 | 5.8 | 21.2 |
| 3 12 | 10 0.42 | +12 25.4 | 1.899 | 2.837 | 8.1 | 17.6 | 3 12 | 9 56.15 | +17 13.8 | 1.609 | 2.536 | 10.1 | 21.5 |
| 3 22 | 9 55.39 | +13 35.0 | 1.958 | 2.831 | 11.7 | 17.8 | 3 22 | 9 49.93 | +17 42.6 | 1.692 | 2.551 | 13.9 | 21.8 |
| 4 1 | 9 52.43 | +14 29.7 | 2.039 | 2.825 | 14.8 | 18.0 | 4 1 | 9 46.42 | +17 53.9 | 1.795 | 2.566 | 17.0 | 22.0 |
| 283215 | 2010 <i>OQ</i> ₄₆ | | 2 21.0 213°56' | 2°7'/17.3 | 16 | | 46 | Hestia | | 2 21.0 143°58' | 0°6'/21.6 | 18 | |
| 1 22 | 10 33.26 | +16 5.8 | 2.548 | 3.412 | 9.1 | 20.8 | 1 22 | 10 37.44 | + 6 39.0 | 2.024 | 2.869 | 12.0 | 13.0 |
| 2 1 | 10 28.22 | +17 49.1 | 2.475 | 3.408 | 6.3 | 20.6 | 2 1 | 10 31.23 | + 7 17.4 | 1.959 | 2.879 | 8.5 | 12.8 |
| 2 11 | 10 21.73 | +19 37.3 | 2.433 | 3.403 | 3.5 | 20.4 | 2 11 | 10 23.29 | + 8 7.1 | 1.919 | 2.888 | 4.5 | 12.5 |
| 2 21 | 10 14.35 | +21 23.4 | 2.422 | 3.399 | 3.0 | 20.4 | 2 21 | 10 14.40 | + 9 3.4 | 1.909 | 2.897 | 0.6 | 12.2 |
| 3 2 | 10 6.82 | +23 0.3 | 2.442 | 3.393 | 5.5 | 20.5 | 3 2 | 10 5.49 | +10 0.3 | 1.928 | 2.905 | 4.0 | 12.5 |
| 3 12 | 9 59.93 | +24 22.5 | 2.492 | 3.388 | 8.5 | 20.7 | 3 12 | 9 57.53 | +10 52.2 | 1.977 | 2.913 | 8.0 | 12.8 |
| 3 22 | 9 54.33 | +25 27.1 | 2.567 | 3.383 | 11.2 | 20.9 | 3 22 | 9 51.27 | +11 34.7 | 2.051 | 2.920 | 11.4 | 13.0 |
| 4 1 | 9 50.52 | +26 12.9 | 2.665 | 3.377 | 13.4 | 21.0 | 4 1 | 9 47.21 | +12 5.5 | 2.148 | 2.926 | 14.4 | 13.3 |
| 68974 | 2002 <i>RO</i> ₁₀₇ | | 2 21.0 142°18' | 0°3'/21.3 | 18 | | 166999 | 2003 <i>PR</i> ₅ | | 2 21.0 156°74' | 1°8'/22.7 | 18 | |
| 1 22 | 10 37.72 | + 7 29.5 | 2.215 | 3.058 | 11.2 | 20.5 | 1 22 | 10 37.98 | + 2 47.0 | 2.018 | 2.849 | 12.6 | 21.4 |
| 2 1 | 10 31.27 | + 8 10.8 | 2.151 | 3.071 | 7.8 | 20.4 | 2 1 | 10 31.63 | + 3 21.0 | 1.947 | 2.858 | 9.2 | 21.2 |
| 2 11 | 10 23.25 | + 9 1.7 | 2.114 | 3.084 | 4.1 | 20.1 | 2 11 | 10 23.52 | + 4 9.7 | 1.903 | 2.865 | 5.3 | 21.0 |
| 2 21 | 10 14.36 | + 9 57.6 | 2.107 | 3.096 | 0.3 | 19.8 | 2 21 | 10 14.40 | + 5 9.2 | 1.887 | 2.872 | 2.0 | 20.8 |
| 3 2 | 10 5.48 | +10 52.9 | 2.131 | 3.107 | 3.8 | 20.2 | 3 2 | 10 5.23 | + 6 13.5 | 1.901 | 2.878 | 4.0 | 21.0 |
| 3 12 | 9 57.51 | +11 42.7 | 2.185 | 3.118 | 7.5 | 20.4 | 3 12 | 9 57.00 | + 7 16.4 | 1.944 | 2.884 | 7.8 | 21.2 |
| 3 22 | 9 51.11 | +12 23.2 | 2.265 | 3.128 | 10.7 | 20.6 | 3 22 | 9 50.48 | + 8 12.4 | 2.014 | 2.888 | 11.4 | 21.4 |
| 4 1 | 9 46.77 | +12 52.3 | 2.368 | 3.137 | 13.4 | 20.8 | 4 1 | 9 46.18 | + 8 57.9 | 2.106 | 2.892 | 14.4 | 21.6 |
| 168293 | 4724 <i>P-L</i> | | 2 21.0 144°87' | 1°4'/19.8 | 18 | | 152437 | 2005 <i>UM</i> ₄₄₂ | | 2 21.0 219°81' | 3°2'/23.5 | 17 | |
| 1 22 | 10 40.92 | +13 6.8 | 1.947 | 2.804 | 11.9 | 21.8 | 1 22 | 10 39.06 | + 1 1.5 | 2.094 | 2.915 | 12.6 | 20.4 |
| 2 1 | 10 33.66 | +13 48.0 | 1.888 | 2.816 | 8.2 | 21.6 | 2 1 | 10 32.45 | + 0 47.3 | 2.008 | 2.908 | 9.5 | 20.2 |
| 2 11 | 10 24.52 | +14 34.7 | 1.855 | 2.828 | 4.1 | 21.4 | 2 11 | 10 23.99 | + 0 46.8 | 1.948 | 2.902 | 6.1 | 19.9 |
| 2 21 | 10 14.36 | +15 20.8 | 1.852 | 2.839 | 1.5 | 21.2 | 2 21 | 10 14.41 | + 0 58.4 | 1.915 | 2.894 | 3.4 | 19.7 |
| 3 2 | 10 4.26 | +16 0.7 | 1.879 | 2.849 | 5.0 | 21.5 | 3 2 | 10 4.64 | + 1 19.2 | 1.913 | 2.887 | 4.5 | 19.8 |
| 3 12 | 9 55.27 | +16 29.7 | 1.934 | 2.858 | 8.9 | 21.7 | 3 12 | 9 55.70 | + 1 44.8 | 1.939 | 2.878 | 7.9 | 20.0 |
| 3 22 | 9 48.20 | +16 45.7 | 2.015 | 2.866 | 12.4 | 21.9 | 3 22 | 9 48.40 | + 2 10.8 | 1.992 | 2.870 | 11.3 | 20.2 |
| 4 1 | 9 43.55 | +16 48.2 | 2.117 | 2.874 | 15.2 | 22.2 | 4 1 | 9 43.34 | + 2 33.1 | 2.068 | 2.861 | 14.4 | 20.4 |
| 204381 | 2004 <i>TO</i> ₁₂₂ | | 2 21.0 73°53' | 1°6'/19.9 | 18 | | 403255 | 2008 <i>YP</i> ₄₄ | | 2 21.0 314°07' | 1°0'/21.7 | 18 | |
| 1 22 | 10 41.15 | +12 38.6 | 1.365 | 2.236 | 15.0 | 20.7 | 1 22 | 10 39.80 | + 7 31.9 | 1.441 | 2.301 | 15.1 | 21.2 |
| 2 1 | 10 34.23 | +13 17.2 | 1.321 | 2.256 | 10.3 | 20.4 | 2 1 | 10 33.49 | + 7 37.6 | 1.371 | 2.298 | 10.8 | 21.0 |
| 2 11 | 10 24.91 | +14 3.3 | 1.300 | 2.275 | 5.2 | 20.2 | 2 11 | 10 24.70 | + 7 56.4 | 1.325 | 2.296 | 5.8 | 20.7 |
| 2 21 | 10 14.37 | +14 49.2 | 1.307 | 2.294 | 1.7 | 20.0 | 2 21 | 10 14.41 | + 8 23.7 | 1.305 | 2.294 | 1.1 | 20.3 |
| 3 2 | 10 4.06 | +15 27.3 | 1.340 | 2.313 | 6.1 | 20.3 | 3 2 | 10 3.99 | + 8 53.5 | 1.313 | 2.291 | 5.2 | 20.6 |
| 3 12 | 9 55.37 | +15 51.9 | 1.399 | 2.332 | 10.9 | 20.6 | 3 12 | 9 54.86 | + 9 19.6 | 1.346 | 2.289 | 10.2 | 20.9 |
| 3 22 | 9 49.25 | +16 0.9 | 1.481 | 2.351 | 15.0 | 20.9 | 3 22 | 9 48.10 | + 9 37.3 | 1.403 | 2.287 | 14.7 | 21.2 |
| 4 1 | 9 46.15 | +15 54.2 | 1.583 | 2.370 | 18.3 | 21.2 | 4 1 | 9 44.37 | + 9 43.7 | 1.480 | 2.286 | 18.5 | 21.4 |
| 153883 | 2001 <i>XQ</i> ₁₅₃ | | 2 21.0 145°25' | 0°6'/21.6 | 18 | | 421105 | 2013 <i>QK</i> ₆₇ | | 2 21.0 158°08' | 1°1'/21.9 | 16 | |
| 1 22 | 10 36.83 | + 6 59.5 | 2.097 | 2.942 | 11.6 | 21.0 | 1 22 | 10 37.17 | + 6 10.2 | 2.046 | 2.890 | 12.0 | 21.8 |
| 2 1 | 10 30.76 | + 7 30.6 | 2.029 | 2.950 | 8.2 | 20.8 | 2 1 | 10 31.07 | + 6 28.5 | 1.974 | 2.893 | 8.5 | 21.6 |
| 2 11 | 10 23.03 | + 8 12.3 | 1.988 | 2.957 | 4.4 | 20.5 | 2 11 | 10 23.24 | + 6 57.8 | 1.929 | 2.896 | 4.7 | 21.3 |
| 2 21 | 10 14.37 | + 9 0.0 | 1.976 | 2.964 | 0.6 | 20.3 | 2 21 | 10 14.42 | + 7 34.4 | 1.912 | 2.899 | 1.1 | 21.1 |
| 3 2 | 10 5.68 | + 9 48.5 | 1.993 | 2.970 | 3.9 | 20.5 | 3 2 | 10 5.54 | + 8 13.4 | 1.924 | 2.902 | 3.9 | 21.3 |
| 3 12 | 9 57.90 | +10 32.7 | 2.040 | 2.976 | 7.7 | 20.8 | 3 12 | 9 57.57 | + 8 50.0 | 1.966 | 2.905 | 7.8 | 21.5 |
| 3 22 | 9 51.75 | +11 8.7 | 2.113 | 2.982 | 11.1 | 21.0 | 3 22 | 9 51.27 | + 9 20.0 | 2.033 | 2.907 | 11.3 | 21.8 |
| 4 1 | 9 47.72 | +11 34.0 | 2.208 | 2.987 | 14.0 | 21.2 | 4 1 | 9 47.16 | + 9 40.9 | 2.123 | 2.909 | 14.3 | 22.0 |
| 487224 | 2014 <i>OW</i> ₃₉₁ | | 2 21.0 129°91' | 10°5'/7.1 | 18 | | 384931 | 2012 <i>TW</i> ₉₀ | | 2 21.0 299°69' | 1°3'/19.8 | 18 | |
| 1 22 | 10 36.81 | -29 33.1 | 2.479 | 3.087 | 16.1 | 21.3 | 1 22 | 10 34.67 | +12 44.2 | 2.052 | 2.916 | 11.0 | 20.5 |
| 2 1 | 10 30.69 | -29 41.5 | 2.403 | 3.104 | 14.6 | 21.2 | 2 1 | 10 29.43 | +13 25.8 | 1.976 | 2.908 | 7.6 | 20.2 |
| 2 11 | 10 22.98 | -29 19.2 | 2.345 | 3.120 | 13.0 | 21.1 | 2 11 | 10 22.44 | +14 14.0 | 1.926 | 2.900 | 3.9 | 20.0 |
| 2 21 | 10 14.37 | -28 24.4 | 2.308 | 3.136 | 11.5 | 21.0 | 2 21 | 10 14.41 | +15 3.6 | 1.905 | 2.892 | 1.4 | 19.8 |
| 3 2 | 10 5.76 | -26 58.5 | 2.295 | 3.152 | 10.6 | 21.0 | 3 2 | 10 6.26 | +15 48.7 | 1.913 | 2.884 | 4.8 | 20.0 |
| 3 12 | 9 58.04 | -25 6.9 | 2.308 | 3.166 | 10.6 | 21.0 | 3 12 | 9 58.95 | +16 24.4 | 1.948 | 2.876 | 8.6 | 20.2 |
| 3 22 | 9 51.91 | -22 57.7 | 2.346 | 3.180 | 11.5 | 21.1 | 3 22 | 9 53.25 | +16 47.6 | 2.009 | 2.868 | 12.1 | 20.4 |
| 4 1 | 9 47.84 | -20 40.2 | 2.410 | 3.193 | 12.8 | 21.2 | 4 1 | 9 49.71 | +16 57.1 | 2.091 | 2.861 | 15.0 | 20.6 |
| 359454 | 2010 <i>NH</i> ₃₀ | | 2 21.0 154°62' | 2°6'/24.3 | 18 | | 283915 | 2004 <i>FG</i> ₁₂₄ | | 2 21.0 231°79' | 4°8'/14.6 | 18 | |
| 1 22 | 10 32.14 | - 0 51.4 | | | | | | | | | | | |

EPHEMERIDES

2 21.0

2 21.1

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 234905 | 2002 <i>TG</i> ₂₄₄ | | 2 21.0 240°78 | 0°6/20.5 | 17 | | 168939 | 2000 <i>YB</i> ₁₀₈ | | 2 21.1 7°61 | 0°4/20.8 | 18 | |
| 1 22 | 10 35.30 | +11 5.5 | 2.188 | 3.046 | 10.7 | 21.0 | 1 22 | 10 36.55 | +10 20.8 | 1.139 | 2.021 | 16.5 | 19.3 |
| 2 1 | 10 29.73 | +11 37.0 | 2.114 | 3.043 | 7.5 | 20.8 | 2 1 | 10 31.57 | +10 38.4 | 1.082 | 2.021 | 11.6 | 19.0 |
| 2 11 | 10 22.55 | +12 15.4 | 2.067 | 3.040 | 3.8 | 20.5 | 2 11 | 10 23.81 | +11 8.7 | 1.048 | 2.023 | 5.9 | 18.7 |
| 2 21 | 10 14.42 | +12 56.3 | 2.049 | 3.037 | 0.7 | 20.3 | 2 21 | 10 14.45 | +11 44.8 | 1.037 | 2.026 | 0.4 | 18.3 |
| 3 2 | 10 6.21 | +13 34.7 | 2.060 | 3.034 | 4.2 | 20.6 | 3 2 | 10 5.06 | +12 18.4 | 1.051 | 2.030 | 6.1 | 18.7 |
| 3 12 | 9 58.82 | +14 6.1 | 2.100 | 3.031 | 7.9 | 20.8 | 3 12 | 9 57.27 | +12 42.3 | 1.089 | 2.035 | 11.7 | 19.0 |
| 3 22 | 9 52.96 | +14 27.7 | 2.165 | 3.028 | 11.2 | 21.0 | 3 22 | 9 52.20 | +12 52.2 | 1.148 | 2.041 | 16.6 | 19.3 |
| 4 1 | 9 49.13 | +14 37.9 | 2.253 | 3.025 | 14.0 | 21.2 | 4 1 | 9 50.46 | +12 46.3 | 1.224 | 2.048 | 20.5 | 19.6 |
| 255830 | 2006 <i>SY</i> ₈₉ | | 2 21.0 46°09 | 8°0/16.1 | 18 | | 36320 | 2000 <i>LD</i> ₂₃ | | 2 21.1 112°34 | 1°4/22.2 | 18 | |
| 1 22 | 10 45.21 | +30 1.1 | 1.512 | 2.382 | 13.9 | 20.5 | 1 22 | 10 37.62 | + 3 54.0 | 1.570 | 2.418 | 14.7 | 18.8 |
| 2 1 | 10 37.14 | +30 46.6 | 1.467 | 2.389 | 10.7 | 20.3 | 2 1 | 10 31.72 | + 4 40.9 | 1.509 | 2.429 | 10.6 | 18.6 |
| 2 11 | 10 26.45 | +31 19.2 | 1.447 | 2.396 | 8.3 | 20.2 | 2 11 | 10 23.69 | + 5 45.6 | 1.472 | 2.440 | 5.9 | 18.3 |
| 2 21 | 10 14.44 | +31 29.8 | 1.452 | 2.403 | 8.3 | 20.2 | 2 21 | 10 14.46 | + 7 1.9 | 1.463 | 2.450 | 1.6 | 18.1 |
| 3 2 | 10 2.72 | +31 13.1 | 1.484 | 2.411 | 10.6 | 20.3 | 3 2 | 10 5.22 | + 8 21.5 | 1.482 | 2.461 | 4.7 | 18.3 |
| 3 12 | 9 52.82 | +30 29.5 | 1.539 | 2.419 | 13.8 | 20.5 | 3 12 | 9 57.19 | + 9 36.0 | 1.528 | 2.471 | 9.3 | 18.6 |
| 3 22 | 9 45.74 | +29 23.0 | 1.617 | 2.427 | 16.8 | 20.8 | 3 22 | 9 51.28 | +10 38.7 | 1.599 | 2.480 | 13.4 | 18.9 |
| 4 1 | 9 41.93 | +27 59.6 | 1.712 | 2.435 | 19.4 | 21.0 | 4 1 | 9 48.04 | +11 25.9 | 1.691 | 2.489 | 16.8 | 19.1 |
| 171986 | 2001 <i>TX</i> ₁₈₈ | | 2 21.0 108°08 | 1°3/19.7 | 18 | | 54407 | 2000 <i>LU</i> ₆ | | 2 21.1 125°27 | 0°4/21.4 | 18 | |
| 1 22 | 10 35.74 | +13 56.6 | 2.524 | 3.381 | 9.5 | 20.2 | 1 22 | 10 35.81 | + 7 3.6 | 1.739 | 2.595 | 13.1 | 19.1 |
| 2 1 | 10 29.76 | +14 30.4 | 2.467 | 3.396 | 6.5 | 20.0 | 2 1 | 10 30.39 | + 7 46.9 | 1.670 | 2.596 | 9.3 | 18.9 |
| 2 11 | 10 22.44 | +15 7.6 | 2.439 | 3.411 | 3.3 | 19.8 | 2 11 | 10 23.00 | + 8 43.5 | 1.626 | 2.597 | 4.9 | 18.6 |
| 2 21 | 10 14.43 | +15 43.9 | 2.440 | 3.426 | 1.4 | 19.7 | 2 21 | 10 14.46 | + 9 47.9 | 1.609 | 2.597 | 0.4 | 18.3 |
| 3 2 | 10 6.46 | +16 15.3 | 2.472 | 3.441 | 4.1 | 19.9 | 3 2 | 10 5.82 | +10 52.9 | 1.621 | 2.598 | 4.5 | 18.6 |
| 3 12 | 9 59.31 | +16 38.4 | 2.533 | 3.455 | 7.2 | 20.1 | 3 12 | 9 58.19 | +11 51.6 | 1.660 | 2.599 | 9.0 | 18.9 |
| 3 22 | 9 53.56 | +16 51.5 | 2.621 | 3.469 | 9.9 | 20.3 | 3 22 | 9 52.45 | +12 38.7 | 1.724 | 2.600 | 12.9 | 19.1 |
| 4 1 | 9 49.60 | +16 54.0 | 2.731 | 3.483 | 12.3 | 20.5 | 4 1 | 9 49.17 | +13 11.4 | 1.809 | 2.600 | 16.2 | 19.3 |
| 57401 | 2001 <i>RB</i> ₉₃ | | 2 21.0 86°62 | 1°0/21.9 | 18 | | 464293 | 2016 <i>AE</i> ₇₉ | | 2 21.1 56°21 | 2°5/22.7 | 18 | |
| 1 22 | 10 36.55 | + 5 21.5 | 1.767 | 2.616 | 13.3 | 19.5 | 1 22 | 10 38.59 | + 3 45.1 | 1.416 | 2.268 | 15.8 | 20.9 |
| 2 1 | 10 30.73 | + 6 1.3 | 1.711 | 2.632 | 9.4 | 19.3 | 2 1 | 10 32.50 | + 3 50.0 | 1.360 | 2.280 | 11.5 | 20.7 |
| 2 11 | 10 23.08 | + 6 55.0 | 1.679 | 2.648 | 5.1 | 19.1 | 2 11 | 10 24.11 | + 4 12.3 | 1.328 | 2.293 | 6.7 | 20.4 |
| 2 21 | 10 14.43 | + 7 57.0 | 1.675 | 2.663 | 1.1 | 18.8 | 2 21 | 10 14.46 | + 4 47.8 | 1.321 | 2.306 | 2.6 | 20.2 |
| 3 2 | 10 5.83 | + 9 0.7 | 1.700 | 2.679 | 4.3 | 19.1 | 3 2 | 10 4.87 | + 5 30.2 | 1.341 | 2.320 | 5.0 | 20.4 |
| 3 12 | 9 58.34 | + 9 59.2 | 1.754 | 2.694 | 8.5 | 19.4 | 3 12 | 9 56.67 | + 6 12.2 | 1.387 | 2.333 | 9.7 | 20.7 |
| 3 22 | 9 52.73 | +10 47.6 | 1.832 | 2.709 | 12.2 | 19.6 | 3 22 | 9 50.80 | + 6 47.8 | 1.457 | 2.347 | 13.9 | 21.0 |
| 4 1 | 9 49.48 | +11 23.0 | 1.932 | 2.724 | 15.2 | 19.8 | 4 1 | 9 47.80 | + 7 13.0 | 1.547 | 2.361 | 17.4 | 21.2 |
| 39937 | 1998 <i>FW</i> ₉₈ | | 2 21.0 349°42 | 4°7/24.3 | 18 | | 235528 | 2004 <i>CJ</i> ₆₂ | | 2 21.1 282°94 | 4°3/16.7 | 18 | |
| 1 22 | 10 36.51 | - 1 31.7 | 1.423 | 2.259 | 16.6 | 18.0 | 1 22 | 10 35.71 | +22 21.0 | 2.178 | 3.049 | 10.2 | 20.6 |
| 2 1 | 10 31.23 | - 1 37.1 | 1.352 | 2.257 | 12.8 | 17.8 | 2 1 | 10 30.10 | +23 22.5 | 2.114 | 3.045 | 7.3 | 20.4 |
| 2 11 | 10 23.56 | - 1 19.1 | 1.302 | 2.255 | 8.5 | 17.5 | 2 11 | 10 22.77 | +24 22.2 | 2.078 | 3.042 | 4.8 | 20.2 |
| 2 21 | 10 14.43 | - 0 39.9 | 1.276 | 2.254 | 5.1 | 17.3 | 2 21 | 10 14.46 | +25 13.8 | 2.070 | 3.038 | 4.6 | 20.2 |
| 3 2 | 10 5.11 | + 0 15.2 | 1.277 | 2.253 | 5.9 | 17.4 | 3 2 | 10 6.08 | +25 51.4 | 2.091 | 3.034 | 6.9 | 20.3 |
| 3 12 | 9 56.98 | + 1 17.9 | 1.304 | 2.252 | 10.0 | 17.6 | 3 12 | 9 58.61 | +26 11.7 | 2.139 | 3.030 | 9.9 | 20.5 |
| 3 22 | 9 51.10 | + 2 19.5 | 1.354 | 2.251 | 14.2 | 17.8 | 3 22 | 9 52.79 | +26 13.9 | 2.210 | 3.027 | 12.7 | 20.7 |
| 4 1 | 9 48.13 | + 3 13.0 | 1.424 | 2.251 | 18.0 | 18.1 | 4 1 | 9 49.13 | +25 59.1 | 2.302 | 3.023 | 15.1 | 20.8 |
| 146085 | 2000 <i>HE</i> ₇₃ | | 2 21.0 313°54 | 2°6/23.1 | 18 | | 427542 | 2002 <i>RC</i> ₁₆₇ | | 2 21.1 111°73 | 1°8/19.4 | 18 | |
| 1 22 | 10 33.76 | + 1 50.1 | 1.513 | 2.362 | 15.1 | 20.3 | 1 22 | 10 37.50 | +15 30.8 | 2.188 | 3.050 | 10.5 | 20.7 |
| 2 1 | 10 29.32 | + 2 21.2 | 1.429 | 2.347 | 11.2 | 20.0 | 2 1 | 10 31.19 | +15 59.3 | 2.126 | 3.057 | 7.3 | 20.5 |
| 2 11 | 10 22.61 | + 3 14.0 | 1.367 | 2.332 | 6.8 | 19.7 | 2 11 | 10 23.27 | +16 30.3 | 2.092 | 3.064 | 3.8 | 20.3 |
| 2 21 | 10 14.43 | + 4 24.5 | 1.332 | 2.317 | 2.8 | 19.4 | 2 21 | 10 14.46 | +16 59.3 | 2.086 | 3.071 | 1.9 | 20.2 |
| 3 2 | 10 5.93 | + 5 45.3 | 1.323 | 2.303 | 4.9 | 19.5 | 3 2 | 10 5.69 | +17 21.6 | 2.110 | 3.078 | 4.8 | 20.4 |
| 3 12 | 9 58.41 | + 7 7.0 | 1.341 | 2.289 | 9.7 | 19.8 | 3 12 | 9 57.86 | +17 33.9 | 2.163 | 3.084 | 8.3 | 20.6 |
| 3 22 | 9 52.92 | + 8 21.1 | 1.382 | 2.276 | 14.3 | 20.0 | 3 22 | 9 51.67 | +17 34.8 | 2.242 | 3.091 | 11.4 | 20.8 |
| 4 1 | 9 50.20 | + 9 21.2 | 1.443 | 2.263 | 18.2 | 20.2 | 4 1 | 9 47.58 | +17 24.1 | 2.342 | 3.097 | 13.9 | 21.0 |
| 321695 | 2010 <i>EQ</i> ₁₂₃ | | 2 21.0 265°23 | 1°3/22.4 | 17 | | 511903 | 2015 <i>HK</i> ₄₂ | | 2 21.1 256°57 | 9°3/ 7.1 | 18 | |
| 1 22 | 10 32.91 | + 3 45.2 | 2.211 | 3.050 | 11.4 | 20.5 | 1 22 | 10 38.23 | +42 53.9 | 2.548 | 3.378 | 10.3 | 20.8 |
| 2 1 | 10 28.10 | + 4 27.3 | 2.129 | 3.044 | 8.2 | 20.3 | 2 1 | 10 32.09 | +44 41.4 | 2.507 | 3.369 | 9.4 | 20.8 |
| 2 11 | 10 21.73 | + 5 23.2 | 2.073 | 3.038 | 4.7 | 20.1 | 2 11 | 10 23.90 | +46 13.3 | 2.491 | 3.359 | 9.3 | 20.7 |
| 2 21 | 10 14.43 | + 6 28.8 | 2.046 | 3.033 | 1.4 | 19.9 | 2 21 | 10 14.47 | +47 22.0 | 2.502 | 3.349 | 10.1 | 20.8 |
| 3 2 | 10 7.01 | + 7 38.6 | 2.048 | 3.027 | 3.6 | 20.0 | 3 2 | 10 4.87 | +48 2.9 | 2.537 | 3.339 | 11.5 | 20.8 |
| 3 12 | 10 0.30 | + 8 46.6 | 2.080 | 3.021 | 7.3 | 20.2 | 3 12 | 9 56.25 | +48 14.9 | 2.593 | 3.329 | 13.0 | 20.9 |
| 3 22 | 9 55.01 | + 9 47.5 | 2.138 | 3.015 | 10.7 | 20.4 | 3 22 | 9 49.52 | +48 0.2 | 2.668 | 3.319 | 14.6 | 21.1 |
| 4 1 | 9 51.65 | +10 37.6 | 2.219 | 3.009 | 13.6 | 20.6 | 4 1 | 9 45.29 | +47 23.0 | 2.758 | 3.309 | 15.9 | 21.2 |
| 166371 | 2002 <i>LL</i> ₃₁ | | 2 21.0 261°20 | 5°1/16.9 | 18 | | 166157 | 2002 <i>EB</i> ₃₁ | | 2 21.1 344°45 | 3°8/18.9 | 18 | |
| 1 22 | 10 39.01 | +21 5.1 | 1.576 | 2.454 | 13.0 | 19.5 | 1 22 | 10 38.58 | +17 25.8 | 1.155 | 2.044 | 15.8 | 19.2 |
| 2 1 | 10 32.90 | +22 18.8 | 1.514 | 2.449 | 9.2 | 19.3 | 2 1 | 10 33.15 | +17 58.8 | 1.093 | 2.035 | 11.1 | 18.9 |
| 2 11 | 10 24.39 | +23 32.6 | 1.478 | 2.445 | 5.9 | 19.1 | 2 11 | 10 24.73 | +18 35.4 | 1.053 | 2.028 | 6.1 | 18.6 |
| 2 21 | 10 14.45 | +24 36.7 | 1.468 | 2.440 | 5.5 | 19.0 | 2 21 | 10 14.48 | +19 6.3 | 1.037 | 2.021 | 4.0 | 18.5 |
| 3 2 | 10 4.40 | +25 22.5 | 1.486 | 2.435 | 8.6 | 19.2 | 3 2 | 10 4.09 | +19 22.8 | 1.046 | 2.015 | 8.2 | 18.7 |
| 3 12 | 9 55.63 | +25 45.2 | 1.529 | 2.431 | 12.4 | 19.4 | 3 12 | 9 55.34 | +19 19.6 | 1.078 | 2.010 | 13.4 | 19.0 |
| 3 22 | 9 49.17 | +25 44.2 | 1.594 | 2.426 | 16.0 | 19.6 | 3 22 | 9 49.47 | +18 55.8 | 1.130 | 2.007 | 18.1 | 19.2 |
| 4 1 | 9 45.66 | +25 21.6 | 1.676 | 2.421 | 19.0 | 19.8 | 4 1 | 9 47.18 | +18 13.2 | 1.199 | 2.004 | 22.0 | 19.5 |
| 465949 | 2011 <i>BJ</i> ₃₃ | | 2 21.0 165°05 | 1°5/19.7 | 18 | | 433219 | 2012 <i>UN</i> ₁₃₉ | | 2 21.1 152°31 | 0°8/20.4 | 17 | |

EPHEMERIDES

2 21.1

2 21.1

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|-----------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 252221 | 2001 <i>MQ</i> ₁₆ | | 2 21.1 155°53 | 3°4/23.5 | 18 | | 356534 | 2011 <i>SR</i> ₁₃₁ | | 2 21.1 212°09 | 0°2/21.2 | 18 | |
| 1 22 | 10 39.92 | + 1 6.3 | 1.901 | 2.725 | 13.5 | 20.2 | 1 22 | 10 38.82 | + 7 38.6 | 1.827 | 2.677 | 12.9 | 21.6 |
| 2 1 | 10 33.11 | + 0 49.1 | 1.827 | 2.729 | 10.2 | 19.9 | 2 1 | 10 32.53 | + 8 21.9 | 1.747 | 2.671 | 9.1 | 21.4 |
| 2 11 | 10 24.36 | + 0 46.6 | 1.778 | 2.733 | 6.5 | 19.7 | 2 11 | 10 24.16 | + 9 17.9 | 1.693 | 2.664 | 4.8 | 21.1 |
| 2 21 | 10 14.48 | + 0 57.2 | 1.757 | 2.736 | 3.6 | 19.6 | 2 21 | 10 14.50 | +10 21.3 | 1.667 | 2.656 | 0.2 | 20.7 |
| 3 2 | 10 4.52 | + 1 17.6 | 1.765 | 2.739 | 4.8 | 19.6 | 3 2 | 10 4.64 | +11 25.0 | 1.671 | 2.647 | 4.6 | 21.0 |
| 3 12 | 9 55.55 | + 1 42.9 | 1.801 | 2.742 | 8.3 | 19.8 | 3 12 | 9 55.74 | +12 22.2 | 1.703 | 2.638 | 9.1 | 21.3 |
| 3 22 | 9 48.43 | + 2 8.4 | 1.864 | 2.744 | 11.8 | 20.1 | 3 22 | 9 48.72 | +13 8.0 | 1.760 | 2.628 | 13.1 | 21.5 |
| 4 1 | 9 43.73 | + 2 29.8 | 1.948 | 2.746 | 14.9 | 20.3 | 4 1 | 9 44.21 | +13 39.5 | 1.839 | 2.618 | 16.4 | 21.7 |
| 11099 | Sonodamasaki | | 2 21.1 217°53 | 5°2/16.3 | 18 | | 466028 | 2011 <i>HJ</i> ₈₄ | | 2 21.1 254°67 | 4°9/15.1 | 18 | |
| 1 22 | 10 41.12 | +23 52.6 | 1.992 | 2.858 | 11.2 | 18.2 | 1 22 | 10 35.52 | +23 45.4 | 2.321 | 3.191 | 9.7 | 21.4 |
| 2 1 | 10 34.09 | +25 4.5 | 1.923 | 2.850 | 8.2 | 18.0 | 2 1 | 10 30.06 | +25 20.2 | 2.246 | 3.175 | 7.1 | 21.2 |
| 2 11 | 10 24.93 | +26 13.7 | 1.880 | 2.840 | 5.7 | 17.8 | 2 11 | 10 22.84 | +26 54.2 | 2.200 | 3.158 | 5.2 | 21.0 |
| 2 21 | 10 14.49 | +27 12.1 | 1.867 | 2.830 | 5.6 | 17.8 | 2 21 | 10 14.50 | +28 19.7 | 2.184 | 3.141 | 5.4 | 21.0 |
| 3 2 | 10 3.88 | +27 52.7 | 1.882 | 2.819 | 8.1 | 17.9 | 3 2 | 10 5.93 | +29 29.8 | 2.196 | 3.124 | 7.6 | 21.1 |
| 3 12 | 9 54.32 | +28 11.6 | 1.925 | 2.807 | 11.3 | 18.1 | 3 12 | 9 58.09 | +30 19.8 | 2.236 | 3.106 | 10.4 | 21.3 |
| 3 22 | 9 46.74 | +28 8.9 | 1.990 | 2.794 | 14.3 | 18.2 | 3 22 | 9 51.79 | +30 48.2 | 2.299 | 3.088 | 13.1 | 21.4 |
| 4 1 | 9 41.76 | +27 46.6 | 2.075 | 2.781 | 16.9 | 18.4 | 4 1 | 9 47.62 | +30 56.0 | 2.382 | 3.070 | 15.4 | 21.6 |
| 341590 | 2007 <i>UM</i> ₉₀ | | 2 21.1 23°00 | 5°6/26.7 | 17 | | 459368 | 2012 <i>JK</i> ₂₄ | | 2 21.1 254°36 | 3°8/16.9 | 17 | |
| 1 22 | 10 32.92 | - 7 56.8 | 2.070 | 2.859 | 13.9 | 20.5 | 1 22 | 10 35.62 | +18 15.1 | 2.060 | 2.931 | 10.7 | 21.2 |
| 2 1 | 10 28.17 | - 7 58.2 | 1.993 | 2.862 | 11.2 | 20.3 | 2 1 | 10 30.26 | +19 51.5 | 1.982 | 2.916 | 7.5 | 20.9 |
| 2 11 | 10 21.79 | - 7 37.9 | 1.939 | 2.865 | 8.3 | 20.1 | 2 11 | 10 22.99 | +21 32.6 | 1.931 | 2.900 | 4.5 | 20.7 |
| 2 21 | 10 14.47 | - 6 56.9 | 1.911 | 2.868 | 6.1 | 20.0 | 2 21 | 10 14.50 | +23 10.0 | 1.910 | 2.884 | 4.2 | 20.7 |
| 3 2 | 10 7.06 | - 5 58.8 | 1.910 | 2.872 | 5.9 | 20.0 | 3 2 | 10 5.75 | +24 35.2 | 1.918 | 2.867 | 7.0 | 20.8 |
| 3 12 | 9 50.44 | - 4 49.6 | 1.937 | 2.875 | 8.0 | 20.1 | 3 12 | 9 57.79 | +25 42.1 | 1.954 | 2.850 | 10.4 | 21.0 |
| 3 22 | 9 55.35 | - 3 36.3 | 1.990 | 2.879 | 10.8 | 20.3 | 3 22 | 9 51.49 | +26 27.6 | 2.014 | 2.833 | 13.7 | 21.2 |
| 4 1 | 9 52.29 | - 2 25.4 | 2.066 | 2.883 | 13.5 | 20.5 | 4 1 | 9 47.47 | +26 51.6 | 2.094 | 2.815 | 16.4 | 21.3 |
| 317033 | 2001 <i>QX</i> ₂₇₇ | | 2 21.1 168°53 | 3°7/17.1 | 18 | | 151291 | 2002 <i>CV</i> ₁₀ | | 2 21.1 37°55 | 23°0/7.3 | 16 | |
| 1 22 | 10 37.36 | +19 32.0 | 2.191 | 3.058 | 10.3 | 21.2 | 1 22 | 11 5.34 | +55 38.4 | 0.978 | 1.793 | 24.1 | 19.5 |
| 2 1 | 10 31.22 | +20 54.0 | 2.131 | 3.062 | 7.2 | 21.0 | 2 1 | 10 53.74 | +57 32.2 | 0.965 | 1.796 | 23.2 | 19.5 |
| 2 11 | 10 23.35 | +22 16.9 | 2.099 | 3.066 | 4.4 | 20.8 | 2 11 | 10 35.62 | +58 31.6 | 0.966 | 1.801 | 23.0 | 19.5 |
| 2 21 | 10 14.49 | +23 33.3 | 2.097 | 3.069 | 4.0 | 20.8 | 2 21 | 10 14.58 | +58 19.8 | 0.983 | 1.805 | 23.8 | 19.6 |
| 3 2 | 10 5.56 | +24 36.6 | 2.125 | 3.072 | 6.5 | 21.0 | 3 2 | 9 55.36 | +56 53.6 | 1.014 | 1.810 | 25.1 | 19.7 |
| 3 12 | 9 57.54 | +25 22.3 | 2.180 | 3.074 | 9.6 | 21.2 | 3 12 | 9 41.58 | +54 25.4 | 1.058 | 1.815 | 26.8 | 19.8 |
| 3 22 | 9 51.19 | +25 49.1 | 2.260 | 3.075 | 12.5 | 21.4 | 3 22 | 9 34.33 | +51 14.4 | 1.115 | 1.821 | 28.6 | 20.0 |
| 4 1 | 9 47.00 | +25 57.6 | 2.361 | 3.076 | 14.9 | 21.5 | 4 1 | 9 33.12 | +47 37.5 | 1.183 | 1.827 | 30.1 | 20.2 |
| 98040 | 2000 <i>RC</i> ₂₃ | | 2 21.1 100°11 | 0°6/21.5 | 18 | | 424782 | 2008 <i>TO</i> ₁₃₁ | | 2 21.1 226°13 | 0°5/20.6 | 17 | |
| 1 22 | 10 40.15 | + 7 18.1 | 1.579 | 2.433 | 14.3 | 19.8 | 1 22 | 10 36.88 | +10 57.6 | 2.407 | 3.257 | 10.1 | 21.9 |
| 2 1 | 10 33.40 | + 7 46.7 | 1.525 | 2.450 | 10.1 | 19.6 | 2 1 | 10 30.80 | +11 26.1 | 2.322 | 3.247 | 7.1 | 21.7 |
| 2 11 | 10 24.52 | + 8 27.9 | 1.496 | 2.466 | 5.3 | 19.4 | 2 11 | 10 23.13 | +12 1.2 | 2.265 | 3.237 | 3.6 | 21.5 |
| 2 21 | 10 14.49 | + 9 16.0 | 1.494 | 2.482 | 0.7 | 19.1 | 2 21 | 10 14.52 | +12 38.7 | 2.237 | 3.225 | 0.5 | 21.2 |
| 3 2 | 10 4.57 | +10 4.3 | 1.520 | 2.498 | 4.8 | 19.4 | 3 2 | 10 5.76 | +13 14.3 | 2.240 | 3.214 | 3.9 | 21.4 |
| 3 12 | 9 55.98 | +10 46.2 | 1.574 | 2.513 | 9.3 | 19.7 | 3 12 | 9 57.71 | +13 43.8 | 2.273 | 3.202 | 7.5 | 21.7 |
| 3 22 | 9 49.60 | +11 17.5 | 1.652 | 2.528 | 13.3 | 20.0 | 3 22 | 9 51.08 | +14 4.5 | 2.332 | 3.189 | 10.7 | 21.8 |
| 4 1 | 9 45.93 | +11 35.9 | 1.751 | 2.543 | 16.6 | 20.2 | 4 1 | 9 46.40 | +14 14.7 | 2.414 | 3.176 | 13.4 | 22.0 |
| 209084 | 2003 <i>SJ</i> ₂₆ | | 2 21.1 107°96 | 2°2/19.5 | 18 | | 496548 | 2014 <i>WW</i> ₃₂₀ | | 2 21.1 71°71 | 9°9/2.7 | 18 | |
| 1 22 | 10 41.71 | +15 11.9 | 1.627 | 2.494 | 13.3 | 20.1 | 1 22 | 10 33.97 | -19 43.2 | 1.793 | 2.517 | 18.1 | 21.2 |
| 2 1 | 10 34.49 | +15 43.8 | 1.573 | 2.506 | 9.2 | 19.9 | 2 1 | 10 29.15 | -19 45.0 | 1.720 | 2.525 | 15.6 | 21.0 |
| 2 11 | 10 25.08 | +16 19.5 | 1.544 | 2.517 | 4.7 | 19.7 | 2 11 | 10 22.40 | -19 12.1 | 1.665 | 2.534 | 13.1 | 20.9 |
| 2 21 | 10 14.50 | +16 52.4 | 1.543 | 2.528 | 2.3 | 19.5 | 2 21 | 10 14.51 | -18 3.6 | 1.632 | 2.542 | 10.9 | 20.8 |
| 3 2 | 10 4.03 | +17 16.3 | 1.570 | 2.539 | 6.0 | 19.8 | 3 2 | 10 6.54 | -16 22.8 | 1.624 | 2.551 | 9.9 | 20.7 |
| 3 12 | 9 54.93 | +17 27.2 | 1.625 | 2.550 | 10.2 | 20.0 | 3 12 | 9 59.58 | -14 18.3 | 1.641 | 2.560 | 10.6 | 20.8 |
| 3 22 | 9 48.10 | +17 23.7 | 1.703 | 2.560 | 14.0 | 20.3 | 3 22 | 9 54.47 | -12 1.4 | 1.684 | 2.568 | 12.7 | 20.9 |
| 4 1 | 9 44.06 | +17 6.3 | 1.801 | 2.570 | 17.1 | 20.5 | 4 1 | 9 51.78 | - 9 43.7 | 1.751 | 2.577 | 15.2 | 21.1 |
| 51274 | 2000 <i>JR</i> ₇₇ | | 2 21.1 338°48 | 4°4/24.7 | 18 | | 40107 | 1998 <i>QB</i> ₇ | | 2 21.1 127°62 | 3°3/17.5 | 18 | |
| 1 22 | 10 35.47 | - 2 23.9 | 1.992 | 2.807 | 13.4 | 18.7 | 1 22 | 10 35.85 | +18 30.5 | 2.260 | 3.128 | 10.0 | 19.0 |
| 2 1 | 10 30.02 | - 2 42.3 | 1.912 | 2.803 | 10.4 | 18.5 | 2 1 | 10 30.08 | +19 46.2 | 2.207 | 3.139 | 6.9 | 18.8 |
| 2 11 | 10 22.79 | - 2 43.7 | 1.855 | 2.800 | 7.2 | 18.3 | 2 11 | 10 22.73 | +21 3.0 | 2.181 | 3.150 | 4.1 | 18.7 |
| 2 21 | 10 14.49 | - 2 29.0 | 1.826 | 2.797 | 4.7 | 18.1 | 2 21 | 10 14.52 | +22 14.2 | 2.185 | 3.161 | 3.5 | 18.6 |
| 3 2 | 10 6.04 | - 2 1.1 | 1.824 | 2.794 | 5.2 | 18.2 | 3 2 | 10 6.31 | +23 13.8 | 2.219 | 3.171 | 6.0 | 18.8 |
| 3 12 | 9 58.42 | - 1 25.0 | 1.850 | 2.792 | 8.0 | 18.3 | 3 12 | 9 58.98 | +23 57.7 | 2.281 | 3.181 | 9.0 | 19.0 |
| 3 22 | 9 52.44 | - 0 46.2 | 1.902 | 2.789 | 11.3 | 18.5 | 3 22 | 9 53.23 | +24 24.3 | 2.368 | 3.190 | 11.8 | 19.2 |
| 4 1 | 9 48.65 | - 0 9.7 | 1.976 | 2.787 | 14.3 | 18.7 | 4 1 | 9 49.50 | +24 34.0 | 2.475 | 3.199 | 14.1 | 19.4 |
| 348563 | 2005 <i>VO</i> ₅₇ | | 2 21.1 140°70 | 4°2/17.7 | 18 | | 135129 | 2001 <i>QR</i> ₁₆₉ | | 2 21.1 119°73 | 0°0/21.0 | 18 | |
| 1 22 | 10 40.97 | +18 29.8 | 1.595 | 2.468 | 13.2 | 21.1 | 1 22 | 10 42.27 | + 9 4.5 | 1.737 | 2.588 | 13.4 | 20.0 |
| 2 1 | 10 34.12 | +19 48.9 | 1.543 | 2.477 | 9.2 | 20.9 | 2 1 | 10 34.71 | + 9 34.5 | 1.683 | 2.608 | 9.3 | 19.8 |
| 2 11 | 10 24.95 | +21 9.8 | 1.516 | 2.486 | 5.4 | 20.7 | 2 11 | 10 25.15 | +10 14.0 | 1.656 | 2.627 | 4.8 | 19.6 |
| 2 21 | 10 14.50 | +22 22.9 | 1.518 | 2.494 | 4.5 | 20.7 | 2 21 | 10 14.53 | +10 57.6 | 1.657 | 2.645 | 0.0 | 19.2 |
| 3 2 | 10 4.08 | +23 19.5 | 1.547 | 2.502 | 7.7 | 20.9 | 3 2 | 10 4.05 | +11 39.0 | 1.687 | 2.663 | 4.7 | 19.7 |
| 3 12 | 9 55.03 | +23 54.6 | 1.603 | 2.510 | 11.6 | 21.1 | 3 12 | 9 54.87 | +12 13.0 | 1.746 | 2.680 | 9.0 | 20.0 |
| 3 22 | 9 48.31 | +24 7.3 | 1.682 | 2.516 | 15.2 | 21.4 | 3 22 | 9 47.82 | +12 36.1 | 1.830 | 2.696 | 12.7 | 20.2 |
| 4 1 | 9 44.47 | +23 59.4 | 1.779 | 2.522 | 18.1 | 21.6 | 4 1 | 9 43.38 | +12 47.0 | 1.935 | 2.711 | 15.8 | 20.5 |
| 221080 | 2005 <i>SR</i> ₃₉ | | 2 21.1 353°08 | 0°1/21.1 | 18 | | 15041 </ | | | | | | |

EPHEMERIDES

2 21.1

2 21.1

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 325118 | 2008 EA ₆₄ | | 2 21.1 174°63 | 1°9/22.6 | 18 | | 466844 | 2015 BY ₂₄₉ | | 2 21.1 114°28 | 1°9/19.2 | 18 | |
| 1 22 | 10 37.02 | + 3 48.7 | 1.805 | 2.647 | 13.4 | 21.4 | 1 22 | 10 35.24 | +13 50.4 | 2.099 | 2.964 | 10.8 | 21.3 |
| 2 1 | 10 31.21 | + 4 7.8 | 1.732 | 2.648 | 9.7 | 21.1 | 2 1 | 10 29.74 | +14 50.4 | 2.038 | 2.971 | 7.4 | 21.1 |
| 2 11 | 10 23.44 | + 4 41.8 | 1.684 | 2.648 | 5.6 | 20.9 | 2 11 | 10 22.61 | +15 55.7 | 2.005 | 2.978 | 3.8 | 20.9 |
| 2 21 | 10 14.53 | + 5 27.0 | 1.663 | 2.649 | 2.0 | 20.7 | 2 21 | 10 14.55 | +17 0.1 | 2.000 | 2.985 | 2.0 | 20.8 |
| 3 2 | 10 5.52 | + 6 17.7 | 1.671 | 2.649 | 4.3 | 20.8 | 3 2 | 10 6.48 | +17 57.6 | 2.025 | 2.992 | 5.1 | 21.0 |
| 3 12 | 9 57.49 | + 7 7.6 | 1.706 | 2.649 | 8.5 | 21.1 | 3 12 | 9 59.31 | +18 43.1 | 2.078 | 2.998 | 8.6 | 21.3 |
| 3 22 | 9 51.30 | + 7 51.3 | 1.767 | 2.649 | 12.3 | 21.3 | 3 22 | 9 53.76 | +19 14.0 | 2.156 | 3.005 | 11.8 | 21.5 |
| 4 1 | 9 47.53 | + 8 24.9 | 1.850 | 2.649 | 15.6 | 21.5 | 4 1 | 9 50.29 | +19 29.6 | 2.256 | 3.011 | 14.4 | 21.7 |
| 195488 | 2002 GB ₁₄₉ | | 2 21.1 162°93 | 2°4/18.9 | 18 | | 15631 | Dellorusso | | 2 21.1 50°73 | 4°2/25.3 | 18 | |
| 1 22 | 10 37.86 | +16 22.3 | 1.963 | 2.830 | 11.3 | 20.2 | 1 22 | 10 33.12 | - 4 17.5 | 2.035 | 2.844 | 13.4 | 17.4 |
| 2 1 | 10 31.67 | +17 1.4 | 1.898 | 2.831 | 7.8 | 20.0 | 2 1 | 10 28.31 | - 3 59.8 | 1.963 | 2.851 | 10.4 | 17.2 |
| 2 11 | 10 23.63 | +17 43.4 | 1.860 | 2.832 | 4.2 | 19.8 | 2 11 | 10 21.89 | - 3 22.0 | 1.915 | 2.857 | 7.2 | 17.0 |
| 2 21 | 10 14.54 | +18 22.3 | 1.849 | 2.833 | 2.6 | 19.7 | 2 21 | 10 14.55 | - 2 26.7 | 1.893 | 2.864 | 4.6 | 16.9 |
| 3 2 | 10 5.41 | +18 52.5 | 1.868 | 2.833 | 5.6 | 19.9 | 3 2 | 10 7.15 | - 1 18.6 | 1.899 | 2.871 | 4.8 | 16.9 |
| 3 12 | 9 57.31 | +19 10.1 | 1.915 | 2.834 | 9.3 | 20.1 | 3 12 | 10 0.59 | - 0 4.4 | 1.934 | 2.878 | 7.6 | 17.1 |
| 3 22 | 9 51.01 | +19 13.4 | 1.986 | 2.835 | 12.7 | 20.3 | 3 22 | 9 55.56 | + 1 9.2 | 1.995 | 2.885 | 10.7 | 17.3 |
| 4 1 | 9 47.06 | +19 2.5 | 2.078 | 2.835 | 15.5 | 20.5 | 4 1 | 9 52.58 | + 2 16.4 | 2.079 | 2.892 | 13.6 | 17.5 |
| 152773 | 1999 RO ₉₀ | | 2 21.1 161°03 | 2°0/19.1 | 18 | | 35902 | 1999 JM ₈₈ | | 2 21.1 261°79 | 3°4/18.3 | 18 | |
| 1 22 | 10 36.89 | +15 19.0 | 2.219 | 3.082 | 10.4 | 20.4 | 1 22 | 10 37.42 | +15 29.2 | 1.539 | 2.415 | 13.3 | 19.2 |
| 2 1 | 10 30.82 | +16 6.4 | 2.155 | 3.086 | 7.2 | 20.2 | 2 1 | 10 31.92 | +16 51.9 | 1.468 | 2.406 | 9.3 | 19.0 |
| 2 11 | 10 23.14 | +16 57.4 | 2.117 | 3.090 | 3.7 | 20.0 | 2 11 | 10 24.00 | +18 22.7 | 1.423 | 2.396 | 5.1 | 18.7 |
| 2 21 | 10 14.53 | +17 46.4 | 2.109 | 3.093 | 2.2 | 19.9 | 2 21 | 10 14.57 | +19 51.8 | 1.405 | 2.386 | 3.7 | 18.6 |
| 3 2 | 10 5.91 | +18 28.1 | 2.131 | 3.096 | 5.0 | 20.1 | 3 2 | 10 4.91 | +21 9.0 | 1.414 | 2.376 | 7.4 | 18.8 |
| 3 12 | 9 58.16 | +18 58.4 | 2.182 | 3.099 | 8.4 | 20.3 | 3 12 | 9 56.37 | +22 6.5 | 1.449 | 2.366 | 11.9 | 19.0 |
| 3 22 | 9 52.00 | +19 15.3 | 2.257 | 3.101 | 11.5 | 20.5 | 3 22 | 9 50.06 | +22 40.9 | 1.507 | 2.356 | 15.9 | 19.2 |
| 4 1 | 9 47.92 | +19 18.5 | 2.355 | 3.103 | 14.1 | 20.7 | 4 1 | 9 46.66 | +22 52.1 | 1.583 | 2.346 | 19.3 | 19.4 |
| 477221 | 2009 LY | | 2 21.1 317°17 | 0°1/20.9 | 16 | | 322648 | 1999 CR ₁₃₈ | | 2 21.1 333°72 | 1°4/19.8 | 18 | |
| 1 22 | 10 31.33 | + 5 3.9 | 1.919 | 2.771 | 12.2 | 20.1 | 1 22 | 10 32.51 | + 8 58.0 | 1.478 | 2.351 | 14.0 | 19.8 |
| 2 1 | 10 27.43 | + 6 46.3 | 1.812 | 2.737 | 8.7 | 19.8 | 2 1 | 10 28.48 | +10 34.8 | 1.407 | 2.343 | 9.7 | 19.5 |
| 2 11 | 10 21.63 | + 8 50.6 | 1.732 | 2.703 | 4.6 | 19.5 | 2 11 | 10 22.22 | +12 29.2 | 1.360 | 2.335 | 4.9 | 19.2 |
| 2 21 | 10 14.53 | +11 10.0 | 1.681 | 2.670 | 0.1 | 19.0 | 2 21 | 10 14.56 | +14 31.2 | 1.340 | 2.327 | 1.5 | 19.0 |
| 3 2 | 10 6.98 | +13 34.4 | 1.661 | 2.637 | 4.8 | 19.3 | 3 2 | 10 6.68 | +16 29.0 | 1.348 | 2.321 | 6.1 | 19.3 |
| 3 12 | 10 0.03 | +15 52.7 | 1.671 | 2.604 | 9.4 | 19.5 | 3 12 | 9 59.85 | +18 11.4 | 1.382 | 2.314 | 11.0 | 19.5 |
| 3 22 | 9 54.62 | +17 55.5 | 1.706 | 2.572 | 13.5 | 19.7 | 3 22 | 9 55.10 | +19 31.4 | 1.439 | 2.309 | 15.3 | 19.8 |
| 4 1 | 9 51.48 | +19 36.8 | 1.764 | 2.540 | 17.1 | 19.9 | 4 1 | 9 53.08 | +20 26.0 | 1.516 | 2.304 | 18.9 | 20.0 |
| 306103 | 2010 HE ₁₀₅ | | 2 21.1 2°74 | 2°3/22.6 | 18 | | 239505 | 2007 VR ₁₈₉ | | 2 21.1 234°94 | 3°6/17.0 | 18 | |
| 1 22 | 10 36.56 | + 3 17.3 | 1.316 | 2.173 | 16.4 | 20.7 | 1 22 | 10 34.48 | +20 3.3 | 2.321 | 3.192 | 9.7 | 20.3 |
| 2 1 | 10 31.41 | + 3 42.7 | 1.249 | 2.172 | 12.0 | 20.4 | 2 1 | 10 29.21 | +21 14.1 | 2.255 | 3.188 | 6.8 | 20.1 |
| 2 11 | 10 23.74 | + 4 29.1 | 1.205 | 2.172 | 7.0 | 20.1 | 2 11 | 10 22.35 | +22 25.6 | 2.217 | 3.184 | 4.2 | 19.9 |
| 2 21 | 10 14.55 | + 5 31.5 | 1.186 | 2.172 | 2.5 | 19.8 | 2 21 | 10 14.57 | +23 31.4 | 2.207 | 3.180 | 3.9 | 19.9 |
| 3 2 | 10 5.20 | + 6 41.4 | 1.193 | 2.173 | 5.3 | 20.0 | 3 2 | 10 6.69 | +24 25.5 | 2.228 | 3.176 | 6.2 | 20.0 |
| 3 12 | 9 57.17 | + 7 49.3 | 1.225 | 2.174 | 10.4 | 20.3 | 3 12 | 9 59.60 | +25 3.9 | 2.275 | 3.171 | 9.2 | 20.2 |
| 3 22 | 9 51.55 | + 8 47.4 | 1.280 | 2.175 | 15.1 | 20.6 | 3 22 | 9 54.00 | +25 25.1 | 2.348 | 3.167 | 11.9 | 20.4 |
| 4 1 | 9 48.98 | + 9 30.3 | 1.355 | 2.176 | 19.1 | 20.8 | 4 1 | 9 50.39 | +25 29.3 | 2.440 | 3.163 | 14.3 | 20.5 |
| 421306 | 2013 TS ₃₆ | | 2 21.1 242°43 | 5°4/16.3 | 18 | | 371960 | 2008 FM ₅₁ | | 2 21.1 235°80 | 0°8/20.4 | 17 | |
| 1 22 | 10 38.80 | +24 32.6 | 1.938 | 2.809 | 11.3 | 20.6 | 1 22 | 10 37.14 | +10 50.2 | 2.023 | 2.880 | 11.5 | 22.4 |
| 2 1 | 10 32.45 | +25 34.4 | 1.877 | 2.805 | 8.2 | 20.4 | 2 1 | 10 31.25 | +11 33.3 | 1.941 | 2.869 | 8.0 | 22.2 |
| 2 11 | 10 24.08 | +26 32.1 | 1.842 | 2.801 | 5.8 | 20.2 | 2 11 | 10 23.49 | +12 25.2 | 1.886 | 2.858 | 4.1 | 21.9 |
| 2 21 | 10 14.55 | +27 18.1 | 1.835 | 2.797 | 5.7 | 20.2 | 2 21 | 10 14.58 | +13 20.5 | 1.859 | 2.847 | 0.8 | 21.7 |
| 3 2 | 10 4.97 | +27 46.4 | 1.856 | 2.793 | 8.1 | 20.3 | 3 2 | 10 5.48 | +14 13.1 | 1.862 | 2.835 | 4.7 | 21.9 |
| 3 12 | 9 56.49 | +27 53.6 | 1.903 | 2.789 | 11.2 | 20.5 | 3 12 | 9 57.21 | +14 57.3 | 1.893 | 2.823 | 8.7 | 22.1 |
| 3 22 | 9 49.99 | +27 40.3 | 1.973 | 2.785 | 14.2 | 20.7 | 3 22 | 9 50.62 | +15 29.7 | 1.950 | 2.810 | 12.3 | 22.3 |
| 4 1 | 9 46.00 | +27 8.5 | 2.062 | 2.781 | 16.7 | 20.9 | 4 1 | 9 46.30 | +15 48.1 | 2.028 | 2.797 | 15.4 | 22.5 |
| 37290 | 2000 YX ₁₃₅ | | 2 21.1 165°54 | 1°4/19.6 | 18 | | 498815 | 2008 UY ₃₄₄ | | 2 21.1 97°98 | 3°2/24.2 | 18 | |
| 1 22 | 10 35.68 | +12 29.4 | 2.388 | 3.245 | 10.0 | 18.7 | 1 22 | 10 34.61 | - 1 8.3 | 2.127 | 2.946 | 12.5 | 21.6 |
| 2 1 | 10 29.92 | +13 31.1 | 2.321 | 3.250 | 6.9 | 18.5 | 2 1 | 10 29.27 | - 0 53.7 | 2.057 | 2.954 | 9.5 | 21.4 |
| 2 11 | 10 22.66 | +14 38.9 | 2.281 | 3.254 | 3.5 | 18.3 | 2 11 | 10 22.37 | - 0 22.6 | 2.011 | 2.962 | 6.2 | 21.3 |
| 2 21 | 10 14.55 | +15 47.3 | 2.272 | 3.258 | 1.5 | 18.1 | 2 21 | 10 14.57 | + 0 22.3 | 1.993 | 2.970 | 3.5 | 21.1 |
| 3 2 | 10 6.38 | +16 50.4 | 2.293 | 3.262 | 4.4 | 18.4 | 3 2 | 10 6.73 | + 1 16.5 | 2.004 | 2.978 | 4.2 | 21.2 |
| 3 12 | 9 58.98 | +17 43.5 | 2.344 | 3.264 | 7.8 | 18.6 | 3 12 | 9 59.73 | + 2 14.3 | 2.043 | 2.986 | 7.3 | 21.4 |
| 3 22 | 9 53.01 | +18 23.8 | 2.421 | 3.267 | 10.8 | 18.8 | 3 22 | 9 54.24 | + 3 10.2 | 2.109 | 2.994 | 10.5 | 21.6 |
| 4 1 | 9 48.95 | +18 49.9 | 2.521 | 3.268 | 13.3 | 19.0 | 4 1 | 9 50.76 | + 3 59.5 | 2.198 | 3.002 | 13.3 | 21.8 |
| 348942 | 2006 TC ₉₃ | | 2 21.1 167°73 | 5°1/27.9 | 17 | | 110301 | 2001 SC ₂₇₀ | | 2 21.1 179°14 | 1°3/20.2 | 18 | |
| 1 22 | 10 32.78 | -11 41.6 | 3.024 | 3.769 | 10.9 | 22.2 | 1 22 | 10 42.79 | +14 29.6 | 1.861 | 2.719 | 12.3 | 19.5 |
| 2 1 | 10 27.69 | -11 38.6 | 2.938 | 3.772 | 9.0 | 22.0 | 2 1 | 10 35.17 | +14 31.3 | 1.791 | 2.720 | 8.5 | 19.2 |
| 2 11 | 10 21.45 | -11 18.2 | 2.877 | 3.776 | 7.1 | 21.9 | 2 11 | 10 25.47 | +14 35.9 | 1.747 | 2.720 | 4.4 | 19.0 |
| 2 21 | 10 14.54 | -10 41.1 | 2.842 | 3.779 | 5.5 | 21.8 | 2 21 | 10 14.60 | +14 39.0 | 1.733 | 2.720 | 1.4 | 18.8 |
| 3 2 | 10 7.56 | - 9 49.6 | 2.837 | 3.782 | 5.2 | 21.8 | 3 2 | 10 3.72 | +14 36.7 | 1.748 | 2.720 | 5.0 | 19.0 |
| 3 12 | 10 1.12 | - 8 47.8 | 2.860 | 3.784 | 6.4 | 21.9 | 3 12 | 9 54.01 | +14 25.9 | 1.792 | 2.720 | 9.2 | 19.3 |
| 3 22 | 9 55.76 | - 7 40.3 | 2.912 | 3.786 | 8.3 | 22.0 | 3 22 | 9 46.35 | +14 5.7 | 1.861 | 2.720 | 12.9 | 19.5 |
| 4 1 | 9 51.86 | - 6 32.0 | 2.989 | 3.787 | 10.2 | 22.1 | 4 1 | 9 41.29 | +13 36.0 | 1.951 | 2.719 | 15.9 | 19.7 |
| 135355 | 2001 TE ₇₇ | | 2 21.1 101°86 | 1°0/22.2 | 18 | | 89947 | 2002 GQ ₄₈ | | 2 21.1 185°34 | 3°7/25.3 | 18 | |
| | | | | | | | | | | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 501004 | 2013 <i>RE</i> ₂₉ | | 2 21.1 257°98 | 1°3/19.9 | 17 | | 507382 | 2012 <i>EZ</i> ₁₈ | | 2 21.1 263°44 | 6°3/27.1 | 17 | |
| 1 22 | 10 36.55 | +12 20.9 | 1.957 | 2.820 | 11.6 | 21.8 | 1 22 | 10 34.48 | - 9 53.9 | 1.993 | 2.771 | 14.7 | 21.9 |
| 2 1 | 10 30.88 | +13 3.9 | 1.878 | 2.809 | 8.0 | 21.6 | 2 1 | 10 29.51 | - 9 46.2 | 1.895 | 2.755 | 12.1 | 21.7 |
| 2 11 | 10 23.31 | +13 54.5 | 1.826 | 2.799 | 4.1 | 21.3 | 2 11 | 10 22.67 | - 9 13.0 | 1.820 | 2.740 | 9.2 | 21.5 |
| 2 21 | 10 14.58 | +14 47.0 | 1.801 | 2.789 | 1.4 | 21.1 | 2 21 | 10 14.63 | - 8 14.8 | 1.770 | 2.724 | 6.8 | 21.3 |
| 3 2 | 10 5.68 | +15 35.1 | 1.806 | 2.778 | 5.0 | 21.3 | 3 2 | 10 6.28 | - 6 54.8 | 1.748 | 2.707 | 6.6 | 21.3 |
| 3 12 | 9 57.66 | +16 13.5 | 1.839 | 2.767 | 9.0 | 21.5 | 3 12 | 9 58.65 | - 5 20.1 | 1.753 | 2.691 | 8.7 | 21.4 |
| 3 22 | 9 51.36 | +16 38.8 | 1.897 | 2.756 | 12.7 | 21.7 | 3 22 | 9 52.61 | - 3 39.2 | 1.785 | 2.674 | 11.8 | 21.5 |
| 4 1 | 9 47.38 | +16 49.6 | 1.975 | 2.745 | 15.7 | 21.9 | 4 1 | 9 48.81 | - 2 0.6 | 1.840 | 2.657 | 15.0 | 21.7 |
| 174209 | 2002 <i>QX</i> ₇₉ | | 2 21.1 196°50 | 1°4/22.1 | 18 | | 118915 | 2000 <i>VM</i> ₂₅ | | 2 21.1 169°53 | 0°3/20.7 | 18 | |
| 1 22 | 10 39.15 | + 5 38.2 | 1.911 | 2.753 | 12.8 | 20.8 | 1 22 | 10 33.51 | +10 5.2 | 2.941 | 3.788 | 8.6 | 21.1 |
| 2 1 | 10 32.65 | + 5 51.6 | 1.834 | 2.751 | 9.2 | 20.5 | 2 1 | 10 28.22 | +10 41.7 | 2.868 | 3.791 | 6.0 | 21.0 |
| 2 11 | 10 24.20 | + 6 17.1 | 1.782 | 2.748 | 5.2 | 20.3 | 2 11 | 10 21.75 | +11 24.0 | 2.823 | 3.794 | 3.0 | 20.8 |
| 2 21 | 10 14.59 | + 6 51.3 | 1.758 | 2.746 | 1.5 | 20.0 | 2 21 | 10 14.62 | +12 8.7 | 2.808 | 3.797 | 0.3 | 20.5 |
| 3 2 | 10 4.85 | + 7 29.1 | 1.764 | 2.742 | 4.2 | 20.2 | 3 2 | 10 7.45 | +12 51.9 | 2.825 | 3.799 | 3.2 | 20.8 |
| 3 12 | 9 56.06 | + 8 5.2 | 1.799 | 2.738 | 8.4 | 20.4 | 3 12 | 10 0.87 | +13 30.1 | 2.872 | 3.801 | 6.1 | 21.0 |
| 3 22 | 9 49.09 | + 8 35.1 | 1.859 | 2.734 | 12.1 | 20.7 | 3 22 | 9 55.41 | +14 0.7 | 2.946 | 3.802 | 8.7 | 21.1 |
| 4 1 | 9 44.51 | + 8 55.9 | 1.941 | 2.729 | 15.3 | 20.9 | 4 1 | 9 51.46 | +14 22.3 | 3.044 | 3.803 | 11.0 | 21.3 |
| 438071 | 2004 <i>RW</i> ₁₂₃ | | 2 21.1 53°11 | 6°8/25.7 | 16 | | 264761 | 2002 <i>EY</i> ₅₉ | | 2 21.1 271°31 | 1°7/19.9 | 17 | |
| 1 22 | 10 46.75 | - 5 39.1 | 1.167 | 1.985 | 20.7 | 19.7 | 1 22 | 10 40.92 | +15 23.0 | 1.920 | 2.782 | 11.8 | 20.4 |
| 2 1 | 10 37.94 | - 5 59.5 | 1.146 | 2.036 | 15.9 | 19.6 | 2 1 | 10 33.93 | +15 32.3 | 1.843 | 2.773 | 8.2 | 20.1 |
| 2 11 | 10 26.73 | - 5 48.4 | 1.146 | 2.087 | 11.0 | 19.5 | 2 11 | 10 24.90 | +15 44.2 | 1.791 | 2.764 | 4.3 | 19.9 |
| 2 21 | 10 14.61 | - 5 9.5 | 1.170 | 2.138 | 7.4 | 19.4 | 2 21 | 10 14.65 | +15 53.9 | 1.769 | 2.755 | 1.8 | 19.7 |
| 3 2 | 10 3.24 | - 4 10.7 | 1.220 | 2.188 | 7.5 | 19.6 | 3 2 | 10 4.29 | +15 57.1 | 1.776 | 2.746 | 5.2 | 19.9 |
| 3 12 | 9 54.02 | - 3 3.1 | 1.296 | 2.238 | 10.7 | 19.9 | 3 12 | 9 54.96 | +15 50.6 | 1.811 | 2.737 | 9.3 | 20.1 |
| 3 22 | 9 47.76 | - 1 56.6 | 1.394 | 2.286 | 14.3 | 20.2 | 3 22 | 9 47.56 | +15 33.2 | 1.871 | 2.728 | 12.9 | 20.3 |
| 4 1 | 9 44.75 | - 0 58.4 | 1.513 | 2.334 | 17.4 | 20.6 | 4 1 | 9 42.67 | +15 4.8 | 1.952 | 2.719 | 16.0 | 20.5 |
| 268145 | 2004 <i>TX</i> ₂₂₅ | | 2 21.1 95°21 | 1°0/21.9 | 18 | | 434836 | 2006 <i>SR</i> ₇₂ | | 2 21.1 171°44 | 2°2/23.6 | 17 | |
| 1 22 | 10 35.31 | + 5 28.6 | 1.922 | 2.770 | 12.5 | 21.0 | 1 22 | 10 32.80 | + 0 43.2 | 2.607 | 3.427 | 10.4 | 21.8 |
| 2 1 | 10 29.89 | + 6 6.7 | 1.857 | 2.777 | 8.9 | 20.8 | 2 1 | 10 27.85 | + 1 11.5 | 2.527 | 3.429 | 7.7 | 21.6 |
| 2 11 | 10 22.73 | + 6 57.9 | 1.817 | 2.785 | 4.8 | 20.5 | 2 11 | 10 21.61 | + 1 52.8 | 2.474 | 3.430 | 4.8 | 21.5 |
| 2 21 | 10 14.59 | + 7 57.4 | 1.804 | 2.792 | 1.1 | 20.3 | 2 21 | 10 14.62 | + 2 44.3 | 2.449 | 3.431 | 2.4 | 21.3 |
| 3 2 | 10 6.42 | + 8 59.0 | 1.821 | 2.800 | 4.0 | 20.5 | 3 2 | 10 7.56 | + 3 41.9 | 2.455 | 3.432 | 3.3 | 21.4 |
| 3 12 | 9 59.19 | + 9 56.4 | 1.867 | 2.807 | 8.0 | 20.8 | 3 12 | 10 1.13 | + 4 40.9 | 2.491 | 3.433 | 6.2 | 21.5 |
| 3 22 | 9 53.66 | +10 44.8 | 1.938 | 2.814 | 11.6 | 21.0 | 3 22 | 9 55.91 | + 5 36.7 | 2.554 | 3.433 | 9.1 | 21.7 |
| 4 1 | 9 50.34 | +11 21.1 | 2.030 | 2.822 | 14.7 | 21.2 | 4 1 | 9 52.33 | + 6 25.8 | 2.641 | 3.433 | 11.6 | 21.9 |
| 424715 | 2008 <i>SV</i> ₁₃₀ | | 2 21.1 194°12 | 0°3/20.8 | 17 | | 241580 | 1995 <i>YN</i> ₁₂ | | 2 21.1 151°06 | 15°9/4.1 | 18 | |
| 1 22 | 10 36.35 | +10 18.0 | 2.177 | 3.031 | 10.9 | 22.0 | 1 22 | 10 41.78 | -24 15.8 | 1.319 | 2.030 | 24.0 | 20.2 |
| 2 1 | 10 30.52 | +10 46.5 | 2.104 | 3.030 | 7.6 | 21.8 | 2 1 | 10 35.43 | -25 41.5 | 1.253 | 2.036 | 21.6 | 20.0 |
| 2 11 | 10 23.03 | +11 22.5 | 2.057 | 3.029 | 3.9 | 21.5 | 2 11 | 10 26.04 | -26 24.1 | 1.203 | 2.041 | 19.1 | 19.8 |
| 2 21 | 10 14.60 | +12 1.7 | 2.039 | 3.028 | 0.4 | 21.2 | 2 21 | 10 14.66 | -26 16.2 | 1.169 | 2.046 | 17.0 | 19.7 |
| 3 2 | 10 6.09 | +12 39.0 | 2.051 | 3.026 | 4.1 | 21.5 | 3 2 | 10 2.92 | -25 16.2 | 1.156 | 2.051 | 15.9 | 19.6 |
| 3 12 | 9 58.42 | +13 10.2 | 2.092 | 3.024 | 7.8 | 21.8 | 3 12 | 9 52.62 | -23 31.3 | 1.164 | 2.055 | 16.4 | 19.7 |
| 3 22 | 9 52.30 | +13 32.2 | 2.159 | 3.022 | 11.2 | 22.0 | 3 22 | 9 45.13 | -21 15.9 | 1.192 | 2.058 | 18.1 | 19.8 |
| 4 1 | 9 48.25 | +13 43.2 | 2.247 | 3.020 | 14.0 | 22.2 | 4 1 | 9 41.29 | -18 46.8 | 1.239 | 2.060 | 20.5 | 20.0 |
| 241325 | 2007 <i>VO</i> ₁₁₃ | | 2 21.1 23°15 | 1°3/19.9 | 18 | | 209364 | 2004 <i>DA</i> ₆₄ | | 2 21.1 60°75 | 0°1/21.2 | 18 | |
| 1 22 | 10 34.13 | +12 29.4 | 2.025 | 2.890 | 11.1 | 20.1 | 1 22 | 10 33.12 | + 6 5.7 | 1.982 | 2.833 | 12.0 | 20.1 |
| 2 1 | 10 29.04 | +13 14.0 | 1.961 | 2.893 | 7.7 | 19.9 | 2 1 | 10 28.29 | + 7 26.7 | 1.927 | 2.852 | 8.3 | 19.9 |
| 2 11 | 10 22.29 | +14 5.2 | 1.922 | 2.896 | 3.9 | 19.7 | 2 11 | 10 21.88 | + 9 0.5 | 1.900 | 2.871 | 4.3 | 19.7 |
| 2 21 | 10 14.60 | +14 57.4 | 1.913 | 2.900 | 1.4 | 19.5 | 2 21 | 10 14.63 | +10 40.2 | 1.901 | 2.890 | 0.1 | 19.3 |
| 3 2 | 10 6.87 | +15 44.7 | 1.932 | 2.904 | 4.7 | 19.8 | 3 2 | 10 7.40 | +12 17.8 | 1.933 | 2.909 | 4.1 | 19.7 |
| 3 12 | 10 0.05 | +16 22.3 | 1.979 | 2.908 | 8.5 | 20.0 | 3 12 | 10 1.10 | +13 46.1 | 1.993 | 2.928 | 8.0 | 20.0 |
| 3 22 | 9 54.84 | +16 47.4 | 2.052 | 2.912 | 11.8 | 20.2 | 3 22 | 9 56.39 | +15 0.0 | 2.080 | 2.948 | 11.3 | 20.2 |
| 4 1 | 9 51.74 | +16 58.6 | 2.145 | 2.917 | 14.6 | 20.4 | 4 1 | 9 53.72 | +15 56.7 | 2.188 | 2.967 | 14.1 | 20.5 |
| 403529 | 2010 <i>ED</i> ₁₂₇ | | 2 21.1 297°44 | 1°1/20.3 | 17 | | 281308 | 2007 <i>SE</i> ₁₅ | | 2 21.1 179°95 | 0°7/21.8 | 17 | |
| 1 22 | 10 35.65 | + 9 9.8 | 1.329 | 2.202 | 15.2 | 21.0 | 1 22 | 10 33.57 | + 5 35.4 | 2.432 | 3.273 | 10.4 | 21.2 |
| 2 1 | 10 31.04 | +10 19.8 | 1.247 | 2.183 | 10.7 | 20.7 | 2 1 | 10 28.47 | + 6 23.9 | 2.356 | 3.274 | 7.4 | 21.0 |
| 2 11 | 10 23.74 | +11 48.6 | 1.189 | 2.163 | 5.5 | 20.3 | 2 11 | 10 21.96 | + 7 23.6 | 2.306 | 3.274 | 4.0 | 20.8 |
| 2 21 | 10 14.63 | +13 27.4 | 1.156 | 2.144 | 1.2 | 19.9 | 2 21 | 10 14.63 | + 8 30.1 | 2.286 | 3.274 | 0.7 | 20.5 |
| 3 2 | 10 5.05 | +15 4.8 | 1.149 | 2.125 | 6.5 | 20.2 | 3 2 | 10 7.22 | + 9 38.3 | 2.297 | 3.274 | 3.4 | 20.7 |
| 3 12 | 9 56.58 | +16 29.3 | 1.168 | 2.106 | 12.1 | 20.5 | 3 12 | 10 0.49 | +10 42.8 | 2.337 | 3.274 | 6.9 | 20.9 |
| 3 22 | 9 50.49 | +17 33.2 | 1.209 | 2.087 | 17.1 | 20.7 | 3 22 | 9 55.07 | +11 39.2 | 2.404 | 3.273 | 10.0 | 21.1 |
| 4 1 | 9 47.64 | +18 12.9 | 1.268 | 2.069 | 21.3 | 20.9 | 4 1 | 9 51.44 | +12 24.6 | 2.495 | 3.272 | 12.6 | 21.3 |
| 470926 | 2009 <i>EF</i> ₃₁ | | 2 21.1 321°61 | 4°9/16.4 | 16 | | 57273 | 2001 <i>QR</i> ₁₃₇ | | 2 21.1 151°79 | 1°3/22.2 | 18 | |
| 1 22 | 10 34.12 | +21 34.6 | 1.812 | 2.692 | 11.4 | 20.6 | 1 22 | 10 38.94 | + 5 55.5 | 2.015 | 2.855 | 12.2 | 18.7 |
| 2 1 | 10 29.47 | +22 49.2 | 1.732 | 2.668 | 8.2 | 20.4 | 2 1 | 10 32.37 | + 6 3.4 | 1.944 | 2.861 | 8.8 | 18.5 |
| 2 11 | 10 22.72 | +24 5.2 | 1.678 | 2.644 | 5.5 | 20.2 | 2 11 | 10 24.02 | + 6 22.3 | 1.899 | 2.866 | 4.9 | 18.3 |
| 2 21 | 10 14.62 | +25 13.9 | 1.651 | 2.621 | 5.3 | 20.1 | 2 21 | 10 14.65 | + 6 48.6 | 1.883 | 2.870 | 1.4 | 18.1 |
| 3 2 | 10 6.23 | +26 7.4 | 1.652 | 2.598 | 8.2 | 20.2 | 3 2 | 10 5.24 | + 7 18.2 | 1.897 | 2.875 | 4.0 | 18.2 |
| 3 12 | 9 58.74 | +26 40.0 | 1.677 | 2.575 | 11.7 | 20.4 | 3 12 | 9 56.79 | + 7 46.2 | 1.940 | 2.879 | 7.9 | 18.5 |
| 3 22 | 9 53.12 | +26 49.8 | 1.725 | 2.554 | 15.2 | 20.6 | 3 22 | 9 50.07 | + 8 9.0 | 2.008 | 2.883 | 11.4 | 18.7 |
| 4 1 | 9 50.05 | +26 37.7 | 1.792 | 2.533 | 18.1 | 20.7 | 4 1 | 9 45.61 | + 8 23.8 | 2.099 | 2.886 | 14.4 | 18.9 |
| 41887 | 2000 <i>WW</i> ₁₁₅ | | 2 21.1 154°46 | 1°4/19.9 | 18 | | 299689 | 2006 <i>QY</i> ₁₀₀ | | 2 21.1 177°20 | 1°8/23.0 | 18 | |

EPHEMERIDES

2 21.1

2 21.1

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 196013 | 2002 <i>RN</i> ₂₅₄ | | 2 21.1 247°72 | 0°5/21.5 | 17 | | 171918 | 2001 <i>SF</i> ₁₀₀ | | 2 21.1 58°77 | 1°2/20.0 | 18 | |
| 1 22 | 10 35.22 | + 7 35.1 | 2.107 | 2.957 | 11.4 | 20.8 | 1 22 | 10 37.37 | +13 52.7 | 2.145 | 3.005 | 10.8 | 19.9 |
| 2 1 | 10 29.78 | + 8 1.7 | 2.033 | 2.956 | 8.1 | 20.6 | 2 1 | 10 31.22 | +14 10.9 | 2.080 | 3.010 | 7.5 | 19.7 |
| 2 11 | 10 22.69 | + 8 38.4 | 1.984 | 2.954 | 4.3 | 20.3 | 2 11 | 10 23.41 | +14 33.0 | 2.041 | 3.014 | 3.8 | 19.5 |
| 2 21 | 10 14.64 | + 9 21.0 | 1.964 | 2.953 | 0.5 | 20.0 | 2 21 | 10 14.70 | +14 54.6 | 2.031 | 3.018 | 1.3 | 19.3 |
| 3 2 | 10 6.50 | +10 4.6 | 1.974 | 2.952 | 3.9 | 20.3 | 3 2 | 10 5.99 | +15 11.5 | 2.051 | 3.022 | 4.5 | 19.6 |
| 3 12 | 9 59.19 | +10 44.1 | 2.012 | 2.950 | 7.7 | 20.5 | 3 12 | 9 58.21 | +15 20.4 | 2.099 | 3.027 | 8.1 | 19.8 |
| 3 22 | 9 53.43 | +11 15.8 | 2.076 | 2.949 | 11.2 | 20.7 | 3 22 | 9 52.06 | +15 19.5 | 2.173 | 3.031 | 11.3 | 20.0 |
| 4 1 | 9 49.75 | +11 37.1 | 2.162 | 2.947 | 14.1 | 20.9 | 4 1 | 9 48.04 | +15 8.1 | 2.269 | 3.036 | 14.0 | 20.2 |
| 125128 | 2001 <i>UY</i> ₅₅ | | 2 21.1 57°56 | 4°5/24.3 | 18 | | 58912 | 1998 <i>KN</i> ₃₄ | | 2 21.1 286°89 | 8°2/10.6 | 18 | |
| 1 22 | 10 37.64 | - 1 27.8 | 1.305 | 2.145 | 17.6 | 19.6 | 1 22 | 10 37.24 | +36 18.6 | 2.329 | 3.182 | 10.3 | 18.9 |
| 2 1 | 10 32.09 | - 1 21.2 | 1.247 | 2.155 | 13.4 | 19.3 | 2 1 | 10 31.45 | +37 52.5 | 2.271 | 3.167 | 8.8 | 18.8 |
| 2 11 | 10 24.08 | - 0 49.2 | 1.210 | 2.166 | 8.7 | 19.1 | 2 11 | 10 23.68 | +39 15.0 | 2.240 | 3.151 | 8.2 | 18.7 |
| 2 21 | 10 14.66 | + 0 4.8 | 1.198 | 2.177 | 4.9 | 18.9 | 2 21 | 10 14.70 | +40 18.2 | 2.235 | 3.135 | 8.9 | 18.7 |
| 3 2 | 10 5.23 | + 1 13.5 | 1.211 | 2.188 | 5.9 | 19.0 | 3 2 | 10 5.55 | +40 56.4 | 2.257 | 3.119 | 10.6 | 18.8 |
| 3 12 | 9 57.21 | + 2 26.9 | 1.250 | 2.199 | 10.2 | 19.2 | 3 12 | 9 57.34 | +41 7.6 | 2.302 | 3.103 | 12.6 | 18.9 |
| 3 22 | 9 51.62 | + 3 36.0 | 1.312 | 2.211 | 14.5 | 19.5 | 3 22 | 9 50.94 | +40 53.0 | 2.367 | 3.087 | 14.6 | 19.0 |
| 4 1 | 9 49.07 | + 4 33.7 | 1.394 | 2.223 | 18.3 | 19.8 | 4 1 | 9 46.96 | +40 16.1 | 2.449 | 3.071 | 16.4 | 19.2 |
| 151102 | 2001 <i>VB</i> ₁₂₄ | | 2 21.1 186°18 | 0°2/21.3 | 18 | | 34838 | Lazowski | | 2 21.1 84°52 | 4°2/16.9 | 18 | |
| 1 22 | 10 37.93 | + 8 44.6 | 1.844 | 2.698 | 12.6 | 20.0 | 1 22 | 10 36.99 | +23 6.9 | 2.269 | 3.137 | 10.0 | 18.6 |
| 2 1 | 10 31.84 | + 9 4.9 | 1.773 | 2.698 | 8.9 | 19.8 | 2 1 | 10 30.91 | +23 56.8 | 2.217 | 3.146 | 7.1 | 18.4 |
| 2 11 | 10 23.82 | + 9 35.2 | 1.727 | 2.698 | 4.6 | 19.5 | 2 11 | 10 23.23 | +24 43.4 | 2.192 | 3.155 | 4.7 | 18.3 |
| 2 21 | 10 14.66 | +10 10.7 | 1.709 | 2.698 | 0.3 | 19.2 | 2 21 | 10 14.71 | +25 20.9 | 2.196 | 3.164 | 4.5 | 18.3 |
| 3 2 | 10 5.42 | +10 46.3 | 1.720 | 2.697 | 4.4 | 19.5 | 3 2 | 10 6.24 | +25 44.8 | 2.229 | 3.172 | 6.6 | 18.4 |
| 3 12 | 9 57.19 | +11 16.6 | 1.759 | 2.697 | 8.7 | 19.8 | 3 12 | 9 58.73 | +25 52.6 | 2.290 | 3.181 | 9.3 | 18.6 |
| 3 22 | 9 50.81 | +11 38.0 | 1.824 | 2.697 | 12.4 | 20.0 | 3 22 | 9 52.86 | +25 44.1 | 2.374 | 3.189 | 11.9 | 18.8 |
| 4 1 | 9 46.84 | +11 48.3 | 1.909 | 2.696 | 15.6 | 20.2 | 4 1 | 9 49.08 | +25 20.8 | 2.479 | 3.198 | 14.2 | 19.0 |
| 369530 | 2010 <i>XD</i> ₂ | | 2 21.1 355°23 | 1°9/19.6 | 18 | | 496053 | 2009 <i>AM</i> ₃₃ | | 2 21.1 5°27 | 3°7/18.4 | 15 | |
| 1 22 | 10 36.61 | +13 10.9 | 1.598 | 2.470 | 13.2 | 21.1 | 1 22 | 10 31.96 | +13 34.3 | 1.027 | 1.924 | 16.5 | 20.6 |
| 2 1 | 10 31.17 | +14 3.6 | 1.533 | 2.469 | 9.1 | 20.9 | 2 1 | 10 28.66 | +15 10.4 | 0.976 | 1.924 | 11.3 | 20.3 |
| 2 11 | 10 23.55 | +15 4.2 | 1.494 | 2.468 | 4.7 | 20.6 | 2 11 | 10 22.53 | +16 59.7 | 0.948 | 1.924 | 6.0 | 20.0 |
| 2 21 | 10 14.67 | +16 5.5 | 1.481 | 2.467 | 2.1 | 20.5 | 2 21 | 10 14.70 | +18 48.3 | 0.942 | 1.926 | 4.0 | 19.9 |
| 3 2 | 10 5.69 | +16 59.4 | 1.496 | 2.467 | 6.0 | 20.7 | 3 2 | 10 6.80 | +20 21.4 | 0.961 | 1.930 | 8.7 | 20.1 |
| 3 12 | 9 57.87 | +17 39.8 | 1.538 | 2.467 | 10.4 | 21.0 | 3 12 | 10 0.51 | +21 28.1 | 1.001 | 1.935 | 14.0 | 20.4 |
| 3 22 | 9 52.13 | +18 3.2 | 1.603 | 2.467 | 14.3 | 21.2 | 3 22 | 9 56.99 | +22 4.3 | 1.062 | 1.942 | 18.7 | 20.7 |
| 4 1 | 9 49.08 | +18 8.9 | 1.687 | 2.467 | 17.6 | 21.4 | 4 1 | 9 56.86 | +22 10.5 | 1.138 | 1.950 | 22.5 | 21.0 |
| 497815 | 2006 <i>TX</i> ₉₈ | | 2 21.1 155°72 | 0°1/21.2 | 17 | | 352737 | 2008 <i>TQ</i> ₁₆ | | 2 21.1 218°66 | 0°9/20.5 | 18 | |
| 1 22 | 10 33.87 | + 8 42.7 | 2.868 | 3.711 | 8.9 | 22.6 | 1 22 | 10 42.15 | +11 35.4 | 1.577 | 2.439 | 13.9 | 22.0 |
| 2 1 | 10 28.48 | + 9 15.6 | 2.797 | 3.718 | 6.2 | 22.5 | 2 1 | 10 35.16 | +12 0.1 | 1.504 | 2.433 | 9.8 | 21.8 |
| 2 11 | 10 21.90 | + 9 55.1 | 2.753 | 3.724 | 3.2 | 22.3 | 2 11 | 10 25.70 | +12 33.4 | 1.454 | 2.427 | 5.0 | 21.5 |
| 2 21 | 10 14.66 | +10 37.9 | 2.740 | 3.729 | 0.1 | 22.0 | 2 21 | 10 14.74 | +13 9.4 | 1.432 | 2.421 | 0.9 | 21.1 |
| 3 2 | 10 7.39 | +11 20.3 | 2.759 | 3.734 | 3.1 | 22.3 | 3 2 | 10 3.60 | +13 41.4 | 1.439 | 2.414 | 5.5 | 21.5 |
| 3 12 | 10 0.73 | +11 58.5 | 2.807 | 3.739 | 6.1 | 22.5 | 3 12 | 9 53.67 | +14 3.8 | 1.473 | 2.406 | 10.4 | 21.7 |
| 3 22 | 9 55.23 | +12 29.9 | 2.883 | 3.744 | 8.8 | 22.7 | 3 22 | 9 46.04 | +14 13.4 | 1.531 | 2.398 | 14.7 | 21.9 |
| 4 1 | 9 51.27 | +12 52.7 | 2.982 | 3.748 | 11.0 | 22.8 | 4 1 | 9 41.37 | +14 9.1 | 1.608 | 2.390 | 18.3 | 22.2 |
| 264738 | 2002 <i>CU</i> ₁₇₀ | | 2 21.1 332°39 | 1°1/20.0 | 17 | | 157295 | 2004 <i>RQ</i> ₃₂₃ | | 2 21.1 233°29 | 3°6/24.1 | 17 | |
| 1 22 | 10 32.04 | + 8 35.3 | 1.565 | 2.435 | 13.5 | 19.5 | 1 22 | 10 36.73 | - 0 46.7 | 2.085 | 2.903 | 12.8 | 20.2 |
| 2 1 | 10 28.10 | +10 8.2 | 1.490 | 2.425 | 9.4 | 19.2 | 2 1 | 10 30.93 | - 0 50.4 | 2.000 | 2.897 | 9.7 | 20.0 |
| 2 11 | 10 22.05 | +11 58.2 | 1.441 | 2.415 | 4.7 | 18.9 | 2 11 | 10 23.37 | - 0 38.2 | 1.940 | 2.890 | 6.4 | 19.7 |
| 2 21 | 10 14.66 | +13 56.4 | 1.418 | 2.406 | 1.2 | 18.6 | 2 21 | 10 14.72 | - 0 11.9 | 1.907 | 2.883 | 3.8 | 19.6 |
| 3 2 | 10 7.05 | +15 51.5 | 1.424 | 2.397 | 5.7 | 18.9 | 3 2 | 10 5.90 | + 0 25.1 | 1.903 | 2.877 | 4.6 | 19.6 |
| 3 12 | 10 0.41 | +17 33.2 | 1.456 | 2.389 | 10.5 | 19.2 | 3 12 | 9 57.86 | + 1 7.8 | 1.928 | 2.869 | 7.7 | 19.8 |
| 3 22 | 9 55.71 | +18 54.2 | 1.512 | 2.382 | 14.7 | 19.4 | 3 22 | 9 51.40 | + 1 50.7 | 1.979 | 2.862 | 11.1 | 20.0 |
| 4 1 | 9 53.62 | +19 51.4 | 1.588 | 2.375 | 18.2 | 19.6 | 4 1 | 9 47.09 | + 2 29.2 | 2.052 | 2.854 | 14.1 | 20.1 |
| 212731 | 2007 <i>RF</i> ₁₈₈ | | 2 21.1 45°72 | 2°3/19.9 | 18 | | 37585 | 1990 <i>VQ</i> ₈ | | 2 21.1 69°88 | 0°7/20.5 | 18 | |
| 1 22 | 10 45.06 | +16 19.9 | 1.264 | 2.139 | 15.7 | 20.0 | 1 22 | 10 36.90 | + 8 29.2 | 1.378 | 2.246 | 15.1 | 18.7 |
| 2 1 | 10 37.22 | +16 17.2 | 1.217 | 2.153 | 10.9 | 19.8 | 2 1 | 10 31.52 | + 9 40.7 | 1.323 | 2.256 | 10.5 | 18.4 |
| 2 11 | 10 26.66 | +16 16.2 | 1.193 | 2.167 | 5.7 | 19.5 | 2 11 | 10 23.79 | +11 7.4 | 1.292 | 2.266 | 5.3 | 18.2 |
| 2 21 | 10 14.72 | +16 11.0 | 1.195 | 2.182 | 2.4 | 19.3 | 2 21 | 10 14.73 | +12 40.1 | 1.288 | 2.277 | 0.8 | 17.9 |
| 3 2 | 10 3.08 | +15 56.5 | 1.224 | 2.197 | 6.6 | 19.6 | 3 2 | 10 5.67 | +14 8.1 | 1.311 | 2.287 | 5.7 | 18.2 |
| 3 12 | 9 53.32 | +15 30.2 | 1.278 | 2.212 | 11.6 | 20.0 | 3 12 | 9 57.97 | +15 22.3 | 1.360 | 2.297 | 10.7 | 18.5 |
| 3 22 | 9 46.46 | +14 52.5 | 1.355 | 2.228 | 15.9 | 20.3 | 3 22 | 9 52.60 | +16 17.2 | 1.432 | 2.307 | 15.0 | 18.8 |
| 4 1 | 9 42.98 | +14 4.7 | 1.451 | 2.244 | 19.4 | 20.5 | 4 1 | 9 50.13 | +16 50.9 | 1.523 | 2.318 | 18.5 | 19.1 |
| 369575 | 2011 <i>BM</i> ₈₆ | | 2 21.1 167°04 | 0°7/21.7 | 16 | | 241478 | 2009 <i>BJ</i> ₆₆ | | 2 21.1 58°62 | 0°6/21.8 | 17 | |
| 1 22 | 10 37.68 | + 7 10.5 | 2.061 | 2.907 | 11.8 | 21.4 | 1 22 | 10 32.89 | + 5 45.1 | 2.165 | 3.012 | 11.3 | 20.6 |
| 2 1 | 10 31.51 | + 7 30.6 | 1.989 | 2.909 | 8.4 | 21.2 | 2 1 | 10 28.13 | + 6 37.0 | 2.095 | 3.016 | 8.0 | 20.4 |
| 2 11 | 10 23.60 | + 8 0.9 | 1.943 | 2.912 | 4.5 | 21.0 | 2 11 | 10 21.86 | + 7 41.1 | 2.052 | 3.021 | 4.3 | 20.1 |
| 2 21 | 10 14.70 | + 8 37.4 | 1.926 | 2.914 | 0.8 | 20.7 | 2 21 | 10 14.71 | + 8 52.5 | 2.037 | 3.025 | 0.7 | 19.9 |
| 3 2 | 10 5.73 | + 9 15.3 | 1.938 | 2.916 | 3.9 | 20.9 | 3 2 | 10 7.51 | +10 5.2 | 2.052 | 3.030 | 3.7 | 20.1 |
| 3 12 | 9 57.65 | + 9 49.8 | 1.979 | 2.917 | 7.8 | 21.2 | 3 12 | 10 1.08 | +11 13.1 | 2.096 | 3.035 | 7.4 | 20.4 |
| 3 22 | 9 51.25 | +10 17.1 | 2.047 | 2.918 | 11.3 | 21.4 | 3 22 | 9 56.12 | +12 11.3 | 2.166 | 3.039 | 10.7 | 20.6 |
| 4 1 | 9 47.02 | +10 34.8 | 2.136 | 2.919 | 14.3 | 21.6 | 4 1 | 9 53.08 | +12 56.9 | 2.259 | 3.044 | 13.5 | 20.8 |
| 274286 | 2008 <i>QB</i> ₉ | | 2 21.1 155°41 | 0°1/21.2 | 17 | | 146623 | 2001 <i>TB</i> ₂₃₇ | | 2 21.1 38°31 | 9°2/14.2 | 18 | |
| 1 22 | 10 35.27</ | | | | | | | | | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|----------------|----------|---------|------|---------------|------------------------|-----------------|----------------|----------|---------|------|
| 93931 | 2000 WY ₁₆₄ | | 2 21.1 123°77' | 4.8/16.1 | 18 | | 290063 | 2005 QU ₆₅ | | 2 21.1 264°34' | 1.2/22.3 | 17 | |
| 1 22 | 10 36.80 | +22 2.5 | 2.034 | 2.906 | 10.8 | 19.6 | 1 22 | 10 35.19 | +5 16.2 | 2.662 | 3.495 | 9.9 | 21.5 |
| 2 1 | 10 30.99 | +23 33.7 | 1.984 | 2.915 | 7.7 | 19.5 | 2 1 | 10 29.66 | +5 32.4 | 2.559 | 3.472 | 7.1 | 21.3 |
| 2 11 | 10 23.37 | +25 3.4 | 1.962 | 2.924 | 5.2 | 19.3 | 2 11 | 10 22.68 | +5 58.3 | 2.484 | 3.448 | 4.1 | 21.0 |
| 2 21 | 10 14.74 | +26 23.2 | 1.968 | 2.933 | 5.2 | 19.3 | 2 21 | 10 14.77 | +6 31.2 | 2.438 | 3.424 | 1.3 | 20.8 |
| 3 2 | 10 6.10 | +27 26.1 | 2.003 | 2.941 | 7.6 | 19.5 | 3 2 | 10 6.63 | +7 7.8 | 2.423 | 3.400 | 3.3 | 20.9 |
| 3 12 | 9 58.46 | +28 8.1 | 2.065 | 2.949 | 10.5 | 19.7 | 3 12 | 9 59.02 | +7 44.0 | 2.438 | 3.375 | 6.6 | 21.1 |
| 3 22 | 9 52.61 | +28 28.5 | 2.150 | 2.957 | 13.3 | 19.9 | 3 22 | 9 52.60 | +8 16.2 | 2.480 | 3.350 | 9.7 | 21.2 |
| 4 1 | 9 49.05 | +28 28.7 | 2.254 | 2.964 | 15.6 | 20.1 | 4 1 | 9 47.89 | +8 41.7 | 2.546 | 3.324 | 12.4 | 21.4 |
| 246445 | 2007 VK ₁₈₅ | | 2 21.1 70°99' | 0.6/21.8 | 18 | | 57826 | 2001 WB ₉₀ | | 2 21.1 82°62' | 2.6/18.7 | 18 | |
| 1 22 | 10 34.06 | +5 40.5 | 2.160 | 3.005 | 11.4 | 20.4 | 1 22 | 10 37.24 | +18 5.6 | 2.263 | 3.128 | 10.1 | 19.5 |
| 2 1 | 10 28.83 | +6 32.9 | 2.108 | 3.028 | 8.0 | 20.2 | 2 1 | 10 31.07 | +18 37.5 | 2.206 | 3.137 | 7.0 | 19.3 |
| 2 11 | 10 22.16 | +7 36.5 | 2.081 | 3.050 | 4.3 | 20.0 | 2 11 | 10 23.34 | +19 9.8 | 2.175 | 3.146 | 3.9 | 19.1 |
| 2 21 | 10 14.73 | +8 46.2 | 2.084 | 3.073 | 0.7 | 19.8 | 2 21 | 10 14.77 | +19 37.8 | 2.174 | 3.155 | 2.7 | 19.1 |
| 3 2 | 10 7.37 | +9 56.0 | 2.117 | 3.095 | 3.6 | 20.0 | 3 2 | 10 6.26 | +19 57.0 | 2.202 | 3.163 | 5.2 | 19.2 |
| 3 12 | 10 0.89 | +11 0.1 | 2.179 | 3.117 | 7.2 | 20.3 | 3 12 | 9 58.68 | +20 4.6 | 2.259 | 3.172 | 8.4 | 19.5 |
| 3 22 | 9 55.90 | +11 54.4 | 2.267 | 3.139 | 10.4 | 20.5 | 3 22 | 9 52.69 | +19 59.8 | 2.341 | 3.181 | 11.3 | 19.7 |
| 4 1 | 9 52.84 | +12 36.3 | 2.379 | 3.161 | 13.0 | 20.7 | 4 1 | 9 48.75 | +19 42.8 | 2.444 | 3.190 | 13.7 | 19.8 |
| 49688 | 1999 TO ₁₉₈ | | 2 21.1 233°59' | 1.0/21.7 | 18 | | 232589 | 2003 TO ₅₁ | | 2 21.1 151°06' | 4.7/25.8 | 17 | |
| 1 22 | 10 40.95 | +6 56.3 | 1.504 | 2.359 | 14.9 | 18.8 | 1 22 | 10 36.75 | -6 4.8 | 2.489 | 3.271 | 12.0 | 20.7 |
| 2 1 | 10 34.45 | +7 14.7 | 1.426 | 2.351 | 10.7 | 18.5 | 2 1 | 10 30.67 | -6 19.0 | 2.411 | 3.278 | 9.5 | 20.5 |
| 2 11 | 10 25.41 | +7 47.5 | 1.372 | 2.342 | 5.8 | 18.2 | 2 11 | 10 23.14 | -6 16.7 | 2.358 | 3.285 | 7.0 | 20.4 |
| 2 21 | 10 14.77 | +8 29.8 | 1.345 | 2.333 | 1.0 | 17.8 | 2 21 | 10 14.78 | -5 58.6 | 2.333 | 3.291 | 5.0 | 20.2 |
| 3 2 | 10 3.86 | +9 14.9 | 1.346 | 2.324 | 5.1 | 18.1 | 3 2 | 10 6.34 | -5 27.3 | 2.337 | 3.297 | 5.1 | 20.3 |
| 3 12 | 9 54.12 | +9 55.8 | 1.373 | 2.314 | 10.2 | 18.4 | 3 12 | 9 58.62 | -4 46.9 | 2.371 | 3.303 | 7.0 | 20.4 |
| 3 22 | 9 46.68 | +10 26.9 | 1.424 | 2.304 | 14.8 | 18.6 | 3 22 | 9 52.26 | -4 2.3 | 2.431 | 3.308 | 9.6 | 20.6 |
| 4 1 | 9 42.26 | +10 45.1 | 1.495 | 2.294 | 18.7 | 18.8 | 4 1 | 9 47.73 | -3 18.1 | 2.516 | 3.313 | 12.0 | 20.7 |
| 503191 | 2015 HC ₅ | | 2 21.1 200°65' | 0.3/20.9 | 17 | | 190193 | 2005 WM ₁₅₈ | | 2 21.1 75°38' | 1.2/21.9 | 18 | |
| 1 22 | 10 38.38 | +11 30.0 | 2.275 | 3.127 | 10.6 | 20.7 | 1 22 | 10 42.49 | +6 2.9 | 1.319 | 2.176 | 16.4 | 20.3 |
| 2 1 | 10 31.88 | +11 32.4 | 2.201 | 3.127 | 7.4 | 20.5 | 2 1 | 10 35.25 | +6 25.9 | 1.278 | 2.203 | 11.6 | 20.1 |
| 2 11 | 10 23.78 | +11 39.7 | 2.155 | 3.126 | 3.8 | 20.3 | 2 11 | 10 25.62 | +7 4.6 | 1.260 | 2.229 | 6.3 | 19.8 |
| 2 21 | 10 14.76 | +11 48.8 | 2.137 | 3.126 | 0.3 | 20.0 | 2 21 | 10 14.80 | +7 52.4 | 1.268 | 2.256 | 1.3 | 19.6 |
| 3 2 | 10 5.70 | +11 56.1 | 2.150 | 3.126 | 3.9 | 20.3 | 3 2 | 10 4.28 | +8 41.6 | 1.303 | 2.282 | 5.1 | 19.9 |
| 3 12 | 9 57.50 | +11 58.6 | 2.193 | 3.125 | 7.5 | 20.5 | 3 12 | 9 55.46 | +9 24.8 | 1.365 | 2.308 | 10.1 | 20.2 |
| 3 22 | 9 50.86 | +11 54.5 | 2.262 | 3.125 | 10.7 | 20.7 | 3 22 | 9 49.23 | +9 57.1 | 1.450 | 2.334 | 14.4 | 20.6 |
| 4 1 | 9 46.26 | +11 42.5 | 2.353 | 3.125 | 13.4 | 20.9 | 4 1 | 9 46.05 | +10 15.8 | 1.555 | 2.359 | 17.8 | 20.9 |
| 145259 | 2005 JA ₁₂₈ | | 2 21.1 239°14' | 5.8/14.2 | 18 | | 492471 | 2014 NX ₃₀ | | 2 21.1 282°72' | 0.4/21.4 | 17 | |
| 1 22 | 10 36.35 | +28 22.7 | 2.432 | 3.298 | 9.5 | 19.7 | 1 22 | 10 37.80 | +6 35.3 | 1.433 | 2.294 | 15.1 | 22.0 |
| 2 1 | 10 30.61 | +29 41.5 | 2.370 | 3.289 | 7.3 | 19.6 | 2 1 | 10 32.56 | +7 23.6 | 1.340 | 2.268 | 10.9 | 21.7 |
| 2 11 | 10 23.18 | +30 54.9 | 2.336 | 3.281 | 5.9 | 19.5 | 2 11 | 10 24.63 | +8 31.5 | 1.270 | 2.242 | 5.9 | 21.3 |
| 2 21 | 10 14.75 | +31 55.7 | 2.330 | 3.272 | 6.2 | 19.5 | 2 21 | 10 14.80 | +9 53.1 | 1.226 | 2.215 | 0.5 | 20.9 |
| 3 2 | 10 6.21 | +32 38.7 | 2.352 | 3.263 | 8.1 | 19.6 | 3 2 | 10 4.37 | +11 19.1 | 1.210 | 2.188 | 5.6 | 21.2 |
| 3 12 | 9 58.49 | +33 0.9 | 2.401 | 3.254 | 10.5 | 19.7 | 3 12 | 9 54.88 | +12 39.1 | 1.219 | 2.161 | 11.2 | 21.4 |
| 3 22 | 9 52.34 | +33 2.4 | 2.473 | 3.245 | 12.8 | 19.9 | 3 22 | 9 47.63 | +13 44.8 | 1.252 | 2.133 | 16.4 | 21.6 |
| 4 1 | 9 48.28 | +32 44.9 | 2.563 | 3.235 | 14.8 | 20.0 | 4 1 | 9 43.54 | +14 31.3 | 1.303 | 2.105 | 20.7 | 21.8 |
| 425101 | 2009 SN ₁₀₈ | | 2 21.1 130°88' | 0.0/21.1 | 18 | | 348822 | 2006 RF ₄₆ | | 2 21.1 158°96' | 0.4/20.6 | 17 | |
| 1 22 | 10 37.09 | +8 39.3 | 2.441 | 3.284 | 10.3 | 22.7 | 1 22 | 10 34.08 | +10 24.1 | 2.845 | 3.693 | 8.8 | 22.3 |
| 2 1 | 10 30.83 | +9 20.4 | 2.380 | 3.302 | 7.1 | 22.5 | 2 1 | 10 28.67 | +11 2.0 | 2.775 | 3.699 | 6.1 | 22.1 |
| 2 11 | 10 23.17 | +10 9.1 | 2.348 | 3.318 | 3.7 | 22.3 | 2 11 | 10 22.06 | +11 45.6 | 2.733 | 3.704 | 3.1 | 21.9 |
| 2 21 | 10 14.76 | +11 1.2 | 2.345 | 3.334 | 0.0 | 22.0 | 2 21 | 10 14.77 | +12 31.4 | 2.721 | 3.709 | 0.4 | 21.7 |
| 3 2 | 10 6.38 | +11 51.8 | 2.374 | 3.349 | 3.6 | 22.3 | 3 2 | 10 7.45 | +13 15.2 | 2.740 | 3.714 | 3.3 | 22.0 |
| 3 12 | 9 58.82 | +12 36.6 | 2.433 | 3.364 | 7.0 | 22.6 | 3 12 | 10 0.75 | +13 53.6 | 2.789 | 3.718 | 6.3 | 22.2 |
| 3 22 | 9 52.69 | +13 12.4 | 2.518 | 3.377 | 9.9 | 22.8 | 3 22 | 9 55.22 | +14 24.0 | 2.866 | 3.721 | 9.0 | 22.3 |
| 4 1 | 9 48.42 | +13 37.6 | 2.627 | 3.391 | 12.4 | 23.0 | 4 1 | 9 51.25 | +14 44.7 | 2.966 | 3.725 | 11.2 | 22.5 |
| 340780 | 2006 SA ₃₈₀ | | 2 21.1 180°55' | 1.0/19.9 | 17 | | 518164 | 2016 GO ₂₅₉ | | 2 21.1 232°74' | 0.4/21.5 | 17 | |
| 1 22 | 10 33.28 | +11 28.4 | 2.548 | 3.404 | 9.5 | 21.2 | 1 22 | 10 35.12 | +7 13.0 | 2.077 | 2.927 | 11.6 | 22.1 |
| 2 1 | 10 28.27 | +12 23.9 | 2.476 | 3.405 | 6.5 | 21.0 | 2 1 | 10 29.81 | +7 51.9 | 2.000 | 2.923 | 8.2 | 21.9 |
| 2 11 | 10 21.90 | +13 25.9 | 2.432 | 3.405 | 3.3 | 20.8 | 2 11 | 10 22.80 | +8 42.1 | 1.948 | 2.918 | 4.3 | 21.7 |
| 2 21 | 10 14.75 | +14 29.6 | 2.418 | 3.405 | 1.0 | 20.6 | 2 21 | 10 14.78 | +9 39.0 | 1.925 | 2.914 | 0.4 | 21.3 |
| 3 2 | 10 7.53 | +15 29.9 | 2.434 | 3.405 | 4.0 | 20.9 | 3 2 | 10 6.63 | +10 36.8 | 1.932 | 2.909 | 4.0 | 21.6 |
| 3 12 | 10 0.97 | +16 22.2 | 2.480 | 3.405 | 7.2 | 21.1 | 3 12 | 9 59.28 | +11 29.9 | 1.967 | 2.904 | 7.9 | 21.8 |
| 3 22 | 9 55.68 | +17 3.5 | 2.552 | 3.404 | 10.0 | 21.2 | 3 22 | 9 53.50 | +12 13.7 | 2.028 | 2.899 | 11.4 | 22.1 |
| 4 1 | 9 52.11 | +17 32.1 | 2.646 | 3.403 | 12.5 | 21.4 | 4 1 | 9 49.83 | +12 45.6 | 2.111 | 2.894 | 14.4 | 22.2 |
| 307650 | 2003 SR ₁₇₆ | | 2 21.1 198°82' | 0.1/21.0 | 18 | | 119755 | 2001 YO ₁₀₂ | | 2 21.1 144°52' | 5.3/15.8 | 18 | |
| 1 22 | 10 38.64 | +8 33.7 | 1.973 | 2.823 | 12.1 | 21.4 | 1 22 | 10 37.59 | +23 23.5 | 1.965 | 2.838 | 11.1 | 19.7 |
| 2 1 | 10 32.34 | +9 16.5 | 1.896 | 2.820 | 8.5 | 21.1 | 2 1 | 10 31.63 | +24 52.4 | 1.913 | 2.843 | 8.0 | 19.5 |
| 2 11 | 10 24.13 | +10 10.0 | 1.845 | 2.816 | 4.4 | 20.9 | 2 11 | 10 23.76 | +26 18.6 | 1.887 | 2.847 | 5.6 | 19.4 |
| 2 21 | 10 14.78 | +11 9.0 | 1.823 | 2.812 | 0.1 | 20.5 | 2 21 | 10 14.79 | +27 33.6 | 1.890 | 2.852 | 5.7 | 19.4 |
| 3 2 | 10 5.27 | +12 7.3 | 1.831 | 2.806 | 4.4 | 20.8 | 3 2 | 10 5.79 | +28 30.2 | 1.922 | 2.856 | 8.1 | 19.6 |
| 3 12 | 9 56.66 | +12 58.6 | 1.867 | 2.801 | 8.6 | 21.1 | 3 12 | 9 57.84 | +29 4.7 | 1.979 | 2.860 | 11.1 | 19.8 |
| 3 22 | 9 49.81 | +13 39.0 | 1.930 | 2.794 | 12.3 | 21.3 | 3 22 | 9 51.78 | +29 16.6 | 2.060 | 2.864 | 13.9 | 19.9 |
| 4 1 | 9 45.28 | +14 5.9 | 2.014 | 2.787 | 15.4 | 21.5 | 4 1 | 9 48.12 | +29 8.0 | 2.159 | 2.867 | 16.3 | 20.1 |
| 369810 | 2012 HR ₄₇ | | 2 21.1 285°82' | 0.0/21.1 | 18 | | 423648 | 2005 YD ₉ | | 2 21.1 103°48' | 1.2/22.2 | 18 | |
| 1 22 | 10 34.30 | +6 32.3 | 1.723 | 2.580 | 13.2 | 20.6 | 1 22 | 10 38.52 | +5 18.3 | 2.133 | 2.970 | 1 | |

EPHEMERIDES

2 21.1

2 21.1

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|---------|-----------|------|---------------|-------------------------------|-----------------|----------|---------|-----------|------|
| 203887 | 2003 <i>DM</i> ₂₁ | | 2 21.1 | 24°02' | 0°4'/21.5 | 18 | 430471 | 2001 <i>RJ</i> ₁₁₆ | | 2 21.1 | 216°42' | 0°2'/21.3 | 17 |
| 1 22 | 10 35.95 | + 8 46.4 | 1.880 | 2.737 | 12.3 | 19.6 | 1 22 | 10 34.05 | + 7 48.9 | 2.943 | 3.783 | 8.8 | 22.1 |
| 2 1 | 10 30.41 | + 8 55.2 | 1.817 | 2.743 | 8.6 | 19.4 | 2 1 | 10 28.71 | + 8 28.7 | 2.854 | 3.773 | 6.2 | 21.9 |
| 2 11 | 10 23.09 | + 9 13.0 | 1.780 | 2.751 | 4.6 | 19.1 | 2 11 | 10 22.13 | + 9 16.5 | 2.794 | 3.763 | 3.3 | 21.7 |
| 2 21 | 10 14.79 | + 9 35.8 | 1.770 | 2.758 | 0.5 | 18.8 | 2 21 | 10 14.81 | +10 8.7 | 2.764 | 3.752 | 0.2 | 21.4 |
| 3 2 | 10 6.50 | + 9 59.1 | 1.788 | 2.766 | 4.1 | 19.1 | 3 2 | 10 7.35 | +11 1.3 | 2.765 | 3.741 | 3.1 | 21.7 |
| 3 12 | 9 59.22 | +10 18.4 | 1.835 | 2.775 | 8.2 | 19.4 | 3 12 | 10 0.43 | +11 50.4 | 2.797 | 3.730 | 6.1 | 21.9 |
| 3 22 | 9 53.69 | +10 30.6 | 1.906 | 2.784 | 11.7 | 19.6 | 3 22 | 9 54.59 | +12 32.7 | 2.857 | 3.717 | 8.9 | 22.0 |
| 4 1 | 9 50.42 | +10 33.6 | 1.999 | 2.794 | 14.7 | 19.9 | 4 1 | 9 50.28 | +13 5.9 | 2.941 | 3.704 | 11.2 | 22.2 |
| 145600 | 2006 <i>QS</i> ₁₁ | | 2 21.1 | 132°46' | 0°3'/20.8 | 17 | 307228 | 2002 <i>GP</i> ₁₄₆ | | 2 21.1 | 300°75' | 1°0'/21.9 | 18 |
| 1 22 | 10 37.48 | +11 13.2 | 2.802 | 3.647 | 9.1 | 20.4 | 1 22 | 10 35.56 | + 5 1.6 | 1.443 | 2.302 | 15.1 | 20.4 |
| 2 1 | 10 30.98 | +11 26.2 | 2.738 | 3.660 | 6.3 | 20.2 | 2 1 | 10 30.75 | + 5 49.3 | 1.366 | 2.292 | 10.9 | 20.2 |
| 2 11 | 10 23.22 | +11 43.5 | 2.701 | 3.672 | 3.2 | 20.0 | 2 11 | 10 23.55 | + 6 56.7 | 1.312 | 2.282 | 6.0 | 19.9 |
| 2 21 | 10 14.80 | +12 2.2 | 2.696 | 3.685 | 0.3 | 19.8 | 2 21 | 10 14.82 | + 8 17.7 | 1.284 | 2.272 | 1.1 | 19.5 |
| 3 2 | 10 6.42 | +12 19.0 | 2.722 | 3.697 | 3.3 | 20.0 | 3 2 | 10 5.81 | + 9 43.2 | 1.283 | 2.262 | 5.1 | 19.7 |
| 3 12 | 9 58.77 | +12 31.4 | 2.779 | 3.708 | 6.3 | 20.3 | 3 12 | 9 57.89 | +11 3.4 | 1.308 | 2.253 | 10.3 | 20.0 |
| 3 22 | 9 52.41 | +12 37.5 | 2.863 | 3.719 | 9.0 | 20.4 | 3 22 | 9 52.15 | +12 10.5 | 1.357 | 2.244 | 15.0 | 20.2 |
| 4 1 | 9 47.72 | +12 36.3 | 2.972 | 3.730 | 11.2 | 20.6 | 4 1 | 9 49.30 | +12 59.6 | 1.425 | 2.235 | 18.9 | 20.5 |
| 281297 | 2007 <i>RK</i> ₂₃₉ | | 2 21.1 | 176°12' | 1°4'/19.5 | 18 | 329833 | 2004 <i>RE</i> ₃₄₁ | | 2 21.1 | 168°25' | 6°9'/27.7 | 17 |
| 1 22 | 10 34.13 | +12 17.1 | 2.399 | 3.257 | 9.9 | 20.4 | 1 22 | 10 35.81 | -11 12.2 | 2.084 | 2.849 | 14.6 | 20.6 |
| 2 1 | 10 28.94 | +13 22.6 | 2.329 | 3.259 | 6.8 | 20.2 | 2 1 | 10 30.32 | -11 28.8 | 2.003 | 2.850 | 12.1 | 20.4 |
| 2 11 | 10 22.29 | +14 34.6 | 2.286 | 3.260 | 3.4 | 20.0 | 2 11 | 10 23.10 | -11 21.9 | 1.944 | 2.852 | 9.4 | 20.2 |
| 2 21 | 10 14.79 | +15 47.7 | 2.274 | 3.260 | 1.5 | 19.8 | 2 21 | 10 14.82 | -10 51.6 | 1.911 | 2.853 | 7.4 | 20.1 |
| 3 2 | 10 7.21 | +16 55.9 | 2.292 | 3.261 | 4.4 | 20.1 | 3 2 | 10 6.40 | -10 0.3 | 1.905 | 2.854 | 7.0 | 20.1 |
| 3 12 | 10 0.35 | +17 54.2 | 2.340 | 3.261 | 7.7 | 20.3 | 3 12 | 9 58.78 | - 8 53.7 | 1.926 | 2.855 | 8.7 | 20.2 |
| 3 22 | 9 54.85 | +18 39.5 | 2.413 | 3.261 | 10.7 | 20.5 | 3 22 | 9 52.75 | - 7 39.0 | 1.973 | 2.855 | 11.2 | 20.3 |
| 4 1 | 9 51.20 | +19 10.2 | 2.509 | 3.260 | 13.2 | 20.6 | 4 1 | 9 48.87 | - 6 23.5 | 2.044 | 2.856 | 13.8 | 20.5 |
| 430046 | 2013 <i>RR</i> ₈₇ | | 2 21.1 | 104°61' | 0°7'/21.7 | 17 | 508450 | 2016 <i>LC</i> ₅₄ | | 2 21.1 | 195°50' | 1°6'/23.2 | 17 |
| 1 22 | 10 37.33 | + 7 22.7 | 1.978 | 2.826 | 12.1 | 21.6 | 1 22 | 10 32.85 | + 1 58.1 | 3.014 | 3.833 | 9.2 | 22.7 |
| 2 1 | 10 31.32 | + 7 38.9 | 1.911 | 2.832 | 8.6 | 21.4 | 2 1 | 10 27.83 | + 2 32.3 | 2.928 | 3.831 | 6.7 | 22.6 |
| 2 11 | 10 23.56 | + 8 5.3 | 1.869 | 2.838 | 4.6 | 21.1 | 2 11 | 10 21.65 | + 3 17.4 | 2.869 | 3.827 | 4.1 | 22.4 |
| 2 21 | 10 14.81 | + 8 37.8 | 1.856 | 2.844 | 0.8 | 20.8 | 2 21 | 10 14.80 | + 4 10.8 | 2.840 | 3.824 | 1.7 | 22.2 |
| 3 2 | 10 6.02 | + 9 11.7 | 1.872 | 2.850 | 4.0 | 21.1 | 3 2 | 10 7.87 | + 5 8.6 | 2.842 | 3.819 | 2.9 | 22.3 |
| 3 12 | 9 58.20 | + 9 42.2 | 1.916 | 2.855 | 8.0 | 21.4 | 3 12 | 10 1.45 | + 6 6.8 | 2.875 | 3.815 | 5.6 | 22.5 |
| 3 22 | 9 52.09 | +10 5.5 | 1.986 | 2.861 | 11.5 | 21.6 | 3 22 | 9 56.07 | + 7 1.5 | 2.937 | 3.810 | 8.2 | 22.6 |
| 4 1 | 9 48.20 | +10 19.4 | 2.078 | 2.866 | 14.5 | 21.8 | 4 1 | 9 52.14 | + 7 49.6 | 3.023 | 3.804 | 10.5 | 22.8 |
| 3109 | <i>Machin</i> | | 2 21.1 | 237°75' | 3°6'/18.4 | 18 R | 436384 | 2010 <i>TD</i> ₁₉ | | 2 21.1 | 130°88' | 13°7'/6.9 | 18 |
| 1 22 | 10 40.53 | +18 32.0 | 1.730 | 2.601 | 12.4 | 16.0 | 1 22 | 10 50.93 | +42 4.0 | 1.523 | 2.364 | 15.5 | 20.9 |
| 2 1 | 10 33.92 | +19 19.5 | 1.661 | 2.594 | 8.7 | 15.8 | 2 1 | 10 42.09 | +45 23.6 | 1.515 | 2.384 | 14.0 | 20.9 |
| 2 11 | 10 25.05 | +20 8.6 | 1.616 | 2.587 | 5.0 | 15.5 | 2 11 | 10 29.59 | +48 12.8 | 1.532 | 2.404 | 13.9 | 20.9 |
| 2 21 | 10 14.83 | +20 52.0 | 1.600 | 2.580 | 3.8 | 15.4 | 2 21 | 10 14.91 | +50 16.7 | 1.575 | 2.422 | 15.0 | 21.0 |
| 3 2 | 10 4.48 | +21 22.8 | 1.612 | 2.572 | 6.9 | 15.6 | 3 2 | 10 0.20 | +51 28.2 | 1.640 | 2.439 | 16.9 | 21.2 |
| 3 12 | 9 55.28 | +21 36.4 | 1.651 | 2.564 | 10.9 | 15.8 | 3 12 | 9 47.68 | +51 49.9 | 1.724 | 2.454 | 18.8 | 21.4 |
| 3 22 | 9 48.21 | +21 31.9 | 1.713 | 2.556 | 14.6 | 16.0 | 3 22 | 9 38.79 | +51 30.6 | 1.823 | 2.469 | 20.6 | 21.6 |
| 4 1 | 9 43.88 | +21 10.2 | 1.794 | 2.548 | 17.7 | 16.2 | 4 1 | 9 34.18 | +50 40.4 | 1.932 | 2.482 | 22.0 | 21.8 |
| 109553 | 2001 <i>QF</i> ₂₆₀ | | 2 21.1 | 108°05' | 3°5'/24.9 | 18 | 504497 | 2008 <i>JZ</i> ₁₉ | | 2 21.1 | 242°94' | 11°6'/5.3 | 18 |
| 1 22 | 10 33.80 | - 3 1.5 | 2.395 | 3.200 | 11.7 | 19.9 | 1 22 | 10 37.60 | -30 34.5 | 2.641 | 3.232 | 15.5 | 21.7 |
| 2 1 | 10 28.65 | - 2 46.5 | 2.323 | 3.210 | 9.0 | 19.8 | 2 1 | 10 31.65 | -31 24.1 | 2.533 | 3.213 | 14.4 | 21.6 |
| 2 11 | 10 22.11 | - 2 15.3 | 2.275 | 3.219 | 6.1 | 19.6 | 2 11 | 10 23.86 | -31 46.7 | 2.443 | 3.193 | 13.2 | 21.4 |
| 2 21 | 10 14.80 | - 1 30.3 | 2.256 | 3.229 | 3.8 | 19.5 | 2 21 | 10 14.84 | -31 38.6 | 2.372 | 3.172 | 12.2 | 21.3 |
| 3 2 | 10 7.44 | - 0 35.4 | 2.266 | 3.238 | 4.1 | 19.5 | 3 2 | 10 5.43 | -30 58.1 | 2.324 | 3.150 | 11.6 | 21.2 |
| 3 12 | 10 0.82 | + 0 24.2 | 2.305 | 3.247 | 6.7 | 19.7 | 3 12 | 9 56.59 | -29 47.5 | 2.299 | 3.128 | 11.7 | 21.2 |
| 3 22 | 9 55.53 | + 1 23.3 | 2.371 | 3.255 | 9.5 | 19.9 | 3 22 | 9 49.16 | -28 12.2 | 2.298 | 3.105 | 12.6 | 21.2 |
| 4 1 | 9 52.02 | + 2 17.4 | 2.462 | 3.264 | 12.1 | 20.1 | 4 1 | 9 43.81 | -26 20.4 | 2.320 | 3.081 | 13.9 | 21.3 |
| 433119 | 2012 <i>TE</i> ₁₆₁ | | 2 21.1 | 48°57' | 0°1'/21.3 | 17 | 490249 | 2008 <i>WB</i> ₉₂ | | 2 21.1 | 129°92' | 4°4'/17.7 | 18 |
| 1 22 | 10 34.01 | + 8 10.0 | 2.051 | 2.905 | 11.5 | 21.1 | 1 22 | 10 41.76 | +19 37.5 | 1.616 | 2.489 | 13.1 | 21.9 |
| 2 1 | 10 28.94 | + 8 47.7 | 1.992 | 2.917 | 8.0 | 20.9 | 2 1 | 10 34.73 | +20 49.7 | 1.567 | 2.500 | 9.1 | 21.7 |
| 2 11 | 10 22.30 | + 9 35.1 | 1.958 | 2.930 | 4.2 | 20.7 | 2 11 | 10 25.42 | +22 2.1 | 1.543 | 2.511 | 5.5 | 21.5 |
| 2 21 | 10 14.80 | +10 27.3 | 1.953 | 2.942 | 0.2 | 20.3 | 2 21 | 10 14.86 | +23 5.2 | 1.546 | 2.522 | 4.7 | 21.5 |
| 3 2 | 10 7.32 | +11 18.8 | 1.978 | 2.955 | 3.9 | 20.7 | 3 2 | 10 4.38 | +23 51.3 | 1.578 | 2.532 | 7.8 | 21.7 |
| 3 12 | 10 0.74 | +12 4.4 | 2.030 | 2.968 | 7.7 | 20.9 | 3 12 | 9 55.29 | +24 16.2 | 1.636 | 2.541 | 11.6 | 21.9 |
| 3 22 | 9 55.72 | +12 40.3 | 2.108 | 2.981 | 11.0 | 21.2 | 3 22 | 9 48.53 | +24 19.3 | 1.717 | 2.550 | 15.0 | 22.1 |
| 4 1 | 9 52.73 | +13 4.5 | 2.208 | 2.994 | 13.8 | 21.4 | 4 1 | 9 44.63 | +24 3.0 | 1.817 | 2.558 | 17.9 | 22.4 |
| 151904 | 2004 <i>EZ</i> ₂₀ | | 2 21.1 | 272°97' | 0°5'/21.5 | 17 | 167123 | 2003 <i>SU</i> ₁₂₄ | | 2 21.1 | 203°22' | 2°0'/19.4 | 18 |
| 1 22 | 10 39.69 | + 7 19.3 | 1.464 | 2.323 | 15.0 | 21.4 | 1 22 | 10 40.17 | +14 37.5 | 2.037 | 2.896 | 11.3 | 21.1 |
| 2 1 | 10 33.82 | + 7 49.5 | 1.374 | 2.301 | 10.8 | 21.1 | 2 1 | 10 33.41 | +15 25.4 | 1.962 | 2.891 | 7.9 | 20.8 |
| 2 11 | 10 25.26 | + 8 35.9 | 1.307 | 2.278 | 5.8 | 20.7 | 2 11 | 10 24.71 | +16 18.3 | 1.913 | 2.886 | 4.1 | 20.6 |
| 2 21 | 10 14.85 | + 9 33.2 | 1.267 | 2.255 | 0.6 | 20.3 | 2 21 | 10 14.86 | +17 10.0 | 1.895 | 2.879 | 2.1 | 20.4 |
| 3 2 | 10 3.90 | +10 33.5 | 1.254 | 2.232 | 5.5 | 20.6 | 3 2 | 10 4.87 | +17 54.5 | 1.906 | 2.872 | 5.4 | 20.6 |
| 3 12 | 9 53.96 | +11 28.4 | 1.267 | 2.208 | 10.9 | 20.8 | 3 12 | 9 55.80 | +18 26.9 | 1.946 | 2.865 | 9.2 | 20.8 |
| 3 22 | 9 46.29 | +12 11.4 | 1.304 | 2.184 | 15.9 | 21.0 | 3 22 | 9 48.52 | +18 44.9 | 2.011 | 2.856 | 12.6 | 21.0 |
| 4 1 | 9 41.77 | +12 38.5 | 1.359 | 2.160 | 20.1 | 21.2 | 4 1 | 9 43.60 | +18 48.0 | 2.097 | 2.847 | 15.5 | 21.2 |
| 118638 | 2000 <i>HR</i> ₇₁ | | 2 21.1 | 232°63' | 4°5'/16.8 | 18 | 465193 | 2007 <i>HP</i> ₂₄ | | 2 21.1 | 172°36' | 2°1'/19.0 | 18 |
| | | | | | | | | | | | | | |

EPHEMERIDES

2 21.1

2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 81934 | 2000 <i>OL</i> ₁₅ | | 2 21.1 260°02 | 0°8/21.9 | 18 | | 426243 | 2012 <i>PE</i> ₁₇ | | 2 21.1 72°67 | 3°9/25.9 | 17 | |
| 1 22 | 10 35.69 | + 7 4.4 | 2.442 | 3.284 | 10.3 | 19.9 | 1 22 | 10 32.58 | - 6 53.0 | 2.172 | 2.965 | 13.2 | 20.3 |
| 2 1 | 10 30.08 | + 7 19.1 | 2.351 | 3.269 | 7.4 | 19.7 | 2 1 | 10 27.95 | - 5 45.7 | 2.096 | 2.974 | 10.3 | 20.1 |
| 2 11 | 10 22.93 | + 7 42.7 | 2.286 | 3.254 | 4.0 | 19.4 | 2 11 | 10 21.83 | - 4 15.0 | 2.044 | 2.983 | 7.1 | 19.9 |
| 2 21 | 10 14.85 | + 8 12.1 | 2.251 | 3.239 | 0.8 | 19.2 | 2 21 | 10 14.85 | - 2 25.0 | 2.021 | 2.992 | 4.4 | 19.8 |
| 3 2 | 10 6.57 | + 8 43.6 | 2.246 | 3.223 | 3.5 | 19.3 | 3 2 | 10 7.83 | - 0 22.6 | 2.028 | 3.001 | 4.4 | 19.8 |
| 3 12 | 9 58.95 | + 9 13.2 | 2.270 | 3.208 | 7.0 | 19.5 | 3 12 | 10 1.58 | + 1 43.6 | 2.066 | 3.010 | 7.1 | 20.0 |
| 3 22 | 9 52.65 | + 9 37.4 | 2.322 | 3.192 | 10.2 | 19.7 | 3 22 | 9 56.76 | + 3 45.0 | 2.131 | 3.020 | 10.2 | 20.2 |
| 4 1 | 9 48.21 | + 9 53.9 | 2.396 | 3.176 | 13.0 | 19.9 | 4 1 | 9 53.85 | + 5 34.9 | 2.222 | 3.029 | 13.1 | 20.4 |
| 277768 | 2006 <i>DC</i> ₁₆₃ | | 2 21.1 349°21 | 1°3/22.2 | 17 | | 83711 | 2001 <i>TH</i> ₈₂ | | 2 21.1 155°43 | 1°6/22.9 | 18 | |
| 1 22 | 10 34.70 | + 4 53.3 | 1.843 | 2.692 | 12.9 | 20.5 | 1 22 | 10 34.98 | + 3 23.6 | 2.760 | 3.585 | 9.8 | 19.7 |
| 2 1 | 10 29.67 | + 5 26.1 | 1.770 | 2.690 | 9.3 | 20.3 | 2 1 | 10 29.34 | + 3 38.6 | 2.685 | 3.591 | 7.1 | 19.5 |
| 2 11 | 10 22.80 | + 6 13.3 | 1.722 | 2.689 | 5.2 | 20.1 | 2 11 | 10 22.46 | + 4 3.5 | 2.637 | 3.597 | 4.2 | 19.4 |
| 2 21 | 10 14.84 | + 7 10.5 | 1.701 | 2.688 | 1.4 | 19.8 | 2 21 | 10 14.87 | + 4 35.8 | 2.618 | 3.603 | 1.7 | 19.2 |
| 3 2 | 10 6.77 | + 8 11.4 | 1.708 | 2.687 | 4.1 | 20.0 | 3 2 | 10 7.24 | + 5 12.2 | 2.631 | 3.608 | 3.1 | 19.3 |
| 3 12 | 9 59.61 | + 9 9.4 | 1.744 | 2.687 | 8.3 | 20.2 | 3 12 | 10 0.26 | + 5 48.8 | 2.674 | 3.613 | 6.0 | 19.5 |
| 3 22 | 9 54.18 | + 9 59.1 | 1.804 | 2.686 | 12.1 | 20.5 | 3 22 | 9 54.47 | + 6 22.4 | 2.744 | 3.617 | 8.7 | 19.7 |
| 4 1 | 9 51.03 | + 10 36.9 | 1.887 | 2.686 | 15.3 | 20.7 | 4 1 | 9 50.28 | + 6 50.2 | 2.839 | 3.621 | 11.1 | 19.9 |
| 26967 | 1997 <i>RZ</i> ₇ | | 2 21.1 110°27 | 1°3/20.2 | 18 | | 224918 | 2007 <i>DZ</i> ₂₇ | | 2 21.1 2°89 | 1°5/19.9 | 18 | |
| 1 22 | 10 43.22 | + 14 2.8 | 1.921 | 2.776 | 12.1 | 17.3 | 1 22 | 10 35.84 | + 11 54.6 | 1.717 | 2.585 | 12.6 | 20.3 |
| 2 1 | 10 35.35 | + 14 13.2 | 1.865 | 2.793 | 8.4 | 17.1 | 2 1 | 10 30.58 | + 12 50.5 | 1.651 | 2.585 | 8.7 | 20.0 |
| 2 11 | 10 25.60 | + 14 27.1 | 1.837 | 2.809 | 4.3 | 16.8 | 2 11 | 10 23.32 | + 13 55.5 | 1.610 | 2.585 | 4.4 | 19.8 |
| 2 21 | 10 14.89 | + 14 39.7 | 1.837 | 2.824 | 1.3 | 16.7 | 2 21 | 10 14.88 | + 15 2.5 | 1.597 | 2.585 | 1.6 | 19.6 |
| 3 2 | 10 4.32 | + 14 46.8 | 1.868 | 2.839 | 4.8 | 16.9 | 3 2 | 10 6.35 | + 16 3.9 | 1.613 | 2.585 | 5.4 | 19.8 |
| 3 12 | 9 54.98 | + 14 45.6 | 1.927 | 2.854 | 8.7 | 17.2 | 3 12 | 9 58.86 | + 16 53.2 | 1.655 | 2.585 | 9.7 | 20.1 |
| 3 22 | 9 47.65 | + 14 34.7 | 2.012 | 2.869 | 12.2 | 17.4 | 3 22 | 9 53.29 | + 17 26.8 | 1.722 | 2.586 | 13.5 | 20.3 |
| 4 1 | 9 42.81 | + 14 14.2 | 2.119 | 2.882 | 15.0 | 17.7 | 4 1 | 9 50.20 | + 17 43.3 | 1.808 | 2.587 | 16.7 | 20.5 |
| 292399 | 2006 <i>SY</i> ₂₇₈ | | 2 21.1 176°45 | 1°6/23.0 | 17 | | 331774 | 2003 <i>EQ</i> ₃₈ | | 2 21.1 299°07 | 6°3/25.5 | 17 | |
| 1 22 | 10 32.94 | + 2 31.2 | 2.593 | 3.421 | 10.3 | 21.1 | 1 22 | 10 36.63 | - 5 30.7 | 1.729 | 2.536 | 15.5 | 19.9 |
| 2 1 | 10 28.03 | + 3 8.9 | 2.514 | 3.422 | 7.5 | 20.9 | 2 1 | 10 31.33 | - 6 0.3 | 1.636 | 2.518 | 12.4 | 19.6 |
| 2 11 | 10 21.81 | + 3 58.9 | 2.461 | 3.423 | 4.4 | 20.7 | 2 11 | 10 23.84 | - 6 8.2 | 1.566 | 2.500 | 9.2 | 19.4 |
| 2 21 | 10 14.84 | + 4 57.8 | 2.438 | 3.423 | 1.7 | 20.5 | 2 21 | 10 14.89 | - 5 54.0 | 1.520 | 2.483 | 6.6 | 19.2 |
| 3 2 | 10 7.78 | + 6 1.1 | 2.446 | 3.424 | 3.2 | 20.6 | 3 2 | 10 5.56 | - 5 19.8 | 1.501 | 2.466 | 6.8 | 19.2 |
| 3 12 | 10 1.36 | + 7 3.9 | 2.483 | 3.424 | 6.3 | 20.8 | 3 12 | 9 57.05 | - 4 31.1 | 1.509 | 2.449 | 9.6 | 19.3 |
| 3 22 | 9 56.14 | + 8 1.7 | 2.548 | 3.424 | 9.2 | 21.0 | 3 22 | 9 50.38 | - 3 35.2 | 1.541 | 2.432 | 13.2 | 19.4 |
| 4 1 | 9 52.58 | + 8 51.1 | 2.636 | 3.423 | 11.8 | 21.2 | 4 1 | 9 46.30 | - 2 39.6 | 1.594 | 2.415 | 16.7 | 19.6 |
| 170057 | 2002 <i>VB</i> ₈₀ | | 2 21.1 77°73 | 4°0/25.4 | 18 | | 107354 | 2001 <i>CJ</i> ₂₇ | | 2 21.1 359°28 | 3°2/19.7 | 18 | |
| 1 22 | 10 33.82 | - 4 10.1 | 2.189 | 2.993 | 12.7 | 19.8 | 1 22 | 10 43.34 | + 18 13.4 | 1.201 | 2.083 | 15.9 | 19.5 |
| 2 1 | 10 28.78 | - 3 56.2 | 2.119 | 3.004 | 9.9 | 19.7 | 2 1 | 10 36.45 | + 18 10.5 | 1.142 | 2.080 | 11.2 | 19.2 |
| 2 11 | 10 22.23 | - 3 24.0 | 2.073 | 3.014 | 6.8 | 19.5 | 2 11 | 10 26.57 | + 18 7.0 | 1.105 | 2.078 | 6.1 | 18.9 |
| 2 21 | 10 14.85 | - 2 35.8 | 2.055 | 3.025 | 4.4 | 19.4 | 2 21 | 10 14.96 | + 17 56.2 | 1.093 | 2.078 | 3.3 | 18.7 |
| 3 2 | 10 7.42 | - 1 35.8 | 2.065 | 3.035 | 4.6 | 19.4 | 3 2 | 10 3.37 | + 17 32.7 | 1.106 | 2.078 | 7.4 | 18.9 |
| 3 12 | 10 0.80 | - 0 29.9 | 2.103 | 3.046 | 7.1 | 19.6 | 3 12 | 9 53.57 | + 16 54.2 | 1.145 | 2.079 | 12.6 | 19.2 |
| 3 22 | 9 55.63 | + 0 35.9 | 2.169 | 3.056 | 10.1 | 19.8 | 3 22 | 9 46.75 | + 16 1.7 | 1.204 | 2.081 | 17.2 | 19.5 |
| 4 1 | 9 52.37 | + 1 36.4 | 2.258 | 3.067 | 12.8 | 20.0 | 4 1 | 9 43.51 | + 14 57.6 | 1.282 | 2.084 | 21.0 | 19.8 |
| 107399 | 2001 <i>DJ</i> ₁ | | 2 21.1 253°44 | 0°8/20.5 | 18 | | 414228 | 2008 <i>FB</i> ₅₁ | | 2 21.2 157°39 | 5°2/17.2 | 18 | |
| 1 22 | 10 39.05 | + 9 8.0 | 1.503 | 2.366 | 14.4 | 20.9 | 1 22 | 10 41.91 | + 23 45.3 | 1.777 | 2.647 | 12.2 | 20.5 |
| 2 1 | 10 33.27 | + 10 9.8 | 1.419 | 2.350 | 10.2 | 20.6 | 2 1 | 10 34.80 | + 24 32.6 | 1.720 | 2.649 | 8.8 | 20.3 |
| 2 11 | 10 24.93 | + 11 27.5 | 1.360 | 2.333 | 5.2 | 20.2 | 2 11 | 10 25.48 | + 25 15.5 | 1.688 | 2.650 | 5.9 | 20.1 |
| 2 21 | 10 14.89 | + 12 53.5 | 1.328 | 2.316 | 0.8 | 19.9 | 2 21 | 10 14.95 | + 25 46.3 | 1.683 | 2.651 | 5.5 | 20.1 |
| 3 2 | 10 4.42 | + 14 17.9 | 1.324 | 2.299 | 5.9 | 20.2 | 3 2 | 10 4.45 | + 25 59.2 | 1.707 | 2.652 | 8.0 | 20.2 |
| 3 12 | 9 55.00 | + 15 31.2 | 1.346 | 2.280 | 11.1 | 20.4 | 3 12 | 9 55.24 | + 25 51.7 | 1.757 | 2.653 | 11.4 | 20.4 |
| 3 22 | 9 47.80 | + 16 27.0 | 1.392 | 2.262 | 15.8 | 20.7 | 3 22 | 9 48.24 | + 25 24.6 | 1.830 | 2.654 | 14.6 | 20.7 |
| 4 1 | 9 43.64 | + 17 2.3 | 1.457 | 2.243 | 19.7 | 20.9 | 4 1 | 9 44.00 | + 24 40.7 | 1.923 | 2.655 | 17.3 | 20.9 |
| 305702 | 2009 <i>BO</i> ₁₆₈ | | 2 21.1 103°05 | 3°4/23.5 | 18 | | 384877 | 2012 <i>SH</i> ₄₇ | | 2 21.2 98°93 | 2°0/22.9 | 18 | |
| 1 22 | 10 39.67 | + 1 12.2 | 1.559 | 2.396 | 15.4 | 20.4 | 1 22 | 10 36.12 | + 3 28.5 | 2.295 | 3.126 | 11.3 | 20.9 |
| 2 1 | 10 33.33 | + 1 8.5 | 1.494 | 2.403 | 11.5 | 20.2 | 2 1 | 10 30.32 | + 3 33.1 | 2.226 | 3.135 | 8.2 | 20.7 |
| 2 11 | 10 24.76 | + 1 23.4 | 1.451 | 2.410 | 7.2 | 19.9 | 2 11 | 10 23.04 | + 3 49.1 | 2.183 | 3.144 | 4.9 | 20.5 |
| 2 21 | 10 14.89 | + 1 53.9 | 1.435 | 2.417 | 3.7 | 19.7 | 2 21 | 10 14.93 | + 4 13.8 | 2.169 | 3.153 | 2.1 | 20.3 |
| 3 2 | 10 4.96 | + 2 34.9 | 1.447 | 2.424 | 5.1 | 19.9 | 3 2 | 10 6.79 | + 4 43.6 | 2.185 | 3.162 | 3.6 | 20.4 |
| 3 12 | 9 56.25 | + 3 19.4 | 1.485 | 2.430 | 9.3 | 20.1 | 3 12 | 9 59.47 | + 5 14.3 | 2.229 | 3.171 | 6.9 | 20.7 |
| 3 22 | 9 49.71 | + 4 1.2 | 1.548 | 2.437 | 13.3 | 20.4 | 3 22 | 9 53.59 | + 5 42.0 | 2.301 | 3.179 | 10.0 | 20.9 |
| 4 1 | 9 45.93 | + 4 35.1 | 1.632 | 2.443 | 16.8 | 20.6 | 4 1 | 9 49.63 | + 6 3.8 | 2.395 | 3.188 | 12.7 | 21.1 |
| 196664 | 2003 <i>SD</i> ₄₆ | | 2 21.1 113°33 | 1°3/19.9 | 18 | | 221301 | 2005 <i>UZ</i> ₄₉₄ | | 2 21.2 58°38 | 0°4/21.5 | 18 | |
| 1 22 | 10 36.13 | + 12 36.4 | 2.091 | 2.952 | 11.0 | 20.1 | 1 22 | 10 34.41 | + 4 57.5 | 1.632 | 2.487 | 13.9 | 20.0 |
| 2 1 | 10 30.45 | + 13 23.1 | 2.029 | 2.959 | 7.6 | 19.9 | 2 1 | 10 29.53 | + 6 18.5 | 1.578 | 2.503 | 9.8 | 19.8 |
| 2 11 | 10 23.12 | + 14 15.9 | 1.993 | 2.967 | 3.8 | 19.7 | 2 11 | 10 22.75 | + 7 56.1 | 1.549 | 2.520 | 5.2 | 19.6 |
| 2 21 | 10 14.87 | + 15 9.2 | 1.987 | 2.974 | 1.4 | 19.5 | 2 21 | 10 14.92 | + 9 42.4 | 1.548 | 2.537 | 0.5 | 19.3 |
| 3 2 | 10 6.61 | + 15 57.3 | 2.010 | 2.981 | 4.7 | 19.8 | 3 2 | 10 7.12 | + 11 27.7 | 1.576 | 2.554 | 4.6 | 19.6 |
| 3 12 | 9 59.25 | + 16 35.5 | 2.062 | 2.988 | 8.3 | 20.0 | 3 12 | 10 0.43 | + 13 2.7 | 1.632 | 2.571 | 9.0 | 19.9 |
| 3 22 | 9 53.53 | + 17 1.0 | 2.139 | 2.995 | 11.6 | 20.2 | 3 22 | 9 55.65 | + 14 21.1 | 1.712 | 2.589 | 12.9 | 20.2 |
| 4 1 | 9 49.91 | + 17 12.9 | 2.237 | 3.001 | 14.3 | 20.4 | 4 1 | 9 53.29 | + 15 19.7 | 1.813 | 2.606 | 16.1 | 20.4 |
| 241825 | 2001 <i>SH</i> ₁₇₀ | | 2 21.1 119°57 | 4°6/26.9 | 18 | | 285316 | 1998 <i>YE</i> ₁₇ | | 2 21.2 7 | | | |

EPHEMERIDES

2 21.2

2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------------|------------|---------|------|---------------|-------------------------------|-----------------|----------------|------------|---------|------|
| 313799 | 2004 <i>AD</i> ₈ | | 2 21.2 176°87' | 14.3°/29.2 | 18 | | 253085 | 2002 <i>TG</i> ₂₂₇ | | 2 21.2 98°02' | 5°1°/26.2 | 18 | |
| 1 22 | 10 45.80 | -18 44.7 | 1.360 | 2.098 | 22.2 | 20.1 | 1 22 | 10 36.28 | -7 1.3 | 1.825 | 2.621 | 15.2 | 20.7 |
| 2 1 | 10 38.35 | -20 33.1 | 1.290 | 2.100 | 19.6 | 20.0 | 2 1 | 10 30.71 | -6 34.8 | 1.761 | 2.639 | 11.9 | 20.6 |
| 2 11 | 10 27.73 | -21 46.3 | 1.237 | 2.102 | 16.9 | 19.8 | 2 11 | 10 23.33 | -5 43.5 | 1.721 | 2.656 | 8.5 | 20.4 |
| 2 21 | 10 15.00 | -22 16.7 | 1.204 | 2.103 | 14.9 | 19.6 | 2 21 | 10 14.96 | -4 30.4 | 1.707 | 2.673 | 5.7 | 20.2 |
| 3 2 | 10 1.77 | -22 1.4 | 1.194 | 2.103 | 14.4 | 19.6 | 3 2 | 10 6.59 | -3 1.7 | 1.720 | 2.689 | 5.6 | 20.3 |
| 3 12 | 9 49.86 | -21 5.8 | 1.207 | 2.102 | 15.5 | 19.7 | 3 12 | 9 59.25 | -1 25.7 | 1.763 | 2.705 | 8.2 | 20.5 |
| 3 22 | 9 40.76 | -19 41.8 | 1.240 | 2.101 | 17.8 | 19.8 | 3 22 | 9 53.72 | +0 8.8 | 1.831 | 2.721 | 11.5 | 20.7 |
| 4 1 | 9 35.34 | -18 3.4 | 1.292 | 2.099 | 20.6 | 20.0 | 4 1 | 9 50.47 | +1 34.9 | 1.923 | 2.737 | 14.5 | 20.9 |
| 368126 | 2013 <i>JH</i> ₈ | | 2 21.2 268°43' | 0°8°/20.5 | 16 | | 433033 | 2012 <i>SW</i> ₁₆ | | 2 21.2 86°95' | 2°0°/19.4 | 17 | |
| 1 22 | 10 37.87 | +10 12.5 | 1.684 | 2.546 | 13.2 | 22.0 | 1 22 | 10 37.57 | +16 16.2 | 2.243 | 3.106 | 10.3 | 21.1 |
| 2 1 | 10 32.23 | +10 58.9 | 1.599 | 2.530 | 9.3 | 21.8 | 2 1 | 10 31.41 | +16 40.7 | 2.177 | 3.108 | 7.1 | 20.9 |
| 2 11 | 10 24.33 | +11 57.2 | 1.539 | 2.513 | 4.8 | 21.4 | 2 11 | 10 23.63 | +17 7.3 | 2.139 | 3.111 | 3.8 | 20.7 |
| 2 21 | 10 14.95 | +13 1.1 | 1.507 | 2.495 | 0.8 | 21.1 | 2 21 | 10 14.97 | +17 31.2 | 2.129 | 3.113 | 2.1 | 20.6 |
| 3 2 | 10 5.24 | +14 2.9 | 1.503 | 2.478 | 5.3 | 21.4 | 3 2 | 10 6.30 | +17 48.2 | 2.149 | 3.116 | 4.8 | 20.7 |
| 3 12 | 9 56.47 | +14 55.3 | 1.526 | 2.460 | 10.1 | 21.6 | 3 12 | 9 58.52 | +17 55.3 | 2.198 | 3.118 | 8.2 | 21.0 |
| 3 22 | 9 49.68 | +15 33.5 | 1.573 | 2.442 | 14.3 | 21.8 | 3 22 | 9 52.32 | +17 51.1 | 2.272 | 3.121 | 11.2 | 21.1 |
| 4 1 | 9 45.58 | +15 54.9 | 1.640 | 2.423 | 17.9 | 22.0 | 4 1 | 9 48.19 | +17 35.7 | 2.368 | 3.123 | 13.8 | 21.3 |
| 436928 | 2012 <i>TE</i> ₁₁₁ | | 2 21.2 195°34' | 1°8°/19.3 | 17 | | 474115 | 2016 <i>LW</i> ₄₁ | | 2 21.2 129°33' | 3°7°/17.1 | 17 | |
| 1 22 | 10 37.48 | +16 16.2 | 2.603 | 3.460 | 9.2 | 21.6 | 1 22 | 10 35.16 | +20 14.9 | 2.296 | 3.165 | 9.8 | 21.1 |
| 2 1 | 10 31.20 | +16 44.2 | 2.529 | 3.458 | 6.4 | 21.4 | 2 1 | 10 29.77 | +21 27.0 | 2.238 | 3.170 | 6.9 | 21.0 |
| 2 11 | 10 23.48 | +17 14.0 | 2.484 | 3.455 | 3.4 | 21.2 | 2 11 | 10 22.81 | +22 39.2 | 2.207 | 3.174 | 4.3 | 20.8 |
| 2 21 | 10 14.94 | +17 41.5 | 2.469 | 3.453 | 1.9 | 21.1 | 2 21 | 10 14.95 | +23 44.9 | 2.206 | 3.178 | 4.0 | 20.8 |
| 3 2 | 10 6.35 | +18 2.8 | 2.484 | 3.449 | 4.4 | 21.3 | 3 2 | 10 7.06 | +24 38.3 | 2.235 | 3.182 | 6.3 | 20.9 |
| 3 12 | 9 58.50 | +18 15.1 | 2.529 | 3.446 | 7.5 | 21.4 | 3 12 | 10 0.01 | +25 15.7 | 2.291 | 3.186 | 9.1 | 21.1 |
| 3 22 | 9 52.02 | +18 16.8 | 2.601 | 3.442 | 10.2 | 21.6 | 3 22 | 9 54.47 | +25 35.5 | 2.371 | 3.190 | 11.9 | 21.3 |
| 4 1 | 9 47.37 | +18 7.8 | 2.695 | 3.438 | 12.6 | 21.8 | 4 1 | 9 50.93 | +25 38.5 | 2.472 | 3.194 | 14.1 | 21.5 |
| 423191 | 2004 <i>NK</i> ₁₉ | | 2 21.2 221°75' | 4°6°/25.3 | 17 | | 378917 | Stefankarge | | 2 21.2 82°94' | 2°6°/18.7 | 18 | |
| 1 22 | 10 37.57 | -4 44.9 | 2.303 | 3.095 | 12.6 | 21.7 | 1 22 | 10 36.55 | +16 26.2 | 2.038 | 2.905 | 11.0 | 21.3 |
| 2 1 | 10 31.50 | -4 56.5 | 2.210 | 3.086 | 9.9 | 21.5 | 2 1 | 10 30.78 | +17 21.1 | 1.985 | 2.918 | 7.5 | 21.2 |
| 2 11 | 10 23.75 | -4 51.1 | 2.142 | 3.077 | 7.1 | 21.3 | 2 11 | 10 23.32 | +18 18.6 | 1.959 | 2.931 | 4.1 | 21.0 |
| 2 21 | 10 14.95 | -4 29.4 | 2.102 | 3.066 | 4.9 | 21.2 | 2 21 | 10 14.97 | +19 12.3 | 1.962 | 2.944 | 2.8 | 20.9 |
| 3 2 | 10 5.93 | -3 53.9 | 2.091 | 3.056 | 5.1 | 21.2 | 3 2 | 10 6.66 | +19 56.6 | 1.994 | 2.956 | 5.6 | 21.1 |
| 3 12 | 9 57.58 | -3 9.2 | 2.109 | 3.045 | 7.6 | 21.3 | 3 12 | 9 59.35 | +20 27.3 | 2.053 | 2.969 | 9.0 | 21.3 |
| 3 22 | 9 50.68 | -2 20.6 | 2.154 | 3.033 | 10.5 | 21.4 | 3 22 | 9 53.74 | +20 42.6 | 2.138 | 2.981 | 12.1 | 21.5 |
| 4 1 | 9 45.79 | -1 33.2 | 2.222 | 3.021 | 13.3 | 21.6 | 4 1 | 9 50.30 | +20 42.8 | 2.243 | 2.994 | 14.6 | 21.8 |
| 429885 | 2012 <i>TT</i> ₁₆ | | 2 21.2 207°87' | 2°9°/24.4 | 17 | | 363131 | 2001 <i>QE</i> ₁₀₉ | | 2 21.2 176°00' | 2°5°/18.5 | 17 | |
| 1 22 | 10 33.52 | -1 40.8 | 2.475 | 3.286 | 11.2 | 21.5 | 1 22 | 10 39.18 | +17 40.8 | 2.529 | 3.386 | 9.5 | 22.1 |
| 2 1 | 10 28.54 | -1 14.1 | 2.390 | 3.283 | 8.5 | 21.4 | 2 1 | 10 32.42 | +18 31.3 | 2.461 | 3.389 | 6.6 | 21.9 |
| 2 11 | 10 22.15 | +0 31.8 | 2.330 | 3.279 | 5.6 | 21.2 | 2 11 | 10 24.14 | +19 23.2 | 2.422 | 3.392 | 3.7 | 21.7 |
| 2 21 | 10 14.93 | +0 23.5 | 2.298 | 3.275 | 3.2 | 21.0 | 2 21 | 10 14.99 | +20 11.1 | 2.414 | 3.394 | 2.7 | 21.7 |
| 3 2 | 10 7.58 | +1 27.7 | 2.296 | 3.271 | 3.8 | 21.0 | 3 2 | 10 5.80 | +20 50.2 | 2.437 | 3.395 | 5.1 | 21.8 |
| 3 12 | 9 50.87 | +2 35.4 | 2.324 | 3.267 | 6.6 | 21.2 | 3 12 | 9 57.40 | +21 17.3 | 2.489 | 3.395 | 8.1 | 22.0 |
| 3 22 | 9 55.43 | +3 41.3 | 2.380 | 3.262 | 9.5 | 21.4 | 3 22 | 9 50.48 | +21 30.8 | 2.568 | 3.394 | 10.8 | 22.2 |
| 4 1 | 9 51.73 | +4 41.0 | 2.459 | 3.257 | 12.2 | 21.6 | 4 1 | 9 45.50 | +21 30.9 | 2.668 | 3.393 | 13.1 | 22.4 |
| 113099 | 2002 <i>RX</i> ₇₅ | | 2 21.2 156°06' | 0°5°/21.6 | 18 | | 508097 | 2015 <i>DN</i> ₁₃₃ | | 2 21.2 227°08' | 5°5°/14.1 | 17 | |
| 1 22 | 10 35.44 | +7 21.7 | 2.440 | 3.283 | 10.3 | 20.2 | 1 22 | 10 35.95 | +28 44.3 | 2.629 | 3.492 | 9.0 | 21.6 |
| 2 1 | 10 29.82 | +7 51.7 | 2.368 | 3.288 | 7.3 | 20.0 | 2 1 | 10 30.30 | +30 1.9 | 2.568 | 3.485 | 6.9 | 21.5 |
| 2 11 | 10 22.78 | +8 30.6 | 2.323 | 3.292 | 3.9 | 19.8 | 2 11 | 10 23.10 | +31 14.0 | 2.535 | 3.478 | 5.6 | 21.4 |
| 2 21 | 10 14.94 | +9 14.6 | 2.308 | 3.296 | 0.5 | 19.5 | 2 21 | 10 14.98 | +32 14.2 | 2.530 | 3.470 | 5.9 | 21.4 |
| 3 2 | 10 7.05 | +9 59.2 | 2.323 | 3.300 | 3.4 | 19.8 | 3 2 | 10 6.75 | +32 57.6 | 2.555 | 3.462 | 7.7 | 21.5 |
| 3 12 | 9 59.89 | +10 40.1 | 2.368 | 3.304 | 6.8 | 20.0 | 3 12 | 9 59.26 | +33 21.4 | 2.605 | 3.454 | 9.9 | 21.6 |
| 3 22 | 9 54.09 | +11 14.0 | 2.440 | 3.307 | 9.9 | 20.2 | 3 22 | 9 53.23 | +33 25.7 | 2.680 | 3.446 | 12.0 | 21.8 |
| 4 1 | 9 50.11 | +11 38.5 | 2.535 | 3.310 | 12.5 | 20.4 | 4 1 | 9 49.13 | +33 12.0 | 2.773 | 3.437 | 13.9 | 21.9 |
| 115054 | 2003 <i>RR</i> ₆ | | 2 21.2 76°29' | 5°8°/16.4 | 18 | | 344607 | 2003 <i>EE</i> ₃₂ | | 2 21.2 33°03' | 12°2°/14.1 | 18 | |
| 1 22 | 10 41.07 | +26 39.6 | 1.939 | 2.806 | 11.4 | 19.3 | 1 22 | 10 57.96 | +47 6.9 | 1.833 | 2.640 | 14.7 | 19.5 |
| 2 1 | 10 33.96 | +27 30.8 | 1.898 | 2.822 | 8.5 | 19.1 | 2 1 | 10 45.80 | +47 34.1 | 1.805 | 2.654 | 13.1 | 19.5 |
| 2 11 | 10 24.94 | +28 14.4 | 1.883 | 2.838 | 6.2 | 19.0 | 2 11 | 10 30.92 | +47 32.4 | 1.801 | 2.669 | 12.3 | 19.4 |
| 2 21 | 10 14.97 | +28 43.6 | 1.896 | 2.854 | 6.1 | 19.0 | 2 21 | 10 15.10 | +46 54.6 | 1.821 | 2.684 | 12.5 | 19.5 |
| 3 2 | 10 5.20 | +28 53.7 | 1.937 | 2.869 | 8.2 | 19.2 | 3 2 | 10 0.32 | +45 39.4 | 1.865 | 2.701 | 13.7 | 19.6 |
| 3 12 | 9 56.73 | +28 43.1 | 2.004 | 2.885 | 11.0 | 19.4 | 3 12 | 9 48.20 | +43 52.1 | 1.934 | 2.717 | 15.3 | 19.7 |
| 3 22 | 9 50.32 | +28 13.6 | 2.095 | 2.901 | 13.7 | 19.6 | 3 22 | 9 39.56 | +41 41.7 | 2.023 | 2.734 | 17.1 | 19.9 |
| 4 1 | 9 46.43 | +27 28.1 | 2.204 | 2.916 | 15.9 | 19.8 | 4 1 | 9 34.60 | +39 17.0 | 2.131 | 2.752 | 18.6 | 20.1 |
| 426647 | 2013 <i>SB</i> ₇₆ | | 2 21.2 106°92' | 1°8°/22.9 | 18 | | 417702 | 2007 <i>BZ</i> ₆₇ | | 2 21.2 257°02' | 1°6°/20.1 | 17 | |
| 1 22 | 10 36.34 | +2 53.8 | 2.089 | 2.922 | 12.2 | 22.4 | 1 22 | 10 41.95 | +15 3.1 | 1.902 | 2.761 | 12.0 | 20.6 |
| 2 1 | 10 30.56 | +3 23.5 | 2.027 | 2.937 | 8.8 | 22.2 | 2 1 | 10 34.79 | +15 11.2 | 1.823 | 2.753 | 8.4 | 20.4 |
| 2 11 | 10 23.19 | +4 6.9 | 1.990 | 2.953 | 5.2 | 22.0 | 2 11 | 10 25.53 | +15 22.2 | 1.771 | 2.744 | 4.4 | 20.1 |
| 2 21 | 10 14.95 | +5 0.1 | 1.982 | 2.967 | 2.0 | 21.8 | 2 21 | 10 15.03 | +15 31.4 | 1.748 | 2.735 | 1.7 | 19.9 |
| 3 2 | 10 6.73 | +5 57.8 | 2.004 | 2.982 | 3.7 | 21.9 | 3 2 | 10 4.38 | +15 34.3 | 1.754 | 2.725 | 5.2 | 20.1 |
| 3 12 | 9 59.41 | +6 54.1 | 2.055 | 2.996 | 7.3 | 22.2 | 3 12 | 9 54.78 | +15 27.6 | 1.789 | 2.716 | 9.3 | 20.4 |
| 3 22 | 9 53.69 | +7 44.2 | 2.132 | 3.010 | 10.7 | 22.4 | 3 22 | 9 47.14 | +15 10.3 | 1.849 | 2.707 | 13.0 | 20.6 |
| 4 1 | 9 50.02 | +8 24.8 | 2.232 | 3.024 | 13.5 | 22.6 | 4 1 | 9 42.05 | +14 42.1 | 1.930 | 2.697 | 16.1 | 20.8 |
| 130693 | 2000 <i>SB</i> ₁₄₉ | | 2 21.2 71°01' | 2°0°/22.7 | 18 | | 277945 | 2006 <i>QR</i> ₅ | | 2 21.2 147°19' | 2°9°/17.4 | 17 | |
| 1 22 | 10 38.11 | +3 13 | | | | | | | | | | | |

EPHEMERIDES

2 21.2

2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 290719 | 2005 <i>UL</i> ₄₂₇ | | 2 21.2 138°49 | 6°2/15.6 | 18 | | 231 | Vindobona | | 2 21.2 268°53 | 0°8/20.4 | 18 | |
| 1 22 | 10 41.25 | +27 43.8 | 1.999 | 2.864 | 11.2 | 20.3 | 1 22 | 10 36.86 | +11 58.8 | 2.187 | 3.043 | 10.8 | 14.4 |
| 2 1 | 10 34.19 | +28 47.2 | 1.949 | 2.871 | 8.5 | 20.1 | 2 1 | 10 31.10 | +12 25.7 | 2.101 | 3.029 | 7.5 | 14.2 |
| 2 11 | 10 25.14 | +29 42.9 | 1.927 | 2.877 | 6.5 | 20.0 | 2 11 | 10 23.60 | +12 59.0 | 2.042 | 3.015 | 3.8 | 13.9 |
| 2 21 | 10 15.02 | +30 23.5 | 1.932 | 2.883 | 6.6 | 20.0 | 2 21 | 10 15.04 | +13 34.3 | 2.012 | 3.000 | 0.9 | 13.6 |
| 3 2 | 10 4.97 | +30 43.6 | 1.965 | 2.889 | 8.6 | 20.2 | 3 2 | 10 6.29 | +14 6.8 | 2.012 | 2.986 | 4.3 | 13.9 |
| 3 12 | 9 56.14 | +30 41.1 | 2.024 | 2.894 | 11.4 | 20.3 | 3 12 | 9 58.30 | +14 32.0 | 2.041 | 2.971 | 8.1 | 14.1 |
| 3 22 | 9 49.34 | +30 17.6 | 2.106 | 2.899 | 14.0 | 20.5 | 3 22 | 9 51.85 | +14 47.3 | 2.095 | 2.956 | 11.6 | 14.3 |
| 4 1 | 9 45.09 | +29 36.2 | 2.207 | 2.904 | 16.3 | 20.7 | 4 1 | 9 47.49 | +14 51.0 | 2.171 | 2.941 | 14.5 | 14.4 |
| 374099 | 2004 <i>RW</i> ₂₇₀ | | 2 21.2 101°83 | 1°4/20.0 | 18 | | 343601 | 2010 <i>GN</i> ₁₀₉ | | 2 21.2 50°84 | 2°8/24.1 | 18 | |
| 1 22 | 10 38.60 | +13 24.0 | 1.908 | 2.770 | 11.8 | 21.5 | 1 22 | 10 33.10 | - 0 42.0 | 2.094 | 2.918 | 12.5 | 20.9 |
| 2 1 | 10 32.31 | +13 54.6 | 1.847 | 2.778 | 8.2 | 21.3 | 2 1 | 10 28.41 | - 0 6.4 | 2.021 | 2.923 | 9.4 | 20.7 |
| 2 11 | 10 24.18 | +14 30.3 | 1.812 | 2.785 | 4.2 | 21.1 | 2 11 | 10 22.17 | + 0 46.8 | 1.973 | 2.928 | 5.9 | 20.5 |
| 2 21 | 10 15.02 | +15 5.9 | 1.805 | 2.792 | 1.5 | 20.9 | 2 21 | 10 15.02 | + 1 53.8 | 1.952 | 2.932 | 3.0 | 20.3 |
| 3 2 | 10 5.87 | +15 35.9 | 1.827 | 2.799 | 4.9 | 21.2 | 3 2 | 10 7.79 | + 3 9.2 | 1.960 | 2.937 | 3.9 | 20.4 |
| 3 12 | 9 57.77 | +15 56.1 | 1.877 | 2.806 | 8.9 | 21.4 | 3 12 | 10 1.36 | + 4 26.3 | 1.997 | 2.942 | 7.2 | 20.6 |
| 3 22 | 9 51.52 | +16 4.2 | 1.952 | 2.812 | 12.3 | 21.6 | 3 22 | 9 56.40 | + 5 38.8 | 2.061 | 2.948 | 10.6 | 20.8 |
| 4 1 | 9 47.62 | +15 59.8 | 2.049 | 2.819 | 15.2 | 21.8 | 4 1 | 9 53.42 | + 6 41.8 | 2.147 | 2.953 | 13.5 | 21.0 |
| 5483 | Cherkashin | | 2 21.2 237°61 | 4°3/16.4 | 18 | | 332433 | 2007 <i>TV</i> ₄₁₇ | | 2 21.2 88°93 | 4°9/14.9 | 18 | |
| 1 22 | 10 36.26 | +23 40.5 | 2.412 | 3.279 | 9.5 | 16.7 | 1 22 | 10 36.74 | +24 8.0 | 2.388 | 3.255 | 9.6 | 20.6 |
| 2 1 | 10 30.55 | +24 39.5 | 2.346 | 3.274 | 6.9 | 16.5 | 2 1 | 10 30.79 | +25 59.9 | 2.357 | 3.282 | 7.0 | 20.5 |
| 2 11 | 10 23.24 | +25 36.1 | 2.308 | 3.269 | 4.7 | 16.4 | 2 11 | 10 23.32 | +27 47.2 | 2.355 | 3.309 | 5.1 | 20.4 |
| 2 21 | 10 15.00 | +26 24.0 | 2.299 | 3.263 | 4.6 | 16.4 | 2 21 | 10 15.04 | +29 22.3 | 2.383 | 3.336 | 5.4 | 20.4 |
| 3 2 | 10 6.70 | +26 58.4 | 2.320 | 3.257 | 6.7 | 16.5 | 3 2 | 10 6.80 | +30 39.0 | 2.441 | 3.362 | 7.4 | 20.6 |
| 3 12 | 9 59.19 | +27 16.1 | 2.367 | 3.251 | 9.4 | 16.7 | 3 12 | 9 59.48 | +31 34.1 | 2.527 | 3.387 | 9.7 | 20.8 |
| 3 22 | 9 53.20 | +27 16.6 | 2.439 | 3.245 | 11.9 | 16.8 | 3 22 | 9 53.71 | +32 7.5 | 2.637 | 3.413 | 12.0 | 21.0 |
| 4 1 | 9 49.22 | +27 1.0 | 2.531 | 3.239 | 14.1 | 17.0 | 4 1 | 9 49.96 | +32 21.0 | 2.766 | 3.437 | 13.8 | 21.2 |
| 135090 | 2001 <i>QU</i> ₆₁ | | 2 21.2 109°23 | 0°4/21.5 | 18 | | 330079 | 2005 <i>WH</i> ₃ | | 2 21.2 63°71 | 7°0/27.9 | 18 | |
| 1 22 | 10 37.70 | + 8 47.2 | 2.444 | 3.287 | 10.3 | 19.6 | 1 22 | 10 35.46 | -10 50.0 | 1.735 | 2.515 | 16.5 | 20.3 |
| 2 1 | 10 31.32 | + 8 56.9 | 2.382 | 3.302 | 7.2 | 19.4 | 2 1 | 10 30.24 | -10 48.1 | 1.675 | 2.534 | 13.4 | 20.1 |
| 2 11 | 10 23.54 | + 9 13.5 | 2.346 | 3.316 | 3.8 | 19.2 | 2 11 | 10 23.15 | -10 18.0 | 1.636 | 2.553 | 10.2 | 20.0 |
| 2 21 | 10 15.01 | + 9 33.6 | 2.341 | 3.329 | 0.4 | 18.9 | 2 21 | 10 15.03 | - 9 21.4 | 1.622 | 2.572 | 7.7 | 19.8 |
| 3 2 | 10 6.52 | + 9 53.9 | 2.366 | 3.343 | 3.4 | 19.2 | 3 2 | 10 6.94 | - 8 3.1 | 1.634 | 2.591 | 7.1 | 19.9 |
| 3 12 | 9 58.86 | +10 10.9 | 2.421 | 3.356 | 6.8 | 19.5 | 3 12 | 9 59.91 | - 6 31.5 | 1.673 | 2.610 | 9.0 | 20.0 |
| 3 22 | 9 52.63 | +10 22.2 | 2.503 | 3.369 | 9.7 | 19.7 | 3 22 | 9 54.76 | - 4 56.0 | 1.737 | 2.630 | 11.9 | 20.2 |
| 4 1 | 9 48.27 | +10 26.3 | 2.608 | 3.382 | 12.2 | 19.9 | 4 1 | 9 51.96 | - 3 25.1 | 1.824 | 2.649 | 14.8 | 20.4 |
| 110007 | 2001 <i>SU</i> ₆₅ | | 2 21.2 51°57 | 0°0/21.2 | 18 | | 503452 | 2016 <i>EC</i> ₁₁₆ | | 2 21.2 330°96 | 3°1/19.1 | 17 | |
| 1 22 | 10 35.79 | + 7 38.3 | 1.592 | 2.453 | 13.8 | 18.9 | 1 22 | 10 37.36 | +16 2.8 | 1.415 | 2.295 | 14.0 | 21.1 |
| 2 1 | 10 30.60 | + 8 29.9 | 1.534 | 2.463 | 9.7 | 18.6 | 2 1 | 10 32.14 | +16 46.6 | 1.345 | 2.284 | 9.8 | 20.8 |
| 2 11 | 10 23.38 | + 9 35.1 | 1.501 | 2.473 | 5.0 | 18.4 | 2 11 | 10 24.38 | +17 36.1 | 1.299 | 2.273 | 5.3 | 20.5 |
| 2 21 | 10 15.02 | +10 47.0 | 1.494 | 2.483 | 0.1 | 18.0 | 2 21 | 10 15.07 | +18 23.0 | 1.279 | 2.263 | 3.3 | 20.3 |
| 3 2 | 10 6.65 | +11 57.6 | 1.516 | 2.493 | 4.8 | 18.4 | 3 2 | 10 5.54 | +18 59.1 | 1.285 | 2.253 | 7.1 | 20.5 |
| 3 12 | 9 59.43 | +12 59.3 | 1.564 | 2.504 | 9.4 | 18.7 | 3 12 | 9 57.27 | +19 18.4 | 1.316 | 2.244 | 11.8 | 20.8 |
| 3 22 | 9 54.23 | +13 47.0 | 1.637 | 2.515 | 13.3 | 18.9 | 3 22 | 9 51.36 | +19 18.5 | 1.369 | 2.236 | 16.1 | 21.0 |
| 4 1 | 9 51.56 | +14 18.3 | 1.730 | 2.526 | 16.6 | 19.2 | 4 1 | 9 48.49 | +18 59.6 | 1.440 | 2.229 | 19.7 | 21.2 |
| 60576 | 2000 <i>EJ</i> ₁₂₂ | | 2 21.2 185°52 | 0°8/20.3 | 18 | | 188100 | 2001 <i>YC</i> ₆₁ | | 2 21.2 142°03 | 5°5/15.7 | 18 | |
| 1 22 | 10 35.33 | +11 11.2 | 2.392 | 3.246 | 10.1 | 19.7 | 1 22 | 10 38.31 | +24 14.9 | 1.988 | 2.859 | 11.0 | 20.2 |
| 2 1 | 10 29.84 | +11 54.5 | 2.319 | 3.246 | 7.0 | 19.5 | 2 1 | 10 32.21 | +25 40.8 | 1.937 | 2.865 | 8.0 | 20.0 |
| 2 11 | 10 22.86 | +12 44.4 | 2.273 | 3.246 | 3.5 | 19.3 | 2 11 | 10 24.18 | +27 3.0 | 1.913 | 2.871 | 5.8 | 19.9 |
| 2 21 | 10 15.02 | +13 36.5 | 2.257 | 3.245 | 0.8 | 19.1 | 2 21 | 10 15.08 | +28 13.2 | 1.917 | 2.877 | 5.9 | 19.9 |
| 3 2 | 10 7.10 | +14 25.6 | 2.271 | 3.244 | 4.0 | 19.3 | 3 2 | 10 5.95 | +29 4.7 | 1.950 | 2.882 | 8.2 | 20.0 |
| 3 12 | 9 59.92 | +15 7.3 | 2.314 | 3.243 | 7.4 | 19.5 | 3 12 | 9 57.88 | +29 33.9 | 2.009 | 2.887 | 11.1 | 20.2 |
| 3 22 | 9 54.12 | +15 38.7 | 2.384 | 3.241 | 10.5 | 19.7 | 3 22 | 9 51.70 | +29 40.8 | 2.090 | 2.891 | 13.9 | 20.4 |
| 4 1 | 9 50.20 | +15 58.1 | 2.476 | 3.239 | 13.1 | 19.9 | 4 1 | 9 47.94 | +29 27.5 | 2.191 | 2.895 | 16.2 | 20.6 |
| 86437 | 2000 <i>CJ</i> ₁₃ | | 2 21.2 264°50 | 1°4/22.1 | 18 | | 296923 | 2010 <i>CV</i> ₁₃₃ | | 2 21.2 207°66 | 0°5/21.9 | 17 | |
| 1 22 | 10 39.19 | + 5 29.1 | 1.441 | 2.296 | 15.4 | 19.8 | 1 22 | 10 32.83 | + 5 30.1 | 2.739 | 3.576 | 9.5 | 21.7 |
| 2 1 | 10 33.40 | + 5 51.8 | 1.361 | 2.285 | 11.2 | 19.6 | 2 1 | 10 28.00 | + 6 25.3 | 2.656 | 3.572 | 6.7 | 21.5 |
| 2 11 | 10 25.06 | + 6 31.8 | 1.305 | 2.274 | 6.2 | 19.2 | 2 11 | 10 21.89 | + 7 31.1 | 2.600 | 3.567 | 3.7 | 21.3 |
| 2 21 | 10 15.06 | + 7 24.2 | 1.275 | 2.263 | 1.5 | 18.9 | 2 21 | 10 15.04 | + 8 43.4 | 2.574 | 3.562 | 0.6 | 21.0 |
| 3 2 | 10 4.72 | + 8 21.9 | 1.272 | 2.251 | 5.2 | 19.1 | 3 2 | 10 8.07 | + 9 57.3 | 2.580 | 3.557 | 3.1 | 21.2 |
| 3 12 | 9 55.52 | + 9 16.4 | 1.295 | 2.239 | 10.4 | 19.4 | 3 12 | 10 1.66 | +11 7.8 | 2.616 | 3.551 | 6.3 | 21.4 |
| 3 22 | 9 48.61 | +10 1.1 | 1.341 | 2.228 | 15.1 | 19.6 | 3 22 | 9 56.39 | +12 10.7 | 2.680 | 3.546 | 9.2 | 21.6 |
| 4 1 | 9 44.76 | +10 31.8 | 1.407 | 2.216 | 19.1 | 19.8 | 4 1 | 9 52.70 | +13 3.1 | 2.767 | 3.539 | 11.6 | 21.8 |
| 373357 | 2012 <i>KG</i> ₂₆ | | 2 21.2 184°96 | 2°5/18.8 | 17 | | 502012 | 2015 <i>AE</i> ₆₂ | | 2 21.2 234°59 | 2°1/23.0 | 17 | |
| 1 22 | 10 37.27 | +15 57.7 | 2.115 | 2.979 | 10.7 | 21.4 | 1 22 | 10 36.29 | + 2 48.6 | 2.040 | 2.874 | 12.4 | 22.0 |
| 2 1 | 10 31.35 | +16 54.5 | 2.048 | 2.979 | 7.4 | 21.2 | 2 1 | 10 30.75 | + 3 5.8 | 1.958 | 2.868 | 9.1 | 21.8 |
| 2 11 | 10 23.70 | +17 55.0 | 2.007 | 2.979 | 4.0 | 20.9 | 2 11 | 10 23.45 | + 3 37.3 | 1.901 | 2.862 | 5.5 | 21.5 |
| 2 21 | 10 15.03 | +18 53.0 | 1.996 | 2.979 | 2.6 | 20.9 | 2 21 | 10 15.07 | + 4 20.1 | 1.871 | 2.856 | 2.3 | 21.3 |
| 3 2 | 10 6.29 | +19 42.5 | 2.015 | 2.978 | 5.5 | 21.0 | 3 2 | 10 6.53 | + 5 9.3 | 1.871 | 2.849 | 4.0 | 21.4 |
| 3 12 | 9 58.43 | +20 18.8 | 2.062 | 2.976 | 9.0 | 21.2 | 3 12 | 9 58.78 | + 5 59.4 | 1.900 | 2.843 | 7.7 | 21.6 |
| 3 22 | 9 52.23 | +20 39.9 | 2.133 | 2.975 | 12.2 | 21.4 | 3 22 | 9 52.63 | + 6 45.0 | 1.954 | 2.836 | 11.3 | 21.8 |
| 4 1 | 9 48.20 | +20 45.3 | 2.226 | 2.973 | 14.8 | 21.6 | 4 1 | 9 48.64 | + 7 22.3 | 2.032 | 2.829 | 14.4 | 22.0 |
| 427850 | 2005 <i>MQ</i> ₃₀ | | 2 21.2 238°99 | 5°4/26.5 | 18 | | 452569 | 2005 <i>BK</i> ₃₆ | | 2 21.2 98°83 | 2°3/19.3 | 18 | |
| 1 22 | 10 35.85 | - 8 24.1</ | | | | | | | | | | | |

EPHEMERIDES

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2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|--------------|---------|------|---------------|------------------------|-----------------|---------------|--------------|---------|------|
| 4323 | Hortulus | | 2 21.2 137°78 | 2°6/23.2 18 | | R | 45316 | 2000 AR ₆₁ | | 2 21.2 27°29 | 2°5/18.8 18 | | |
| 1 22 | 10 41.07 | + 1 50.5 | 1.749 | 2.579 | 14.3 | 17.5 | 1 22 | 10 35.23 | +15 4.2 | 1.918 | 2.788 | 11.4 | 18.8 |
| 2 1 | 10 34.15 | + 2 9.2 | 1.685 | 2.592 | 10.5 | 17.3 | 2 1 | 10 30.07 | +16 7.7 | 1.855 | 2.790 | 7.9 | 18.6 |
| 2 11 | 10 25.20 | + 2 44.8 | 1.645 | 2.605 | 6.3 | 17.0 | 2 11 | 10 23.10 | +17 16.5 | 1.819 | 2.792 | 4.2 | 18.4 |
| 2 21 | 10 15.11 | + 3 33.5 | 1.633 | 2.617 | 2.8 | 16.8 | 2 21 | 10 15.09 | +18 23.4 | 1.811 | 2.794 | 2.6 | 18.3 |
| 3 2 | 10 5.01 | + 4 29.3 | 1.651 | 2.628 | 4.5 | 17.0 | 3 2 | 10 7.02 | +19 21.6 | 1.831 | 2.796 | 5.7 | 18.5 |
| 3 12 | 9 56.05 | + 5 25.3 | 1.697 | 2.639 | 8.6 | 17.2 | 3 12 | 9 59.90 | +20 5.8 | 1.879 | 2.799 | 9.4 | 18.7 |
| 3 22 | 9 49.11 | + 6 15.7 | 1.768 | 2.648 | 12.4 | 17.5 | 3 22 | 9 54.51 | +20 33.2 | 1.951 | 2.801 | 12.8 | 18.9 |
| 4 1 | 9 44.73 | + 6 56.1 | 1.861 | 2.657 | 15.6 | 17.7 | 4 1 | 9 51.38 | +20 43.5 | 2.044 | 2.804 | 15.6 | 19.1 |
| 369055 | 2008 CG ₂₀₄ | | 2 21.2 335°22 | 0°1/21.3 18 | | | 207587 | 2006 QR ₃₈ | | 2 21.2 208°39 | 0°3/21.4 17 | | |
| 1 22 | 10 37.37 | + 8 54.0 | 1.501 | 2.366 | 14.3 | 21.0 | 1 22 | 10 36.36 | + 8 52.2 | 2.485 | 3.330 | 10.1 | 20.8 |
| 2 1 | 10 31.97 | + 9 17.1 | 1.430 | 2.361 | 10.1 | 20.7 | 2 1 | 10 30.53 | + 9 7.9 | 2.406 | 3.327 | 7.1 | 20.6 |
| 2 11 | 10 24.24 | + 9 52.5 | 1.383 | 2.355 | 5.3 | 20.4 | 2 11 | 10 23.24 | + 9 30.8 | 2.354 | 3.324 | 3.7 | 20.4 |
| 2 21 | 10 15.10 | +10 34.7 | 1.362 | 2.351 | 0.2 | 20.0 | 2 21 | 10 15.10 | + 9 57.6 | 2.331 | 3.320 | 0.3 | 20.1 |
| 3 2 | 10 5.79 | +11 16.9 | 1.368 | 2.346 | 5.1 | 20.4 | 3 2 | 10 6.88 | +10 24.6 | 2.339 | 3.316 | 3.4 | 20.4 |
| 3 12 | 9 57.63 | +11 52.3 | 1.400 | 2.342 | 10.0 | 20.6 | 3 12 | 9 59.35 | +10 48.1 | 2.377 | 3.312 | 6.9 | 20.6 |
| 3 22 | 9 51.66 | +12 16.3 | 1.456 | 2.339 | 14.4 | 20.9 | 3 22 | 9 53.18 | +11 5.4 | 2.441 | 3.308 | 9.9 | 20.8 |
| 4 1 | 9 48.50 | +12 26.4 | 1.531 | 2.336 | 18.0 | 21.1 | 4 1 | 9 48.84 | +11 14.6 | 2.529 | 3.303 | 12.5 | 21.0 |
| 62157 | 2000 SH ₂₄ | | 2 21.2 253°52 | 12°7/ 3.4 18 | | | 462288 | 2008 FU ₅₃ | | 2 21.2 305°71 | 1°7/19.9 17 | | |
| 1 22 | 10 35.56 | -21 3.6 | 1.179 | 1.932 | 24.2 | 19.1 | 1 22 | 10 37.21 | +12 46.0 | 1.597 | 2.468 | 13.3 | 21.7 |
| 2 1 | 10 31.33 | -21 0.3 | 1.103 | 1.929 | 21.2 | 18.9 | 2 1 | 10 31.83 | +13 30.3 | 1.523 | 2.457 | 9.2 | 21.4 |
| 2 11 | 10 24.18 | -20 4.4 | 1.041 | 1.926 | 17.7 | 18.6 | 2 11 | 10 24.19 | +14 23.3 | 1.473 | 2.447 | 4.8 | 21.1 |
| 2 21 | 10 15.10 | -18 10.9 | 0.998 | 1.923 | 14.5 | 18.4 | 2 21 | 10 15.14 | +15 18.3 | 1.450 | 2.437 | 1.8 | 20.9 |
| 3 2 | 10 5.63 | -15 23.2 | 0.976 | 1.919 | 12.8 | 18.3 | 3 2 | 10 5.87 | +16 7.6 | 1.454 | 2.427 | 5.8 | 21.1 |
| 3 12 | 9 57.52 | -11 56.5 | 0.979 | 1.916 | 13.8 | 18.4 | 3 12 | 9 57.66 | +16 44.5 | 1.485 | 2.417 | 10.4 | 21.3 |
| 3 22 | 9 52.12 | - 8 13.1 | 1.004 | 1.913 | 17.0 | 18.5 | 3 22 | 9 51.54 | +17 5.6 | 1.539 | 2.408 | 14.6 | 21.6 |
| 4 1 | 9 50.26 | - 4 35.9 | 1.051 | 1.909 | 20.8 | 18.7 | 4 1 | 9 48.16 | +17 9.6 | 1.613 | 2.398 | 18.1 | 21.8 |
| 411992 | 2012 JG ₄₀ | | 2 21.2 346°34 | 7°1/14.5 18 | | | 324616 | 2006 YO ₃₇ | | 2 21.2 20°39 | 5°1/17.2 18 | | |
| 1 22 | 10 36.14 | +25 11.3 | 1.564 | 2.447 | 12.7 | 20.2 | 1 22 | 10 36.23 | +19 40.3 | 1.353 | 2.240 | 14.0 | 20.3 |
| 2 1 | 10 31.18 | +27 3.3 | 1.511 | 2.443 | 9.5 | 20.0 | 2 1 | 10 31.28 | +21 0.9 | 1.306 | 2.246 | 9.9 | 20.1 |
| 2 11 | 10 23.85 | +28 51.6 | 1.483 | 2.440 | 7.3 | 19.8 | 2 11 | 10 23.89 | +22 22.5 | 1.283 | 2.253 | 6.1 | 19.9 |
| 2 21 | 10 15.09 | +30 24.5 | 1.482 | 2.437 | 7.8 | 19.8 | 2 21 | 10 15.13 | +23 34.2 | 1.285 | 2.260 | 5.5 | 19.9 |
| 3 2 | 10 6.20 | +31 32.3 | 1.507 | 2.435 | 10.5 | 20.0 | 3 2 | 10 6.41 | +24 26.5 | 1.313 | 2.268 | 8.8 | 20.1 |
| 3 12 | 9 58.56 | +32 10.0 | 1.556 | 2.433 | 13.8 | 20.2 | 3 12 | 9 59.13 | +24 54.2 | 1.365 | 2.277 | 12.8 | 20.3 |
| 3 22 | 9 53.18 | +32 17.9 | 1.626 | 2.431 | 17.0 | 20.4 | 3 22 | 9 54.28 | +24 56.8 | 1.438 | 2.287 | 16.5 | 20.6 |
| 4 1 | 9 50.70 | +31 59.1 | 1.712 | 2.430 | 19.6 | 20.6 | 4 1 | 9 52.41 | +24 36.3 | 1.529 | 2.298 | 19.6 | 20.8 |
| 498154 | 2007 TY ₁₁₃ | | 2 21.2 88°13 | 4°1/25.4 17 | | | 332300 | 2006 UO ₂₁₇ | | 2 21.2 14°06 | 23°7/30.4 18 | | |
| 1 22 | 10 34.47 | - 4 8.1 | 2.251 | 3.052 | 12.5 | 21.2 | 1 22 | 10 31.14 | -40 31.6 | 1.186 | 1.799 | 30.6 | 18.3 |
| 2 1 | 10 29.27 | - 4 0.8 | 2.180 | 3.063 | 9.7 | 21.1 | 2 1 | 10 28.58 | -43 19.8 | 1.150 | 1.809 | 29.4 | 18.2 |
| 2 11 | 10 22.59 | - 3 35.9 | 2.133 | 3.073 | 6.7 | 20.9 | 2 11 | 10 22.88 | -45 12.9 | 1.122 | 1.823 | 28.1 | 18.1 |
| 2 21 | 10 15.07 | - 2 55.5 | 2.114 | 3.083 | 4.4 | 20.8 | 2 21 | 10 15.11 | -46 2.2 | 1.103 | 1.839 | 26.8 | 18.0 |
| 3 2 | 10 7.51 | - 2 3.3 | 2.124 | 3.093 | 4.6 | 20.8 | 3 2 | 10 7.01 | -45 43.2 | 1.092 | 1.858 | 25.5 | 18.0 |
| 3 12 | 10 0.73 | - 1 4.8 | 2.162 | 3.104 | 7.0 | 21.0 | 3 12 | 10 0.56 | -44 19.5 | 1.093 | 1.879 | 24.5 | 18.0 |
| 3 22 | 9 55.37 | - 0 5.6 | 2.227 | 3.114 | 9.9 | 21.1 | 3 22 | 9 57.22 | -42 1.7 | 1.106 | 1.902 | 23.8 | 18.0 |
| 4 1 | 9 51.91 | + 0 49.4 | 2.316 | 3.124 | 12.6 | 21.3 | 4 1 | 9 57.78 | -39 5.0 | 1.132 | 1.927 | 23.7 | 18.1 |
| 63671 | 2001 QK ₁₃₂ | | 2 21.2 154°80 | 2°5/23.9 18 | | | 340681 | 2006 RN ₇₈ | | 2 21.2 166°73 | 3°7/17.5 17 | | |
| 1 22 | 10 33.67 | - 0 15.6 | 2.485 | 3.301 | 11.0 | 20.1 | 1 22 | 10 38.01 | +22 20.3 | 2.420 | 3.284 | 9.6 | 20.7 |
| 2 1 | 10 28.64 | + 0 13.7 | 2.407 | 3.305 | 8.2 | 19.9 | 2 1 | 10 31.72 | +22 58.4 | 2.357 | 3.285 | 6.8 | 20.6 |
| 2 11 | 10 22.25 | + 0 57.4 | 2.355 | 3.309 | 5.2 | 19.7 | 2 11 | 10 23.86 | +23 33.9 | 2.322 | 3.286 | 4.4 | 20.4 |
| 2 21 | 10 15.07 | + 1 52.4 | 2.332 | 3.312 | 2.7 | 19.5 | 2 21 | 10 15.14 | +24 1.9 | 2.317 | 3.287 | 3.9 | 20.4 |
| 3 2 | 10 7.82 | + 2 54.6 | 2.339 | 3.316 | 3.5 | 19.6 | 3 2 | 10 6.42 | +24 18.0 | 2.341 | 3.288 | 6.0 | 20.5 |
| 3 12 | 10 1.23 | + 3 58.7 | 2.376 | 3.319 | 6.4 | 19.8 | 3 12 | 9 58.58 | +24 19.9 | 2.393 | 3.289 | 8.8 | 20.7 |
| 3 22 | 9 55.92 | + 4 59.7 | 2.440 | 3.321 | 9.4 | 20.0 | 3 22 | 9 52.28 | +24 7.4 | 2.469 | 3.289 | 11.4 | 20.9 |
| 4 1 | 9 52.33 | + 5 53.7 | 2.528 | 3.324 | 12.0 | 20.1 | 4 1 | 9 47.99 | +23 41.4 | 2.568 | 3.290 | 13.6 | 21.0 |
| 106121 | 2000 TP ₃₃ | | 2 21.2 80°50 | 18°7/ 3.4 18 | | R | 13270 | 1998 QX ₃₅ | | 2 21.2 45°87 | 0°7/20.6 18 | | |
| 1 22 | 10 45.75 | -23 49.0 | 1.148 | 1.872 | 26.3 | 18.0 | 1 22 | 10 36.67 | +11 1.9 | 1.907 | 2.767 | 11.9 | 18.4 |
| 2 1 | 10 38.71 | -26 23.1 | 1.095 | 1.882 | 23.8 | 17.8 | 2 1 | 10 31.05 | +11 34.5 | 1.840 | 2.770 | 8.3 | 18.2 |
| 2 11 | 10 28.13 | -28 13.2 | 1.057 | 1.892 | 21.4 | 17.7 | 2 11 | 10 23.62 | +12 15.0 | 1.800 | 2.773 | 4.2 | 18.0 |
| 2 21 | 10 15.19 | -29 8.5 | 1.036 | 1.903 | 19.5 | 17.6 | 2 21 | 10 15.14 | +12 58.0 | 1.787 | 2.776 | 0.7 | 17.7 |
| 3 2 | 10 1.80 | -29 4.4 | 1.034 | 1.913 | 18.7 | 17.5 | 3 2 | 10 6.61 | +13 38.1 | 1.804 | 2.779 | 4.6 | 18.0 |
| 3 12 | 9 50.12 | -28 6.9 | 1.049 | 1.923 | 19.2 | 17.6 | 3 12 | 9 59.05 | +14 10.1 | 1.848 | 2.782 | 8.6 | 18.2 |
| 3 22 | 9 41.75 | -26 30.2 | 1.083 | 1.933 | 20.7 | 17.7 | 3 22 | 9 53.24 | +14 30.9 | 1.917 | 2.785 | 12.2 | 18.5 |
| 4 1 | 9 37.60 | -24 31.9 | 1.132 | 1.943 | 22.7 | 17.9 | 4 1 | 9 49.72 | +14 39.0 | 2.008 | 2.788 | 15.2 | 18.7 |
| 365162 | 2009 DN ₁₂₀ | | 2 21.2 254°04 | 0°3/21.4 16 | | | 230387 | 2002 GH ₁₂₁ | | 2 21.2 195°48 | 2°5/18.8 17 | | |
| 1 22 | 10 38.19 | + 7 24.0 | 1.818 | 2.669 | 12.9 | 21.5 | 1 22 | 10 37.04 | +16 15.9 | 2.108 | 2.973 | 10.7 | 20.6 |
| 2 1 | 10 32.39 | + 8 3.6 | 1.729 | 2.652 | 9.2 | 21.2 | 2 1 | 10 31.24 | +17 9.0 | 2.040 | 2.972 | 7.4 | 20.4 |
| 2 11 | 10 24.45 | + 8 56.6 | 1.665 | 2.635 | 4.9 | 20.9 | 2 11 | 10 23.69 | +18 5.5 | 1.999 | 2.971 | 4.0 | 20.1 |
| 2 21 | 10 15.12 | + 9 58.1 | 1.628 | 2.617 | 0.4 | 20.5 | 2 21 | 10 15.14 | +18 59.3 | 1.987 | 2.969 | 2.7 | 20.0 |
| 3 2 | 10 5.46 | +11 1.3 | 1.621 | 2.598 | 4.6 | 20.8 | 3 2 | 10 6.51 | +19 44.5 | 2.005 | 2.968 | 5.5 | 20.2 |
| 3 12 | 9 56.64 | +11 59.1 | 1.642 | 2.579 | 9.2 | 21.0 | 3 12 | 9 58.75 | +20 16.7 | 2.050 | 2.966 | 9.0 | 20.4 |
| 3 22 | 9 49.64 | +12 46.2 | 1.688 | 2.560 | 13.3 | 21.3 | 3 22 | 9 52.65 | +20 33.8 | 2.121 | 2.963 | 12.2 | 20.6 |
| 4 1 | 9 45.16 | +13 19.2 | 1.755 | 2.540 | 16.8 | 21.4 | 4 1 | 9 48.72 | +20 35.6 | 2.212 | 2.961 | 14.8 | 20.8 |
| 190289 | 1994 PR ₁₅ | | 2 21.2 152°49 | 0°7/21.9 16 | | R | 42558 | 1996 VV ₁₅ | | 2 21.2 292°23 | 2°6/19.3 18 | | |
| 1 22 | 10 37.54 | + 6 50.1 | 2.539 | 3.375 | 10.2 | 21.3 | 1 22 | 10 38.63 | +14 28.8 | 1.472 | 2.346 | 13.9 | 19.3 |
| | | | | | | | | | | | | | |

EPHEMERIDES

2 21.2

2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|---------|-----------|------|---------------|-------------------------------|-----------------|----------|---------|-----------|------|
| 468236 | 2015 <i>BZ</i> ₂₂₃ | | 2 21.2 | 27°37' | 1.8°/22.5 | 18 | 143269 | 2003 <i>AK</i> ₁₂ | | 2 21.2 | 51°88' | 2.9°/23.6 | 18 |
| 1 22 | 10 38.22 | + 5 14.6 | 1.787 | 2.632 | 13.3 | 21.0 | 1 22 | 10 35.67 | + 0 22.1 | 1.481 | 2.324 | 15.8 | 19.0 |
| 2 1 | 10 32.22 | + 5 11.6 | 1.717 | 2.635 | 9.7 | 20.8 | 2 1 | 10 30.62 | + 1 0.1 | 1.427 | 2.340 | 11.6 | 18.8 |
| 2 11 | 10 24.26 | + 5 21.0 | 1.672 | 2.637 | 5.6 | 20.6 | 2 11 | 10 23.48 | + 1 59.9 | 1.395 | 2.356 | 7.1 | 18.6 |
| 2 21 | 10 15.15 | + 5 39.8 | 1.654 | 2.640 | 2.0 | 20.3 | 2 21 | 10 15.19 | + 3 16.2 | 1.389 | 2.373 | 3.2 | 18.4 |
| 3 2 | 10 5.98 | + 6 3.6 | 1.664 | 2.643 | 4.3 | 20.5 | 3 2 | 10 6.94 | + 4 40.5 | 1.411 | 2.390 | 4.7 | 18.5 |
| 3 12 | 9 57.83 | + 6 27.5 | 1.703 | 2.646 | 8.4 | 20.8 | 3 12 | 9 59.93 | + 6 3.4 | 1.459 | 2.408 | 9.0 | 18.8 |
| 3 22 | 9 51.56 | + 6 47.1 | 1.766 | 2.649 | 12.2 | 21.0 | 3 22 | 9 55.01 | + 7 17.2 | 1.531 | 2.425 | 13.1 | 19.1 |
| 4 1 | 9 47.72 | + 6 59.3 | 1.851 | 2.653 | 15.5 | 21.2 | 4 1 | 9 52.70 | + 8 16.4 | 1.625 | 2.443 | 16.5 | 19.4 |
| 362024 | 2008 <i>YJ</i> ₅₂ | | 2 21.2 | 327°07' | 4.3°/18.2 | 18 | 492631 | 2014 <i>OU</i> ₂₉₇ | | 2 21.2 | 202°36' | 0°1'/21.2 | 17 |
| 1 22 | 10 35.93 | +16 34.2 | 1.206 | 2.095 | 15.2 | 20.3 | 1 22 | 10 39.77 | + 8 55.6 | 2.003 | 2.851 | 12.0 | 22.6 |
| 2 1 | 10 31.55 | +17 48.5 | 1.137 | 2.080 | 10.7 | 19.9 | 2 1 | 10 33.25 | + 9 29.1 | 1.924 | 2.847 | 8.5 | 22.4 |
| 2 11 | 10 24.29 | +19 11.4 | 1.091 | 2.065 | 6.0 | 19.6 | 2 11 | 10 24.81 | +10 12.5 | 1.871 | 2.842 | 4.4 | 22.1 |
| 2 21 | 10 15.16 | +20 31.4 | 1.070 | 2.051 | 4.6 | 19.5 | 2 21 | 10 15.22 | +11 0.8 | 1.847 | 2.836 | 0.1 | 21.7 |
| 3 2 | 10 5.70 | +21 36.7 | 1.073 | 2.038 | 8.8 | 19.7 | 3 2 | 10 5.47 | +11 48.3 | 1.854 | 2.830 | 4.3 | 22.1 |
| 3 12 | 9 57.59 | +22 18.4 | 1.099 | 2.026 | 13.8 | 19.9 | 3 12 | 9 56.60 | +12 29.7 | 1.889 | 2.823 | 8.4 | 22.3 |
| 3 22 | 9 52.15 | +22 33.1 | 1.146 | 2.014 | 18.5 | 20.2 | 3 22 | 9 49.48 | +13 1.1 | 1.950 | 2.815 | 12.1 | 22.5 |
| 4 1 | 9 50.14 | +22 21.5 | 1.209 | 2.004 | 22.4 | 20.4 | 4 1 | 9 44.68 | +13 20.2 | 2.033 | 2.807 | 15.2 | 22.7 |
| 432191 | 2009 <i>DL</i> ₃₅ | | 2 21.2 | 15°71' | 4.7°/25.9 | 18 | 439988 | 2001 <i>XF</i> ₁₆₉ | | 2 21.2 | 21°73' | 5.2°/18.0 | 18 |
| 1 22 | 10 28.84 | - 6 5.9 | 1.404 | 2.233 | 17.2 | 19.6 | 1 22 | 10 33.88 | +16 52.1 | 0.840 | 1.748 | 18.1 | 19.2 |
| 2 1 | 10 25.96 | - 5 5.6 | 1.346 | 2.244 | 13.4 | 19.4 | 2 1 | 10 30.30 | +18 16.2 | 0.811 | 1.761 | 12.5 | 18.9 |
| 2 11 | 10 21.09 | - 3 33.4 | 1.309 | 2.257 | 9.1 | 19.2 | 2 11 | 10 23.57 | +19 44.8 | 0.801 | 1.777 | 7.0 | 18.7 |
| 2 21 | 10 15.10 | - 1 35.1 | 1.297 | 2.272 | 5.4 | 19.0 | 2 21 | 10 15.20 | +21 2.8 | 0.813 | 1.795 | 5.6 | 18.7 |
| 3 2 | 10 9.11 | + 0 38.9 | 1.311 | 2.289 | 5.4 | 19.0 | 3 2 | 10 7.11 | +21 57.3 | 0.847 | 1.815 | 9.9 | 19.0 |
| 3 12 | 10 4.23 | + 2 55.5 | 1.352 | 2.306 | 9.0 | 19.3 | 3 12 | 10 1.11 | +22 21.5 | 0.901 | 1.836 | 15.0 | 19.3 |
| 3 22 | 10 1.31 | + 5 2.4 | 1.417 | 2.325 | 13.0 | 19.6 | 3 22 | 9 58.25 | +22 15.8 | 0.973 | 1.859 | 19.5 | 19.7 |
| 4 1 | 10 0.83 | + 6 51.2 | 1.504 | 2.346 | 16.5 | 19.8 | 4 1 | 9 58.92 | +21 43.7 | 1.061 | 1.884 | 23.1 | 20.0 |
| 186598 | 2003 <i>BD</i> ₇₀ | | 2 21.2 | 315°18' | 2°8'/18.9 | 17 | 503182 | 2015 <i>GQ</i> ₄₄ | | 2 21.2 | 337°11' | 5.4°/16.0 | 17 |
| 1 22 | 10 37.10 | +15 21.7 | 1.612 | 2.486 | 12.9 | 20.2 | 1 22 | 10 37.17 | +25 33.6 | 2.095 | 2.966 | 10.6 | 20.7 |
| 2 1 | 10 31.74 | +16 17.0 | 1.542 | 2.479 | 9.0 | 19.9 | 2 1 | 10 31.41 | +26 32.9 | 2.036 | 2.963 | 7.8 | 20.6 |
| 2 11 | 10 24.13 | +17 18.5 | 1.498 | 2.471 | 4.8 | 19.7 | 2 11 | 10 23.83 | +27 27.6 | 2.003 | 2.960 | 5.7 | 20.4 |
| 2 21 | 10 15.17 | +18 18.4 | 1.480 | 2.464 | 3.0 | 19.5 | 2 21 | 10 15.21 | +28 10.7 | 1.998 | 2.957 | 5.7 | 20.4 |
| 3 2 | 10 6.03 | +19 8.6 | 1.490 | 2.457 | 6.5 | 19.7 | 3 2 | 10 6.55 | +28 36.7 | 2.021 | 2.954 | 7.8 | 20.5 |
| 3 12 | 9 58.00 | +19 43.1 | 1.526 | 2.451 | 10.8 | 19.9 | 3 12 | 9 58.88 | +28 42.9 | 2.070 | 2.952 | 10.6 | 20.7 |
| 3 22 | 9 52.06 | +19 59.1 | 1.586 | 2.444 | 14.8 | 20.2 | 3 22 | 9 52.98 | +28 29.5 | 2.142 | 2.949 | 13.3 | 20.9 |
| 4 1 | 9 48.84 | +19 56.4 | 1.664 | 2.438 | 18.0 | 20.4 | 4 1 | 9 49.37 | +27 58.4 | 2.233 | 2.947 | 15.7 | 21.0 |
| 154845 | 2004 <i>RS</i> ₄₆ | | 2 21.2 | 205°65' | 0°5'/20.7 | 17 | 374487 | 2005 <i>YG</i> ₉₀ | | 2 21.2 | 97°07' | 2°2'/23.1 | 18 |
| 1 22 | 10 37.70 | +10 34.2 | 2.264 | 3.115 | 10.7 | 21.4 | 1 22 | 10 37.08 | + 3 4.5 | 1.920 | 2.757 | 12.9 | 21.0 |
| 2 1 | 10 31.62 | +11 6.5 | 2.185 | 3.110 | 7.5 | 21.2 | 2 1 | 10 31.34 | + 3 14.4 | 1.850 | 2.761 | 9.5 | 20.8 |
| 2 11 | 10 23.88 | +11 46.2 | 2.134 | 3.105 | 3.8 | 21.0 | 2 11 | 10 23.80 | + 3 38.4 | 1.804 | 2.766 | 5.7 | 20.5 |
| 2 21 | 10 15.17 | +12 28.6 | 2.112 | 3.100 | 0.5 | 20.7 | 2 21 | 10 15.21 | + 4 13.5 | 1.786 | 2.771 | 2.4 | 20.3 |
| 3 2 | 10 6.33 | +13 9.1 | 2.120 | 3.094 | 4.0 | 21.0 | 3 2 | 10 6.56 | + 4 54.8 | 1.797 | 2.775 | 4.1 | 20.5 |
| 3 12 | 9 58.27 | +13 43.1 | 2.157 | 3.088 | 7.7 | 21.2 | 3 12 | 9 58.84 | + 5 36.8 | 1.836 | 2.780 | 7.9 | 20.7 |
| 3 22 | 9 51.72 | +14 7.5 | 2.221 | 3.081 | 11.0 | 21.4 | 3 22 | 9 52.84 | + 6 14.6 | 1.901 | 2.784 | 11.5 | 20.9 |
| 4 1 | 9 47.21 | +14 20.7 | 2.307 | 3.074 | 13.8 | 21.5 | 4 1 | 9 49.10 | + 6 44.4 | 1.988 | 2.789 | 14.6 | 21.1 |
| 368758 | 2005 <i>VK</i> ₆ | | 2 21.2 | 204°48' | 5°4'/26.2 | 17 | 382748 | 2003 <i>CM</i> ₂₆ | | 2 21.2 | 16°68' | 4°4'/17.4 | 18 |
| 1 22 | 10 37.07 | - 7 23.5 | 2.265 | 3.045 | 13.1 | 21.3 | 1 22 | 10 36.60 | +21 36.3 | 1.841 | 2.716 | 11.5 | 20.6 |
| 2 1 | 10 31.22 | - 7 34.1 | 2.177 | 3.041 | 10.6 | 21.1 | 2 1 | 10 31.10 | +22 27.2 | 1.787 | 2.721 | 8.2 | 20.4 |
| 2 11 | 10 23.71 | - 7 25.4 | 2.112 | 3.036 | 7.9 | 20.9 | 2 11 | 10 23.68 | +23 16.3 | 1.759 | 2.725 | 5.2 | 20.2 |
| 2 21 | 10 15.17 | - 6 57.9 | 2.075 | 3.031 | 5.8 | 20.8 | 2 21 | 10 15.22 | +23 56.4 | 1.758 | 2.730 | 4.7 | 20.2 |
| 3 2 | 10 6.43 | - 6 14.2 | 2.066 | 3.025 | 5.7 | 20.7 | 3 2 | 10 6.78 | +24 21.8 | 1.785 | 2.736 | 7.2 | 20.4 |
| 3 12 | 9 58.42 | - 5 19.3 | 2.086 | 3.019 | 7.8 | 20.8 | 3 12 | 9 59.46 | +24 29.1 | 1.838 | 2.742 | 10.5 | 20.6 |
| 3 22 | 9 51.86 | - 4 19.1 | 2.132 | 3.013 | 10.6 | 21.0 | 3 22 | 9 54.04 | +24 18.2 | 1.914 | 2.749 | 13.6 | 20.8 |
| 4 1 | 9 47.31 | - 3 19.5 | 2.202 | 3.006 | 13.3 | 21.2 | 4 1 | 9 51.03 | +23 50.6 | 2.010 | 2.757 | 16.2 | 21.0 |
| 272469 | 2005 <i>UK</i> ₇₅ | | 2 21.2 | 102°36' | 0°1'/21.2 | 18 | 368967 | 2007 <i>BX</i> ₁₀₁ | | 2 21.2 | 2°76' | 8°0'/26.8 | 18 |
| 1 22 | 10 42.28 | +10 34.3 | 1.945 | 2.795 | 12.2 | 20.9 | 1 22 | 10 36.71 | - 8 34.7 | 1.546 | 2.344 | 17.4 | 19.8 |
| 2 1 | 10 34.79 | +10 37.9 | 1.888 | 2.812 | 8.5 | 20.7 | 2 1 | 10 31.52 | - 9 21.2 | 1.473 | 2.344 | 14.2 | 19.6 |
| 2 11 | 10 25.47 | +10 47.9 | 1.858 | 2.829 | 4.4 | 20.5 | 2 11 | 10 24.08 | - 9 41.6 | 1.421 | 2.343 | 11.0 | 19.4 |
| 2 21 | 10 15.20 | +11 0.5 | 1.856 | 2.845 | 0.1 | 20.1 | 2 21 | 10 15.23 | - 9 34.5 | 1.392 | 2.344 | 8.5 | 19.3 |
| 3 2 | 10 5.05 | +11 11.7 | 1.885 | 2.861 | 4.2 | 20.5 | 3 2 | 10 6.17 | - 9 2.1 | 1.388 | 2.345 | 8.3 | 19.2 |
| 3 12 | 9 56.05 | +11 17.8 | 1.943 | 2.877 | 8.2 | 20.8 | 3 12 | 9 58.17 | - 8 10.7 | 1.410 | 2.346 | 10.5 | 19.4 |
| 3 22 | 9 48.97 | +11 16.8 | 2.026 | 2.892 | 11.7 | 21.1 | 3 22 | 9 52.26 | - 7 8.9 | 1.455 | 2.349 | 13.7 | 19.6 |
| 4 1 | 9 44.28 | +11 7.6 | 2.132 | 2.907 | 14.5 | 21.3 | 4 1 | 9 49.08 | - 6 5.6 | 1.520 | 2.351 | 16.9 | 19.8 |
| 322258 | 2011 <i>DK</i> ₄₁ | | 2 21.2 | 267°24' | 0°7'/21.8 | 17 | 109336 | 2001 <i>QF</i> ₁₄₄ | | 2 21.2 | 280°97' | 0°2'/21.4 | 17 |
| 1 22 | 10 35.25 | + 6 11.2 | 1.956 | 2.805 | 12.2 | 20.9 | 1 22 | 10 34.96 | + 8 16.2 | 2.172 | 3.023 | 11.1 | 21.1 |
| 2 1 | 10 30.12 | + 6 50.9 | 1.877 | 2.799 | 8.7 | 20.7 | 2 1 | 10 29.81 | + 8 47.7 | 2.089 | 3.013 | 7.8 | 20.9 |
| 2 11 | 10 23.19 | + 7 43.7 | 1.823 | 2.792 | 4.7 | 20.4 | 2 11 | 10 23.02 | + 9 29.0 | 2.032 | 3.002 | 4.1 | 20.6 |
| 2 21 | 10 15.17 | + 8 45.0 | 1.797 | 2.785 | 0.8 | 20.1 | 2 21 | 10 15.21 | +10 15.9 | 2.003 | 2.992 | 0.2 | 20.3 |
| 3 2 | 10 6.97 | + 9 48.5 | 1.800 | 2.778 | 4.1 | 20.4 | 3 2 | 10 7.24 | +11 3.3 | 2.004 | 2.982 | 3.9 | 20.5 |
| 3 12 | 9 59.59 | +10 47.9 | 1.831 | 2.771 | 8.2 | 20.6 | 3 12 | 10 0.00 | +11 46.2 | 2.034 | 2.971 | 7.7 | 20.8 |
| 3 22 | 9 53.86 | +11 38.0 | 1.888 | 2.764 | 11.9 | 20.8 | 3 22 | 9 54.23 | +12 20.6 | 2.089 | 2.961 | 11.2 | 20.9 |
| 4 1 | 9 50.32 | +12 15.4 | 1.966 | 2.757 | 15.1 | 21.0 | 4 1 | 9 50.49 | +12 43.9 | 2.167 | 2.950 | 14.1 | 21.1 |
| 156587 | 2002 <i>GB</i> ₄₂ | | 2 21.2 | 217°51' | 3°5'/25.0 | 18 | 459548 | 2013 <i>GD</i> ₃₁ | | 2 21.2 | 283°05' | 0°5'/21.5 | 1 |

EPHEMERIDES

2 21.2

2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 145817 | 1998 SQ ₁₆₁ | | 2 21.2 109°03 | 2°3/19.4 | 18 | | 190276 | 4548 P-L | | 2 21.2 225°95 | 2°3/19.4 | 17 | |
| 1 22 | 10 40.38 | +15 5.7 | 1.806 | 2.671 | 12.3 | 20.0 | 1 22 | 10 43.86 | +15 26.0 | 1.972 | 2.827 | 11.8 | 21.5 |
| 2 1 | 10 33.65 | +15 53.1 | 1.754 | 2.686 | 8.5 | 19.7 | 2 1 | 10 36.30 | +16 11.3 | 1.885 | 2.813 | 8.3 | 21.3 |
| 2 11 | 10 24.97 | +16 44.4 | 1.728 | 2.701 | 4.4 | 19.5 | 2 11 | 10 26.52 | +17 1.3 | 1.825 | 2.797 | 4.4 | 21.0 |
| 2 21 | 10 15.25 | +17 32.9 | 1.731 | 2.716 | 2.4 | 19.4 | 2 21 | 10 15.31 | +17 49.5 | 1.795 | 2.779 | 2.5 | 20.9 |
| 3 2 | 10 5.63 | +18 12.3 | 1.763 | 2.730 | 5.7 | 19.7 | 3 2 | 10 3.81 | +18 29.5 | 1.796 | 2.761 | 5.8 | 21.0 |
| 3 12 | 9 57.20 | +18 38.1 | 1.822 | 2.744 | 9.5 | 19.9 | 3 12 | 9 53.22 | +18 56.2 | 1.825 | 2.742 | 9.8 | 21.2 |
| 3 22 | 9 50.77 | +18 48.8 | 1.906 | 2.757 | 13.0 | 20.2 | 3 22 | 9 44.55 | +19 7.3 | 1.880 | 2.721 | 13.6 | 21.4 |
| 4 1 | 9 46.84 | +18 44.4 | 2.010 | 2.770 | 15.8 | 20.4 | 4 1 | 9 38.48 | +19 2.9 | 1.956 | 2.699 | 16.7 | 21.6 |
| 136028 | 2002 VR ₁₀₁ | | 2 21.2 46°78 | 12°0/5.8 | 18 | | 434321 | 2004 GO ₇₇ | | 2 21.2 324°83 | 1°4/22.7 | 16 | |
| 1 22 | 10 40.78 | +46 15.5 | 2.002 | 2.827 | 12.9 | 18.7 | 1 22 | 10 31.16 | +0 59.8 | 1.849 | 2.689 | 13.2 | 20.3 |
| 2 1 | 10 34.47 | +48 23.1 | 1.989 | 2.838 | 12.1 | 18.7 | 2 1 | 10 27.45 | +2 32.4 | 1.756 | 2.671 | 9.7 | 20.0 |
| 2 11 | 10 25.59 | +50 6.4 | 1.999 | 2.849 | 12.1 | 18.7 | 2 11 | 10 21.92 | +4 28.9 | 1.689 | 2.654 | 5.6 | 19.7 |
| 2 21 | 10 15.26 | +51 16.7 | 2.034 | 2.860 | 12.9 | 18.8 | 2 21 | 10 15.21 | +6 43.1 | 1.650 | 2.637 | 1.6 | 19.4 |
| 3 2 | 10 4.97 | +51 49.8 | 2.090 | 2.871 | 14.3 | 18.9 | 3 2 | 10 8.22 | +9 5.2 | 1.642 | 2.621 | 4.1 | 19.5 |
| 3 12 | 9 56.21 | +51 46.6 | 2.164 | 2.883 | 15.8 | 19.0 | 3 12 | 10 1.95 | +11 24.0 | 1.662 | 2.606 | 8.6 | 19.8 |
| 3 22 | 9 50.02 | +51 12.1 | 2.255 | 2.894 | 17.2 | 19.2 | 3 22 | 9 57.27 | +13 29.8 | 1.710 | 2.591 | 12.7 | 20.0 |
| 4 1 | 9 46.94 | +50 12.4 | 2.359 | 2.906 | 18.4 | 19.3 | 4 1 | 9 54.81 | +15 15.9 | 1.779 | 2.577 | 16.2 | 20.2 |
| 258292 | 2001 UX ₈₂ | | 2 21.2 63°52 | 0°1/21.2 | 18 | | 436721 | 2011 UM ₁₂₄ | | 2 21.2 258°93 | 6°1/14.1 | 17 | |
| 1 22 | 10 38.16 | +8 15.1 | 1.595 | 2.454 | 13.9 | 20.6 | 1 22 | 10 38.92 | +31 24.9 | 2.620 | 3.475 | 9.2 | 21.0 |
| 2 1 | 10 32.19 | +8 54.8 | 1.548 | 2.475 | 9.7 | 20.4 | 2 1 | 10 32.50 | +32 23.1 | 2.550 | 3.459 | 7.3 | 20.9 |
| 2 11 | 10 24.23 | +9 46.1 | 1.525 | 2.497 | 5.0 | 20.1 | 2 11 | 10 24.39 | +33 13.7 | 2.508 | 3.443 | 6.1 | 20.8 |
| 2 21 | 10 15.24 | +10 42.6 | 1.530 | 2.518 | 0.1 | 19.8 | 2 21 | 10 15.27 | +33 50.4 | 2.494 | 3.426 | 6.5 | 20.8 |
| 3 2 | 10 6.39 | +11 37.1 | 1.562 | 2.540 | 4.7 | 20.2 | 3 2 | 10 6.04 | +34 8.8 | 2.508 | 3.409 | 8.1 | 20.8 |
| 3 12 | 9 58.80 | +12 23.1 | 1.622 | 2.561 | 9.1 | 20.5 | 3 12 | 9 57.62 | +34 7.1 | 2.549 | 3.392 | 10.3 | 20.9 |
| 3 22 | 9 53.30 | +12 56.8 | 1.706 | 2.583 | 12.9 | 20.8 | 3 22 | 9 50.76 | +33 45.7 | 2.613 | 3.375 | 12.4 | 21.1 |
| 4 1 | 9 50.34 | +13 16.2 | 1.811 | 2.605 | 16.1 | 21.0 | 4 1 | 9 45.98 | +33 7.1 | 2.696 | 3.357 | 14.3 | 21.2 |
| 15566 | Elizabethbaker | | 2 21.2 89°26 | 0°6/21.6 | 18 | | 491161 | 2011 ST ₂₂₁ | | 2 21.2 230°71 | 3°9/18.2 | 17 | |
| 1 22 | 10 40.05 | +6 30.4 | 1.398 | 2.256 | 15.6 | 19.0 | 1 22 | 10 41.61 | +18 14.0 | 1.693 | 2.562 | 12.7 | 22.0 |
| 2 1 | 10 33.78 | +7 13.8 | 1.346 | 2.273 | 11.0 | 18.8 | 2 1 | 10 34.95 | +19 18.1 | 1.619 | 2.552 | 9.0 | 21.8 |
| 2 11 | 10 25.16 | +8 13.0 | 1.318 | 2.288 | 5.9 | 18.6 | 2 11 | 10 25.88 | +20 25.4 | 1.571 | 2.541 | 5.2 | 21.5 |
| 2 21 | 10 15.26 | +9 20.8 | 1.316 | 2.304 | 0.7 | 18.2 | 2 21 | 10 15.31 | +21 27.5 | 1.551 | 2.529 | 4.1 | 21.4 |
| 3 2 | 10 5.44 | +10 28.5 | 1.341 | 2.320 | 5.1 | 18.6 | 3 2 | 10 4.49 | +22 16.1 | 1.559 | 2.517 | 7.3 | 21.6 |
| 3 12 | 9 57.05 | +11 27.7 | 1.393 | 2.335 | 10.1 | 18.9 | 3 12 | 9 54.79 | +22 45.7 | 1.594 | 2.504 | 11.4 | 21.8 |
| 3 22 | 9 51.05 | +12 13.1 | 1.468 | 2.350 | 14.4 | 19.2 | 3 22 | 9 47.26 | +22 54.4 | 1.652 | 2.491 | 15.2 | 22.0 |
| 4 1 | 9 47.96 | +12 42.0 | 1.564 | 2.365 | 17.9 | 19.5 | 4 1 | 9 42.60 | +22 43.2 | 1.729 | 2.477 | 18.4 | 22.2 |
| 465486 | 2008 TX ₇₄ | | 2 21.2 180°93 | 4°1/17.0 | 17 | | 96768 | 1999 RH ₅₀ | | 2 21.2 228°38 | 1°0/22.1 | 18 | |
| 1 22 | 10 38.83 | +23 8.4 | 2.450 | 3.312 | 9.5 | 21.8 | 1 22 | 10 39.97 | +6 6.5 | 1.996 | 2.836 | 12.4 | 20.1 |
| 2 1 | 10 32.33 | +23 59.6 | 2.387 | 3.313 | 6.9 | 21.6 | 2 1 | 10 33.49 | +6 27.7 | 1.907 | 2.824 | 8.9 | 19.9 |
| 2 11 | 10 24.24 | +24 48.0 | 2.352 | 3.314 | 4.6 | 21.5 | 2 11 | 10 25.02 | +7 1.1 | 1.844 | 2.811 | 5.0 | 19.6 |
| 2 21 | 10 15.25 | +25 28.1 | 2.347 | 3.314 | 4.3 | 21.4 | 2 21 | 10 15.30 | +7 42.8 | 1.809 | 2.797 | 1.1 | 19.3 |
| 3 2 | 10 6.23 | +25 55.1 | 2.372 | 3.313 | 6.3 | 21.6 | 3 2 | 10 5.30 | +8 27.7 | 1.805 | 2.783 | 4.1 | 19.5 |
| 3 12 | 9 58.07 | +26 6.3 | 2.425 | 3.312 | 9.0 | 21.7 | 3 12 | 9 56.12 | +9 10.1 | 1.829 | 2.767 | 8.3 | 19.7 |
| 3 22 | 9 51.46 | +26 1.6 | 2.502 | 3.311 | 11.6 | 21.9 | 3 22 | 9 48.66 | +9 45.5 | 1.880 | 2.752 | 12.2 | 19.9 |
| 4 1 | 9 46.89 | +25 42.0 | 2.600 | 3.309 | 13.8 | 22.1 | 4 1 | 9 43.55 | +10 10.8 | 1.953 | 2.735 | 15.5 | 20.1 |
| 167997 | 2005 GV ₁₂₅ | | 2 21.2 145°25 | 0°6/21.9 | 17 | | 138510 | 2000 KT ₇₃ | | 2 21.2 238°39 | 1°5/22.7 | 17 | |
| 1 22 | 10 35.14 | +6 47.3 | 2.494 | 3.334 | 10.2 | 21.2 | 1 22 | 10 36.30 | +3 17.3 | 2.156 | 2.989 | 11.9 | 20.8 |
| 2 1 | 10 29.68 | +7 16.0 | 2.422 | 3.340 | 7.2 | 21.0 | 2 1 | 10 30.82 | +3 59.4 | 2.063 | 2.975 | 8.7 | 20.5 |
| 2 11 | 10 22.84 | +7 53.8 | 2.378 | 3.346 | 3.9 | 20.8 | 2 11 | 10 23.60 | +4 56.6 | 1.996 | 2.960 | 5.0 | 20.3 |
| 2 21 | 10 15.22 | +8 36.9 | 2.363 | 3.352 | 0.7 | 20.5 | 2 21 | 10 15.27 | +6 4.9 | 1.959 | 2.945 | 1.6 | 20.0 |
| 3 2 | 10 7.56 | +9 21.2 | 2.379 | 3.357 | 3.3 | 20.7 | 3 2 | 10 6.68 | +7 18.8 | 1.951 | 2.929 | 3.8 | 20.1 |
| 3 12 | 10 0.61 | +10 2.4 | 2.424 | 3.362 | 6.6 | 21.0 | 3 12 | 9 58.78 | +8 31.5 | 1.973 | 2.913 | 7.7 | 20.3 |
| 3 22 | 9 54.97 | +10 37.0 | 2.497 | 3.366 | 9.6 | 21.2 | 3 22 | 9 52.36 | +9 37.4 | 2.021 | 2.896 | 11.3 | 20.5 |
| 4 1 | 9 51.09 | +11 2.8 | 2.592 | 3.371 | 12.2 | 21.3 | 4 1 | 9 48.03 | +10 32.2 | 2.092 | 2.879 | 14.4 | 20.7 |
| 356497 | 2011 SL ₂₇ | | 2 21.2 182°88 | 0°8/20.5 | 18 | | 30409 | Piccirillo | | 2 21.2 204°58 | 0°8/21.9 | 18 | |
| 1 22 | 10 40.07 | +10 5.0 | 1.996 | 2.847 | 11.9 | 21.8 | 1 22 | 10 37.20 | +6 15.3 | 2.058 | 2.901 | 11.9 | 19.5 |
| 2 1 | 10 33.45 | +11 1.7 | 1.923 | 2.848 | 8.3 | 21.6 | 2 1 | 10 31.43 | +6 48.6 | 1.979 | 2.898 | 8.5 | 19.3 |
| 2 11 | 10 24.93 | +12 8.1 | 1.877 | 2.849 | 4.2 | 21.3 | 2 11 | 10 23.88 | +7 33.9 | 1.926 | 2.894 | 4.6 | 19.0 |
| 2 21 | 10 15.27 | +13 18.0 | 1.860 | 2.848 | 0.8 | 21.1 | 2 21 | 10 15.27 | +8 26.9 | 1.902 | 2.890 | 0.9 | 18.7 |
| 3 2 | 10 5.48 | +14 24.4 | 1.874 | 2.847 | 4.7 | 21.3 | 3 2 | 10 6.52 | +9 21.9 | 1.908 | 2.886 | 3.9 | 19.0 |
| 3 12 | 9 56.62 | +15 21.3 | 1.917 | 2.845 | 8.7 | 21.6 | 3 12 | 9 58.59 | +10 13.3 | 1.942 | 2.881 | 7.9 | 19.2 |
| 3 22 | 9 49.53 | +16 4.7 | 1.986 | 2.841 | 12.3 | 21.8 | 3 22 | 9 52.27 | +10 56.5 | 2.002 | 2.875 | 11.5 | 19.4 |
| 4 1 | 9 44.78 | +16 32.9 | 2.076 | 2.837 | 15.3 | 22.0 | 4 1 | 9 48.12 | +11 28.4 | 2.085 | 2.869 | 14.5 | 19.6 |
| 160103 | 2000 RM ₁₀₄ | | 2 21.2 147°39 | 4°4/25.1 | 18 | | 165709 | 2001 PD ₆₇ | | 2 21.2 122°08 | 7°5/1.9 | 18 | |
| 1 22 | 10 40.37 | -3 58.4 | 2.064 | 2.861 | 13.6 | 20.4 | 1 22 | 10 33.40 | -18 8.2 | 2.462 | 3.172 | 14.0 | 20.0 |
| 2 1 | 10 33.53 | -3 58.7 | 1.992 | 2.873 | 10.6 | 20.3 | 2 1 | 10 28.58 | -18 2.3 | 2.380 | 3.179 | 12.0 | 19.8 |
| 2 11 | 10 24.91 | -3 40.4 | 1.946 | 2.885 | 7.3 | 20.1 | 2 11 | 10 22.33 | -17 31.1 | 2.319 | 3.185 | 10.0 | 19.7 |
| 2 21 | 10 15.27 | -3 5.1 | 1.927 | 2.896 | 4.7 | 19.9 | 2 21 | 10 15.24 | -16 34.7 | 2.282 | 3.192 | 8.2 | 19.6 |
| 3 2 | 10 5.59 | -2 16.8 | 1.937 | 2.906 | 5.1 | 20.0 | 3 2 | 10 8.08 | -15 15.6 | 2.272 | 3.198 | 7.5 | 19.5 |
| 3 12 | 9 56.84 | -1 21.3 | 1.977 | 2.915 | 7.8 | 20.2 | 3 12 | 10 1.62 | -13 39.5 | 2.290 | 3.204 | 8.3 | 19.6 |
| 3 22 | 9 49.80 | -0 24.7 | 2.043 | 2.923 | 11.0 | 20.4 | 3 22 | 9 56.49 | -11 53.8 | 2.335 | 3.210 | 10.0 | 19.7 |
| 4 1 | 9 45.00 | +0 27.6 | 2.133 | 2.930 | 13.8 | 20.6 | 4 1 | 9 53.16 | -10 6.1 | 2.404 | 3.215 | 12.1 | 19.9 |
| 94670 | 2001 XZ ₁₆ | | 2 21.2 238°85 | 1°6/20.1 | 18 | | 117216 | 2004 RM ₂₃₆ | | 2 21.2 283°96 | 5°7/26.6 | 18 | |
| 1 22 | 10 41.80 | +13 15.8 | 1.702 | 2.564 | 13.1 | 19.4 | 1 22 | 10 34.09 | -7 53.4 | 1.905 | 2.697 | 14.8 | 19.8 |

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2 21.2

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------------|--------------|---------|------|---------------|-------------------------------|-----------------|----------------|---------------|---------|------|
| 172375 | 2002 <i>YH</i> ₁₃ | | 2 21.2 19°33' | 0°0'/21.2 18 | | | 272471 | 2005 <i>UF</i> ₇₇ | | 2 21.2 95°38' | 5°7'/15.7 18 | | |
| 1 22 | 10 34.80 | + 8 52.9 | 1.892 | 2.751 | 12.1 | 20.0 | 1 22 | 10 40.16 | +25 3.9 | 1.977 | 2.845 | 11.2 | 21.0 |
| 2 1 | 10 29.78 | + 9 23.0 | 1.828 | 2.755 | 8.5 | 19.8 | 2 1 | 10 33.44 | +26 33.5 | 1.944 | 2.870 | 8.2 | 20.9 |
| 2 11 | 10 23.02 | +10 2.8 | 1.788 | 2.760 | 4.4 | 19.6 | 2 11 | 10 24.87 | +27 57.0 | 1.938 | 2.894 | 6.0 | 20.8 |
| 2 21 | 10 15.26 | +10 47.6 | 1.776 | 2.765 | 0.1 | 19.2 | 2 21 | 10 15.35 | +29 6.1 | 1.961 | 2.917 | 6.1 | 20.9 |
| 3 2 | 10 7.46 | +11 31.8 | 1.793 | 2.770 | 4.2 | 19.6 | 3 2 | 10 5.99 | +29 54.8 | 2.013 | 2.940 | 8.2 | 21.0 |
| 3 12 | 10 0.60 | +12 9.9 | 1.837 | 2.776 | 8.2 | 19.8 | 3 12 | 9 57.83 | +30 20.5 | 2.090 | 2.963 | 11.0 | 21.2 |
| 3 22 | 9 55.43 | +12 38.2 | 1.906 | 2.782 | 11.8 | 20.0 | 3 22 | 9 51.64 | +30 24.0 | 2.191 | 2.985 | 13.5 | 21.5 |
| 4 1 | 9 52.46 | +12 54.5 | 1.997 | 2.789 | 14.8 | 20.3 | 4 1 | 9 47.87 | +30 8.1 | 2.310 | 3.006 | 15.6 | 21.7 |
| 408323 | 2013 <i>GZ</i> ₅₂ | | 2 21.2 250°65' | 2°1'/19.5 16 | | | 455762 | 2005 <i>NW</i> ₁ | | 2 21.2 172°93' | 4°1'/24.9 16 | | |
| 1 22 | 10 39.49 | +13 54.4 | 1.843 | 2.706 | 12.2 | 21.9 | 1 22 | 10 39.26 | - 3 14.8 | 2.295 | 3.092 | 12.4 | 22.0 |
| 2 1 | 10 33.35 | +14 48.0 | 1.758 | 2.690 | 8.5 | 21.7 | 2 1 | 10 32.71 | - 3 25.7 | 2.214 | 3.095 | 9.7 | 21.8 |
| 2 11 | 10 25.04 | +15 49.1 | 1.699 | 2.672 | 4.4 | 21.4 | 2 11 | 10 24.52 | - 3 20.6 | 2.159 | 3.098 | 6.7 | 21.6 |
| 2 21 | 10 15.31 | +16 51.0 | 1.669 | 2.654 | 2.2 | 21.2 | 2 21 | 10 15.36 | - 3 0.8 | 2.131 | 3.100 | 4.4 | 21.5 |
| 3 2 | 10 5.27 | +17 46.2 | 1.667 | 2.635 | 5.8 | 21.4 | 3 2 | 10 6.07 | - 2 29.0 | 2.134 | 3.102 | 4.8 | 21.5 |
| 3 12 | 9 56.12 | +18 28.6 | 1.694 | 2.616 | 10.0 | 21.6 | 3 12 | 9 57.56 | - 1 49.9 | 2.166 | 3.103 | 7.3 | 21.7 |
| 3 22 | 9 48.85 | +18 54.8 | 1.744 | 2.597 | 13.9 | 21.8 | 3 22 | 9 50.56 | - 1 8.3 | 2.225 | 3.103 | 10.3 | 21.9 |
| 4 1 | 9 44.15 | +19 3.6 | 1.815 | 2.576 | 17.2 | 22.0 | 4 1 | 9 45.57 | - 0 28.9 | 2.308 | 3.103 | 13.0 | 22.0 |
| 495675 | 2016 <i>AB</i> ₁₇₂ | | 2 21.2 58°33' | 3°2'/18.5 18 | | | 123413 | 2000 <i>WT</i> ₉₈ | | 2 21.2 87°62' | 5°1'/25.6 18 | | |
| 1 22 | 10 36.88 | +12 18.8 | 1.308 | 2.187 | 15.0 | 19.7 | 1 22 | 10 37.92 | - 4 53.9 | 1.960 | 2.760 | 14.2 | 19.4 |
| 2 1 | 10 31.67 | +14 25.0 | 1.271 | 2.210 | 10.2 | 19.5 | 2 1 | 10 31.90 | - 5 11.1 | 1.894 | 2.773 | 11.1 | 19.2 |
| 2 11 | 10 24.10 | +16 40.9 | 1.259 | 2.233 | 5.3 | 19.3 | 2 11 | 10 24.12 | - 5 8.8 | 1.851 | 2.786 | 7.9 | 19.0 |
| 2 21 | 10 15.29 | +18 52.7 | 1.274 | 2.257 | 3.5 | 19.2 | 2 21 | 10 15.35 | - 4 48.0 | 1.834 | 2.799 | 5.5 | 18.9 |
| 3 2 | 10 6.63 | +20 47.3 | 1.316 | 2.281 | 7.5 | 19.5 | 3 2 | 10 6.54 | - 4 12.2 | 1.845 | 2.811 | 5.6 | 18.9 |
| 3 12 | 9 59.46 | +22 15.7 | 1.384 | 2.305 | 12.0 | 19.8 | 3 12 | 9 58.67 | - 3 26.7 | 1.885 | 2.824 | 8.1 | 19.1 |
| 3 22 | 9 54.71 | +23 15.0 | 1.475 | 2.329 | 15.9 | 20.1 | 3 22 | 9 52.53 | - 2 37.7 | 1.950 | 2.836 | 11.1 | 19.3 |
| 4 1 | 9 52.85 | +23 46.1 | 1.583 | 2.354 | 19.0 | 20.4 | 4 1 | 9 48.61 | - 1 51.0 | 2.038 | 2.848 | 13.9 | 19.5 |
| 497895 | 2006 <i>UQ</i> ₃₀₂ | | 2 21.2 279°05' | 2°5'/18.9 17 | | | 496360 | 2013 <i>QK</i> ₈₄ | | 2 21.2 133°27' | 1°5'/22.6 18 | | |
| 1 22 | 10 37.72 | +17 38.1 | 2.219 | 3.084 | 10.3 | 20.8 | 1 22 | 10 39.30 | + 4 59.8 | 2.310 | 3.140 | 11.2 | 21.6 |
| 2 1 | 10 31.70 | +18 8.2 | 2.147 | 3.078 | 7.2 | 20.6 | 2 1 | 10 32.63 | + 5 3.3 | 2.242 | 3.152 | 8.1 | 21.4 |
| 2 11 | 10 23.99 | +18 39.6 | 2.102 | 3.073 | 4.0 | 20.4 | 2 11 | 10 24.42 | + 5 16.7 | 2.201 | 3.164 | 4.7 | 21.2 |
| 2 21 | 10 15.30 | +19 7.3 | 2.085 | 3.067 | 2.6 | 20.3 | 2 21 | 10 15.36 | + 5 37.4 | 2.189 | 3.175 | 1.7 | 21.0 |
| 3 2 | 10 6.54 | +19 26.8 | 2.099 | 3.062 | 5.3 | 20.5 | 3 2 | 10 6.30 | + 6 1.7 | 2.208 | 3.186 | 3.5 | 21.2 |
| 3 12 | 9 58.63 | +19 34.7 | 2.140 | 3.056 | 8.6 | 20.7 | 3 12 | 9 58.10 | + 6 25.8 | 2.257 | 3.196 | 6.9 | 21.4 |
| 3 22 | 9 52.33 | +19 29.8 | 2.207 | 3.051 | 11.7 | 20.9 | 3 22 | 9 51.42 | + 6 46.3 | 2.333 | 3.206 | 10.1 | 21.6 |
| 4 1 | 9 48.13 | +19 12.3 | 2.295 | 3.046 | 14.3 | 21.0 | 4 1 | 9 46.74 | + 7 0.7 | 2.432 | 3.215 | 12.8 | 21.8 |
| 123282 | 2000 <i>US</i> ₉₇ | | 2 21.2 121°28' | 3°2'/18.4 18 | | | 5885 | Apeldoorn | | 2 21.2 315°75' | 0°4'/21.7 18 | | |
| 1 22 | 10 40.38 | +19 18.7 | 2.111 | 2.974 | 10.8 | 20.0 | 1 22 | 10 33.77 | + 6 56.4 | 2.174 | 3.023 | 11.1 | 17.0 |
| 2 1 | 10 33.48 | +20 0.4 | 2.057 | 2.987 | 7.5 | 19.8 | 2 1 | 10 28.98 | + 7 37.2 | 2.097 | 3.019 | 7.9 | 16.8 |
| 2 11 | 10 24.86 | +20 41.7 | 2.031 | 3.000 | 4.4 | 19.6 | 2 11 | 10 22.62 | + 8 29.1 | 2.046 | 3.016 | 4.2 | 16.5 |
| 2 21 | 10 15.32 | +21 16.6 | 2.034 | 3.012 | 3.4 | 19.6 | 2 21 | 10 15.32 | + 9 27.7 | 2.023 | 3.012 | 0.5 | 16.2 |
| 3 2 | 10 5.86 | +21 40.3 | 2.066 | 3.024 | 5.9 | 19.7 | 3 2 | 10 7.91 | +10 27.5 | 2.031 | 3.009 | 3.7 | 16.5 |
| 3 12 | 9 57.46 | +21 49.7 | 2.127 | 3.035 | 9.1 | 20.0 | 3 12 | 10 1.23 | +11 22.8 | 2.066 | 3.005 | 7.5 | 16.7 |
| 3 22 | 9 50.86 | +21 44.5 | 2.213 | 3.046 | 12.1 | 20.2 | 3 22 | 9 56.00 | +12 9.4 | 2.128 | 3.002 | 10.9 | 16.9 |
| 4 1 | 9 46.51 | +21 25.5 | 2.319 | 3.057 | 14.6 | 20.4 | 4 1 | 9 52.72 | +12 44.2 | 2.212 | 2.999 | 13.7 | 17.1 |
| 290577 | 2005 <i>UB</i> ₁₃₇ | | 2 21.2 159°00' | 0°9'/22.0 18 | | | 308436 | 2005 <i>SC</i> ₁₆₃ | | 2 21.2 64°32' | 5°2'/18.1 18 | | |
| 1 22 | 10 37.23 | + 5 55.1 | 2.038 | 2.881 | 12.0 | 22.1 | 1 22 | 10 44.02 | +20 55.8 | 1.306 | 2.185 | 15.1 | 19.9 |
| 2 1 | 10 31.41 | + 6 27.1 | 1.966 | 2.885 | 8.6 | 21.9 | 2 1 | 10 36.94 | +21 45.1 | 1.252 | 2.188 | 10.7 | 19.7 |
| 2 11 | 10 23.86 | + 7 11.1 | 1.921 | 2.888 | 4.7 | 21.6 | 2 11 | 10 27.00 | +22 32.7 | 1.222 | 2.190 | 6.6 | 19.4 |
| 2 21 | 10 15.31 | + 8 2.7 | 1.904 | 2.892 | 1.0 | 21.4 | 2 21 | 10 15.43 | +23 8.7 | 1.217 | 2.193 | 5.5 | 19.4 |
| 3 2 | 10 6.68 | + 8 56.4 | 1.917 | 2.895 | 3.9 | 21.6 | 3 2 | 10 3.90 | +23 24.9 | 1.238 | 2.196 | 8.8 | 19.6 |
| 3 12 | 9 58.93 | + 9 46.6 | 1.958 | 2.898 | 7.8 | 21.8 | 3 12 | 9 54.08 | +23 17.9 | 1.284 | 2.199 | 13.2 | 19.8 |
| 3 22 | 9 52.81 | +10 28.7 | 2.026 | 2.900 | 11.3 | 22.0 | 3 22 | 9 47.11 | +22 48.6 | 1.351 | 2.202 | 17.3 | 20.1 |
| 4 1 | 9 48.86 | +10 59.9 | 2.116 | 2.902 | 14.3 | 22.2 | 4 1 | 9 43.58 | +22 0.5 | 1.436 | 2.205 | 20.6 | 20.3 |
| 107243 | 2001 <i>BJ</i> ₅₈ | | 2 21.2 67°52' | 1°4'/22.2 18 | | | 145652 | 4278 <i>P-L</i> | | 2 21.2 178°51' | 1°3'/22.9 18 | | |
| 1 22 | 10 39.93 | + 5 16.2 | 1.408 | 2.263 | 15.7 | 19.7 | 1 22 | 10 34.07 | + 3 45.7 | 2.895 | 3.721 | 9.3 | 20.9 |
| 2 1 | 10 33.61 | + 5 44.9 | 1.362 | 2.285 | 11.2 | 19.5 | 2 1 | 10 28.85 | + 4 9.3 | 2.815 | 3.722 | 6.8 | 20.7 |
| 2 11 | 10 25.05 | + 6 29.7 | 1.339 | 2.308 | 6.2 | 19.2 | 2 11 | 10 22.43 | + 4 42.5 | 2.762 | 3.723 | 4.0 | 20.5 |
| 2 21 | 10 15.33 | + 7 24.5 | 1.343 | 2.331 | 1.5 | 19.0 | 2 21 | 10 15.32 | + 5 22.8 | 2.738 | 3.724 | 1.5 | 20.3 |
| 3 2 | 10 5.78 | + 8 21.5 | 1.374 | 2.353 | 4.8 | 19.3 | 3 2 | 10 8.14 | + 6 6.5 | 2.746 | 3.724 | 2.9 | 20.4 |
| 3 12 | 9 57.69 | + 9 13.1 | 1.431 | 2.376 | 9.6 | 19.6 | 3 12 | 10 1.53 | + 6 50.0 | 2.784 | 3.724 | 5.8 | 20.6 |
| 3 22 | 9 51.95 | + 9 53.8 | 1.512 | 2.398 | 13.7 | 19.9 | 3 22 | 9 56.02 | + 7 29.7 | 2.850 | 3.723 | 8.5 | 20.8 |
| 4 1 | 9 49.04 | +10 20.7 | 1.614 | 2.421 | 17.1 | 20.2 | 4 1 | 9 52.02 | + 8 3.1 | 2.940 | 3.722 | 10.8 | 21.0 |
| 32409 | 2000 <i>RR</i> ₁₆ | | 2 21.2 338°66' | 5°5'/24.9 18 | | | 160928 | 2001 <i>XZ</i> ₂₀₀ | | 2 21.2 231°44' | 10°6'/ 8.4 18 | | |
| 1 22 | 10 35.85 | - 2 33.3 | 1.489 | 2.319 | 16.3 | 17.8 | 1 22 | 10 42.10 | +40 55.6 | 2.005 | 2.846 | 12.3 | 19.6 |
| 2 1 | 10 31.05 | - 2 58.2 | 1.410 | 2.309 | 12.8 | 17.5 | 2 1 | 10 35.43 | +42 56.2 | 1.964 | 2.840 | 11.0 | 19.5 |
| 2 11 | 10 23.92 | - 3 1.0 | 1.353 | 2.301 | 8.9 | 17.3 | 2 11 | 10 26.20 | +44 39.0 | 1.949 | 2.833 | 10.7 | 19.5 |
| 2 21 | 10 15.32 | - 2 42.2 | 1.320 | 2.292 | 5.8 | 17.1 | 2 21 | 10 15.42 | +45 54.0 | 1.959 | 2.826 | 11.6 | 19.5 |
| 3 2 | 10 6.42 | - 2 5.3 | 1.312 | 2.285 | 6.3 | 17.1 | 3 2 | 10 4.46 | +46 34.9 | 1.992 | 2.819 | 13.2 | 19.6 |
| 3 12 | 9 58.56 | - 1 17.2 | 1.331 | 2.278 | 9.9 | 17.2 | 3 12 | 9 54.81 | +46 40.8 | 2.047 | 2.811 | 15.2 | 19.7 |
| 3 22 | 9 52.79 | - 0 25.7 | 1.372 | 2.272 | 13.9 | 17.5 | 3 22 | 9 47.57 | +46 15.1 | 2.120 | 2.804 | 17.1 | 19.9 |
| 4 1 | 9 49.82 | + 0 21.8 | 1.434 | 2.267 | 17.6 | 17.7 | 4 1 | 9 43.39 | +45 23.4 | 2.207 | 2.796 | 18.7 | 20.0 |
| 282168 | 2001 <i>SJ</i> ₂₈₀ | | 2 21.2 158°57' | 0°8'/22.3 18 | | | 95449 | 2002 <i>CJ</i> ₂₆₁ | | 2 21.2 123°29' | 1°4'/19.8 18 | | |
| 1 22 | 10 34. | | | | | | | | | | | | |

EPHEMERIDES

2 21.2

2 21.3

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 239252 | 2006 <i>UP</i> ₁₉₉ | | 2 21.2 187°04 | 6°1/13.5 | 18 | | 364656 | 2007 <i>TD</i> ₁₈₃ | | 2 21.3 68°40 | 2°1/22.8 | 18 | |
| 1 22 | 10 39.40 | +33 41.7 | 2.872 | 3.720 | 8.8 | 20.8 | 1 22 | 10 38.72 | +3 1.4 | 1.431 | 2.280 | 15.8 | 20.8 |
| 2 1 | 10 32.69 | +34 41.0 | 2.820 | 3.720 | 7.1 | 20.7 | 2 1 | 10 32.82 | +3 35.0 | 1.382 | 2.301 | 11.5 | 20.6 |
| 2 11 | 10 24.45 | +35 31.0 | 2.795 | 3.719 | 6.2 | 20.7 | 2 11 | 10 24.70 | +4 27.5 | 1.356 | 2.321 | 6.6 | 20.4 |
| 2 21 | 10 15.38 | +36 6.4 | 2.799 | 3.717 | 6.5 | 20.7 | 2 21 | 10 15.42 | +5 33.0 | 1.356 | 2.342 | 2.3 | 20.2 |
| 3 2 | 10 6.31 | +36 23.5 | 2.831 | 3.716 | 7.9 | 20.8 | 3 2 | 10 6.25 | +6 43.2 | 1.383 | 2.363 | 4.7 | 20.4 |
| 3 12 | 9 58.07 | +36 21.0 | 2.889 | 3.713 | 9.7 | 20.9 | 3 12 | 9 58.46 | +7 49.6 | 1.437 | 2.383 | 9.4 | 20.7 |
| 3 22 | 9 51.33 | +36 0.0 | 2.971 | 3.711 | 11.5 | 21.0 | 3 22 | 9 52.93 | +8 45.6 | 1.515 | 2.404 | 13.5 | 21.0 |
| 4 1 | 9 46.54 | +35 23.0 | 3.072 | 3.708 | 13.1 | 21.1 | 4 1 | 9 50.16 | +9 27.2 | 1.613 | 2.424 | 17.0 | 21.3 |
| 125585 | 2001 <i>XN</i> ₂₇ | | 2 21.2 70°47 | 3°3/19.3 | 18 | | 142881 | 2002 <i>VH</i> ₄₀ | | 2 21.3 96°58 | 1°4/22.6 | 18 | |
| 1 22 | 10 45.35 | +17 27.0 | 1.333 | 2.206 | 15.2 | 18.0 | 1 22 | 10 36.55 | +3 12.6 | 1.744 | 2.586 | 13.8 | 19.8 |
| 2 1 | 10 37.48 | +17 57.9 | 1.294 | 2.229 | 10.5 | 17.8 | 2 1 | 10 31.11 | +4 6.2 | 1.683 | 2.599 | 9.9 | 19.5 |
| 2 11 | 10 27.08 | +18 29.8 | 1.279 | 2.251 | 5.7 | 17.6 | 2 11 | 10 23.79 | +5 16.8 | 1.646 | 2.612 | 5.6 | 19.3 |
| 2 21 | 10 15.45 | +18 54.7 | 1.290 | 2.273 | 3.5 | 17.5 | 2 21 | 10 15.40 | +6 38.7 | 1.637 | 2.625 | 1.6 | 19.1 |
| 3 2 | 10 4.17 | +19 6.1 | 1.328 | 2.295 | 7.1 | 17.7 | 3 2 | 10 6.99 | +8 3.9 | 1.658 | 2.637 | 4.2 | 19.3 |
| 3 12 | 9 54.73 | +19 0.9 | 1.392 | 2.318 | 11.6 | 18.1 | 3 12 | 9 59.64 | +9 24.5 | 1.706 | 2.649 | 8.4 | 19.6 |
| 3 22 | 9 48.05 | +18 39.5 | 1.479 | 2.339 | 15.5 | 18.3 | 3 22 | 9 54.13 | +10 33.9 | 1.780 | 2.661 | 12.3 | 19.8 |
| 4 1 | 9 44.58 | +18 3.9 | 1.584 | 2.361 | 18.7 | 18.6 | 4 1 | 9 51.00 | +11 28.4 | 1.875 | 2.673 | 15.5 | 20.0 |
| 138783 | 2000 <i>SJ</i> ₃₄₉ | | 2 21.3 173°14 | 5°0/14.8 | 17 | | 110871 | 2001 <i>UH</i> ₉₄ | | 2 21.3 188°81 | 2°7/24.9 | 18 | |
| 1 22 | 10 36.54 | +28 20.6 | 2.813 | 3.673 | 8.5 | 20.2 | 1 22 | 10 33.24 | -2 54.6 | 2.954 | 3.751 | 10.0 | 20.5 |
| 2 1 | 10 30.69 | +29 27.2 | 2.758 | 3.675 | 6.5 | 20.0 | 2 1 | 10 28.30 | -2 20.0 | 2.866 | 3.750 | 7.6 | 20.3 |
| 2 11 | 10 23.43 | +30 28.2 | 2.732 | 3.677 | 5.2 | 19.9 | 2 11 | 10 22.18 | -1 31.2 | 2.804 | 3.748 | 5.1 | 20.1 |
| 2 21 | 10 15.37 | +31 18.2 | 2.735 | 3.678 | 5.4 | 20.0 | 2 21 | 10 15.38 | -0 30.7 | 2.772 | 3.746 | 3.0 | 20.0 |
| 3 2 | 10 7.28 | +31 52.7 | 2.767 | 3.679 | 7.0 | 20.1 | 3 2 | 10 8.47 | +0 38.0 | 2.771 | 3.744 | 3.3 | 20.0 |
| 3 12 | 9 59.93 | +32 9.8 | 2.827 | 3.680 | 9.0 | 20.2 | 3 12 | 10 2.10 | +1 50.0 | 2.800 | 3.741 | 5.7 | 20.2 |
| 3 22 | 9 53.95 | +32 9.6 | 2.910 | 3.681 | 11.1 | 20.3 | 3 22 | 9 56.77 | +3 0.8 | 2.858 | 3.737 | 8.2 | 20.3 |
| 4 1 | 9 49.77 | +31 53.4 | 3.013 | 3.681 | 12.8 | 20.5 | 4 1 | 9 52.91 | +4 6.3 | 2.941 | 3.734 | 10.5 | 20.5 |
| 383041 | 2005 <i>QQ</i> ₃₂ | | 2 21.3 208°56 | 7°8/29.3 | 17 | | 12471 | Larryscherr | | 2 21.3 160°80 | 0°6/21.8 | 18 | |
| 1 22 | 10 37.83 | -17 41.6 | 2.847 | 3.542 | 12.6 | 21.0 | 1 22 | 10 38.94 | +6 32.4 | 2.068 | 2.910 | 11.9 | 19.4 |
| 2 1 | 10 31.65 | -18 35.2 | 2.754 | 3.538 | 11.0 | 20.8 | 2 1 | 10 32.60 | +7 11.6 | 1.999 | 2.917 | 8.5 | 19.2 |
| 2 11 | 10 23.99 | -19 9.8 | 2.685 | 3.534 | 9.4 | 20.7 | 2 11 | 10 24.52 | +8 2.2 | 1.955 | 2.923 | 4.6 | 19.0 |
| 2 21 | 10 15.39 | -19 23.4 | 2.640 | 3.529 | 8.1 | 20.6 | 2 21 | 10 15.43 | +8 59.5 | 1.940 | 2.929 | 0.7 | 18.7 |
| 3 2 | 10 6.57 | -19 16.2 | 2.623 | 3.524 | 7.8 | 20.6 | 3 2 | 10 6.28 | +9 57.7 | 1.956 | 2.934 | 3.9 | 19.0 |
| 3 12 | 9 58.30 | -18 50.7 | 2.633 | 3.519 | 8.5 | 20.6 | 3 12 | 9 58.03 | +10 51.0 | 2.001 | 2.938 | 7.8 | 19.2 |
| 3 22 | 9 51.23 | -18 11.2 | 2.669 | 3.513 | 9.9 | 20.7 | 3 22 | 9 51.45 | +11 35.2 | 2.073 | 2.941 | 11.3 | 19.4 |
| 4 1 | 9 45.88 | -17 23.1 | 2.729 | 3.508 | 11.6 | 20.8 | 4 1 | 9 47.05 | +12 7.6 | 2.167 | 2.944 | 14.3 | 19.6 |
| 350641 | 2001 <i>TX</i> ₁₀₁ | | 2 21.3 128°39 | 0°5/20.8 | 18 | | 24707 | 1991 <i>PL</i> ₅ | | 2 21.3 239°43 | 0°4/21.6 | 18 | |
| 1 22 | 10 42.43 | +10 0.3 | 1.783 | 2.634 | 13.1 | 21.6 | 1 22 | 10 39.27 | +7 41.2 | 1.891 | 2.739 | 12.6 | 19.8 |
| 2 1 | 10 35.12 | +10 39.7 | 1.727 | 2.652 | 9.1 | 21.4 | 2 1 | 10 33.14 | +8 11.7 | 1.804 | 2.726 | 9.0 | 19.6 |
| 2 11 | 10 25.82 | +11 28.0 | 1.697 | 2.669 | 4.6 | 21.2 | 2 11 | 10 24.96 | +8 54.1 | 1.743 | 2.713 | 4.8 | 19.3 |
| 2 21 | 10 15.44 | +12 19.2 | 1.696 | 2.685 | 0.5 | 20.9 | 2 21 | 10 15.45 | +9 43.8 | 1.710 | 2.698 | 0.5 | 18.9 |
| 3 2 | 10 5.13 | +13 6.7 | 1.725 | 2.700 | 4.7 | 21.2 | 3 2 | 10 5.67 | +10 34.8 | 1.706 | 2.684 | 4.4 | 19.2 |
| 3 12 | 9 56.04 | +13 45.2 | 1.782 | 2.714 | 9.0 | 21.5 | 3 12 | 9 56.74 | +11 20.9 | 1.731 | 2.668 | 8.8 | 19.4 |
| 3 22 | 9 49.01 | +14 11.4 | 1.865 | 2.728 | 12.7 | 21.8 | 3 22 | 9 49.59 | +11 57.6 | 1.781 | 2.652 | 12.8 | 19.6 |
| 4 1 | 9 44.53 | +14 24.1 | 1.969 | 2.741 | 15.7 | 22.0 | 4 1 | 9 44.88 | +12 21.9 | 1.853 | 2.636 | 16.1 | 19.8 |
| 490631 | 2010 <i>CF</i> ₅ | | 2 21.3 89°93 | 2°3/19.6 | 18 | | 491659 | 2012 <i>TB</i> ₂₉₂ | | 2 21.3 323°81 | 0°6/21.8 | 17 | |
| 1 22 | 10 41.04 | +13 1.7 | 1.366 | 2.239 | 15.0 | 21.5 | 1 22 | 10 36.05 | +7 56.4 | 2.108 | 2.957 | 11.4 | 20.9 |
| 2 1 | 10 34.58 | +14 7.9 | 1.319 | 2.255 | 10.3 | 21.2 | 2 1 | 10 30.64 | +8 7.2 | 2.029 | 2.951 | 8.1 | 20.7 |
| 2 11 | 10 25.67 | +15 22.4 | 1.297 | 2.271 | 5.3 | 21.0 | 2 11 | 10 23.53 | +8 27.0 | 1.976 | 2.945 | 4.4 | 20.4 |
| 2 21 | 10 15.43 | +16 35.6 | 1.301 | 2.287 | 2.4 | 20.8 | 2 21 | 10 15.43 | +9 52.5 | 1.951 | 2.939 | 0.7 | 20.1 |
| 3 2 | 10 5.31 | +17 38.0 | 1.332 | 2.302 | 6.6 | 21.1 | 3 2 | 10 7.19 | +9 19.5 | 1.955 | 2.934 | 3.8 | 20.3 |
| 3 12 | 9 56.72 | +18 22.8 | 1.389 | 2.318 | 11.3 | 21.4 | 3 12 | 9 59.75 | +9 43.7 | 1.988 | 2.928 | 7.6 | 20.6 |
| 3 22 | 9 50.64 | +18 47.4 | 1.469 | 2.333 | 15.4 | 21.7 | 3 22 | 9 53.86 | +10 1.5 | 2.047 | 2.923 | 11.1 | 20.8 |
| 4 1 | 9 47.60 | +18 52.0 | 1.567 | 2.348 | 18.7 | 22.0 | 4 1 | 9 50.04 | +10 10.7 | 2.127 | 2.918 | 14.1 | 21.0 |
| 155147 | 2005 <i>UZ</i> ₂₉ | | 2 21.3 86°39 | 5°1/17.9 | 18 | | 425264 | 2009 <i>WS</i> ₉₅ | | 2 21.3 138°10 | 0°1/21.2 | 15 | |
| 1 22 | 10 42.93 | +20 20.7 | 1.339 | 2.218 | 14.7 | 19.9 | 1 22 | 10 37.52 | +8 44.8 | 2.333 | 3.178 | 10.6 | 22.4 |
| 2 1 | 10 36.10 | +21 20.9 | 1.288 | 2.224 | 10.4 | 19.6 | 2 1 | 10 31.43 | +9 23.2 | 2.269 | 3.191 | 7.4 | 22.2 |
| 2 11 | 10 26.55 | +22 20.5 | 1.261 | 2.229 | 6.4 | 19.4 | 2 11 | 10 23.84 | +10 9.6 | 2.232 | 3.203 | 3.8 | 22.0 |
| 2 21 | 10 15.46 | +23 9.3 | 1.259 | 2.235 | 5.4 | 19.4 | 2 21 | 10 15.44 | +10 59.8 | 2.225 | 3.214 | 0.1 | 21.7 |
| 3 2 | 10 4.42 | +23 38.6 | 1.284 | 2.241 | 8.7 | 19.6 | 3 2 | 10 7.02 | +11 48.7 | 2.249 | 3.225 | 3.7 | 22.0 |
| 3 12 | 9 55.03 | +23 44.4 | 1.333 | 2.246 | 13.0 | 19.8 | 3 12 | 9 59.43 | +12 31.9 | 2.302 | 3.235 | 7.2 | 22.3 |
| 3 22 | 9 48.37 | +23 27.3 | 1.404 | 2.252 | 16.9 | 20.1 | 3 22 | 9 53.31 | +13 5.9 | 2.382 | 3.244 | 10.3 | 22.5 |
| 4 1 | 9 45.02 | +22 50.1 | 1.492 | 2.257 | 20.2 | 20.3 | 4 1 | 9 49.11 | +13 29.1 | 2.485 | 3.254 | 12.9 | 22.7 |
| 153091 | 2000 <i>RN</i> ₅₈ | | 2 21.3 232°24 | 0°3/21.6 | 17 | | 210343 | 2007 <i>TX</i> ₄₁₀ | | 2 21.3 344°24 | 2°1/22.7 | 18 | |
| 1 22 | 10 38.01 | +7 57.1 | 2.324 | 3.166 | 10.8 | 21.3 | 1 22 | 10 37.33 | +3 52.3 | 1.400 | 2.255 | 15.8 | 20.5 |
| 2 1 | 10 31.94 | +8 24.1 | 2.233 | 3.153 | 7.7 | 21.1 | 2 1 | 10 32.16 | +4 11.4 | 1.331 | 2.252 | 11.5 | 20.2 |
| 2 11 | 10 24.20 | +9 0.4 | 2.170 | 3.139 | 4.1 | 20.8 | 2 11 | 10 24.56 | +4 49.6 | 1.283 | 2.250 | 6.7 | 19.9 |
| 2 21 | 10 15.41 | +9 42.3 | 2.135 | 3.124 | 0.4 | 20.5 | 2 21 | 10 15.47 | +5 42.1 | 1.261 | 2.247 | 2.3 | 19.6 |
| 3 2 | 10 6.40 | +10 25.0 | 2.132 | 3.109 | 3.7 | 20.8 | 3 2 | 10 6.19 | +6 41.7 | 1.265 | 2.245 | 5.0 | 19.8 |
| 3 12 | 9 58.08 | +11 4.0 | 2.158 | 3.093 | 7.5 | 21.0 | 3 12 | 9 58.10 | +7 39.9 | 1.296 | 2.244 | 10.0 | 20.1 |
| 3 22 | 9 51.19 | +11 35.5 | 2.211 | 3.076 | 10.9 | 21.1 | 3 22 | 9 52.28 | +8 29.6 | 1.349 | 2.243 | 14.6 | 20.3 |
| 4 1 | 9 46.30 | +11 57.2 | 2.286 | 3.059 | 13.8 | 21.3 | 4 1 | 9 49.39 | +9 5.9 | 1.422 | 2.242 | 18.4 | 20.6 |
| 453274 | 2008 <i>SD</i> ₃₁₀ | | 2 21.3 119°13 | 4°2/17.9 | 18 | | 329818 | 2004 <i>RX</i> ₁₄₇ | | 2 21.3 137°39 | 2°4/19.0 | 18 | |
| 1 22 | 10 41.30 | +18 11.7 | 1.577 | 2.450 | 13.3 | 2 | | | | | | | |

EPHEMERIDES

2 21.3

2 21.3

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|-----------|---------|------|
| 242338 | 2003 YS ₁₁₄ | | 2 21.3 127°25 | 4°0/16.8 | 17 | | 414781 | 2010 QM ₁ | | 2 21.3 208°61 | 0°2/21.4 | 17 | |
| 1 22 | 10 35.96 | +20 56.1 | 2.279 | 3.148 | 9.9 | 20.2 | 1 22 | 10 38.95 | +7 40.6 | 2.078 | 2.922 | 11.8 | 22.7 |
| 2 1 | 10 30.49 | +22 14.4 | 2.224 | 3.155 | 7.0 | 20.0 | 2 1 | 10 32.74 | +8 22.0 | 1.995 | 2.916 | 8.3 | 22.5 |
| 2 11 | 10 23.42 | +23 32.3 | 2.197 | 3.161 | 4.5 | 19.9 | 2 11 | 10 24.69 | +9 14.6 | 1.939 | 2.909 | 4.4 | 22.2 |
| 2 21 | 10 15.45 | +24 42.7 | 2.199 | 3.168 | 4.3 | 19.9 | 2 21 | 10 15.50 | +10 13.5 | 1.912 | 2.901 | 0.3 | 21.9 |
| 3 2 | 10 7.44 | +25 39.8 | 2.230 | 3.174 | 6.5 | 20.0 | 3 2 | 10 6.12 | +11 12.9 | 1.916 | 2.892 | 4.1 | 22.2 |
| 3 12 | 10 0.28 | +26 19.7 | 2.289 | 3.180 | 9.4 | 20.2 | 3 12 | 9 57.55 | +12 6.8 | 1.948 | 2.883 | 8.2 | 22.4 |
| 3 22 | 9 54.66 | +26 41.1 | 2.372 | 3.186 | 12.0 | 20.4 | 3 22 | 9 50.61 | +12 50.7 | 2.007 | 2.873 | 11.8 | 22.6 |
| 4 1 | 9 51.06 | +26 44.9 | 2.476 | 3.192 | 14.3 | 20.6 | 4 1 | 9 45.89 | +13 22.1 | 2.088 | 2.862 | 14.9 | 22.8 |
| 55888 | 1997 WG ₄₄ | | 2 21.3 117°79 | 3°2/18.3 | 18 | | 165404 | 2000 XU ₄₄ | | 2 21.3 21°09 | 13°0/24.4 | 18 | |
| 1 22 | 10 38.84 | +17 36.6 | 1.927 | 2.795 | 11.5 | 18.8 | 1 22 | 10 52.62 | -6 35.1 | 1.055 | 1.868 | 22.8 | 17.4 |
| 2 1 | 10 32.63 | +18 41.5 | 1.874 | 2.807 | 8.0 | 18.6 | 2 1 | 10 43.49 | -9 56.1 | 1.004 | 1.879 | 19.0 | 17.1 |
| 2 11 | 10 24.56 | +19 48.3 | 1.848 | 2.818 | 4.5 | 18.4 | 2 11 | 10 30.70 | -12 52.0 | 0.974 | 1.891 | 15.3 | 17.0 |
| 2 21 | 10 15.48 | +20 49.8 | 1.850 | 2.829 | 3.4 | 18.3 | 2 21 | 10 15.67 | -15 10.1 | 0.967 | 1.906 | 13.2 | 16.9 |
| 3 2 | 10 6.43 | +21 39.3 | 1.882 | 2.840 | 6.2 | 18.5 | 3 2 | 10 0.49 | -16 42.7 | 0.985 | 1.921 | 13.6 | 17.0 |
| 3 12 | 9 58.44 | +22 12.5 | 1.940 | 2.851 | 9.7 | 18.7 | 3 12 | 9 47.37 | -17 32.1 | 1.026 | 1.938 | 16.0 | 17.2 |
| 3 22 | 9 52.32 | +22 28.0 | 2.024 | 2.861 | 12.9 | 19.0 | 3 22 | 9 37.86 | -17 47.8 | 1.087 | 1.957 | 19.2 | 17.4 |
| 4 1 | 9 48.54 | +22 26.5 | 2.127 | 2.871 | 15.5 | 19.2 | 4 1 | 9 32.67 | -17 42.6 | 1.164 | 1.977 | 22.1 | 17.7 |
| 386535 | 2009 CF ₄₂ | | 2 21.3 214°35 | 1°5/22.6 | 17 | | 385291 | 2001 TM ₁₅₉ | | 2 21.3 85°72 | 1°7/23.2 | 18 | |
| 1 22 | 10 36.92 | +5 11.1 | 2.390 | 3.224 | 10.8 | 20.8 | 1 22 | 10 34.92 | +2 31.4 | 2.360 | 3.188 | 11.1 | 21.4 |
| 2 1 | 10 31.08 | +5 13.8 | 2.309 | 3.221 | 7.8 | 20.6 | 2 1 | 10 29.58 | +3 3.3 | 2.301 | 3.209 | 8.1 | 21.2 |
| 2 11 | 10 23.72 | +5 26.1 | 2.255 | 3.219 | 4.5 | 20.4 | 2 11 | 10 22.88 | +3 47.6 | 2.269 | 3.229 | 4.8 | 21.0 |
| 2 21 | 10 15.46 | +5 45.7 | 2.230 | 3.216 | 1.6 | 20.2 | 2 21 | 10 15.45 | +4 40.6 | 2.265 | 3.249 | 1.9 | 20.9 |
| 3 2 | 10 7.11 | +6 9.1 | 2.235 | 3.213 | 3.4 | 20.3 | 3 2 | 10 8.06 | +5 37.7 | 2.291 | 3.269 | 3.3 | 21.0 |
| 3 12 | 9 59.47 | +6 32.5 | 2.269 | 3.210 | 6.8 | 20.5 | 3 12 | 10 1.46 | +6 33.7 | 2.347 | 3.289 | 6.5 | 21.2 |
| 3 22 | 9 53.21 | +6 52.6 | 2.331 | 3.206 | 10.0 | 20.7 | 3 22 | 9 56.24 | +7 24.3 | 2.430 | 3.308 | 9.5 | 21.5 |
| 4 1 | 9 48.84 | +7 6.7 | 2.415 | 3.203 | 12.7 | 20.9 | 4 1 | 9 52.80 | +8 6.3 | 2.536 | 3.328 | 12.1 | 21.7 |
| 459162 | 2012 DY ₁₁ | | 2 21.3 23°13 | 9°8/19.4 | 18 | | 491837 | 2013 AA ₄₅ | | 2 21.3 145°93 | 2°9/18.7 | 18 | |
| 1 22 | 11 6.93 | +35 23.5 | 1.211 | 2.057 | 18.3 | 20.4 | 1 22 | 10 40.66 | +14 54.1 | 1.716 | 2.582 | 12.8 | 21.6 |
| 2 1 | 10 52.82 | +34 47.8 | 1.161 | 2.067 | 14.4 | 20.2 | 2 1 | 10 34.11 | +16 18.0 | 1.660 | 2.592 | 8.8 | 21.4 |
| 2 11 | 10 34.99 | +33 42.8 | 1.136 | 2.078 | 11.0 | 20.0 | 2 11 | 10 25.43 | +17 47.8 | 1.630 | 2.602 | 4.7 | 21.1 |
| 2 21 | 10 15.75 | +32 0.3 | 1.137 | 2.090 | 9.8 | 20.0 | 2 21 | 10 15.52 | +19 14.6 | 1.629 | 2.611 | 3.1 | 21.1 |
| 3 2 | 9 57.75 | +29 41.8 | 1.167 | 2.103 | 11.9 | 20.2 | 3 2 | 10 5.59 | +20 29.3 | 1.657 | 2.619 | 6.5 | 21.3 |
| 3 12 | 9 43.19 | +26 57.9 | 1.224 | 2.118 | 15.5 | 20.4 | 3 12 | 9 56.84 | +21 25.9 | 1.712 | 2.627 | 10.5 | 21.5 |
| 3 22 | 9 33.08 | +24 2.7 | 1.305 | 2.133 | 19.1 | 20.7 | 3 22 | 9 50.18 | +22 1.7 | 1.792 | 2.634 | 14.1 | 21.8 |
| 4 1 | 9 27.56 | +21 7.1 | 1.405 | 2.149 | 22.1 | 21.0 | 4 1 | 9 46.16 | +22 17.0 | 1.891 | 2.640 | 17.0 | 22.0 |
| 143305 | 2003 AD ₄₁ | | 2 21.3 80°43 | 2°0/23.0 | 18 | | 433330 | 2013 QU ₈₅ | | 2 21.3 23°08 | 3°0/20.8 | 17 | |
| 1 22 | 10 38.45 | +2 26.4 | 1.735 | 2.572 | 14.1 | 19.9 | 1 22 | 11 1.19 | +20 43.7 | 0.880 | 1.756 | 20.8 | 20.0 |
| 2 1 | 10 32.34 | +3 1.1 | 1.685 | 2.597 | 10.2 | 19.8 | 2 1 | 10 49.93 | +19 30.2 | 0.825 | 1.759 | 14.9 | 19.6 |
| 2 11 | 10 24.39 | +3 52.2 | 1.659 | 2.622 | 6.0 | 19.6 | 2 11 | 10 34.10 | +18 4.4 | 0.790 | 1.762 | 8.1 | 19.3 |
| 2 21 | 10 15.48 | +4 54.7 | 1.661 | 2.646 | 2.2 | 19.4 | 2 21 | 10 15.76 | +16 21.9 | 0.780 | 1.767 | 3.0 | 19.0 |
| 3 2 | 10 6.69 | +6 1.6 | 1.692 | 2.671 | 4.2 | 19.6 | 3 2 | 9 57.82 | +14 24.3 | 0.796 | 1.771 | 8.4 | 19.3 |
| 3 12 | 9 59.06 | +7 5.9 | 1.751 | 2.695 | 8.2 | 19.8 | 3 12 | 9 43.05 | +12 18.3 | 0.836 | 1.777 | 15.1 | 19.7 |
| 3 22 | 9 53.35 | +8 1.8 | 1.835 | 2.719 | 11.9 | 20.1 | 3 22 | 9 32.99 | +10 12.1 | 0.898 | 1.783 | 20.8 | 20.0 |
| 4 1 | 9 50.03 | +8 45.7 | 1.942 | 2.742 | 14.9 | 20.4 | 4 1 | 9 28.08 | +8 10.3 | 0.975 | 1.790 | 25.3 | 20.4 |
| 316840 | 2000 DB ₁₂ | | 2 21.3 162°18 | 3°3/18.5 | 18 | | 8605 | 1968 OH | | 2 21.3 195°63 | 4°8/25.9 | 18 | |
| 1 22 | 10 42.56 | +19 49.6 | 2.109 | 2.970 | 11.0 | 20.9 | 1 22 | 10 37.32 | -5 59.3 | 2.382 | 3.166 | 12.4 | 18.6 |
| 2 1 | 10 35.12 | +20 25.7 | 2.047 | 2.975 | 7.7 | 20.7 | 2 1 | 10 31.41 | -6 8.6 | 2.295 | 3.164 | 9.9 | 18.4 |
| 2 11 | 10 25.83 | +21 0.8 | 2.013 | 2.980 | 4.5 | 20.5 | 2 11 | 10 23.93 | -6 0.5 | 2.233 | 3.161 | 7.2 | 18.3 |
| 2 21 | 10 15.53 | +21 29.1 | 2.007 | 2.985 | 3.5 | 20.4 | 2 21 | 10 15.49 | -5 35.7 | 2.197 | 3.158 | 5.1 | 18.1 |
| 3 2 | 10 5.24 | +21 45.8 | 2.032 | 2.989 | 6.0 | 20.6 | 3 2 | 10 6.88 | -4 56.9 | 2.192 | 3.154 | 5.1 | 18.1 |
| 3 12 | 9 56.01 | +21 48.1 | 2.085 | 2.992 | 9.3 | 20.8 | 3 12 | 9 58.96 | -4 8.6 | 2.215 | 3.150 | 7.3 | 18.2 |
| 3 22 | 9 48.65 | +21 35.7 | 2.163 | 2.995 | 12.4 | 21.0 | 3 22 | 9 52.43 | -3 16.2 | 2.265 | 3.145 | 10.0 | 18.4 |
| 4 1 | 9 43.64 | +21 9.8 | 2.263 | 2.997 | 15.0 | 21.2 | 4 1 | 9 47.80 | -2 24.8 | 2.339 | 3.140 | 12.7 | 18.6 |
| 332183 | Jaroussky | | 2 21.3 164°50 | 0°3/20.9 | 18 | | 100015 | 1989 SR ₇ | | 2 21.3 137°32 | 2°0/23.0 | 18 | |
| 1 22 | 10 35.83 | +9 2.9 | 2.485 | 3.332 | 10.0 | 21.2 | 1 22 | 10 40.79 | +2 41.5 | 2.084 | 2.909 | 12.5 | 20.4 |
| 2 1 | 10 30.26 | +9 56.7 | 2.414 | 3.337 | 7.0 | 21.0 | 2 1 | 10 33.82 | +3 4.5 | 2.020 | 2.926 | 9.1 | 20.2 |
| 2 11 | 10 23.27 | +10 58.8 | 2.371 | 3.342 | 3.6 | 20.8 | 2 11 | 10 25.14 | +3 41.2 | 1.982 | 2.942 | 5.4 | 20.0 |
| 2 21 | 10 15.46 | +12 4.4 | 2.357 | 3.346 | 0.4 | 20.6 | 2 21 | 10 15.53 | +4 28.0 | 1.973 | 2.957 | 2.2 | 19.8 |
| 3 2 | 10 7.58 | +13 8.3 | 2.375 | 3.350 | 3.7 | 20.8 | 3 2 | 10 5.92 | +5 19.7 | 1.994 | 2.972 | 3.9 | 19.9 |
| 3 12 | 10 0.41 | +14 5.5 | 2.422 | 3.353 | 7.0 | 21.1 | 3 12 | 9 57.29 | +6 10.6 | 2.045 | 2.985 | 7.5 | 20.2 |
| 3 22 | 9 54.57 | +14 52.5 | 2.497 | 3.355 | 10.0 | 21.3 | 3 22 | 9 50.37 | +6 56.2 | 2.123 | 2.997 | 10.9 | 20.4 |
| 4 1 | 9 50.52 | +15 27.3 | 2.595 | 3.357 | 12.6 | 21.4 | 4 1 | 9 45.64 | +7 33.0 | 2.224 | 3.009 | 13.7 | 20.6 |
| 343056 | 2009 CW ₁₄ | | 2 21.3 7°95 | 1°6/20.2 | 18 | | 366877 | 2005 ST ₂₁₈ | | 2 21.3 189°50 | 1°2/22.6 | 17 | |
| 1 22 | 10 38.19 | +14 39.3 | 1.600 | 2.472 | 13.2 | 19.7 | 1 22 | 10 37.99 | +4 37.1 | 2.627 | 3.453 | 10.2 | 22.2 |
| 2 1 | 10 32.44 | +14 44.4 | 1.539 | 2.474 | 9.2 | 19.4 | 2 1 | 10 31.73 | +5 0.7 | 2.544 | 3.452 | 7.4 | 22.1 |
| 2 11 | 10 24.56 | +14 53.5 | 1.503 | 2.477 | 4.7 | 19.2 | 2 11 | 10 24.04 | +5 34.4 | 2.487 | 3.450 | 4.2 | 21.8 |
| 2 21 | 10 15.49 | +15 1.4 | 1.494 | 2.481 | 1.6 | 19.0 | 2 21 | 10 15.50 | +6 15.3 | 2.461 | 3.447 | 1.3 | 21.6 |
| 3 2 | 10 6.44 | +15 3.4 | 1.512 | 2.486 | 5.4 | 19.2 | 3 2 | 10 6.85 | +6 59.4 | 2.466 | 3.444 | 3.2 | 21.8 |
| 3 12 | 9 58.61 | +14 55.9 | 1.557 | 2.492 | 9.7 | 19.5 | 3 12 | 9 58.84 | +7 42.4 | 2.502 | 3.439 | 6.5 | 22.0 |
| 3 22 | 9 52.89 | +14 37.5 | 1.625 | 2.499 | 13.6 | 19.7 | 3 22 | 9 52.13 | +8 20.7 | 2.565 | 3.434 | 9.5 | 22.1 |
| 4 1 | 9 49.82 | +14 8.2 | 1.713 | 2.507 | 16.8 | 20.0 | 4 1 | 9 47.18 | +8 51.6 | 2.653 | 3.427 | 12.0 | 22.3 |
| 433604 | 2013 YX ₇₁ | | 2 21.3 148°33 | 3°3/24.5 | 17 | | 133287 | 2003 SO ₂₆ | | 2 21.3 185°25 | 0°1/21.2 | 18 | |
| 1 22 | 10 36.52 | -1 11.5 | 2.335 | 3.145 | 11.8 | 21.5 | 1 22 | 10 39.39 | +8 23.7 | 1.997 | 2.845 | 12.0 | 21.3 |
| 2 1 | | | | | | | | | | | | | |

EPHEMERIDES

2 21.3

2 21.3

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 247446 | 2002 <i>FL</i> ₁₃ | | 2 21.3 305°64 | 2°2/22.9 | 18 | | 23180 | Ryosuke | | 2 21.3 202°40 | 3°7/24.5 | 18 | |
| 1 22 | 10 35.14 | + 2 1.7 | 1.414 | 2.266 | 15.8 | 20.1 | 1 22 | 10 37.52 | - 2 13.3 | 1.723 | 2.544 | 14.9 | 18.4 |
| 2 1 | 10 30.73 | + 2 47.9 | 1.333 | 2.253 | 11.7 | 19.8 | 2 1 | 10 32.02 | - 1 39.5 | 1.643 | 2.541 | 11.4 | 18.2 |
| 2 11 | 10 23.91 | + 3 58.3 | 1.275 | 2.241 | 6.9 | 19.5 | 2 11 | 10 24.43 | - 0 42.5 | 1.586 | 2.538 | 7.4 | 18.0 |
| 2 21 | 10 15.50 | + 5 27.4 | 1.242 | 2.228 | 2.4 | 19.2 | 2 21 | 10 15.56 | + 0 34.0 | 1.556 | 2.535 | 4.0 | 17.7 |
| 3 2 | 10 6.74 | + 7 6.3 | 1.236 | 2.216 | 5.0 | 19.3 | 3 2 | 10 6.46 | + 2 3.4 | 1.554 | 2.531 | 4.9 | 17.8 |
| 3 12 | 9 59.01 | + 8 43.8 | 1.256 | 2.205 | 10.2 | 19.6 | 3 12 | 9 58.31 | + 3 36.8 | 1.580 | 2.526 | 8.7 | 18.0 |
| 3 22 | 9 53.45 | +10 10.3 | 1.299 | 2.194 | 15.0 | 19.8 | 3 22 | 9 52.03 | + 5 5.5 | 1.632 | 2.521 | 12.7 | 18.2 |
| 4 1 | 9 50.81 | +11 19.0 | 1.363 | 2.183 | 19.0 | 20.0 | 4 1 | 9 48.27 | + 6 22.8 | 1.706 | 2.516 | 16.2 | 18.4 |
| 433730 | 2015 <i>AP</i> ₁₃₂ | | 2 21.3 180°83 | 2°3/18.9 | 17 | | 205345 | 2000 <i>WC</i> ₂₆ | | 2 21.3 126°14 | 0°5/21.7 | 18 | |
| 1 22 | 10 36.68 | +15 24.3 | 2.165 | 3.028 | 10.6 | 20.8 | 1 22 | 10 40.80 | + 7 4.1 | 1.864 | 2.708 | 12.9 | 21.0 |
| 2 1 | 10 31.06 | +16 24.8 | 2.097 | 3.029 | 7.3 | 20.5 | 2 1 | 10 33.99 | + 7 39.2 | 1.805 | 2.725 | 9.1 | 20.8 |
| 2 11 | 10 23.77 | +17 29.7 | 2.057 | 3.029 | 3.9 | 20.3 | 2 11 | 10 25.29 | + 8 25.6 | 1.772 | 2.741 | 4.9 | 20.5 |
| 2 21 | 10 15.49 | +18 32.6 | 2.046 | 3.029 | 2.5 | 20.2 | 2 21 | 10 15.58 | + 9 18.3 | 1.768 | 2.757 | 0.6 | 20.3 |
| 3 2 | 10 7.13 | +19 27.6 | 2.065 | 3.029 | 5.3 | 20.4 | 3 2 | 10 5.91 | +10 10.9 | 1.794 | 2.771 | 4.2 | 20.6 |
| 3 12 | 9 59.61 | +20 9.7 | 2.113 | 3.029 | 8.7 | 20.6 | 3 12 | 9 57.33 | +10 57.7 | 1.848 | 2.785 | 8.3 | 20.8 |
| 3 22 | 9 53.67 | +20 36.8 | 2.185 | 3.028 | 11.9 | 20.8 | 3 22 | 9 50.66 | +11 34.5 | 1.928 | 2.799 | 12.0 | 21.1 |
| 4 1 | 9 49.81 | +20 48.1 | 2.278 | 3.027 | 14.5 | 21.0 | 4 1 | 9 46.38 | +11 59.2 | 2.030 | 2.811 | 15.0 | 21.3 |
| 169610 | 2002 <i>GH</i> ₁₀₈ | | 2 21.3 239°07 | 3°2/18.5 | 18 | | 500326 | 2012 <i>SW</i> ₇ | | 2 21.3 169°50 | 1°5/19.8 | 17 | |
| 1 22 | 10 38.81 | +15 49.7 | 1.703 | 2.573 | 12.6 | 20.3 | 1 22 | 10 38.20 | +15 2.5 | 2.522 | 3.377 | 9.6 | 22.0 |
| 2 1 | 10 33.02 | +17 4.3 | 1.630 | 2.564 | 8.8 | 20.0 | 2 1 | 10 31.89 | +15 27.8 | 2.452 | 3.380 | 6.6 | 21.8 |
| 2 11 | 10 24.98 | +18 25.5 | 1.583 | 2.555 | 4.8 | 19.7 | 2 11 | 10 24.13 | +15 55.8 | 2.411 | 3.382 | 3.4 | 21.6 |
| 2 21 | 10 15.54 | +19 44.6 | 1.564 | 2.546 | 3.4 | 19.6 | 2 21 | 10 15.55 | +16 22.3 | 2.399 | 3.384 | 1.6 | 21.5 |
| 3 2 | 10 5.86 | +20 52.8 | 1.574 | 2.536 | 6.8 | 19.8 | 3 2 | 10 6.94 | +16 43.6 | 2.418 | 3.386 | 4.2 | 21.6 |
| 3 12 | 9 57.21 | +21 43.3 | 1.610 | 2.526 | 11.0 | 20.0 | 3 12 | 9 59.10 | +16 56.5 | 2.466 | 3.387 | 7.4 | 21.8 |
| 3 22 | 9 50.59 | +22 13.2 | 1.670 | 2.515 | 14.8 | 20.2 | 3 22 | 9 52.67 | +16 59.4 | 2.541 | 3.388 | 10.2 | 22.0 |
| 4 1 | 9 46.67 | +22 22.3 | 1.748 | 2.505 | 18.0 | 20.4 | 4 1 | 9 48.10 | +16 52.1 | 2.638 | 3.389 | 12.7 | 22.2 |
| 58572 | Romanella | | 2 21.3 272°16 | 0°4/21.5 | 18 | | 463557 | 2013 <i>RG</i> ₅₈ | | 2 21.3 84°31 | 2°4/23.4 | 18 | |
| 1 22 | 10 41.98 | + 9 2.6 | 1.449 | 2.309 | 15.0 | 18.7 | 1 22 | 10 35.89 | + 1 41.2 | 1.878 | 2.712 | 13.3 | 21.7 |
| 2 1 | 10 35.47 | + 9 7.7 | 1.374 | 2.302 | 10.7 | 18.4 | 2 1 | 10 30.69 | + 2 5.6 | 1.804 | 2.713 | 9.8 | 21.5 |
| 2 11 | 10 26.34 | + 9 24.1 | 1.323 | 2.294 | 5.7 | 18.1 | 2 11 | 10 23.66 | + 2 46.6 | 1.754 | 2.714 | 6.0 | 21.3 |
| 2 21 | 10 15.58 | + 9 47.1 | 1.297 | 2.286 | 0.5 | 17.7 | 2 21 | 10 15.54 | + 3 40.7 | 1.731 | 2.715 | 2.6 | 21.0 |
| 3 2 | 10 4.56 | +10 10.7 | 1.300 | 2.278 | 5.2 | 18.0 | 3 2 | 10 7.29 | + 4 42.3 | 1.737 | 2.716 | 4.1 | 21.1 |
| 3 12 | 9 54.79 | +10 29.0 | 1.328 | 2.270 | 10.4 | 18.3 | 3 12 | 9 59.94 | + 5 44.6 | 1.772 | 2.717 | 8.0 | 21.4 |
| 3 22 | 9 47.40 | +10 38.0 | 1.380 | 2.262 | 15.1 | 18.5 | 3 22 | 9 54.29 | + 6 41.6 | 1.831 | 2.718 | 11.7 | 21.6 |
| 4 1 | 9 43.12 | +10 35.4 | 1.452 | 2.255 | 18.9 | 18.7 | 4 1 | 9 50.89 | + 7 28.8 | 1.913 | 2.719 | 14.9 | 21.8 |
| 16054 | 1999 <i>JP</i> ₅₅ | | 2 21.3 146°55 | 2°4/18.4 | 18 R | | 228732 | 2002 <i>TQ</i> ₁₃₂ | | 2 21.3 254°58 | 2°8/23.2 | 18 | |
| 1 22 | 10 34.99 | +17 6.1 | 2.664 | 3.526 | 8.9 | 18.4 | 1 22 | 10 40.66 | + 2 17.3 | 1.523 | 2.363 | 15.5 | 20.9 |
| 2 1 | 10 29.62 | +18 5.3 | 2.603 | 3.533 | 6.1 | 18.2 | 2 1 | 10 34.60 | + 2 27.6 | 1.434 | 2.347 | 11.6 | 20.6 |
| 2 11 | 10 22.93 | +19 6.4 | 2.569 | 3.540 | 3.4 | 18.0 | 2 11 | 10 25.97 | + 2 57.5 | 1.368 | 2.330 | 7.1 | 20.3 |
| 2 21 | 10 15.49 | +20 4.3 | 2.566 | 3.546 | 2.5 | 18.0 | 2 21 | 10 15.61 | + 3 43.7 | 1.329 | 2.313 | 3.1 | 20.0 |
| 3 2 | 10 8.01 | +20 54.4 | 2.593 | 3.552 | 4.8 | 18.1 | 3 2 | 10 4.78 | + 4 40.5 | 1.317 | 2.295 | 5.2 | 20.1 |
| 3 12 | 9 51.22 | +21 32.9 | 2.650 | 3.557 | 7.6 | 18.3 | 3 12 | 9 54.93 | + 5 39.8 | 1.331 | 2.277 | 10.1 | 20.4 |
| 3 22 | 9 55.71 | +21 58.2 | 2.732 | 3.562 | 10.1 | 18.5 | 3 22 | 9 47.26 | + 6 34.1 | 1.370 | 2.258 | 14.8 | 20.6 |
| 4 1 | 9 51.91 | +22 9.9 | 2.836 | 3.567 | 12.3 | 18.7 | 4 1 | 9 42.59 | + 7 17.6 | 1.429 | 2.239 | 18.8 | 20.8 |
| 67856 | 2000 <i>WL</i> ₁₅ | | 2 21.3 146°34 | 4°8/25.5 | 18 | | 209447 | 2004 <i>FQ</i> ₁₃₆ | | 2 21.3 277°07 | 4°7/16.4 | 17 | |
| 1 22 | 10 41.41 | - 5 0.8 | 2.170 | 2.957 | 13.4 | 19.2 | 1 22 | 10 37.70 | +24 34.7 | 2.330 | 3.197 | 9.8 | 20.6 |
| 2 1 | 10 34.27 | - 5 13.1 | 2.098 | 2.971 | 10.5 | 19.0 | 2 1 | 10 31.82 | +25 28.2 | 2.256 | 3.182 | 7.2 | 20.4 |
| 2 11 | 10 25.41 | - 5 7.3 | 2.050 | 2.983 | 7.5 | 18.9 | 2 11 | 10 24.21 | +26 18.6 | 2.209 | 3.168 | 5.1 | 20.3 |
| 2 21 | 10 15.56 | - 4 44.5 | 2.031 | 2.995 | 5.1 | 18.7 | 2 21 | 10 15.56 | +26 59.6 | 2.191 | 3.153 | 5.0 | 20.2 |
| 3 2 | 10 5.66 | - 4 7.6 | 2.041 | 3.006 | 5.3 | 18.8 | 3 2 | 10 6.75 | +27 26.2 | 2.201 | 3.138 | 7.1 | 20.3 |
| 3 12 | 9 56.66 | - 3 22.0 | 2.081 | 3.016 | 7.7 | 18.9 | 3 12 | 9 58.76 | +27 35.2 | 2.239 | 3.123 | 9.8 | 20.5 |
| 3 22 | 9 49.32 | - 2 33.2 | 2.148 | 3.025 | 10.7 | 19.1 | 3 22 | 9 52.35 | +27 26.3 | 2.300 | 3.108 | 12.5 | 20.6 |
| 4 1 | 9 44.15 | - 1 46.6 | 2.238 | 3.033 | 13.4 | 19.3 | 4 1 | 9 48.07 | +27 0.8 | 2.382 | 3.093 | 14.9 | 20.8 |
| 298947 | 2004 <i>TD</i> ₂₉₅ | | 2 21.3 85°20 | 0°1/21.2 | 18 | | 96173 | 1981 <i>ED</i> ₃₆ | | 2 21.3 206°11 | 0°1/21.4 | 18 | |
| 1 22 | 10 42.21 | + 8 55.2 | 1.493 | 2.351 | 14.8 | 20.8 | 1 22 | 10 41.69 | + 9 10.0 | 1.766 | 2.617 | 13.2 | 19.5 |
| 2 1 | 10 35.17 | + 9 30.1 | 1.448 | 2.375 | 10.3 | 20.5 | 2 1 | 10 34.89 | + 9 28.7 | 1.690 | 2.614 | 9.3 | 19.2 |
| 2 11 | 10 25.94 | +10 16.1 | 1.427 | 2.399 | 5.3 | 20.3 | 2 11 | 10 25.91 | + 9 57.4 | 1.639 | 2.609 | 4.9 | 19.0 |
| 2 21 | 10 15.58 | +11 6.6 | 1.433 | 2.422 | 0.2 | 20.0 | 2 21 | 10 15.61 | +10 31.2 | 1.616 | 2.605 | 0.2 | 18.6 |
| 3 2 | 10 5.42 | +11 54.2 | 1.468 | 2.445 | 5.0 | 20.4 | 3 2 | 10 5.13 | +11 4.6 | 1.622 | 2.599 | 4.6 | 18.9 |
| 3 12 | 9 56.72 | +12 32.8 | 1.530 | 2.468 | 9.7 | 20.7 | 3 12 | 9 55.70 | +11 32.2 | 1.657 | 2.594 | 9.2 | 19.2 |
| 3 22 | 9 50.37 | +12 58.6 | 1.616 | 2.490 | 13.7 | 21.0 | 3 22 | 9 48.27 | +11 50.2 | 1.716 | 2.587 | 13.2 | 19.4 |
| 4 1 | 9 46.83 | +13 10.3 | 1.722 | 2.512 | 16.9 | 21.3 | 4 1 | 9 43.47 | +11 56.8 | 1.797 | 2.581 | 16.6 | 19.6 |
| 422921 | 2002 <i>TA</i> ₁₀₇ | | 2 21.3 113°79 | 0°6/21.9 | 18 | | 169261 | 2001 <i>SN</i> ₁₇₀ | | 2 21.3 61°63 | 0°9/20.6 | 18 | |
| 1 22 | 10 36.11 | + 6 46.2 | 2.455 | 3.295 | 10.4 | 21.8 | 1 22 | 10 40.03 | +13 24.2 | 2.122 | 2.977 | 11.1 | 19.6 |
| 2 1 | 10 30.40 | + 7 17.5 | 2.394 | 3.311 | 7.3 | 21.6 | 2 1 | 10 33.32 | +13 27.6 | 2.057 | 2.984 | 7.7 | 19.4 |
| 2 11 | 10 23.32 | + 7 57.7 | 2.359 | 3.327 | 3.9 | 21.4 | 2 11 | 10 24.92 | +13 34.7 | 2.019 | 2.991 | 4.0 | 19.2 |
| 2 21 | 10 15.51 | + 8 43.1 | 2.353 | 3.342 | 0.7 | 21.2 | 2 21 | 10 15.59 | +13 41.7 | 2.010 | 2.998 | 0.9 | 18.9 |
| 3 2 | 10 7.71 | + 9 29.1 | 2.379 | 3.357 | 3.3 | 21.4 | 3 2 | 10 6.29 | +13 45.0 | 2.031 | 3.005 | 4.3 | 19.2 |
| 3 12 | 10 0.68 | +10 11.5 | 2.434 | 3.371 | 6.6 | 21.7 | 3 12 | 9 57.96 | +13 41.8 | 2.081 | 3.012 | 7.9 | 19.4 |
| 3 22 | 9 55.02 | +10 46.9 | 2.516 | 3.385 | 9.6 | 21.9 | 3 22 | 9 51.34 | +13 30.5 | 2.157 | 3.020 | 11.2 | 19.7 |
| 4 1 | 9 51.13 | +11 13.2 | 2.622 | 3.399 | 12.1 | 22.1 | 4 1 | 9 46.90 | +13 10.8 | 2.256 | 3.027 | 14.0 | 19.9 |
| 498056 | 2007 <i>RT</i> ₅₃ | | 2 21.3 115°66 | 0°4/21.7 | 18 | | 83910 | 2001 <i>UA</i> ₂₁₀ | | 2 21.3 36°65 | 6°8/13.3 | 18 | |
| 1 22 | 10 37.52 | + 8 14. | | | | | | | | | | | |

EPHEMERIDES

2 21.3

2 21.3

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 492503 | 2014 <i>OK</i> ₄ | | 2 21.3 223°65 | 1°8/19.7 | 17 | | 49249 | 1998 <i>TV</i> ₁₃ | | 2 21.3 151°80 | 0°8/22.0 | 18 | |
| 1 22 | 10 39.94 | +12 38.9 | 1.863 | 2.723 | 12.2 | 22.8 | 1 22 | 10 38.56 | +6 4.1 | 2.039 | 2.880 | 12.1 | 19.9 |
| 2 1 | 10 33.69 | +13 39.7 | 1.783 | 2.713 | 8.5 | 22.5 | 2 1 | 10 32.41 | +6 38.9 | 1.970 | 2.887 | 8.6 | 19.7 |
| 2 11 | 10 25.32 | +14 49.3 | 1.729 | 2.702 | 4.4 | 22.2 | 2 11 | 10 24.52 | +7 25.4 | 1.927 | 2.895 | 4.7 | 19.4 |
| 2 21 | 10 15.61 | +16 0.7 | 1.704 | 2.690 | 1.9 | 22.0 | 2 21 | 10 15.63 | +8 19.2 | 1.913 | 2.901 | 0.9 | 19.2 |
| 3 2 | 10 5.64 | +17 6.1 | 1.708 | 2.678 | 5.5 | 22.2 | 3 2 | 10 6.69 | +9 14.6 | 1.929 | 2.907 | 3.9 | 19.4 |
| 3 12 | 9 56.58 | +17 59.1 | 1.741 | 2.665 | 9.7 | 22.5 | 3 12 | 9 58.65 | +10 5.8 | 1.975 | 2.913 | 7.8 | 19.7 |
| 3 22 | 9 49.38 | +18 35.9 | 1.798 | 2.651 | 13.6 | 22.7 | 3 22 | 9 52.28 | +10 48.6 | 2.046 | 2.918 | 11.3 | 19.9 |
| 4 1 | 9 44.71 | +18 55.2 | 1.876 | 2.637 | 16.8 | 22.9 | 4 1 | 9 48.10 | +11 20.1 | 2.140 | 2.923 | 14.3 | 20.1 |
| 381661 | 2009 <i>BG</i> ₆ | | 2 21.3 47°54 | 2°6/18.6 | 18 | | 66808 | 1999 <i>TU</i> ₂₈₈ | | 2 21.3 171°30 | 1°8/19.5 | 18 | |
| 1 22 | 10 34.33 | +14 13.7 | 1.860 | 2.732 | 11.6 | 20.4 | 1 22 | 10 36.82 | +13 49.9 | 2.078 | 2.941 | 11.0 | 19.8 |
| 2 1 | 10 29.56 | +15 41.5 | 1.810 | 2.745 | 8.0 | 20.2 | 2 1 | 10 31.23 | +14 42.2 | 2.011 | 2.942 | 7.6 | 19.6 |
| 2 11 | 10 23.03 | +17 15.1 | 1.786 | 2.759 | 4.2 | 20.0 | 2 11 | 10 23.92 | +15 40.1 | 1.970 | 2.943 | 3.9 | 19.4 |
| 2 21 | 10 15.54 | +18 46.4 | 1.791 | 2.774 | 2.8 | 20.0 | 2 21 | 10 15.62 | +16 37.6 | 1.958 | 2.943 | 1.9 | 19.2 |
| 3 2 | 10 8.05 | +20 7.2 | 1.825 | 2.788 | 5.9 | 20.2 | 3 2 | 10 7.22 | +17 28.8 | 1.976 | 2.944 | 5.0 | 19.4 |
| 3 12 | 10 1.54 | +21 11.6 | 1.886 | 2.803 | 9.5 | 20.4 | 3 12 | 9 59.71 | +18 8.6 | 2.021 | 2.945 | 8.6 | 19.7 |
| 3 22 | 9 56.77 | +21 56.6 | 1.971 | 2.818 | 12.8 | 20.7 | 3 22 | 9 53.81 | +18 34.4 | 2.092 | 2.945 | 11.9 | 19.9 |
| 4 1 | 9 54.21 | +22 21.8 | 2.077 | 2.834 | 15.4 | 20.9 | 4 1 | 9 50.07 | +18 45.4 | 2.184 | 2.945 | 14.7 | 20.1 |
| 91060 | 1998 <i>FS</i> ₅₁ | | 2 21.3 207°63 | 0°0/21.3 | 18 | | 503190 | 2015 <i>HE</i> ₄ | | 2 21.3 218°72 | 3°8/24.9 | 17 | |
| 1 22 | 10 35.87 | +7 38.3 | 1.955 | 2.807 | 12.1 | 19.7 | 1 22 | 10 35.68 | -2 33.0 | 2.316 | 3.122 | 12.1 | 21.1 |
| 2 1 | 10 30.65 | +8 28.8 | 1.882 | 2.806 | 8.5 | 19.5 | 2 1 | 10 30.32 | -2 38.3 | 2.233 | 3.120 | 9.3 | 20.9 |
| 2 11 | 10 23.64 | +9 31.4 | 1.834 | 2.804 | 4.5 | 19.2 | 2 11 | 10 23.42 | -2 28.1 | 2.176 | 3.119 | 6.4 | 20.7 |
| 2 21 | 10 15.56 | +10 40.6 | 1.814 | 2.803 | 0.1 | 18.9 | 2 21 | 10 15.61 | -2 3.8 | 2.146 | 3.118 | 4.1 | 20.6 |
| 3 2 | 10 7.35 | +11 49.6 | 1.824 | 2.801 | 4.2 | 19.2 | 3 2 | 10 7.66 | -1 28.3 | 2.146 | 3.116 | 4.4 | 20.6 |
| 3 12 | 10 0.00 | +12 51.9 | 1.862 | 2.799 | 8.3 | 19.5 | 3 12 | 10 0.42 | -0 46.4 | 2.174 | 3.115 | 7.0 | 20.8 |
| 3 22 | 9 54.30 | +13 42.7 | 1.926 | 2.797 | 12.0 | 19.7 | 3 22 | 9 54.56 | -0 2.8 | 2.228 | 3.113 | 10.0 | 21.0 |
| 4 1 | 9 50.79 | +14 19.3 | 2.011 | 2.795 | 15.0 | 19.9 | 4 1 | 9 50.58 | +0 37.9 | 2.307 | 3.112 | 12.7 | 21.1 |
| 102296 | 1999 <i>TF</i> ₈₃ | | 2 21.3 359°06 | 1°4/22.4 | 18 | | 433151 | 2012 <i>TV</i> ₂₄₁ | | 2 21.3 159°73 | 3°9/25.8 | 18 | |
| 1 22 | 10 36.21 | +4 25.8 | 1.414 | 2.272 | 15.5 | 19.5 | 1 22 | 10 33.44 | -5 7.9 | 2.359 | 3.155 | 12.2 | 21.0 |
| 2 1 | 10 31.37 | +5 3.8 | 1.347 | 2.271 | 11.2 | 19.2 | 2 1 | 10 28.73 | -4 41.2 | 2.277 | 3.156 | 9.5 | 20.8 |
| 2 11 | 10 24.19 | +6 1.2 | 1.302 | 2.270 | 6.3 | 18.9 | 2 11 | 10 22.58 | -3 55.7 | 2.219 | 3.157 | 6.6 | 20.6 |
| 2 21 | 10 15.58 | +7 12.0 | 1.282 | 2.270 | 1.6 | 18.6 | 2 21 | 10 15.58 | -2 53.9 | 2.189 | 3.158 | 4.3 | 20.5 |
| 3 2 | 10 6.80 | +8 27.7 | 1.290 | 2.270 | 4.9 | 18.8 | 3 2 | 10 8.48 | -1 40.1 | 2.188 | 3.159 | 4.4 | 20.5 |
| 3 12 | 9 59.20 | +9 39.0 | 1.323 | 2.270 | 9.9 | 19.1 | 3 12 | 10 2.05 | -0 20.1 | 2.217 | 3.160 | 6.8 | 20.6 |
| 3 22 | 9 53.81 | +10 38.7 | 1.380 | 2.271 | 14.5 | 19.4 | 3 22 | 9 56.93 | +0 59.7 | 2.273 | 3.161 | 9.7 | 20.8 |
| 4 1 | 9 51.25 | +11 22.0 | 1.456 | 2.272 | 18.2 | 19.6 | 4 1 | 9 53.60 | +2 13.8 | 2.353 | 3.161 | 12.4 | 21.0 |
| 409961 | 2006 <i>UA</i> ₂₇₇ | | 2 21.3 129°83 | 6°5/27.4 | 18 | | 5539 | <i>Limporyn</i> | | 2 21.3 76°25 | 0°8/21.8 | 18 | |
| 1 22 | 10 36.60 | -9 57.0 | 1.870 | 2.648 | 15.6 | 21.5 | 1 22 | 10 40.35 | +6 55.2 | 1.496 | 2.351 | 14.9 | 17.4 |
| 2 1 | 10 31.21 | -9 51.5 | 1.795 | 2.655 | 12.6 | 21.3 | 2 1 | 10 33.98 | +7 21.4 | 1.444 | 2.369 | 10.6 | 17.1 |
| 2 11 | 10 23.95 | -9 19.9 | 1.743 | 2.662 | 9.5 | 21.2 | 2 11 | 10 25.42 | +8 1.2 | 1.417 | 2.386 | 5.7 | 16.9 |
| 2 21 | 10 15.59 | -8 23.2 | 1.716 | 2.669 | 7.0 | 21.0 | 2 21 | 10 15.67 | +8 48.8 | 1.416 | 2.404 | 0.9 | 16.6 |
| 3 2 | 10 7.11 | -7 5.9 | 1.716 | 2.675 | 6.6 | 21.0 | 3 2 | 10 6.02 | +9 37.1 | 1.443 | 2.422 | 4.7 | 16.9 |
| 3 12 | 9 59.56 | -5 35.6 | 1.743 | 2.681 | 8.7 | 21.1 | 3 12 | 9 57.72 | +10 19.4 | 1.496 | 2.439 | 9.4 | 17.2 |
| 3 22 | 9 53.75 | -4 1.0 | 1.797 | 2.687 | 11.7 | 21.3 | 3 22 | 9 51.68 | +10 51.1 | 1.574 | 2.456 | 13.5 | 17.5 |
| 4 1 | 9 50.26 | -2 30.4 | 1.873 | 2.693 | 14.6 | 21.5 | 4 1 | 9 48.40 | +11 9.7 | 1.672 | 2.473 | 16.9 | 17.8 |
| 498101 | 2007 <i>RW</i> ₂₉₂ | | 2 21.3 123°21 | 0°3/21.6 | 17 | | 266831 | 2009 <i>UW</i> ₃ | | 2 21.3 161°44 | 0°1/21.2 | 18 | |
| 1 22 | 10 35.62 | +7 45.3 | 2.511 | 3.354 | 10.1 | 22.1 | 1 22 | 10 36.53 | +8 14.6 | 1.972 | 2.824 | 12.0 | 20.8 |
| 2 1 | 10 30.08 | +8 20.4 | 2.446 | 3.366 | 7.1 | 21.9 | 2 1 | 10 31.09 | +9 4.3 | 1.902 | 2.827 | 8.4 | 20.5 |
| 2 11 | 10 23.19 | +9 3.7 | 2.409 | 3.378 | 3.7 | 21.7 | 2 11 | 10 23.88 | +10 5.1 | 1.858 | 2.829 | 4.4 | 20.3 |
| 2 21 | 10 15.57 | +9 51.4 | 2.401 | 3.390 | 0.3 | 21.4 | 2 21 | 10 15.63 | +11 11.5 | 1.842 | 2.831 | 0.2 | 19.9 |
| 3 2 | 10 7.93 | +10 38.9 | 2.425 | 3.402 | 3.3 | 21.7 | 3 2 | 10 7.28 | +12 16.8 | 1.856 | 2.832 | 4.2 | 20.3 |
| 3 12 | 10 1.03 | +11 22.0 | 2.477 | 3.413 | 6.6 | 21.9 | 3 12 | 9 59.81 | +13 14.9 | 1.898 | 2.834 | 8.3 | 20.5 |
| 3 22 | 9 55.44 | +11 57.5 | 2.557 | 3.424 | 9.5 | 22.1 | 3 22 | 9 54.00 | +14 1.4 | 1.966 | 2.835 | 11.8 | 20.7 |
| 4 1 | 9 51.60 | +12 23.4 | 2.660 | 3.434 | 12.0 | 22.3 | 4 1 | 9 50.39 | +14 33.9 | 2.056 | 2.836 | 14.8 | 21.0 |
| 273866 | 2007 <i>GU</i> ₇₀ | | 2 21.3 54°15 | 2°8/19.1 | 18 | | 180520 | 2004 <i>DA</i> ₃₃ | | 2 21.3 35°94 | 1°6/20.2 | 18 | |
| 1 22 | 10 38.85 | +16 36.3 | 1.815 | 2.684 | 12.0 | 20.4 | 1 22 | 10 38.03 | +12 1.3 | 1.353 | 2.229 | 14.9 | 19.7 |
| 2 1 | 10 32.82 | +17 19.5 | 1.752 | 2.685 | 8.4 | 20.1 | 2 1 | 10 32.61 | +12 46.4 | 1.302 | 2.239 | 10.3 | 19.5 |
| 2 11 | 10 24.79 | +18 5.7 | 1.715 | 2.687 | 4.5 | 19.9 | 2 11 | 10 24.79 | +13 41.1 | 1.275 | 2.249 | 5.2 | 19.2 |
| 2 21 | 10 15.62 | +18 48.4 | 1.705 | 2.688 | 2.9 | 19.8 | 2 21 | 10 15.66 | +14 37.2 | 1.273 | 2.260 | 1.6 | 19.0 |
| 3 2 | 10 6.40 | +19 21.4 | 1.724 | 2.689 | 6.0 | 20.0 | 3 2 | 10 6.57 | +15 26.3 | 1.297 | 2.272 | 6.0 | 19.3 |
| 3 12 | 9 58.25 | +19 40.2 | 1.770 | 2.691 | 9.8 | 20.2 | 3 12 | 9 58.89 | +16 1.8 | 1.347 | 2.284 | 10.8 | 19.6 |
| 3 22 | 9 52.04 | +19 43.4 | 1.840 | 2.692 | 13.3 | 20.4 | 3 22 | 9 53.60 | +16 20.4 | 1.419 | 2.297 | 15.0 | 19.9 |
| 4 1 | 9 48.30 | +19 31.1 | 1.931 | 2.694 | 16.3 | 20.7 | 4 1 | 9 51.22 | +16 21.5 | 1.511 | 2.310 | 18.5 | 20.2 |
| 434443 | 2005 <i>NQ</i> ₆₉ | | 2 21.3 233°28 | 4°0/25.1 | 17 | | 462045 | 2007 <i>DW</i> ₃₉ | | 2 21.3 89°86 | 6°2/14.5 | 18 | |
| 1 22 | 10 36.70 | -3 22.6 | 2.600 | 3.394 | 11.2 | 21.3 | 1 22 | 10 39.65 | +23 40.7 | 1.838 | 2.710 | 11.7 | 20.9 |
| 2 1 | 10 30.93 | -3 40.9 | 2.509 | 3.387 | 8.8 | 21.1 | 2 1 | 10 33.37 | +26 5.0 | 1.808 | 2.736 | 8.6 | 20.8 |
| 2 11 | 10 23.71 | -3 45.5 | 2.444 | 3.380 | 6.2 | 21.0 | 2 11 | 10 25.07 | +28 24.1 | 1.807 | 2.762 | 6.4 | 20.7 |
| 2 21 | 10 15.61 | -3 36.9 | 2.406 | 3.372 | 4.2 | 20.8 | 2 21 | 10 15.67 | +30 26.4 | 1.835 | 2.787 | 6.8 | 20.8 |
| 3 2 | 10 7.33 | -3 17.3 | 2.398 | 3.365 | 4.5 | 20.8 | 3 2 | 10 6.32 | +32 3.3 | 1.893 | 2.812 | 9.2 | 20.9 |
| 3 12 | 9 59.66 | -2 50.0 | 2.420 | 3.356 | 6.7 | 21.0 | 3 12 | 9 58.18 | +33 10.5 | 1.976 | 2.836 | 12.1 | 21.2 |
| 3 22 | 9 53.23 | -2 19.1 | 2.469 | 3.348 | 9.4 | 21.1 | 3 22 | 9 52.08 | +33 48.7 | 2.082 | 2.860 | 14.7 | 21.4 |
| 4 1 | 9 48.54 | -1 48.7 | 2.543 | 3.340 | 11.9 | 21.3 | 4 1 | 9 48.52 | +34 1.2 | 2.206 | 2.884 | 16.7 | 21.6 |
| 246975 | 1999 <i>TO</i> ₁₇₀ | | 2 21.3 178°73 | 2°4/19.2 | 18 | | 235779 | 2004 <i>VO</i> ₇₅ | | 2 21.3 146°60 | 1°5/20.0 | 18 | |
| 1 22 | 10 41.21 | +15 56.2 | 2.082 | 2.940 | 11.2 | 21.4 | 1 | | | | | | |

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2 21.3

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|-----------------------------|------------------------|---------|------|---------------|-------------------------------|-----------------|-----------------------------|-------------------------|---------|------|
| 430715 | 2004 <i>EN</i> ₁₉ | | 2 21.3 314 ^o .72 | 1 ^o .5/20.0 | 17 | | 221199 | 2005 <i>UU</i> ₅₅ | | 2 21.3 61 ^o .56 | 3 ^o .9/24.7 | 18 | |
| 1 22 | 10 35.86 | +13 13.9 | 1.888 | 2.755 | 11.7 | 21.0 | 1 22 | 10 37.00 | - 2 5.8 | 1.655 | 2.479 | 15.3 | 20.3 |
| 2 1 | 10 30.87 | +13 48.8 | 1.801 | 2.733 | 8.2 | 20.7 | 2 1 | 10 31.52 | - 1 48.9 | 1.601 | 2.500 | 11.6 | 20.1 |
| 2 11 | 10 23.89 | +14 30.8 | 1.738 | 2.712 | 4.3 | 20.4 | 2 11 | 10 24.12 | - 1 10.5 | 1.569 | 2.520 | 7.6 | 19.9 |
| 2 21 | 10 15.65 | +15 14.4 | 1.704 | 2.691 | 1.6 | 20.2 | 2 21 | 10 15.69 | - 0 14.5 | 1.564 | 2.541 | 4.3 | 19.8 |
| 3 2 | 10 7.11 | +15 53.6 | 1.697 | 2.670 | 5.2 | 20.4 | 3 2 | 10 7.31 | + 0 53.0 | 1.586 | 2.562 | 4.9 | 19.9 |
| 3 12 | 9 59.39 | +16 22.9 | 1.718 | 2.649 | 9.3 | 20.6 | 3 12 | 10 0.08 | + 2 3.9 | 1.636 | 2.583 | 8.4 | 20.1 |
| 3 22 | 9 53.37 | +16 39.0 | 1.764 | 2.629 | 13.2 | 20.8 | 3 22 | 9 54.78 | + 3 11.1 | 1.710 | 2.604 | 12.0 | 20.4 |
| 4 1 | 9 49.73 | +16 40.5 | 1.829 | 2.610 | 16.4 | 21.0 | 4 1 | 9 51.90 | + 4 8.7 | 1.807 | 2.624 | 15.2 | 20.6 |
| 54561 | 2000 <i>QH</i> ₁₃₅ | | 2 21.3 201 ^o .55 | 1 ^o .2/19.8 | 18 | | 470705 | 2008 <i>TK</i> ₁₂₄ | | 2 21.3 159 ^o .92 | 2 ^o .0/23.2 | 17 | |
| 1 22 | 10 33.69 | +10 36.8 | 2.536 | 3.390 | 9.6 | 19.5 | 1 22 | 10 36.66 | + 2 53.7 | 2.146 | 2.977 | 12.0 | 21.7 |
| 2 1 | 10 28.88 | +12 2.7 | 2.460 | 3.388 | 6.6 | 19.3 | 2 1 | 10 31.07 | + 3 8.8 | 2.070 | 2.979 | 8.8 | 21.4 |
| 2 11 | 10 22.67 | +13 37.1 | 2.413 | 3.385 | 3.3 | 19.1 | 2 11 | 10 23.86 | + 3 37.2 | 2.020 | 2.981 | 5.3 | 21.2 |
| 2 21 | 10 15.62 | +15 14.1 | 2.396 | 3.383 | 1.3 | 18.9 | 2 21 | 10 15.68 | + 4 15.8 | 1.998 | 2.983 | 2.2 | 21.0 |
| 3 2 | 10 8.43 | +16 47.3 | 2.411 | 3.380 | 4.2 | 19.1 | 3 2 | 10 7.41 | + 5 0.1 | 2.006 | 2.984 | 3.7 | 21.1 |
| 3 12 | 10 1.86 | +18 10.7 | 2.456 | 3.377 | 7.4 | 19.3 | 3 12 | 9 59.93 | + 5 45.0 | 2.043 | 2.986 | 7.3 | 21.4 |
| 3 22 | 9 56.53 | +19 20.4 | 2.528 | 3.374 | 10.3 | 19.5 | 3 22 | 9 53.98 | + 6 25.9 | 2.106 | 2.987 | 10.6 | 21.6 |
| 4 1 | 9 52.92 | +20 14.1 | 2.623 | 3.370 | 12.8 | 19.7 | 4 1 | 9 50.06 | + 6 59.2 | 2.192 | 2.988 | 13.5 | 21.8 |
| 73859 | 1996 <i>XK</i> ₅ | | 2 21.3 35 ^o .47 | 8 ^o .8/26.6 | 18 | | 4259 | McCoy | | 2 21.3 69 ^o .06 | 1 ^o .5/19.9 | 18 | |
| 1 22 | 10 40.87 | - 7 54.1 | 1.358 | 2.163 | 19.0 | 18.8 | 1 22 | 10 36.95 | +13 14.4 | 1.967 | 2.831 | 11.5 | 16.8 |
| 2 1 | 10 34.72 | - 9 4.6 | 1.297 | 2.172 | 15.5 | 18.6 | 2 1 | 10 31.37 | +13 57.1 | 1.904 | 2.835 | 7.9 | 16.6 |
| 2 11 | 10 25.99 | - 9 47.6 | 1.256 | 2.181 | 11.9 | 18.4 | 2 11 | 10 24.03 | +14 45.6 | 1.867 | 2.840 | 4.1 | 16.4 |
| 2 21 | 10 15.72 | -10 0.8 | 1.238 | 2.191 | 9.3 | 18.3 | 2 21 | 10 15.69 | +15 34.3 | 1.859 | 2.845 | 1.6 | 16.2 |
| 3 2 | 10 5.32 | - 9 45.8 | 1.245 | 2.201 | 9.1 | 18.3 | 3 2 | 10 7.30 | +16 17.2 | 1.879 | 2.850 | 4.9 | 16.5 |
| 3 12 | 9 56.27 | - 9 9.0 | 1.277 | 2.212 | 11.5 | 18.5 | 3 12 | 9 59.87 | +16 49.6 | 1.927 | 2.855 | 8.7 | 16.7 |
| 3 22 | 9 49.68 | - 8 19.7 | 1.330 | 2.223 | 14.8 | 18.7 | 3 22 | 9 54.14 | +17 8.9 | 2.001 | 2.860 | 12.1 | 16.9 |
| 4 1 | 9 46.20 | - 7 27.3 | 1.404 | 2.235 | 18.0 | 18.9 | 4 1 | 9 50.64 | +17 14.3 | 2.095 | 2.866 | 14.9 | 17.1 |
| 243615 | 1999 <i>FP</i> ₂ | | 2 21.3 276 ^o .33 | 4 ^o .5/17.5 | 17 | | 223779 | 2004 <i>SO</i> ₂₃ | | 2 21.3 112 ^o .56 | 0 ^o .3/21.1 | 18 | |
| 1 22 | 10 42.52 | +24 40.5 | 2.294 | 3.154 | 10.2 | 20.4 | 1 22 | 10 37.72 | + 9 37.5 | 2.021 | 2.874 | 11.7 | 20.7 |
| 2 1 | 10 35.23 | +25 6.0 | 2.213 | 3.136 | 7.5 | 20.1 | 2 1 | 10 31.84 | +10 11.5 | 1.958 | 2.883 | 8.2 | 20.5 |
| 2 11 | 10 26.05 | +25 26.9 | 2.158 | 3.118 | 5.1 | 20.0 | 2 11 | 10 24.25 | +10 54.0 | 1.921 | 2.892 | 4.2 | 20.3 |
| 2 21 | 10 15.73 | +25 37.5 | 2.133 | 3.099 | 4.6 | 19.9 | 2 21 | 10 15.69 | +11 40.2 | 1.912 | 2.901 | 0.3 | 20.0 |
| 3 2 | 10 5.27 | +25 33.5 | 2.137 | 3.081 | 6.8 | 20.0 | 3 2 | 10 7.12 | +12 24.4 | 1.933 | 2.909 | 4.1 | 20.3 |
| 3 12 | 9 55.72 | +25 13.0 | 2.170 | 3.062 | 9.7 | 20.1 | 3 12 | 9 59.49 | +13 1.8 | 1.983 | 2.918 | 8.0 | 20.6 |
| 3 22 | 9 47.91 | +24 36.4 | 2.228 | 3.044 | 12.6 | 20.3 | 3 22 | 9 53.53 | +13 29.1 | 2.058 | 2.926 | 11.4 | 20.8 |
| 4 1 | 9 42.41 | +23 45.8 | 2.307 | 3.025 | 15.1 | 20.5 | 4 1 | 9 49.74 | +13 44.5 | 2.155 | 2.934 | 14.3 | 21.0 |
| 55958 | 1998 <i>HK</i> ₁₀₉ | | 2 21.3 335 ^o .87 | 7 ^o .2/ 1.1 | 18 | | 218659 | 2005 <i>SY</i> ₁₅₈ | | 2 21.3 166 ^o .03 | 0 ^o .9/22.1 | 18 | |
| 1 22 | 10 31.71 | -15 58.5 | 2.088 | 2.829 | 15.3 | 18.8 | 1 22 | 10 38.59 | + 6 19.5 | 2.142 | 2.982 | 11.7 | 21.1 |
| 2 1 | 10 27.78 | -15 23.0 | 1.994 | 2.822 | 13.0 | 18.6 | 2 1 | 10 32.41 | + 6 41.9 | 2.069 | 2.986 | 8.3 | 20.9 |
| 2 11 | 10 22.20 | -14 17.0 | 1.922 | 2.814 | 10.4 | 18.4 | 2 11 | 10 24.55 | + 7 15.1 | 2.022 | 2.989 | 4.6 | 20.7 |
| 2 21 | 10 15.61 | -12 40.9 | 1.874 | 2.808 | 8.1 | 18.3 | 2 21 | 10 15.71 | + 7 55.0 | 2.004 | 2.992 | 1.0 | 20.4 |
| 3 2 | 10 8.84 | -10 39.1 | 1.853 | 2.802 | 7.2 | 18.2 | 3 2 | 10 6.78 | + 8 37.0 | 2.017 | 2.995 | 3.7 | 20.7 |
| 3 12 | 10 2.80 | - 8 19.9 | 1.861 | 2.796 | 8.5 | 18.3 | 3 12 | 9 58.71 | + 9 16.1 | 2.058 | 2.997 | 7.5 | 20.9 |
| 3 22 | 9 58.24 | - 5 53.7 | 1.896 | 2.790 | 11.0 | 18.4 | 3 22 | 9 52.22 | + 9 48.4 | 2.126 | 2.998 | 10.9 | 21.1 |
| 4 1 | 9 55.69 | - 3 30.7 | 1.957 | 2.785 | 13.8 | 18.6 | 4 1 | 9 47.84 | +10 11.4 | 2.216 | 3.000 | 13.8 | 21.3 |
| 188433 | 2004 <i>FV</i> ₁₀₁ | | 2 21.3 55 ^o .81 | 2 ^o .1/19.7 | 18 | | 519186 | 2010 <i>OB</i> ₁₁₆ | | 2 21.3 185 ^o .65 | 0 ^o .6/20.5 | 17 | |
| 1 22 | 10 39.43 | +14 0.8 | 1.512 | 2.384 | 13.8 | 20.3 | 1 22 | 10 33.85 | +10 27.6 | 3.002 | 3.849 | 8.5 | 22.1 |
| 2 1 | 10 33.43 | +14 44.8 | 1.459 | 2.394 | 9.5 | 20.0 | 2 1 | 10 28.79 | +11 19.2 | 2.925 | 3.849 | 5.9 | 21.9 |
| 2 11 | 10 25.18 | +15 35.0 | 1.431 | 2.405 | 4.9 | 19.8 | 2 11 | 10 22.56 | +12 17.0 | 2.876 | 3.848 | 3.0 | 21.7 |
| 2 21 | 10 15.70 | +16 23.9 | 1.429 | 2.415 | 2.2 | 19.6 | 2 21 | 10 15.65 | +13 17.0 | 2.859 | 3.847 | 0.6 | 21.5 |
| 3 2 | 10 6.27 | +17 4.1 | 1.455 | 2.426 | 6.0 | 19.9 | 3 2 | 10 8.65 | +14 14.9 | 2.872 | 3.845 | 3.3 | 21.7 |
| 3 12 | 9 58.17 | +17 30.2 | 1.507 | 2.437 | 10.5 | 20.2 | 3 12 | 10 2.19 | +15 6.8 | 2.916 | 3.843 | 6.1 | 21.9 |
| 3 22 | 9 52.31 | +17 40.0 | 1.582 | 2.448 | 14.4 | 20.5 | 3 22 | 9 56.79 | +15 49.9 | 2.988 | 3.841 | 8.7 | 22.1 |
| 4 1 | 9 49.23 | +17 33.4 | 1.677 | 2.460 | 17.6 | 20.7 | 4 1 | 9 52.86 | +16 22.4 | 3.084 | 3.838 | 10.9 | 22.2 |
| 276801 | 2004 <i>PM</i> | | 2 21.3 170 ^o .51 | 2 ^o .0/23.6 | 18 | | 343505 | 2010 <i>EN</i> ₁₀₈ | | 2 21.3 270 ^o .96 | 7 ^o .3/14.4 | 17 | |
| 1 22 | 10 36.16 | + 1 5.9 | 2.429 | 3.248 | 11.1 | 21.8 | 1 22 | 10 42.66 | +33 35.9 | 2.234 | 3.087 | 10.7 | 20.7 |
| 2 1 | 10 30.58 | + 1 40.9 | 2.350 | 3.252 | 8.2 | 21.6 | 2 1 | 10 35.38 | +34 26.6 | 2.176 | 3.080 | 8.7 | 20.5 |
| 2 11 | 10 23.55 | + 2 29.9 | 2.298 | 3.255 | 5.0 | 21.4 | 2 11 | 10 26.12 | +35 5.9 | 2.144 | 3.073 | 7.4 | 20.4 |
| 2 21 | 10 15.66 | + 3 29.5 | 2.275 | 3.258 | 2.3 | 21.2 | 2 21 | 10 15.76 | +35 26.9 | 2.139 | 3.066 | 7.7 | 20.4 |
| 3 2 | 10 7.69 | + 4 35.0 | 2.283 | 3.260 | 3.4 | 21.3 | 3 2 | 10 5.41 | +35 25.2 | 2.162 | 3.060 | 9.4 | 20.5 |
| 3 12 | 10 0.40 | + 5 41.0 | 2.320 | 3.262 | 6.6 | 21.5 | 3 12 | 9 56.20 | +34 59.7 | 2.210 | 3.053 | 11.6 | 20.7 |
| 3 22 | 9 54.46 | + 6 42.4 | 2.385 | 3.263 | 9.7 | 21.7 | 3 22 | 9 48.96 | +34 12.8 | 2.281 | 3.046 | 13.9 | 20.8 |
| 4 1 | 9 50.33 | + 7 35.5 | 2.475 | 3.263 | 12.4 | 21.9 | 4 1 | 9 44.23 | +33 8.2 | 2.371 | 3.039 | 15.9 | 21.0 |
| 262768 | 2006 <i>YC</i> ₁ | | 2 21.3 178 ^o .98 | 1 ^o .1/20.3 | 18 | | 276394 | 2002 <i>XF</i> ₈ | | 2 21.3 38 ^o .20 | 11 ^o .2/12.9 | 16 | |
| 1 22 | 10 38.97 | +12 0.2 | 2.206 | 3.059 | 10.8 | 20.9 | 1 22 | 10 41.49 | +33 56.7 | 1.267 | 2.145 | 15.5 | 20.0 |
| 2 1 | 10 32.67 | +12 44.7 | 2.135 | 3.061 | 7.5 | 20.7 | 2 1 | 10 35.32 | +35 46.9 | 1.247 | 2.163 | 12.7 | 19.9 |
| 2 11 | 10 24.68 | +13 35.8 | 2.090 | 3.062 | 3.8 | 20.5 | 2 11 | 10 26.25 | +37 16.7 | 1.250 | 2.182 | 11.3 | 19.9 |
| 2 21 | 10 15.70 | +14 28.2 | 2.076 | 3.063 | 1.1 | 20.3 | 2 21 | 10 15.75 | +38 13.8 | 1.276 | 2.202 | 11.9 | 20.0 |
| 3 2 | 10 6.63 | +15 16.3 | 2.091 | 3.063 | 4.4 | 20.5 | 3 2 | 10 5.62 | +38 31.7 | 1.325 | 2.222 | 14.1 | 20.1 |
| 3 12 | 9 58.40 | +15 55.5 | 2.136 | 3.062 | 8.1 | 20.7 | 3 12 | 9 57.52 | +38 11.2 | 1.394 | 2.243 | 16.8 | 20.4 |
| 3 22 | 9 51.76 | +16 22.9 | 2.207 | 3.061 | 11.3 | 20.9 | 3 22 | 9 52.44 | +37 18.6 | 1.482 | 2.265 | 19.3 | 20.6 |
| 4 1 | 9 47.21 | +16 37.2 | 2.300 | 3.059 | 14.1 | 21.1 | 4 1 | 9 50.76 | +36 1.3 | 1.584 | 2.287 | 21.5 | 20.8 |
| 264947 | 2 | | | | | | | | | | | | |

EPHEMERIDES

2 21.3

2 21.3

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|--------|----------|------|---------------|-------------------------------|-----------------|----------|--------|-----------|------|
| 207625 | 2006 <i>SB</i> ₄₅ | | 2 21.3 | 20°25 | 5°7/26.1 | 18 | 423557 | 2005 <i>UA</i> ₃₅₃ | | 2 21.3 | 156°42 | 4°3/16.9 | 18 |
| 1 22 | 10 35.87 | — 5 57.2 | 1.963 | 2.761 | 14.2 | 20.0 | 1 22 | 10 42.11 | +24 28.1 | 2.475 | 3.332 | 9.7 | 22.0 |
| 2 1 | 10 30.67 | — 6 22.4 | 1.889 | 2.765 | 11.3 | 19.8 | 2 1 | 10 34.71 | +25 17.6 | 2.419 | 3.341 | 7.0 | 21.9 |
| 2 11 | 10 23.70 | — 6 27.7 | 1.839 | 2.769 | 8.3 | 19.6 | 2 11 | 10 25.68 | +26 2.8 | 2.392 | 3.350 | 4.8 | 21.7 |
| 2 21 | 10 15.69 | — 6 13.4 | 1.813 | 2.774 | 6.0 | 19.5 | 2 21 | 10 15.79 | +26 37.9 | 2.395 | 3.358 | 4.6 | 21.7 |
| 3 2 | 10 7.56 | — 5 42.3 | 1.816 | 2.779 | 6.0 | 19.5 | 3 2 | 10 5.93 | +26 58.8 | 2.428 | 3.365 | 6.5 | 21.9 |
| 3 12 | 10 0.29 | — 4 59.6 | 1.845 | 2.784 | 8.2 | 19.6 | 3 12 | 9 57.03 | +27 3.2 | 2.490 | 3.371 | 9.1 | 22.0 |
| 3 22 | 9 54.64 | — 4 11.4 | 1.900 | 2.790 | 11.2 | 19.8 | 3 22 | 9 49.77 | +26 51.5 | 2.576 | 3.377 | 11.5 | 22.2 |
| 4 1 | 9 51.17 | — 3 23.8 | 1.977 | 2.796 | 14.0 | 20.0 | 4 1 | 9 44.62 | +26 25.4 | 2.684 | 3.382 | 13.6 | 22.4 |
| 308634 | 2005 <i>XU</i> ₁₀₀ | | 2 21.3 | 82°89 | 0°0/22.1 | 15 | 60583 | 2000 <i>EQ</i> ₁₃₂ | | 2 21.3 | 288°62 | 1°6/20.3 | 18 |
| 1 22 | 10 17.63 | + 8 30.5 | 42.293 | 43.130 | 0.7 | 22.7 | 1 22 | 10 41.11 | +12 33.6 | 1.354 | 2.226 | 15.1 | 19.7 |
| 2 1 | 10 16.96 | + 8 33.8 | 42.216 | 43.132 | 0.5 | 22.7 | 2 1 | 10 35.09 | +13 5.4 | 1.282 | 2.217 | 10.6 | 19.4 |
| 2 11 | 10 16.23 | + 8 37.5 | 42.168 | 43.135 | 0.3 | 22.7 | 2 11 | 10 26.32 | +13 46.8 | 1.233 | 2.207 | 5.5 | 19.1 |
| 2 21 | 10 15.47 | + 8 41.4 | 42.150 | 43.138 | 0.1 | 22.6 | 2 21 | 10 15.81 | +14 30.5 | 1.210 | 2.198 | 1.6 | 18.8 |
| 3 2 | 10 14.70 | + 8 45.5 | 42.162 | 43.140 | 0.2 | 22.7 | 3 2 | 10 5.02 | +15 8.2 | 1.214 | 2.189 | 6.3 | 19.1 |
| 3 12 | 10 13.97 | + 8 49.5 | 42.205 | 43.143 | 0.4 | 22.7 | 3 12 | 9 55.53 | +15 33.3 | 1.243 | 2.180 | 11.6 | 19.4 |
| 3 22 | 10 13.28 | + 8 53.2 | 42.276 | 43.146 | 0.7 | 22.7 | 3 22 | 9 48.56 | +15 42.1 | 1.294 | 2.171 | 16.3 | 19.6 |
| 4 1 | 10 12.68 | + 8 56.6 | 42.374 | 43.148 | 0.8 | 22.7 | 4 1 | 9 44.85 | +15 33.8 | 1.364 | 2.162 | 20.2 | 19.9 |
| 200737 | 2001 <i>VH</i> ₆₇ | | 2 21.3 | 123°59 | 0°0/21.3 | 18 | 310679 | 2002 <i>GF</i> ₅ | | 2 21.3 | 228°22 | 13°4/15.9 | 17 |
| 1 22 | 10 42.29 | + 8 33.2 | 1.745 | 2.594 | 13.4 | 21.1 | 1 22 | 11 0.60 | +37 24.0 | 1.081 | 1.940 | 19.1 | 19.9 |
| 2 1 | 10 35.16 | + 9 10.0 | 1.689 | 2.612 | 9.4 | 20.8 | 2 1 | 10 49.63 | +38 21.6 | 1.034 | 1.938 | 15.9 | 19.7 |
| 2 11 | 10 26.01 | + 9 57.3 | 1.659 | 2.629 | 4.9 | 20.6 | 2 11 | 10 34.07 | +38 51.7 | 1.006 | 1.935 | 13.7 | 19.5 |
| 2 21 | 10 15.77 | +10 49.3 | 1.657 | 2.646 | 0.1 | 20.3 | 2 21 | 10 16.05 | +38 38.1 | 1.002 | 1.932 | 13.8 | 19.5 |
| 3 2 | 10 5.59 | +11 39.5 | 1.685 | 2.661 | 4.5 | 20.7 | 3 2 | 9 58.51 | +37 33.6 | 1.020 | 1.930 | 16.1 | 19.6 |
| 3 12 | 9 56.63 | +12 21.8 | 1.741 | 2.676 | 8.9 | 20.9 | 3 12 | 9 44.18 | +35 43.5 | 1.059 | 1.927 | 19.6 | 19.8 |
| 3 22 | 9 49.74 | +12 52.7 | 1.822 | 2.691 | 12.7 | 21.2 | 3 22 | 9 34.55 | +33 21.1 | 1.118 | 1.923 | 23.1 | 20.1 |
| 4 1 | 9 45.41 | +13 10.4 | 1.925 | 2.704 | 15.8 | 21.4 | 4 1 | 9 29.97 | +30 40.2 | 1.191 | 1.920 | 26.1 | 20.3 |
| 64504 | 2001 <i>VO</i> ₇₀ | | 2 21.3 | 357°55 | 2°6/23.2 | 18 | 301794 | Antoninkapustin | | 2 21.3 | 240°68 | 8°5/3.4 | 17 |
| 1 22 | 10 36.62 | + 2 47.0 | 1.588 | 2.433 | 14.7 | 19.4 | 1 22 | 10 33.89 | —22 39.0 | 2.807 | 3.471 | 13.4 | 21.3 |
| 2 1 | 10 31.51 | + 2 56.1 | 1.516 | 2.432 | 10.9 | 19.1 | 2 1 | 10 29.05 | —22 57.8 | 2.708 | 3.461 | 11.9 | 21.2 |
| 2 11 | 10 24.26 | + 3 22.6 | 1.468 | 2.431 | 6.6 | 18.9 | 2 11 | 10 22.82 | —22 53.0 | 2.628 | 3.451 | 10.4 | 21.0 |
| 2 21 | 10 15.72 | + 4 3.1 | 1.446 | 2.430 | 2.8 | 18.6 | 2 21 | 10 15.70 | —22 23.4 | 2.571 | 3.441 | 9.1 | 20.9 |
| 3 2 | 10 7.02 | + 4 51.7 | 1.451 | 2.430 | 4.6 | 18.7 | 3 2 | 10 8.39 | —21 29.6 | 2.540 | 3.430 | 8.5 | 20.9 |
| 3 12 | 9 59.37 | + 5 41.5 | 1.482 | 2.430 | 9.0 | 19.0 | 3 12 | 10 1.62 | —20 15.0 | 2.535 | 3.419 | 8.8 | 20.9 |
| 3 22 | 9 53.72 | + 6 26.2 | 1.538 | 2.431 | 13.1 | 19.2 | 3 22 | 9 56.03 | —18 45.5 | 2.556 | 3.408 | 10.0 | 20.9 |
| 4 1 | 9 50.67 | + 7 0.9 | 1.614 | 2.432 | 16.7 | 19.5 | 4 1 | 9 52.12 | —17 7.6 | 2.602 | 3.397 | 11.7 | 21.0 |
| 439446 | 2013 <i>WP</i> ₈₁ | | 2 21.3 | 10°63 | 9°9/11.6 | 18 | 61885 | 2000 <i>QN</i> ₂₁₉ | | 2 21.3 | 170°96 | 1°5/20.0 | 18 |
| 1 22 | 10 36.03 | +33 36.6 | 1.563 | 2.439 | 13.2 | 20.1 | 1 22 | 10 38.13 | +12 41.9 | 1.908 | 2.769 | 11.9 | 19.4 |
| 2 1 | 10 31.34 | +35 29.9 | 1.528 | 2.442 | 10.9 | 19.9 | 2 1 | 10 32.30 | +13 27.5 | 1.840 | 2.770 | 8.2 | 19.2 |
| 2 11 | 10 24.21 | +37 8.5 | 1.518 | 2.447 | 9.9 | 19.9 | 2 11 | 10 24.58 | +14 20.1 | 1.798 | 2.771 | 4.2 | 19.0 |
| 2 21 | 10 15.72 | +38 21.2 | 1.532 | 2.453 | 10.7 | 20.0 | 2 21 | 10 15.76 | +15 13.5 | 1.785 | 2.772 | 1.5 | 18.8 |
| 3 2 | 10 7.25 | +39 0.8 | 1.571 | 2.459 | 12.8 | 20.1 | 3 2 | 10 6.85 | +16 1.4 | 1.801 | 2.773 | 5.0 | 19.0 |
| 3 12 | 10 0.21 | +39 5.5 | 1.630 | 2.467 | 15.3 | 20.3 | 3 12 | 9 58.91 | +16 38.6 | 1.845 | 2.773 | 9.0 | 19.3 |
| 3 22 | 9 55.57 | +38 38.7 | 1.708 | 2.476 | 17.8 | 20.5 | 3 22 | 9 52.75 | +17 2.1 | 1.914 | 2.773 | 12.5 | 19.5 |
| 4 1 | 9 53.85 | +37 45.6 | 1.802 | 2.486 | 19.8 | 20.7 | 4 1 | 9 48.92 | +17 10.9 | 2.003 | 2.773 | 15.5 | 19.7 |
| 365204 | 2009 <i>GK</i> ₆ | | 2 21.3 | 177°20 | 3°2/18.4 | 18 | 299240 | 2005 <i>MU</i> ₁₅ | | 2 21.3 | 234°43 | 3°3/24.9 | 17 |
| 1 22 | 10 38.36 | +15 57.4 | 1.767 | 2.637 | 12.2 | 20.6 | 1 22 | 10 35.16 | — 2 26.6 | 2.703 | 3.503 | 10.7 | 21.2 |
| 2 1 | 10 32.62 | +17 19.7 | 1.704 | 2.638 | 8.5 | 20.3 | 2 1 | 10 29.88 | — 2 21.6 | 2.607 | 3.491 | 8.3 | 21.0 |
| 2 11 | 10 24.80 | +18 47.6 | 1.667 | 2.639 | 4.7 | 20.1 | 2 11 | 10 23.22 | — 2 2.7 | 2.537 | 3.480 | 5.6 | 20.8 |
| 2 21 | 10 15.75 | +20 12.3 | 1.659 | 2.639 | 3.5 | 20.0 | 2 21 | 10 15.72 | — 1 31.4 | 2.496 | 3.468 | 3.5 | 20.6 |
| 3 2 | 10 6.57 | +21 25.2 | 1.679 | 2.640 | 6.6 | 20.2 | 3 2 | 10 8.04 | — 0 50.5 | 2.484 | 3.455 | 3.9 | 20.6 |
| 3 12 | 9 58.43 | +22 20.1 | 1.726 | 2.640 | 10.5 | 20.5 | 3 12 | 10 0.90 | — 0 4.0 | 2.502 | 3.442 | 6.3 | 20.8 |
| 3 22 | 9 52.25 | +22 54.2 | 1.798 | 2.639 | 14.1 | 20.7 | 3 22 | 9 54.92 | + 0 43.6 | 2.548 | 3.429 | 9.0 | 20.9 |
| 4 1 | 9 48.60 | +23 7.7 | 1.888 | 2.638 | 17.0 | 20.9 | 4 1 | 9 50.58 | + 1 28.3 | 2.619 | 3.416 | 11.6 | 21.1 |
| 282150 | 2001 <i>RE</i> ₇₂ | | 2 21.3 | 164°27 | 0°1/21.2 | 18 | 10675 | Kharlamov | | 2 21.3 | 92°09 | 2°0/19.8 | 18 |
| 1 22 | 10 42.73 | + 9 18.2 | 1.949 | 2.794 | 12.4 | 21.2 | 1 22 | 10 41.82 | +13 14.3 | 1.565 | 2.431 | 13.8 | 17.9 |
| 2 1 | 10 35.43 | + 9 47.4 | 1.880 | 2.801 | 8.7 | 21.0 | 2 1 | 10 34.95 | +14 11.0 | 1.521 | 2.453 | 9.5 | 17.7 |
| 2 11 | 10 26.17 | +10 25.5 | 1.838 | 2.808 | 4.5 | 20.8 | 2 11 | 10 25.93 | +15 14.1 | 1.502 | 2.475 | 4.9 | 17.5 |
| 2 21 | 10 15.80 | +11 7.6 | 1.824 | 2.813 | 0.2 | 20.4 | 2 21 | 10 15.80 | +16 15.5 | 1.511 | 2.497 | 2.1 | 17.3 |
| 3 2 | 10 5.37 | +11 48.1 | 1.842 | 2.818 | 4.3 | 20.8 | 3 2 | 10 5.84 | +17 7.6 | 1.548 | 2.518 | 5.9 | 17.6 |
| 3 12 | 9 55.97 | +12 22.0 | 1.888 | 2.821 | 8.5 | 21.0 | 3 12 | 9 57.28 | +17 44.8 | 1.612 | 2.539 | 10.1 | 17.9 |
| 3 22 | 9 48.45 | +12 45.9 | 1.961 | 2.824 | 12.1 | 21.2 | 3 22 | 9 50.98 | +18 5.0 | 1.699 | 2.559 | 13.9 | 18.2 |
| 4 1 | 9 43.37 | +12 58.2 | 2.055 | 2.826 | 15.2 | 21.5 | 4 1 | 9 47.42 | +18 8.2 | 1.807 | 2.579 | 16.9 | 18.4 |
| 84533 | 2002 <i>UO</i> ₁₆ | | 2 21.3 | 84°61 | 2°2/23.8 | 18 | 213603 | 2002 <i>PM</i> ₇₄ | | 2 21.3 | 174°09 | 3°0/23.9 | 18 |
| 1 22 | 10 34.65 | + 0 24.7 | 2.225 | 3.048 | 11.9 | 19.5 | 1 22 | 10 38.56 | + 0 4.0 | 1.992 | 2.813 | 13.2 | 20.7 |
| 2 1 | 10 29.56 | + 1 5.2 | 2.163 | 3.066 | 8.8 | 19.3 | 2 1 | 10 32.54 | + 0 19.5 | 1.915 | 2.815 | 9.9 | 20.5 |
| 2 11 | 10 23.02 | + 2 1.0 | 2.126 | 3.083 | 5.4 | 19.1 | 2 11 | 10 24.70 | + 0 51.8 | 1.863 | 2.817 | 6.3 | 20.3 |
| 2 21 | 10 15.70 | + 3 8.0 | 2.118 | 3.100 | 2.5 | 19.0 | 2 21 | 10 15.78 | + 1 38.0 | 1.839 | 2.819 | 3.3 | 20.1 |
| 3 2 | 10 8.37 | + 4 20.8 | 2.139 | 3.118 | 3.6 | 19.1 | 3 2 | 10 6.72 | + 2 33.4 | 1.843 | 2.820 | 4.3 | 20.2 |
| 3 12 | 10 1.86 | + 5 33.3 | 2.190 | 3.134 | 6.8 | 19.3 | 3 12 | 9 58.53 | + 3 31.6 | 1.877 | 2.820 | 7.8 | 20.4 |
| 3 22 | 9 56.77 | + 6 40.1 | 2.268 | 3.151 | 9.9 | 19.5 | 3 22 | 9 52.02 | + 4 26.9 | 1.937 | 2.820 | 11.3 | 20.6 |
| 4 1 | 9 53.55 | + 7 37.2 | 2.370 | 3.168 | 12.6 | 19.7 | 4 1 | 9 47.73 | + 5 14.6 | 2.020 | 2.820 | 14.4 | 20.8 |
| 49269 | 1998 <i>UW</i> ₇ | | 2 21.3 | 38°15 | 1°7/22.7 | 18 | 508439 | 2016 <i>LF</i> ₆ | | 2 21.3 | 159°92 | 1°3/19.7 | 17 |

EPHEMERIDES

2 21.3

2 21.4

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|--------|----------|------|---------------|-------------------------------|-----------------|----------|--------|----------|------|
| 384208 | 2009 <i>BU</i> ₁₈₆ | | 2 21.3 | 0°35 | 0°5/21.8 | 17 | 224938 | 2007 <i>DX</i> ₆₉ | | 2 21.3 | 120°26 | 1°6/20.0 | 18 |
| 1 22 | 10 35.41 | + 7 25.8 | 2.144 | 2.992 | 11.3 | 21.4 | 1 22 | 10 40.87 | +14 24.9 | 1.945 | 2.804 | 11.8 | 20.8 |
| 2 1 | 10 30.25 | + 7 50.7 | 2.071 | 2.992 | 8.0 | 21.2 | 2 1 | 10 34.13 | +14 50.0 | 1.883 | 2.812 | 8.2 | 20.6 |
| 2 11 | 10 23.47 | + 8 25.6 | 2.023 | 2.992 | 4.3 | 21.0 | 2 11 | 10 25.51 | +15 19.1 | 1.848 | 2.820 | 4.2 | 20.4 |
| 2 21 | 10 15.76 | + 9 6.5 | 2.004 | 2.992 | 0.6 | 20.7 | 2 21 | 10 15.87 | +15 46.8 | 1.842 | 2.828 | 1.7 | 20.2 |
| 3 2 | 10 7.95 | + 9 48.5 | 2.014 | 2.992 | 3.7 | 20.9 | 3 2 | 10 6.24 | +16 8.2 | 1.865 | 2.836 | 5.0 | 20.4 |
| 3 12 | 10 0.94 | +10 26.9 | 2.052 | 2.992 | 7.5 | 21.2 | 3 12 | 9 57.68 | +16 19.6 | 1.916 | 2.843 | 8.8 | 20.7 |
| 3 22 | 9 55.42 | +10 57.8 | 2.117 | 2.993 | 10.8 | 21.4 | 3 22 | 9 50.98 | +16 19.3 | 1.993 | 2.850 | 12.2 | 20.9 |
| 4 1 | 9 51.90 | +11 18.7 | 2.204 | 2.993 | 13.7 | 21.6 | 4 1 | 9 46.65 | +16 7.1 | 2.091 | 2.857 | 15.1 | 21.1 |
| 429737 | 2011 <i>NC</i> ₁ | | 2 21.3 | 204°68 | 0°7/20.4 | 18 | 32495 | 2000 <i>WT</i> ₁₇₁ | | 2 21.3 | 235°04 | 0°9/20.4 | 18 |
| 1 22 | 10 33.86 | + 9 44.3 | 2.671 | 3.520 | 9.3 | 21.3 | 1 22 | 10 35.86 | + 9 40.3 | 2.122 | 2.976 | 11.2 | 17.9 |
| 2 1 | 10 28.97 | +10 52.0 | 2.591 | 3.516 | 6.5 | 21.1 | 2 1 | 10 30.70 | +10 52.9 | 2.040 | 2.967 | 7.8 | 17.7 |
| 2 11 | 10 22.75 | +12 8.0 | 2.540 | 3.512 | 3.3 | 20.9 | 2 11 | 10 23.80 | +12 16.7 | 1.985 | 2.957 | 4.0 | 17.4 |
| 2 21 | 10 15.74 | +13 27.2 | 2.520 | 3.508 | 0.7 | 20.7 | 2 21 | 10 15.81 | +13 45.2 | 1.959 | 2.947 | 1.0 | 17.2 |
| 3 2 | 10 8.60 | +14 44.2 | 2.531 | 3.503 | 3.7 | 20.9 | 3 2 | 10 7.61 | +15 11.3 | 1.963 | 2.936 | 4.5 | 17.4 |
| 3 12 | 10 2.04 | +15 54.0 | 2.572 | 3.498 | 6.9 | 21.1 | 3 12 | 10 0.13 | +16 28.0 | 1.997 | 2.925 | 8.4 | 17.6 |
| 3 22 | 9 56.66 | +16 52.8 | 2.640 | 3.493 | 9.7 | 21.3 | 3 22 | 9 54.17 | +17 30.5 | 2.056 | 2.914 | 11.9 | 17.8 |
| 4 1 | 9 52.91 | +17 38.3 | 2.731 | 3.488 | 12.1 | 21.4 | 4 1 | 9 50.29 | +18 16.5 | 2.138 | 2.902 | 14.8 | 18.0 |
| 342675 | 2008 <i>VU</i> ₃₅ | | 2 21.3 | 224°65 | 1°8/19.7 | 18 | 278036 | 2006 <i>WU</i> ₅₄ | | 2 21.3 | 99°12 | 2°0/22.6 | 18 |
| 1 22 | 10 37.93 | +14 50.3 | 2.167 | 3.028 | 10.7 | 20.8 | 1 22 | 10 41.32 | + 4 29.1 | 1.294 | 2.149 | 16.8 | 20.3 |
| 2 1 | 10 32.02 | +15 24.7 | 2.095 | 3.025 | 7.4 | 20.5 | 2 1 | 10 35.15 | + 4 45.4 | 1.232 | 2.155 | 12.2 | 20.1 |
| 2 11 | 10 24.41 | +16 3.1 | 2.049 | 3.022 | 3.9 | 20.3 | 2 11 | 10 26.31 | + 5 20.5 | 1.193 | 2.160 | 7.0 | 19.8 |
| 2 21 | 10 15.80 | +16 40.4 | 2.033 | 3.018 | 1.9 | 20.2 | 2 21 | 10 15.90 | + 6 9.4 | 1.179 | 2.166 | 2.2 | 19.5 |
| 3 2 | 10 7.09 | +17 11.5 | 2.046 | 3.015 | 4.8 | 20.4 | 3 2 | 10 5.40 | + 7 4.3 | 1.191 | 2.172 | 5.3 | 19.7 |
| 3 12 | 9 59.23 | +17 32.5 | 2.087 | 3.011 | 8.4 | 20.6 | 3 12 | 9 56.32 | + 7 56.4 | 1.230 | 2.177 | 10.5 | 20.0 |
| 3 22 | 9 52.96 | +17 41.3 | 2.154 | 3.007 | 11.6 | 20.8 | 3 22 | 9 49.81 | + 8 39.0 | 1.291 | 2.182 | 15.2 | 20.3 |
| 4 1 | 9 48.81 | +17 37.4 | 2.242 | 3.003 | 14.4 | 21.0 | 4 1 | 9 46.50 | + 9 8.0 | 1.371 | 2.188 | 19.1 | 20.6 |
| 468205 | 2015 <i>BJ</i> ₄₁ | | 2 21.3 | 65°59 | 2°0/19.7 | 18 | 36738 | 2000 <i>RC</i> ₆₁ | | 2 21.3 | 184°89 | 3°6/18.3 | 18 |
| 1 22 | 10 38.96 | +14 53.4 | 1.869 | 2.734 | 11.9 | 21.4 | 1 22 | 10 40.87 | +18 0.6 | 1.786 | 2.654 | 12.2 | 18.7 |
| 2 1 | 10 32.87 | +15 26.4 | 1.807 | 2.738 | 8.3 | 21.1 | 2 1 | 10 34.40 | +19 7.1 | 1.722 | 2.654 | 8.6 | 18.5 |
| 2 11 | 10 24.88 | +16 3.5 | 1.770 | 2.743 | 4.3 | 20.9 | 2 11 | 10 25.78 | +20 16.3 | 1.684 | 2.654 | 5.0 | 18.3 |
| 2 21 | 10 15.81 | +16 39.0 | 1.761 | 2.747 | 2.1 | 20.8 | 2 21 | 10 15.89 | +21 20.0 | 1.675 | 2.653 | 3.9 | 18.2 |
| 3 2 | 10 6.72 | +17 7.3 | 1.782 | 2.752 | 5.3 | 21.0 | 3 2 | 10 5.88 | +22 10.7 | 1.694 | 2.652 | 6.9 | 18.4 |
| 3 12 | 9 58.68 | +17 24.1 | 1.830 | 2.756 | 9.2 | 21.2 | 3 12 | 9 56.99 | +22 43.3 | 1.740 | 2.650 | 10.7 | 18.6 |
| 3 22 | 9 52.50 | +17 27.7 | 1.902 | 2.761 | 12.7 | 21.5 | 3 22 | 9 50.13 | +22 56.2 | 1.810 | 2.648 | 14.1 | 18.8 |
| 4 1 | 9 48.71 | +17 17.8 | 1.995 | 2.765 | 15.6 | 21.7 | 4 1 | 9 45.89 | +22 50.4 | 1.900 | 2.646 | 17.1 | 19.0 |
| 405152 | 2002 <i>TM</i> | | 2 21.3 | 128°77 | 5°0/17.4 | 18 | 385150 | 2013 <i>TS</i> ₃₈ | | 2 21.3 | 202°14 | 5°5/27.2 | 18 |
| 1 22 | 10 44.47 | +23 58.4 | 1.927 | 2.790 | 11.7 | 21.8 | 1 22 | 10 36.57 | - 9 30.1 | 2.496 | 3.258 | 12.5 | 21.1 |
| 2 1 | 10 36.64 | +24 45.2 | 1.878 | 2.803 | 8.5 | 21.6 | 2 1 | 10 30.97 | - 9 36.5 | 2.404 | 3.254 | 10.2 | 20.9 |
| 2 11 | 10 26.78 | +25 26.9 | 1.855 | 2.815 | 5.7 | 21.4 | 2 11 | 10 23.87 | - 9 23.8 | 2.337 | 3.249 | 7.8 | 20.8 |
| 2 21 | 10 15.88 | +25 56.6 | 1.860 | 2.827 | 5.2 | 21.4 | 2 21 | 10 15.83 | - 8 52.3 | 2.297 | 3.244 | 5.9 | 20.6 |
| 3 2 | 10 5.10 | +26 9.0 | 1.895 | 2.838 | 7.5 | 21.6 | 3 2 | 10 7.62 | - 8 4.4 | 2.285 | 3.239 | 5.7 | 20.6 |
| 3 12 | 9 55.62 | +26 2.3 | 1.957 | 2.849 | 10.6 | 21.8 | 3 12 | 10 0.03 | - 7 4.7 | 2.302 | 3.232 | 7.3 | 20.7 |
| 3 22 | 9 48.27 | +25 37.5 | 2.043 | 2.860 | 13.6 | 22.0 | 3 22 | 9 53.74 | - 5 58.9 | 2.346 | 3.226 | 9.8 | 20.8 |
| 4 1 | 9 43.52 | +24 57.2 | 2.149 | 2.870 | 16.0 | 22.2 | 4 1 | 9 49.27 | - 4 52.8 | 2.415 | 3.218 | 12.2 | 21.0 |
| 204300 | 2004 <i>PT</i> ₇₉ | | 2 21.3 | 146°37 | 2°0/22.9 | 18 | 433631 | 2013 <i>YP</i> ₁₃₃ | | 2 21.3 | 266°43 | 5°4/15.5 | 17 |
| 1 22 | 10 40.72 | + 3 9.0 | 1.771 | 2.606 | 13.9 | 21.1 | 1 22 | 10 37.52 | +26 29.0 | 2.286 | 3.152 | 10.0 | 21.2 |
| 2 1 | 10 34.16 | + 3 33.8 | 1.704 | 2.615 | 10.2 | 20.9 | 2 1 | 10 31.80 | +27 35.7 | 2.223 | 3.146 | 7.5 | 21.1 |
| 2 11 | 10 25.59 | + 4 14.4 | 1.662 | 2.624 | 6.0 | 20.7 | 2 11 | 10 24.33 | +28 37.7 | 2.187 | 3.139 | 5.6 | 20.9 |
| 2 21 | 10 15.85 | + 5 6.6 | 1.647 | 2.633 | 2.2 | 20.4 | 2 21 | 10 15.85 | +29 28.3 | 2.179 | 3.132 | 5.8 | 20.9 |
| 3 2 | 10 6.04 | + 6 4.3 | 1.662 | 2.641 | 4.3 | 20.6 | 3 2 | 10 7.26 | +30 2.0 | 2.200 | 3.125 | 7.7 | 21.0 |
| 3 12 | 9 57.31 | + 7 0.7 | 1.705 | 2.648 | 8.5 | 20.9 | 3 12 | 9 59.54 | +30 16.0 | 2.247 | 3.118 | 10.3 | 21.2 |
| 3 22 | 9 50.53 | + 7 50.1 | 1.774 | 2.654 | 12.4 | 21.1 | 3 22 | 9 53.45 | +30 10.1 | 2.317 | 3.112 | 12.9 | 21.3 |
| 4 1 | 9 46.25 | + 8 28.6 | 1.864 | 2.660 | 15.6 | 21.3 | 4 1 | 9 49.52 | +29 46.3 | 2.407 | 3.105 | 15.0 | 21.5 |
| 495256 | 2013 <i>PW</i> ₁₉ | | 2 21.3 | 210°09 | 0°3/21.0 | 17 | 459969 | 2014 <i>OK</i> ₅ | | 2 21.3 | 104°53 | 2°3/19.4 | 18 |
| 1 22 | 10 39.58 | +10 24.5 | 2.375 | 3.221 | 10.5 | 22.2 | 1 22 | 10 38.47 | +12 48.4 | 1.595 | 2.464 | 13.4 | 20.7 |
| 2 1 | 10 33.09 | +10 49.3 | 2.292 | 3.213 | 7.3 | 22.0 | 2 1 | 10 32.79 | +14 6.7 | 1.539 | 2.473 | 9.2 | 20.5 |
| 2 11 | 10 24.96 | +11 20.9 | 2.235 | 3.206 | 3.8 | 21.7 | 2 11 | 10 24.95 | +15 33.8 | 1.509 | 2.482 | 4.8 | 20.3 |
| 2 21 | 10 15.84 | +11 55.4 | 2.209 | 3.197 | 0.3 | 21.4 | 2 21 | 10 15.87 | +17 0.7 | 1.506 | 2.491 | 2.4 | 20.1 |
| 3 2 | 10 6.56 | +12 28.3 | 2.213 | 3.188 | 3.8 | 21.7 | 3 2 | 10 6.76 | +18 18.0 | 1.531 | 2.500 | 6.1 | 20.4 |
| 3 12 | 9 58.01 | +12 55.6 | 2.248 | 3.179 | 7.4 | 21.9 | 3 12 | 9 58.83 | +19 18.8 | 1.583 | 2.508 | 10.4 | 20.7 |
| 3 22 | 9 50.92 | +13 14.6 | 2.309 | 3.168 | 10.7 | 22.1 | 3 22 | 9 53.01 | +19 59.4 | 1.659 | 2.517 | 14.3 | 20.9 |
| 4 1 | 9 45.83 | +13 23.5 | 2.393 | 3.157 | 13.4 | 22.3 | 4 1 | 9 49.85 | +20 19.5 | 1.755 | 2.525 | 17.4 | 21.1 |
| 2644 | Victor Jara | | 2 21.3 | 226°35 | 0°5/20.9 | 18 | 441855 | 2009 <i>WY</i> ₉₆ | | 2 21.4 | 137°96 | 2°4/23.2 | 15 |
| 1 22 | 10 42.37 | + 9 56.4 | 1.618 | 2.475 | 13.9 | 17.1 | 1 22 | 10 42.33 | + 1 51.4 | 1.647 | 2.479 | 15.0 | 22.7 |
| 2 1 | 10 35.70 | +10 30.5 | 1.539 | 2.465 | 9.9 | 16.8 | 2 1 | 10 35.38 | + 2 21.0 | 1.585 | 2.493 | 11.0 | 22.5 |
| 2 11 | 10 26.58 | +11 15.8 | 1.483 | 2.455 | 5.1 | 16.5 | 2 11 | 10 26.26 | + 3 9.0 | 1.546 | 2.507 | 6.6 | 22.2 |
| 2 21 | 10 15.91 | +12 6.4 | 1.456 | 2.444 | 0.5 | 16.2 | 2 21 | 10 15.92 | + 4 10.6 | 1.535 | 2.520 | 2.6 | 22.0 |
| 3 2 | 10 4.92 | +12 55.0 | 1.457 | 2.433 | 5.2 | 16.5 | 3 2 | 10 5.56 | + 5 19.0 | 1.554 | 2.532 | 4.6 | 22.2 |
| 3 12 | 9 55.02 | +13 34.9 | 1.486 | 2.421 | 10.1 | 16.7 | 3 12 | 9 56.41 | + 6 26.0 | 1.600 | 2.543 | 8.9 | 22.4 |
| 3 22 | 9 47.28 | +14 1.7 | 1.538 | 2.408 | 14.5 | 17.0 | 3 22 | 9 49.38 | + 7 25.3 | 1.672 | 2.553 | 12.9 | 22.7 |
| 4 1 | 9 42.43 | +14 13.5 | 1.611 | 2.395 | 18.2 | 17.2 | 4 1 | 9 45.05 | + 8 12.4 | 1.765 | 2.562 | 16.3 | 23.0 |
| 500992 | 2013 <i>RB</i> ₁₆ | | 2 21.3 | 223°44 | 0°4/21.7 | 17 | 88429 | 2001 <i>QM</i> ₆₄ | | 2 21.4 | 223°09 | 1°6/22.7 | 18 |
| 1 22 | 10 38.84 | + 8 8 | | | | | | | | | | | |

EPHEMERIDES

2 21.4

2 21.4

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 229542 | 2005 YP ₁₁₃ | | 2 21.4 166°01 | 2°9/18.6 | 18 | | 467692 | 2008 VK ₄₂ | | 2 21.4 156°44 | 3°9/17.4 | 16 | |
| 1 22 | 10 38.27 | +17 15.5 | 2.027 | 2.894 | 11.1 | 20.7 | 1 22 | 10 37.22 | +20 21.2 | 2.103 | 2.973 | 10.6 | 21.3 |
| 2 1 | 10 32.37 | +18 10.9 | 1.964 | 2.896 | 7.7 | 20.5 | 2 1 | 10 31.62 | +21 26.9 | 2.042 | 2.974 | 7.5 | 21.1 |
| 2 11 | 10 24.64 | +19 8.9 | 1.927 | 2.897 | 4.3 | 20.3 | 2 11 | 10 24.26 | +22 32.6 | 2.008 | 2.975 | 4.7 | 20.9 |
| 2 21 | 10 15.87 | +20 2.9 | 1.918 | 2.899 | 3.1 | 20.2 | 2 21 | 10 15.88 | +23 31.5 | 2.003 | 2.976 | 4.2 | 20.9 |
| 3 2 | 10 7.04 | +20 46.8 | 1.939 | 2.900 | 5.9 | 20.4 | 3 2 | 10 7.44 | +24 17.4 | 2.027 | 2.977 | 6.6 | 21.0 |
| 3 12 | 9 59.15 | +21 16.2 | 1.987 | 2.901 | 9.3 | 20.6 | 3 12 | 9 59.91 | +24 46.4 | 2.077 | 2.978 | 9.7 | 21.2 |
| 3 22 | 9 52.98 | +21 29.5 | 2.061 | 2.902 | 12.5 | 20.8 | 3 22 | 9 54.06 | +24 57.3 | 2.152 | 2.978 | 12.6 | 21.4 |
| 4 1 | 9 49.08 | +21 26.8 | 2.154 | 2.902 | 15.2 | 21.0 | 4 1 | 9 50.39 | +24 50.9 | 2.247 | 2.979 | 15.1 | 21.6 |
| 423787 | 2006 FC ₄₃ | | 2 21.4 277°15 | 1°3/22.7 | 18 | | 322790 | 2001 QO ₈₆ | | 2 21.4 144°47 | 5°3/26.4 | 18 | |
| 1 22 | 10 34.46 | + 3 13.5 | 1.974 | 2.814 | 12.5 | 20.7 | 1 22 | 10 37.76 | - 7 7.6 | 2.100 | 2.884 | 13.9 | 20.8 |
| 2 1 | 10 29.75 | + 4 9.7 | 1.896 | 2.811 | 9.1 | 20.4 | 2 1 | 10 31.94 | - 7 8.0 | 2.024 | 2.892 | 11.1 | 20.6 |
| 2 11 | 10 23.31 | + 5 22.4 | 1.844 | 2.809 | 5.2 | 20.2 | 2 11 | 10 24.42 | - 6 47.5 | 1.973 | 2.900 | 8.1 | 20.5 |
| 2 21 | 10 15.83 | + 6 46.5 | 1.820 | 2.807 | 1.5 | 19.9 | 2 21 | 10 15.90 | - 6 7.3 | 1.948 | 2.908 | 5.7 | 20.3 |
| 3 2 | 10 8.20 | + 8 15.0 | 1.826 | 2.805 | 3.8 | 20.1 | 3 2 | 10 7.28 | - 5 11.0 | 1.951 | 2.914 | 5.6 | 20.3 |
| 3 12 | 10 1.36 | + 9 40.3 | 1.860 | 2.803 | 7.9 | 20.3 | 3 12 | 9 59.50 | - 4 4.8 | 1.983 | 2.921 | 7.8 | 20.5 |
| 3 22 | 9 56.09 | +10 55.9 | 1.920 | 2.801 | 11.5 | 20.6 | 3 22 | 9 53.30 | - 2 55.3 | 2.041 | 2.927 | 10.7 | 20.7 |
| 4 1 | 9 52.94 | +11 57.7 | 2.003 | 2.799 | 14.7 | 20.8 | 4 1 | 9 49.21 | - 1 48.7 | 2.123 | 2.932 | 13.5 | 20.9 |
| 465848 | 2010 PQ ₅₁ | | 2 21.4 87°32 | 1°2/22.5 | 18 | | 110684 | 2001 TM ₂₀₂ | | 2 21.4 234°46 | 2°7/18.6 | 18 | |
| 1 22 | 10 38.56 | + 4 18.5 | 1.769 | 2.612 | 13.6 | 21.9 | 1 22 | 10 38.40 | +15 52.2 | 2.158 | 3.020 | 10.7 | 20.5 |
| 2 1 | 10 32.55 | + 5 1.6 | 1.717 | 2.634 | 9.7 | 21.7 | 2 1 | 10 32.53 | +17 3.2 | 2.076 | 3.006 | 7.4 | 20.3 |
| 2 11 | 10 24.70 | + 5 59.4 | 1.690 | 2.656 | 5.4 | 21.5 | 2 11 | 10 24.81 | +18 19.7 | 2.021 | 2.992 | 4.1 | 20.1 |
| 2 21 | 10 15.88 | + 7 6.2 | 1.691 | 2.678 | 1.4 | 21.3 | 2 21 | 10 15.92 | +19 34.8 | 1.995 | 2.976 | 2.9 | 20.0 |
| 3 2 | 10 7.13 | + 8 15.2 | 1.721 | 2.700 | 4.1 | 21.5 | 3 2 | 10 6.77 | +20 41.5 | 2.000 | 2.961 | 5.7 | 20.1 |
| 3 12 | 9 59.51 | + 9 19.2 | 1.779 | 2.721 | 8.2 | 21.8 | 3 12 | 9 58.36 | +21 34.1 | 2.033 | 2.944 | 9.3 | 20.3 |
| 3 22 | 9 53.76 | +10 13.1 | 1.862 | 2.742 | 11.9 | 22.1 | 3 22 | 9 51.55 | +22 9.8 | 2.092 | 2.927 | 12.6 | 20.5 |
| 4 1 | 9 50.38 | +10 53.7 | 1.968 | 2.762 | 14.9 | 22.3 | 4 1 | 9 46.92 | +22 27.8 | 2.171 | 2.909 | 15.4 | 20.6 |
| 517630 | 2014 YX ₅₅ | | 2 21.4 202°18 | 1°0/22.2 | 17 | | 248935 | 2006 WH ₅₅ | | 2 21.4 99°39 | 0°2/21.2 | 18 | |
| 1 22 | 10 38.77 | + 6 34.2 | 2.214 | 3.053 | 11.4 | 21.9 | 1 22 | 10 40.09 | + 9 4.7 | 1.858 | 2.709 | 12.6 | 21.0 |
| 2 1 | 10 32.59 | + 6 43.5 | 2.135 | 3.050 | 8.2 | 21.6 | 2 1 | 10 33.57 | + 9 43.2 | 1.806 | 2.730 | 8.8 | 20.8 |
| 2 11 | 10 24.73 | + 7 2.4 | 2.081 | 3.047 | 4.5 | 21.4 | 2 11 | 10 25.23 | +10 31.1 | 1.780 | 2.751 | 4.6 | 20.5 |
| 2 21 | 10 15.88 | + 7 27.8 | 2.057 | 3.044 | 1.1 | 21.1 | 2 21 | 10 15.93 | +11 22.6 | 1.782 | 2.771 | 0.2 | 20.2 |
| 3 2 | 10 6.90 | + 7 55.7 | 2.062 | 3.041 | 3.6 | 21.3 | 3 2 | 10 6.72 | +12 11.8 | 1.814 | 2.791 | 4.3 | 20.6 |
| 3 12 | 9 58.71 | + 8 21.9 | 2.097 | 3.037 | 7.4 | 21.6 | 3 12 | 9 58.63 | +12 53.1 | 1.875 | 2.810 | 8.4 | 20.9 |
| 3 22 | 9 52.05 | + 8 43.0 | 2.159 | 3.032 | 10.7 | 21.8 | 3 22 | 9 52.42 | +13 23.2 | 1.960 | 2.829 | 11.9 | 21.1 |
| 4 1 | 9 47.44 | + 8 56.4 | 2.243 | 3.028 | 13.6 | 21.9 | 4 1 | 9 48.55 | +13 40.5 | 2.068 | 2.847 | 14.8 | 21.4 |
| 162623 | 2000 SH ₁₁₉ | | 2 21.4 242°84 | 1°3/22.4 | 18 | | 81862 | 2000 KD ₇₄ | | 2 21.4 159°88 | 4°8/26.7 | 18 | |
| 1 22 | 10 39.33 | + 4 32.0 | 1.875 | 2.714 | 13.1 | 20.5 | 1 22 | 10 34.61 | - 7 40.8 | 2.440 | 3.218 | 12.3 | 19.7 |
| 2 1 | 10 33.39 | + 5 9.5 | 1.782 | 2.697 | 9.5 | 20.2 | 2 1 | 10 29.59 | - 7 34.1 | 2.358 | 3.221 | 9.9 | 19.5 |
| 2 11 | 10 25.35 | + 6 2.9 | 1.714 | 2.679 | 5.4 | 20.0 | 2 11 | 10 23.15 | - 7 8.5 | 2.300 | 3.223 | 7.3 | 19.4 |
| 2 21 | 10 15.91 | + 7 7.9 | 1.674 | 2.661 | 1.4 | 19.6 | 2 21 | 10 15.86 | - 6 25.3 | 2.268 | 3.226 | 5.2 | 19.3 |
| 3 2 | 10 6.10 | + 8 18.0 | 1.663 | 2.642 | 4.3 | 19.8 | 3 2 | 10 8.46 | - 5 27.8 | 2.266 | 3.228 | 5.1 | 19.2 |
| 3 12 | 9 57.07 | + 9 26.0 | 1.682 | 2.622 | 8.7 | 20.0 | 3 12 | 10 1.72 | - 4 21.0 | 2.292 | 3.230 | 6.9 | 19.4 |
| 3 22 | 9 49.80 | +10 25.7 | 1.726 | 2.602 | 12.9 | 20.2 | 3 22 | 9 56.28 | - 3 10.9 | 2.346 | 3.231 | 9.5 | 19.5 |
| 4 1 | 9 44.97 | +11 12.6 | 1.791 | 2.580 | 16.4 | 20.4 | 4 1 | 9 52.60 | - 2 3.0 | 2.424 | 3.233 | 12.0 | 19.7 |
| 169218 | 2001 RP ₁₂₇ | | 2 21.4 109°35 | 1°0/20.2 | 18 | | 191849 | 2004 VZ ₄₈ | | 2 21.4 133°66 | 0°3/21.0 | 18 | |
| 1 22 | 10 36.33 | +12 23.4 | 2.529 | 3.382 | 9.6 | 20.6 | 1 22 | 10 36.67 | + 9 8.4 | 2.165 | 3.015 | 11.1 | 20.7 |
| 2 1 | 10 30.63 | +13 6.0 | 2.472 | 3.399 | 6.6 | 20.4 | 2 1 | 10 31.11 | + 9 56.3 | 2.099 | 3.023 | 7.8 | 20.5 |
| 2 11 | 10 23.59 | +13 53.3 | 2.443 | 3.416 | 3.4 | 20.2 | 2 11 | 10 23.95 | +10 53.1 | 2.060 | 3.031 | 4.0 | 20.2 |
| 2 21 | 10 15.85 | +14 40.9 | 2.444 | 3.432 | 1.1 | 20.1 | 2 21 | 10 15.89 | +11 53.7 | 2.050 | 3.039 | 0.3 | 20.0 |
| 3 2 | 10 8.12 | +15 24.3 | 2.476 | 3.448 | 3.9 | 20.3 | 3 2 | 10 7.78 | +12 52.5 | 2.070 | 3.046 | 4.0 | 20.3 |
| 3 12 | 10 1.16 | +15 59.7 | 2.538 | 3.463 | 7.0 | 20.5 | 3 12 | 10 0.49 | +13 43.9 | 2.119 | 3.053 | 7.7 | 20.5 |
| 3 22 | 9 55.55 | +16 24.8 | 2.625 | 3.478 | 9.8 | 20.7 | 3 22 | 9 54.75 | +14 24.5 | 2.195 | 3.059 | 11.0 | 20.7 |
| 4 1 | 9 51.69 | +16 38.6 | 2.736 | 3.493 | 12.1 | 20.9 | 4 1 | 9 51.01 | +14 52.3 | 2.292 | 3.066 | 13.7 | 20.9 |
| 90014 | 2002 TO ₂₆₀ | | 2 21.4 158°72 | 2°4/19.1 | 18 | | 201385 | 2002 VB ₆ | | 2 21.4 70°95 | 1°2/20.2 | 18 | |
| 1 22 | 10 40.13 | +16 0.9 | 2.132 | 2.992 | 10.9 | 21.3 | 1 22 | 10 36.69 | +12 17.8 | 2.065 | 2.925 | 11.2 | 20.5 |
| 2 1 | 10 33.56 | +16 55.0 | 2.070 | 2.999 | 7.5 | 21.1 | 2 1 | 10 31.12 | +13 0.9 | 2.010 | 2.940 | 7.7 | 20.3 |
| 2 11 | 10 25.23 | +17 52.4 | 2.035 | 3.005 | 4.1 | 20.9 | 2 11 | 10 23.93 | +13 50.0 | 1.982 | 2.955 | 3.9 | 20.1 |
| 2 21 | 10 15.91 | +18 46.7 | 2.029 | 3.011 | 2.6 | 20.8 | 2 21 | 10 15.89 | +14 39.7 | 1.983 | 2.970 | 1.2 | 19.9 |
| 3 2 | 10 6.55 | +19 32.1 | 2.054 | 3.017 | 5.4 | 21.0 | 3 2 | 10 7.87 | +15 24.3 | 2.013 | 2.986 | 4.5 | 20.2 |
| 3 12 | 9 58.13 | +20 4.5 | 2.107 | 3.021 | 8.8 | 21.2 | 3 12 | 10 0.80 | +15 59.4 | 2.072 | 3.001 | 8.1 | 20.4 |
| 3 22 | 9 51.42 | +20 21.9 | 2.185 | 3.026 | 12.0 | 21.4 | 3 22 | 9 55.35 | +16 22.5 | 2.155 | 3.016 | 11.3 | 20.7 |
| 4 1 | 9 46.92 | +20 24.3 | 2.285 | 3.029 | 14.6 | 21.6 | 4 1 | 9 51.97 | +16 32.5 | 2.261 | 3.031 | 14.0 | 20.9 |
| 3567 | Alvema | | 2 21.4 68°90 | 3°4/24.3 | 18 R | | 173482 | 2000 ST ₈₄ | | 2 21.4 155°15 | 0°6/20.6 | 17 | |
| 1 22 | 10 40.20 | - 0 32.4 | 1.817 | 2.637 | 14.3 | 17.2 | 1 22 | 10 35.07 | +11 10.8 | 2.933 | 3.780 | 8.6 | 21.2 |
| 2 1 | 10 33.55 | - 0 26.5 | 1.772 | 2.671 | 10.7 | 17.0 | 2 1 | 10 29.68 | +11 47.7 | 2.863 | 3.787 | 6.0 | 21.0 |
| 2 11 | 10 25.16 | - 0 3.0 | 1.752 | 2.704 | 6.8 | 16.9 | 2 11 | 10 23.10 | +12 29.7 | 2.822 | 3.793 | 3.0 | 20.9 |
| 2 21 | 10 15.91 | + 0 34.6 | 1.758 | 2.737 | 3.7 | 16.8 | 2 21 | 10 15.86 | +13 13.1 | 2.811 | 3.799 | 0.6 | 20.7 |
| 3 2 | 10 6.84 | + 1 21.3 | 1.794 | 2.769 | 4.5 | 16.9 | 3 2 | 10 8.58 | +13 54.3 | 2.831 | 3.805 | 3.3 | 20.9 |
| 3 12 | 9 58.96 | + 2 10.7 | 1.858 | 2.802 | 7.8 | 17.1 | 3 12 | 10 1.91 | +14 29.7 | 2.882 | 3.810 | 6.1 | 21.1 |
| 3 22 | 9 52.97 | + 2 57.3 | 1.948 | 2.833 | 11.2 | 17.4 | 3 22 | 9 56.35 | +14 57.0 | 2.960 | 3.815 | 8.7 | 21.3 |
| 4 1 | 9 49.29 | + 3 36.8 | 2.060 | 2.865 | 14.0 | 17.7 | 4 1 | 9 52.32 | +15 14.8 | 3.061 | 3.819 | 10.9 | 21.4 |
| 196201 | 2003 BP ₇ | | 2 21.4 48°96 | 1°0/21.9 | 18 | | 312817 | 2011 QT ₆ | | 2 21.4 60°21 | 4°6/24.6 | 18 | |
| 1 22 | 10 40.30 | + 6 38.8 | 1.143 | 2.011 | 17.5 | 19.7 | 1 22 | 10 38.62 | - 1 48.1 | | | | |

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2 21.4

2 21.4

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 1931 | Capek | | 2 21.4 156°89 | 1°8/23.3 | 18 | | 226891 | 2004 TG ₁₃₉ | | 2 21.4 43°21 | 2°0/22.9 | 18 | |
| 1 22 | 10 37.82 | + 1 59.2 | 2.351 | 3.172 | 11.4 | 18.1 | 1 22 | 10 37.35 | + 3 57.5 | 1.739 | 2.583 | 13.7 | 20.2 |
| 2 1 | 10 31.82 | + 2 37.5 | 2.277 | 3.181 | 8.4 | 17.9 | 2 1 | 10 31.88 | + 4 9.6 | 1.673 | 2.589 | 10.0 | 19.9 |
| 2 11 | 10 24.31 | + 3 29.6 | 2.230 | 3.190 | 5.0 | 17.7 | 2 11 | 10 24.47 | + 4 36.5 | 1.632 | 2.596 | 5.9 | 19.7 |
| 2 21 | 10 15.93 | + 4 31.6 | 2.213 | 3.197 | 2.0 | 17.5 | 2 21 | 10 15.95 | + 5 14.4 | 1.617 | 2.603 | 2.2 | 19.5 |
| 3 2 | 10 7.48 | + 5 38.4 | 2.226 | 3.204 | 3.4 | 17.6 | 3 2 | 10 7.36 | + 5 57.9 | 1.630 | 2.610 | 4.2 | 19.6 |
| 3 12 | 9 59.79 | + 6 44.3 | 2.270 | 3.210 | 6.8 | 17.8 | 3 12 | 9 59.79 | + 6 40.9 | 1.671 | 2.617 | 8.4 | 19.9 |
| 3 22 | 9 53.53 | + 7 44.6 | 2.341 | 3.216 | 10.0 | 18.0 | 3 22 | 9 54.09 | + 7 18.2 | 1.737 | 2.625 | 12.2 | 20.1 |
| 4 1 | 9 49.16 | + 8 35.5 | 2.436 | 3.220 | 12.7 | 18.2 | 4 1 | 9 50.79 | + 7 45.9 | 1.824 | 2.632 | 15.4 | 20.4 |
| 206405 | 2003 SA ₇₂ | | 2 21.4 116°28 | 0°2/21.3 | 18 | | 522683 | 2016 HP ₂₅ | | 2 21.4 151°39 | 2°9/17.9 | 17 | |
| 1 22 | 10 43.41 | +10 31.1 | 1.637 | 2.492 | 13.8 | 20.6 | 1 22 | 10 36.25 | +18 42.1 | 2.576 | 3.439 | 9.1 | 21.7 |
| 2 1 | 10 36.18 | +10 38.8 | 1.575 | 2.500 | 9.7 | 20.4 | 2 1 | 10 30.68 | +19 43.1 | 2.516 | 3.445 | 6.4 | 21.6 |
| 2 11 | 10 26.72 | +10 54.6 | 1.538 | 2.509 | 5.1 | 20.2 | 2 11 | 10 23.70 | +20 44.9 | 2.483 | 3.451 | 3.7 | 21.4 |
| 2 21 | 10 16.01 | +11 13.8 | 1.528 | 2.517 | 0.2 | 19.8 | 2 21 | 10 15.93 | +21 42.3 | 2.481 | 3.457 | 3.1 | 21.4 |
| 3 2 | 10 5.31 | +11 31.2 | 1.548 | 2.525 | 4.8 | 20.2 | 3 2 | 10 8.11 | +22 30.1 | 2.508 | 3.462 | 5.2 | 21.5 |
| 3 12 | 9 55.88 | +11 42.2 | 1.595 | 2.533 | 9.4 | 20.5 | 3 12 | 10 1.02 | +23 5.0 | 2.565 | 3.467 | 8.0 | 21.7 |
| 3 22 | 9 48.67 | +11 44.1 | 1.667 | 2.540 | 13.4 | 20.7 | 3 22 | 9 55.29 | +23 25.4 | 2.647 | 3.472 | 10.6 | 21.9 |
| 4 1 | 9 44.23 | +11 35.7 | 1.759 | 2.547 | 16.7 | 20.9 | 4 1 | 9 51.34 | +23 31.4 | 2.750 | 3.476 | 12.8 | 22.1 |
| 88463 | 2001 QK ₁₀₁ | | 2 21.4 155°26 | 0°2/21.2 | 18 | | 406034 | 2006 TC ₉₁ | | 2 21.4 178°17 | 6°4/15.8 | 18 | |
| 1 22 | 10 40.33 | + 7 51.3 | 1.767 | 2.617 | 13.2 | 20.5 | 1 22 | 10 43.00 | +27 38.7 | 1.928 | 2.792 | 11.6 | 21.3 |
| 2 1 | 10 33.97 | + 8 49.2 | 1.702 | 2.625 | 9.3 | 20.3 | 2 1 | 10 35.86 | +28 45.7 | 1.873 | 2.794 | 8.8 | 21.1 |
| 2 11 | 10 25.57 | + 9 59.9 | 1.662 | 2.633 | 4.9 | 20.0 | 2 11 | 10 26.55 | +29 45.5 | 1.845 | 2.795 | 6.7 | 21.0 |
| 2 21 | 10 15.98 | +11 16.6 | 1.651 | 2.639 | 0.2 | 19.7 | 2 21 | 10 16.03 | +30 29.9 | 1.844 | 2.795 | 6.8 | 21.0 |
| 3 2 | 10 6.30 | +12 31.5 | 1.669 | 2.645 | 4.6 | 20.0 | 3 2 | 10 5.50 | +30 52.6 | 1.871 | 2.795 | 9.0 | 21.1 |
| 3 12 | 9 57.69 | +13 37.4 | 1.716 | 2.651 | 9.1 | 20.3 | 3 12 | 9 56.18 | +30 51.6 | 1.924 | 2.795 | 11.8 | 21.3 |
| 3 22 | 9 51.03 | +14 29.3 | 1.788 | 2.655 | 12.9 | 20.5 | 3 22 | 9 48.98 | +30 28.1 | 1.999 | 2.794 | 14.6 | 21.5 |
| 4 1 | 9 46.89 | +15 5.0 | 1.881 | 2.659 | 16.1 | 20.8 | 4 1 | 9 44.44 | +29 45.5 | 2.093 | 2.793 | 17.0 | 21.6 |
| 403856 | 2011 UE ₃₄₁ | | 2 21.4 66°16 | 1°6/20.3 | 18 | | 140417 | 2001 TT ₈₇ | | 2 21.4 172°28 | 2°2/23.7 | 18 | |
| 1 22 | 10 41.62 | +12 28.1 | 1.371 | 2.241 | 15.1 | 21.3 | 1 22 | 10 35.75 | + 1 34.0 | 2.541 | 3.361 | 10.7 | 20.2 |
| 2 1 | 10 35.08 | +13 9.5 | 1.327 | 2.260 | 10.4 | 21.0 | 2 1 | 10 30.33 | + 1 44.5 | 2.461 | 3.362 | 7.9 | 20.1 |
| 2 11 | 10 26.16 | +13 58.9 | 1.306 | 2.280 | 5.3 | 20.8 | 2 11 | 10 23.53 | + 2 7.1 | 2.408 | 3.364 | 4.9 | 19.9 |
| 2 21 | 10 15.99 | +14 48.3 | 1.312 | 2.299 | 1.7 | 20.6 | 2 21 | 10 15.93 | + 2 39.3 | 2.383 | 3.365 | 2.4 | 19.7 |
| 3 2 | 10 6.00 | +15 29.9 | 1.345 | 2.319 | 5.9 | 20.9 | 3 2 | 10 8.23 | + 3 17.7 | 2.389 | 3.366 | 3.4 | 19.8 |
| 3 12 | 9 57.56 | +15 57.9 | 1.404 | 2.339 | 10.7 | 21.3 | 3 12 | 10 1.19 | + 3 58.1 | 2.424 | 3.366 | 6.3 | 19.9 |
| 3 22 | 9 51.60 | +16 9.9 | 1.486 | 2.358 | 14.8 | 21.5 | 3 22 | 9 55.41 | + 4 36.6 | 2.487 | 3.367 | 9.3 | 20.1 |
| 4 1 | 9 48.61 | +16 5.7 | 1.587 | 2.378 | 18.1 | 21.8 | 4 1 | 9 51.35 | + 5 9.6 | 2.573 | 3.367 | 11.8 | 20.3 |
| 368798 | 2005 YT ₃₆ | | 2 21.4 117°81 | 3°3/24.2 | 18 | | 89487 | 2001 XU ₃₁ | | 2 21.4 116°98 | 1°7/20.0 | 18 | |
| 1 22 | 10 39.67 | - 0 13.3 | 2.150 | 2.963 | 12.6 | 21.1 | 1 22 | 10 41.13 | +11 55.2 | 1.645 | 2.507 | 13.4 | 19.3 |
| 2 1 | 10 33.17 | - 0 21.3 | 2.082 | 2.977 | 9.5 | 20.9 | 2 1 | 10 34.56 | +12 58.5 | 1.593 | 2.523 | 9.3 | 19.0 |
| 2 11 | 10 25.02 | - 0 14.6 | 2.040 | 2.990 | 6.2 | 20.7 | 2 11 | 10 25.87 | +14 10.2 | 1.566 | 2.539 | 4.7 | 18.8 |
| 2 21 | 10 15.96 | + 0 4.7 | 2.027 | 3.003 | 3.6 | 20.6 | 2 21 | 10 16.02 | +15 22.3 | 1.567 | 2.554 | 1.7 | 18.6 |
| 3 2 | 10 6.87 | + 0 33.3 | 2.042 | 3.016 | 4.3 | 20.6 | 3 2 | 10 6.21 | +16 26.7 | 1.597 | 2.568 | 5.6 | 18.9 |
| 3 12 | 9 58.68 | + 1 6.6 | 2.087 | 3.028 | 7.3 | 20.8 | 3 12 | 9 57.65 | +17 17.0 | 1.654 | 2.582 | 9.9 | 19.2 |
| 3 22 | 9 52.09 | + 1 39.8 | 2.159 | 3.040 | 10.4 | 21.0 | 3 22 | 9 51.23 | +17 50.2 | 1.736 | 2.596 | 13.6 | 19.5 |
| 4 1 | 9 47.59 | + 2 9.0 | 2.254 | 3.052 | 13.2 | 21.3 | 4 1 | 9 47.46 | +18 5.7 | 1.838 | 2.608 | 16.7 | 19.7 |
| 127686 | 2003 EM ₁₄ | | 2 21.4 217°51 | 4°1/17.9 | 17 | | 247103 | 2000 SL ₃₁₇ | | 2 21.4 232°60 | 4°6/26.1 | 18 | |
| 1 22 | 10 43.08 | +22 19.8 | 2.105 | 2.966 | 10.9 | 19.8 | 1 22 | 10 36.83 | - 6 28.8 | 2.774 | 3.548 | 11.1 | 21.0 |
| 2 1 | 10 35.76 | +22 55.7 | 2.034 | 2.960 | 7.9 | 19.6 | 2 1 | 10 31.09 | - 6 49.2 | 2.677 | 3.538 | 8.9 | 20.8 |
| 2 11 | 10 26.46 | +23 28.9 | 1.989 | 2.953 | 5.0 | 19.4 | 2 11 | 10 23.96 | - 6 54.9 | 2.605 | 3.527 | 6.7 | 20.6 |
| 2 21 | 10 16.01 | +23 53.1 | 1.974 | 2.946 | 4.3 | 19.3 | 2 21 | 10 15.95 | - 6 46.2 | 2.561 | 3.515 | 4.9 | 20.5 |
| 3 2 | 10 5.48 | +24 3.4 | 1.988 | 2.938 | 6.7 | 19.4 | 3 2 | 10 7.75 | - 6 24.5 | 2.546 | 3.504 | 4.9 | 20.5 |
| 3 12 | 9 55.96 | +23 57.3 | 2.031 | 2.931 | 9.9 | 19.6 | 3 12 | 10 0.07 | - 5 53.2 | 2.561 | 3.492 | 6.7 | 20.6 |
| 3 22 | 9 48.31 | +23 34.7 | 2.098 | 2.922 | 13.0 | 19.8 | 3 22 | 9 53.54 | - 5 16.4 | 2.603 | 3.479 | 9.0 | 20.7 |
| 4 1 | 9 43.10 | +22 57.4 | 2.186 | 2.914 | 15.6 | 20.0 | 4 1 | 9 48.66 | - 4 38.4 | 2.670 | 3.467 | 11.4 | 20.8 |
| 461805 | 2005 YY ₂₆ | | 2 21.4 123°38 | 2°2/19.4 | 17 | | 70176 | 1999 PO ₆ | | 2 21.4 208°15 | 0°9/22.2 | 18 | |
| 1 22 | 10 37.79 | +14 35.7 | 1.973 | 2.837 | 11.4 | 21.2 | 1 22 | 10 40.09 | + 6 2.7 | 1.969 | 2.809 | 12.5 | 20.8 |
| 2 1 | 10 32.05 | +15 30.6 | 1.911 | 2.843 | 7.9 | 21.0 | 2 1 | 10 33.76 | + 6 29.1 | 1.887 | 2.804 | 9.0 | 20.5 |
| 2 11 | 10 24.51 | +16 30.4 | 1.876 | 2.848 | 4.2 | 20.8 | 2 11 | 10 25.49 | + 7 8.0 | 1.831 | 2.798 | 5.0 | 20.3 |
| 2 21 | 10 15.94 | +17 28.8 | 1.870 | 2.854 | 2.3 | 20.7 | 2 21 | 10 16.01 | + 7 55.1 | 1.803 | 2.791 | 1.1 | 20.0 |
| 3 2 | 10 7.33 | +18 19.3 | 1.892 | 2.860 | 5.3 | 20.9 | 3 2 | 10 6.32 | + 8 45.0 | 1.805 | 2.783 | 4.0 | 20.2 |
| 3 12 | 9 59.68 | +18 57.1 | 1.943 | 2.865 | 9.0 | 21.1 | 3 12 | 9 57.50 | + 9 31.8 | 1.836 | 2.775 | 8.2 | 20.4 |
| 3 22 | 9 53.76 | +19 19.7 | 2.018 | 2.870 | 12.3 | 21.4 | 3 22 | 9 50.40 | +10 10.9 | 1.893 | 2.766 | 12.0 | 20.6 |
| 4 1 | 9 50.09 | +19 26.6 | 2.115 | 2.875 | 15.1 | 21.6 | 4 1 | 9 45.63 | +10 39.2 | 1.972 | 2.757 | 15.2 | 20.8 |
| 39907 | 1998 FO ₃₃ | | 2 21.4 277°41 | 0°4/21.7 | 18 | | 17118 | 1999 JM ₅₈ | | 2 21.4 204°17 | 0°2/21.6 | 18 | |
| 1 22 | 10 37.09 | + 6 17.8 | 1.552 | 2.409 | 14.4 | 19.3 | 1 22 | 10 35.31 | + 8 5.7 | 2.624 | 3.466 | 9.7 | 18.8 |
| 2 1 | 10 32.06 | + 7 10.4 | 1.474 | 2.400 | 10.3 | 19.0 | 2 1 | 10 30.02 | + 8 34.9 | 2.544 | 3.463 | 6.8 | 18.6 |
| 2 11 | 10 24.74 | + 8 20.5 | 1.420 | 2.390 | 5.5 | 18.7 | 2 11 | 10 23.37 | + 9 12.1 | 2.491 | 3.460 | 3.6 | 18.4 |
| 2 21 | 10 15.96 | + 9 41.6 | 1.392 | 2.381 | 0.5 | 18.3 | 2 21 | 10 15.93 | + 9 53.7 | 2.468 | 3.457 | 0.3 | 18.1 |
| 3 2 | 10 6.88 | +11 4.9 | 1.392 | 2.371 | 4.9 | 18.6 | 3 2 | 10 8.38 | +10 35.7 | 2.476 | 3.453 | 3.2 | 18.4 |
| 3 12 | 9 58.81 | +12 21.4 | 1.419 | 2.362 | 9.9 | 18.9 | 3 12 | 10 1.46 | +11 14.1 | 2.513 | 3.449 | 6.5 | 18.6 |
| 3 22 | 9 52.78 | +13 24.1 | 1.470 | 2.352 | 14.3 | 19.1 | 3 22 | 9 55.77 | +11 45.7 | 2.577 | 3.445 | 9.4 | 18.8 |
| 4 1 | 9 49.50 | +14 9.0 | 1.541 | 2.342 | 18.1 | 19.3 | 4 1 | 9 51.75 | +12 8.4 | 2.665 | 3.440 | 12.0 | 18.9 |
| 326038 | 2010 XE ₅₃ | | 2 21.4 313°49 | 9°9/12.3 | 18 | | 320213 | 2007 HP ₃₅ | | 2 21.4 236°11 | 2°1/19.5 | 17 | |
| 1 22 | 10 41.29 | +33 54.2 | 1.618 | 2.486 | 13.3 | 20.5 | 1 22 | 10 38.15 | +15 | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|--------|----------|------|---------------|-------------------------------|-----------------|----------|--------|----------|------|
| 253285 | 2003 <i>BS</i> ₂₈ | | 2 21.4 | 41°90 | 0°6/20.9 | 18 | 304002 | 2006 <i>BZ</i> ₂₆₀ | | 2 21.4 | 215°37 | 1°4/22.4 | 18 |
| 1 22 | 10 34.74 | + 6 20.4 | 1.340 | 2.208 | 15.5 | 19.2 | 1 22 | 10 41.50 | + 5 19.7 | 1.835 | 2.674 | 13.3 | 21.4 |
| 2 1 | 10 30.35 | + 8 2.5 | 1.295 | 2.227 | 10.8 | 19.0 | 2 1 | 10 34.89 | + 5 35.1 | 1.752 | 2.667 | 9.7 | 21.2 |
| 2 11 | 10 23.75 | +10 2.5 | 1.274 | 2.248 | 5.5 | 18.7 | 2 11 | 10 26.15 | + 6 3.9 | 1.694 | 2.659 | 5.5 | 20.9 |
| 2 21 | 10 15.94 | +12 9.3 | 1.280 | 2.269 | 0.6 | 18.4 | 2 21 | 10 16.06 | + 6 42.2 | 1.664 | 2.651 | 1.6 | 20.6 |
| 3 2 | 10 8.21 | +14 10.0 | 1.314 | 2.290 | 5.5 | 18.8 | 3 2 | 10 5.73 | + 7 24.9 | 1.663 | 2.642 | 4.3 | 20.8 |
| 3 12 | 10 1.80 | +15 53.6 | 1.373 | 2.313 | 10.4 | 19.2 | 3 12 | 9 56.31 | + 8 6.0 | 1.691 | 2.632 | 8.7 | 21.0 |
| 3 22 | 9 57.60 | +17 13.8 | 1.456 | 2.335 | 14.6 | 19.5 | 3 22 | 9 48.78 | + 8 40.6 | 1.744 | 2.621 | 12.7 | 21.3 |
| 4 1 | 9 56.10 | +18 8.5 | 1.559 | 2.358 | 18.0 | 19.8 | 4 1 | 9 43.78 | + 9 5.2 | 1.819 | 2.610 | 16.1 | 21.5 |
| 4199 | Andreev | | 2 21.4 | 153°12 | 3°3/18.5 | 18 | 405320 | 2003 <i>UU</i> ₁₆₄ | | 2 21.4 | 174°73 | 0°0/21.4 | 18 |
| 1 22 | 10 40.59 | +17 32.9 | 1.874 | 2.740 | 11.8 | 17.4 | 1 22 | 10 39.54 | + 7 59.8 | 2.060 | 2.904 | 11.8 | 22.2 |
| 2 1 | 10 34.11 | +18 36.3 | 1.815 | 2.747 | 8.2 | 17.2 | 2 1 | 10 33.25 | + 8 44.6 | 1.987 | 2.908 | 8.4 | 22.0 |
| 2 11 | 10 25.63 | +19 42.2 | 1.783 | 2.753 | 4.7 | 17.0 | 2 11 | 10 25.17 | + 9 40.0 | 1.940 | 2.910 | 4.4 | 21.7 |
| 2 21 | 10 16.02 | +20 42.9 | 1.779 | 2.758 | 3.5 | 16.9 | 2 21 | 10 16.03 | +10 40.9 | 1.923 | 2.912 | 0.2 | 21.4 |
| 3 2 | 10 6.37 | +21 31.6 | 1.804 | 2.763 | 6.4 | 17.1 | 3 2 | 10 6.78 | +11 41.2 | 1.936 | 2.913 | 4.1 | 21.7 |
| 3 12 | 9 57.80 | +22 3.6 | 1.857 | 2.768 | 10.0 | 17.3 | 3 12 | 9 58.40 | +12 35.0 | 1.979 | 2.913 | 8.1 | 22.0 |
| 3 22 | 9 51.17 | +22 17.5 | 1.934 | 2.772 | 13.4 | 17.5 | 3 22 | 9 51.69 | +13 18.3 | 2.048 | 2.913 | 11.6 | 22.2 |
| 4 1 | 9 47.02 | +22 13.9 | 2.030 | 2.776 | 16.1 | 17.7 | 4 1 | 9 47.18 | +13 48.5 | 2.138 | 2.912 | 14.6 | 22.4 |
| 33860 | 2000 <i>HZ</i> ₈₆ | | 2 21.4 | 142°83 | 0°7/20.7 | 18 | 498708 | 2008 <i>TG</i> ₇₇ | | 2 21.4 | 248°19 | 3°6/18.1 | 17 |
| 1 22 | 10 40.76 | + 9 30.5 | 1.910 | 2.760 | 12.4 | 19.2 | 1 22 | 10 39.95 | +20 17.7 | 2.112 | 2.977 | 10.7 | 21.7 |
| 2 1 | 10 34.12 | +10 32.3 | 1.850 | 2.774 | 8.6 | 19.0 | 2 1 | 10 33.62 | +21 1.5 | 2.038 | 2.967 | 7.6 | 21.5 |
| 2 11 | 10 25.60 | +11 44.0 | 1.815 | 2.787 | 4.4 | 18.8 | 2 11 | 10 25.40 | +21 45.1 | 1.990 | 2.957 | 4.6 | 21.2 |
| 2 21 | 10 16.02 | +12 59.0 | 1.811 | 2.799 | 0.7 | 18.6 | 2 21 | 10 16.04 | +22 22.4 | 1.970 | 2.946 | 3.8 | 21.2 |
| 3 2 | 10 6.42 | +14 9.9 | 1.836 | 2.810 | 4.6 | 18.9 | 3 2 | 10 6.53 | +22 47.7 | 1.981 | 2.935 | 6.3 | 21.3 |
| 3 12 | 9 57.86 | +15 10.4 | 1.891 | 2.821 | 8.7 | 19.1 | 3 12 | 9 57.92 | +22 57.7 | 2.019 | 2.924 | 9.6 | 21.5 |
| 3 22 | 9 51.14 | +15 56.7 | 1.971 | 2.830 | 12.3 | 19.4 | 3 22 | 9 51.04 | +22 51.4 | 2.081 | 2.913 | 12.8 | 21.7 |
| 4 1 | 9 46.80 | +16 27.2 | 2.073 | 2.839 | 15.2 | 19.6 | 4 1 | 9 46.46 | +22 29.6 | 2.164 | 2.902 | 15.5 | 21.8 |
| 328672 | 2009 <i>SO</i> ₂₈₉ | | 2 21.4 | 165°34 | 1°2/22.5 | 18 | 411230 | 2010 <i>PB</i> ₅₂ | | 2 21.4 | 124°94 | 4°3/26.0 | 18 |
| 1 22 | 10 36.37 | + 4 17.0 | 1.997 | 2.837 | 12.4 | 20.5 | 1 22 | 10 37.81 | - 6 8.0 | 2.182 | 2.969 | 13.3 | 21.8 |
| 2 1 | 10 31.07 | + 5 0.0 | 1.924 | 2.839 | 8.9 | 20.3 | 2 1 | 10 31.88 | - 5 39.0 | 2.114 | 2.988 | 10.4 | 21.7 |
| 2 11 | 10 24.03 | + 5 57.3 | 1.875 | 2.841 | 5.0 | 20.1 | 2 11 | 10 24.38 | - 4 49.5 | 2.071 | 3.005 | 7.3 | 21.5 |
| 2 21 | 10 15.97 | + 7 4.4 | 1.855 | 2.843 | 1.3 | 19.8 | 2 21 | 10 16.01 | - 3 42.3 | 2.055 | 3.022 | 4.7 | 21.4 |
| 3 2 | 10 7.78 | + 8 14.9 | 1.865 | 2.844 | 3.8 | 20.0 | 3 2 | 10 7.63 | - 2 22.5 | 2.070 | 3.039 | 4.7 | 21.4 |
| 3 12 | 10 0.44 | + 9 22.2 | 1.903 | 2.845 | 7.8 | 20.2 | 3 12 | 10 0.10 | - 0 56.9 | 2.113 | 3.054 | 7.2 | 21.6 |
| 3 22 | 9 54.70 | +10 21.0 | 1.967 | 2.846 | 11.4 | 20.4 | 3 22 | 9 54.11 | + 0 27.5 | 2.185 | 3.069 | 10.2 | 21.8 |
| 4 1 | 9 51.10 | +11 7.5 | 2.054 | 2.847 | 14.5 | 20.6 | 4 1 | 9 50.13 | + 1 45.1 | 2.280 | 3.083 | 12.9 | 22.0 |
| 372524 | 2009 <i>SU</i> ₃₄₂ | | 2 21.4 | 206°24 | 0°9/22.2 | 17 | 103387 | 2000 <i>AS</i> ₁₂₃ | | 2 21.4 | 90°67 | 4°2/24.3 | 18 |
| 1 22 | 10 36.93 | + 5 23.9 | 2.066 | 2.907 | 12.0 | 22.1 | 1 22 | 10 41.54 | - 1 3.3 | 1.391 | 2.222 | 17.2 | 19.3 |
| 2 1 | 10 31.46 | + 6 5.0 | 1.987 | 2.904 | 8.6 | 21.9 | 2 1 | 10 35.09 | - 0 55.3 | 1.356 | 2.240 | 13.0 | 19.0 |
| 2 11 | 10 24.25 | + 6 59.1 | 1.933 | 2.900 | 4.8 | 21.7 | 2 11 | 10 26.25 | - 0 23.9 | 1.304 | 2.258 | 8.4 | 18.8 |
| 2 21 | 10 15.98 | + 8 1.9 | 1.908 | 2.896 | 1.0 | 21.4 | 2 21 | 10 16.08 | + 0 27.3 | 1.297 | 2.276 | 4.5 | 18.6 |
| 3 2 | 10 7.55 | + 9 7.4 | 1.913 | 2.892 | 3.8 | 21.6 | 3 2 | 10 5.96 | + 1 31.2 | 1.316 | 2.293 | 5.5 | 18.7 |
| 3 12 | 9 59.90 | +10 9.3 | 1.947 | 2.887 | 7.8 | 21.8 | 3 12 | 9 57.26 | + 2 38.8 | 1.363 | 2.310 | 9.7 | 19.0 |
| 3 22 | 9 53.83 | +11 2.6 | 2.007 | 2.882 | 11.4 | 22.0 | 3 22 | 9 50.96 | + 3 41.7 | 1.433 | 2.327 | 13.8 | 19.3 |
| 4 1 | 9 49.88 | +11 44.0 | 2.089 | 2.876 | 14.4 | 22.2 | 4 1 | 9 47.60 | + 4 34.0 | 1.524 | 2.343 | 17.4 | 19.6 |
| 402516 | 2006 <i>DV</i> ₁₃₈ | | 2 21.4 | 255°36 | 1°2/20.3 | 18 | 218249 | 2002 <i>XL</i> ₁₁₁ | | 2 21.4 | 179°02 | 1°8/22.9 | 18 |
| 1 22 | 10 38.44 | +10 12.5 | 1.598 | 2.461 | 13.7 | 21.0 | 1 22 | 10 39.17 | + 3 49.6 | 1.985 | 2.819 | 12.7 | 20.5 |
| 2 1 | 10 33.03 | +11 18.6 | 1.519 | 2.449 | 9.6 | 20.7 | 2 1 | 10 33.06 | + 4 5.0 | 1.909 | 2.820 | 9.3 | 20.3 |
| 2 11 | 10 25.28 | +12 38.3 | 1.464 | 2.437 | 4.9 | 20.4 | 2 11 | 10 25.10 | + 4 33.8 | 1.858 | 2.821 | 5.4 | 20.0 |
| 2 21 | 10 16.02 | +14 3.9 | 1.437 | 2.425 | 1.3 | 20.1 | 2 21 | 10 16.05 | + 5 12.7 | 1.836 | 2.821 | 2.0 | 19.8 |
| 3 2 | 10 6.44 | +15 26.0 | 1.438 | 2.412 | 5.7 | 20.4 | 3 2 | 10 6.86 | + 5 56.9 | 1.843 | 2.821 | 3.9 | 19.9 |
| 3 12 | 9 57.85 | +16 35.9 | 1.467 | 2.399 | 10.5 | 20.6 | 3 12 | 9 58.56 | + 6 40.8 | 1.878 | 2.821 | 7.8 | 20.2 |
| 3 22 | 9 51.31 | +17 28.2 | 1.519 | 2.386 | 14.8 | 20.8 | 3 22 | 9 51.96 | + 7 19.5 | 1.940 | 2.820 | 11.5 | 20.4 |
| 4 1 | 9 47.54 | +18 0.4 | 1.590 | 2.373 | 18.4 | 21.0 | 4 1 | 9 47.60 | + 7 49.7 | 2.024 | 2.818 | 14.6 | 20.6 |
| 348418 | 2005 <i>NM</i> ₂₇ | | 2 21.4 | 161°59 | 1°4/23.1 | 17 | 497988 | 2007 <i>DK</i> ₃₀ | | 2 21.4 | 317°32 | 0°6/21.9 | 17 |
| 1 22 | 10 34.92 | + 3 37.5 | 2.927 | 3.750 | 9.3 | 22.1 | 1 22 | 10 34.07 | + 4 39.6 | 1.657 | 2.510 | 13.8 | 20.8 |
| 2 1 | 10 29.60 | + 3 56.9 | 2.849 | 3.755 | 6.8 | 22.0 | 2 1 | 10 29.85 | + 5 52.8 | 1.577 | 2.501 | 9.9 | 20.5 |
| 2 11 | 10 23.11 | + 4 25.8 | 2.799 | 3.760 | 4.0 | 21.8 | 2 11 | 10 23.58 | + 7 25.7 | 1.522 | 2.492 | 5.4 | 20.2 |
| 2 21 | 10 15.94 | + 5 1.5 | 2.779 | 3.764 | 1.6 | 21.6 | 2 21 | 10 16.01 | + 9 11.4 | 1.495 | 2.483 | 0.7 | 19.9 |
| 3 2 | 10 8.71 | + 5 40.8 | 2.790 | 3.768 | 2.8 | 21.7 | 3 2 | 10 8.19 | +11 0.4 | 1.496 | 2.475 | 4.6 | 20.1 |
| 3 12 | 10 2.06 | + 6 20.1 | 2.831 | 3.771 | 5.6 | 21.9 | 3 12 | 10 1.26 | +12 42.5 | 1.524 | 2.467 | 9.3 | 20.4 |
| 3 22 | 9 56.50 | + 6 56.1 | 2.900 | 3.774 | 8.3 | 22.1 | 3 22 | 9 56.16 | +14 10.0 | 1.578 | 2.459 | 13.5 | 20.6 |
| 4 1 | 9 52.44 | + 7 26.3 | 2.994 | 3.777 | 10.6 | 22.2 | 4 1 | 9 53.54 | +15 17.9 | 1.652 | 2.452 | 17.1 | 20.8 |
| 423181 | 2004 <i>GM</i> ₈₆ | | 2 21.4 | 226°63 | 2°3/18.8 | 17 | 371978 | 2008 <i>GC</i> ₅₂ | | 2 21.4 | 224°83 | 1°4/20.2 | 17 |
| 1 22 | 10 36.14 | +17 1.7 | 2.580 | 3.441 | 9.2 | 21.4 | 1 22 | 10 39.11 | +12 35.9 | 2.000 | 2.858 | 11.6 | 21.8 |
| 2 1 | 10 30.66 | +17 47.0 | 2.505 | 3.435 | 6.4 | 21.2 | 2 1 | 10 33.09 | +13 17.3 | 1.922 | 2.851 | 8.1 | 21.6 |
| 2 11 | 10 23.74 | +18 34.5 | 2.458 | 3.428 | 3.5 | 21.0 | 2 11 | 10 25.16 | +14 5.6 | 1.871 | 2.843 | 4.2 | 21.3 |
| 2 21 | 10 15.97 | +19 19.4 | 2.440 | 3.421 | 2.4 | 20.9 | 2 21 | 10 16.08 | +14 55.2 | 1.848 | 2.835 | 1.4 | 21.1 |
| 3 2 | 10 8.09 | +19 57.2 | 2.453 | 3.414 | 4.8 | 21.0 | 3 2 | 10 6.81 | +15 40.2 | 1.855 | 2.827 | 4.8 | 21.3 |
| 3 12 | 10 0.87 | +20 24.3 | 2.494 | 3.407 | 7.7 | 21.2 | 3 12 | 9 58.41 | +16 15.4 | 1.890 | 2.818 | 8.8 | 21.5 |
| 3 22 | 9 54.98 | +20 38.8 | 2.562 | 3.399 | 10.5 | 21.4 | 3 22 | 9 51.72 | +16 37.8 | 1.951 | 2.810 | 12.4 | 21.7 |
| 4 1 | 9 50.87 | +20 40.4 | 2.651 | 3.392 | 12.8 | 21.5 | 4 1 | 9 47.33 | +16 46.1 | 2.033 | 2.800 | 15.4 | 21.9 |
| 341460 | 2007 <i>TY</i> ₃₀₇ | | 2 21.4 | 227°62 | 0°2/21.2 | 17 | 109028 | 2001 <i>QX</i> ₉ | | 2 21.4 | 173°04 | 0°9/22.5 | 18 |
| 1 22 | 10 36.05 | | | | | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 61643 | 2000 <i>QN</i> ₁₀₈ | | 2 21.4 197°37 | 1°5/20.0 | 18 | | 345574 | 2006 <i>RN</i> ₁₁₇ | | 2 21.4 346°64 | 1°1/22.5 | 17 | |
| 1 22 | 10 41.04 | +12 36.4 | 2.055 | 2.909 | 11.5 | 20.6 | 1 22 | 10 34.31 | +5 5.1 | 2.144 | 2.987 | 11.5 | 20.8 |
| 2 1 | 10 34.39 | +13 29.0 | 1.979 | 2.906 | 8.0 | 20.4 | 2 1 | 10 29.59 | +5 37.9 | 2.068 | 2.985 | 8.3 | 20.6 |
| 2 11 | 10 25.83 | +14 28.6 | 1.929 | 2.901 | 4.1 | 20.1 | 2 11 | 10 23.29 | +6 23.0 | 2.017 | 2.983 | 4.7 | 20.4 |
| 2 21 | 10 16.10 | +15 29.2 | 1.909 | 2.896 | 1.6 | 19.9 | 2 21 | 10 16.05 | +7 16.7 | 1.994 | 2.981 | 1.2 | 20.1 |
| 3 2 | 10 6.20 | +16 24.4 | 1.920 | 2.890 | 4.9 | 20.1 | 3 2 | 10 8.68 | +8 13.5 | 2.001 | 2.980 | 3.6 | 20.3 |
| 3 12 | 9 57.18 | +17 8.8 | 1.960 | 2.883 | 8.8 | 20.4 | 3 12 | 10 2.06 | +9 7.9 | 2.036 | 2.979 | 7.3 | 20.5 |
| 3 22 | 9 49.88 | +17 39.3 | 2.025 | 2.876 | 12.3 | 20.6 | 3 22 | 9 56.89 | +9 55.3 | 2.097 | 2.978 | 10.7 | 20.8 |
| 4 1 | 9 44.90 | +17 54.7 | 2.112 | 2.867 | 15.3 | 20.8 | 4 1 | 9 53.68 | +10 32.2 | 2.181 | 2.977 | 13.6 | 20.9 |
| 430055 | 2013 <i>SL</i> ₁₅ | | 2 21.4 144°91 | 0°5/20.9 | 18 | | 233312 | 2006 <i>BH</i> ₁₂₉ | | 2 21.4 354°10 | 0°7/20.8 | 17 | |
| 1 22 | 10 38.48 | +10 42.4 | 2.163 | 3.014 | 11.1 | 21.5 | 1 22 | 10 36.12 | +9 47.9 | 1.822 | 2.682 | 12.4 | 20.3 |
| 2 1 | 10 32.42 | +11 13.5 | 2.096 | 3.021 | 7.7 | 21.3 | 2 1 | 10 31.08 | +10 37.7 | 1.753 | 2.682 | 8.7 | 20.1 |
| 2 11 | 10 24.70 | +11 51.7 | 2.055 | 3.027 | 4.0 | 21.0 | 2 11 | 10 24.14 | +11 38.1 | 1.708 | 2.681 | 4.5 | 19.8 |
| 2 21 | 10 16.06 | +12 32.3 | 2.044 | 3.032 | 0.5 | 20.8 | 2 21 | 10 16.08 | +12 43.0 | 1.692 | 2.680 | 0.7 | 19.5 |
| 3 2 | 10 7.36 | +13 10.4 | 2.063 | 3.038 | 4.1 | 21.1 | 3 2 | 10 7.89 | +13 45.3 | 1.704 | 2.680 | 4.7 | 19.8 |
| 3 12 | 9 59.54 | +13 41.6 | 2.110 | 3.043 | 7.8 | 21.3 | 3 12 | 10 0.63 | +14 38.7 | 1.744 | 2.680 | 8.9 | 20.0 |
| 3 22 | 9 53.30 | +14 3.0 | 2.184 | 3.048 | 11.1 | 21.5 | 3 22 | 9 55.14 | +15 18.8 | 1.809 | 2.680 | 12.6 | 20.3 |
| 4 1 | 9 49.13 | +14 13.1 | 2.280 | 3.052 | 13.8 | 21.7 | 4 1 | 9 51.96 | +15 43.5 | 1.894 | 2.680 | 15.8 | 20.5 |
| 261040 | 2005 <i>SJ</i> ₁₄₇ | | 2 21.4 82°65 | 0°6/21.9 | 18 | | 300390 | 2007 <i>RK</i> ₂₀₈ | | 2 21.4 69°49 | 2°3/19.8 | 18 | |
| 1 22 | 10 37.83 | +6 31.3 | 1.775 | 2.625 | 13.2 | 21.2 | 1 22 | 10 41.48 | +13 42.1 | 1.405 | 2.277 | 14.7 | 20.9 |
| 2 1 | 10 32.17 | +7 10.0 | 1.717 | 2.639 | 9.4 | 21.0 | 2 1 | 10 35.02 | +14 33.0 | 1.361 | 2.296 | 10.1 | 20.7 |
| 2 11 | 10 24.63 | +8 1.5 | 1.683 | 2.653 | 5.0 | 20.8 | 2 11 | 10 26.21 | +15 30.4 | 1.341 | 2.315 | 5.2 | 20.5 |
| 2 21 | 10 16.05 | +9 0.3 | 1.678 | 2.666 | 0.7 | 20.5 | 2 21 | 10 16.16 | +16 26.0 | 1.348 | 2.334 | 2.3 | 20.4 |
| 3 2 | 10 7.48 | +9 59.7 | 1.701 | 2.680 | 4.2 | 20.8 | 3 2 | 10 6.28 | +17 11.5 | 1.382 | 2.354 | 6.2 | 20.6 |
| 3 12 | 9 59.97 | +10 53.3 | 1.752 | 2.693 | 8.4 | 21.0 | 3 12 | 9 57.91 | +17 41.5 | 1.442 | 2.373 | 10.8 | 21.0 |
| 3 22 | 9 54.30 | +11 36.5 | 1.828 | 2.706 | 12.1 | 21.3 | 3 22 | 9 51.97 | +17 53.7 | 1.525 | 2.392 | 14.8 | 21.2 |
| 4 1 | 9 50.99 | +12 6.5 | 1.926 | 2.719 | 15.2 | 21.5 | 4 1 | 9 48.96 | +17 48.7 | 1.627 | 2.411 | 18.0 | 21.5 |
| 29860 | 1999 <i>FO</i> ₃₄ | | 2 21.4 340°92 | 0°2/21.6 | 18 | | 207841 | 2007 <i>UR</i> ₅₅ | | 2 21.4 172°00 | 1°3/20.0 | 18 | |
| 1 22 | 10 34.45 | +7 38.4 | 1.945 | 2.800 | 12.0 | 18.2 | 1 22 | 10 36.51 | +13 13.5 | 2.521 | 3.376 | 9.6 | 20.8 |
| 2 1 | 10 29.82 | +8 20.0 | 1.870 | 2.796 | 8.5 | 18.0 | 2 1 | 10 30.92 | +13 52.9 | 2.451 | 3.378 | 6.6 | 20.6 |
| 2 11 | 10 23.45 | +9 13.5 | 1.821 | 2.791 | 4.5 | 17.7 | 2 11 | 10 23.91 | +14 36.9 | 2.408 | 3.380 | 3.4 | 20.4 |
| 2 21 | 10 16.03 | +10 13.7 | 1.799 | 2.787 | 0.3 | 17.4 | 2 21 | 10 16.08 | +15 21.0 | 2.394 | 3.381 | 1.3 | 20.2 |
| 3 2 | 10 8.45 | +11 14.5 | 1.805 | 2.784 | 4.1 | 17.7 | 3 2 | 10 8.18 | +16 0.9 | 2.412 | 3.382 | 4.0 | 20.4 |
| 3 12 | 10 1.70 | +12 9.6 | 1.840 | 2.780 | 8.1 | 17.9 | 3 12 | 10 0.99 | +16 32.6 | 2.458 | 3.383 | 7.2 | 20.6 |
| 3 22 | 9 56.55 | +12 54.4 | 1.900 | 2.778 | 11.8 | 18.1 | 3 22 | 9 55.14 | +16 54.0 | 2.531 | 3.384 | 10.1 | 20.8 |
| 4 1 | 9 53.54 | +13 26.0 | 1.982 | 2.775 | 14.9 | 18.3 | 4 1 | 9 51.07 | +17 3.8 | 2.627 | 3.384 | 12.6 | 21.0 |
| 244636 | 2003 <i>ED</i> ₂ | | 2 21.4 357°36 | 4°1/18.2 | 18 | | 248646 | 2006 <i>HP</i> ₇ | | 2 21.4 276°67 | 2°3/23.3 | 17 | |
| 1 22 | 10 37.92 | +15 33.5 | 1.261 | 2.145 | 15.1 | 19.9 | 1 22 | 10 37.08 | +1 15.5 | 1.606 | 2.445 | 14.9 | 20.8 |
| 2 1 | 10 33.01 | +17 7.7 | 1.204 | 2.144 | 10.5 | 19.6 | 2 1 | 10 32.20 | +2 2.9 | 1.510 | 2.423 | 11.1 | 20.5 |
| 2 11 | 10 25.38 | +18 50.7 | 1.170 | 2.143 | 5.9 | 19.4 | 2 11 | 10 24.97 | +3 13.8 | 1.438 | 2.401 | 6.7 | 20.2 |
| 2 21 | 10 16.11 | +20 30.4 | 1.162 | 2.143 | 4.4 | 19.3 | 2 21 | 10 16.13 | +4 44.0 | 1.393 | 2.378 | 2.6 | 19.9 |
| 3 2 | 10 6.66 | +21 54.3 | 1.179 | 2.143 | 8.4 | 19.5 | 3 2 | 10 6.80 | +6 25.5 | 1.375 | 2.355 | 4.7 | 20.0 |
| 3 12 | 9 58.61 | +22 53.5 | 1.221 | 2.143 | 13.1 | 19.8 | 3 12 | 9 58.27 | +8 8.0 | 1.385 | 2.332 | 9.6 | 20.2 |
| 3 22 | 9 53.14 | +23 24.9 | 1.283 | 2.143 | 17.5 | 20.0 | 3 22 | 9 51.67 | +9 42.0 | 1.420 | 2.309 | 14.3 | 20.4 |
| 4 1 | 9 50.89 | +23 29.6 | 1.363 | 2.144 | 21.0 | 20.3 | 4 1 | 9 47.81 | +11 0.3 | 1.475 | 2.285 | 18.4 | 20.6 |
| 151172 | 2001 <i>XW</i> ₁₆₇ | | 2 21.4 113°04 | 1°2/20.3 | 18 | | 241909 | 2001 <i>YS</i> ₁₄₈ | | 2 21.4 310°17 | 4°3/18.3 | 18 | |
| 1 22 | 10 38.22 | +11 31.6 | 1.948 | 2.807 | 11.8 | 20.3 | 1 22 | 10 39.90 | +17 44.9 | 1.364 | 2.245 | 14.4 | 19.6 |
| 2 1 | 10 32.35 | +12 25.1 | 1.890 | 2.819 | 8.2 | 20.1 | 2 1 | 10 34.34 | +18 53.1 | 1.300 | 2.238 | 10.2 | 19.4 |
| 2 11 | 10 24.71 | +13 26.2 | 1.858 | 2.830 | 4.2 | 19.9 | 2 11 | 10 26.09 | +20 6.0 | 1.260 | 2.231 | 5.9 | 19.1 |
| 2 21 | 10 16.08 | +14 28.6 | 1.854 | 2.842 | 1.2 | 19.7 | 2 21 | 10 16.18 | +21 13.3 | 1.245 | 2.225 | 4.6 | 19.0 |
| 3 2 | 10 7.45 | +15 25.8 | 1.881 | 2.853 | 4.7 | 20.0 | 3 2 | 10 6.04 | +22 5.2 | 1.256 | 2.218 | 8.2 | 19.2 |
| 3 12 | 9 59.79 | +16 12.5 | 1.935 | 2.864 | 8.6 | 20.2 | 3 12 | 9 57.25 | +22 35.0 | 1.293 | 2.213 | 12.7 | 19.4 |
| 3 22 | 9 53.88 | +16 45.4 | 2.014 | 2.875 | 12.0 | 20.4 | 3 22 | 9 50.97 | +22 40.7 | 1.350 | 2.207 | 17.0 | 19.7 |
| 4 1 | 9 50.21 | +17 3.5 | 2.115 | 2.885 | 14.8 | 20.7 | 4 1 | 9 47.88 | +22 23.8 | 1.425 | 2.201 | 20.5 | 19.9 |
| 271083 | 2003 <i>ON</i> ₂₃ | | 2 21.4 200°65 | 1°4/22.8 | 17 | | 6397 | 1991 <i>BJ</i> | | 2 21.4 88°93 | 3°3/19.0 | 18 | |
| 1 22 | 10 36.65 | +4 14.8 | 2.212 | 3.047 | 11.5 | 21.4 | 1 22 | 10 40.83 | +16 7.7 | 1.466 | 2.340 | 14.0 | 16.6 |
| 2 1 | 10 31.19 | +4 41.5 | 2.132 | 3.045 | 8.4 | 21.1 | 2 1 | 10 34.73 | +17 6.1 | 1.408 | 2.344 | 9.8 | 16.3 |
| 2 11 | 10 24.12 | +5 20.8 | 2.078 | 3.042 | 4.8 | 20.9 | 2 11 | 10 26.17 | +18 9.5 | 1.375 | 2.347 | 5.3 | 16.1 |
| 2 21 | 10 16.07 | +6 8.9 | 2.053 | 3.039 | 1.6 | 20.7 | 2 21 | 10 16.19 | +19 8.9 | 1.368 | 2.350 | 3.5 | 16.0 |
| 3 2 | 10 7.89 | +7 1.2 | 2.058 | 3.036 | 3.6 | 20.8 | 3 2 | 10 6.14 | +19 55.9 | 1.388 | 2.354 | 7.0 | 16.2 |
| 3 12 | 10 0.45 | +7 52.3 | 2.091 | 3.033 | 7.2 | 21.0 | 3 12 | 9 57.44 | +20 24.6 | 1.434 | 2.357 | 11.5 | 16.4 |
| 3 22 | 9 54.46 | +8 37.6 | 2.152 | 3.030 | 10.6 | 21.2 | 3 22 | 9 51.11 | +20 33.2 | 1.503 | 2.361 | 15.5 | 16.7 |
| 4 1 | 9 50.46 | +9 13.7 | 2.235 | 3.026 | 13.5 | 21.4 | 4 1 | 9 47.74 | +20 22.4 | 1.590 | 2.364 | 18.8 | 16.9 |
| 109940 | 2001 <i>SR</i> ₄₁ | | 2 21.4 128°18 | 0°2/21.6 | 17 | | 52390 | 1993 <i>QS</i> ₄ | | 2 21.4 115°88 | 2°0/19.9 | 18 | |
| 1 22 | 10 35.83 | +8 11.4 | 2.538 | 3.381 | 9.9 | 20.7 | 1 22 | 10 43.97 | +15 49.6 | 1.973 | 2.829 | 11.8 | 19.0 |
| 2 1 | 10 30.38 | +8 44.9 | 2.472 | 3.391 | 7.0 | 20.5 | 2 1 | 10 36.28 | +16 11.5 | 1.919 | 2.846 | 8.2 | 18.8 |
| 2 11 | 10 23.59 | +9 26.3 | 2.432 | 3.401 | 3.7 | 20.3 | 2 11 | 10 26.73 | +16 35.3 | 1.892 | 2.863 | 4.3 | 18.6 |
| 2 21 | 10 16.05 | +10 11.7 | 2.422 | 3.411 | 0.2 | 20.0 | 2 21 | 10 16.21 | +16 56.0 | 1.893 | 2.879 | 2.1 | 18.4 |
| 3 2 | 10 8.48 | +10 56.9 | 2.443 | 3.420 | 3.3 | 20.3 | 3 2 | 10 5.81 | +17 9.0 | 1.925 | 2.894 | 5.1 | 18.7 |
| 3 12 | 10 1.62 | +11 37.6 | 2.493 | 3.429 | 6.6 | 20.6 | 3 12 | 9 56.58 | +17 11.3 | 1.986 | 2.909 | 8.8 | 18.9 |
| 3 22 | 9 56.05 | +12 10.7 | 2.570 | 3.437 | 9.5 | 20.8 | 3 22 | 9 49.31 | +17 1.9 | 2.073 | 2.923 | 12.1 | 19.1 |
| 4 1 | 9 52.20 | +12 34.3 | 2.671 | 3.445 | 11.9 | 20.9 | 4 1 | 9 44.46 | +16 41.4 | 2.181 | 2.937 | 14.8 | 19.4 |
| 199825 | 2007 <i>DX</i> ₉₇ | | 2 21.4 283°41 | 1°0/22.1 | 18 | | 146760 | 2001 <i>XZ</i> ₁₇₀ | | 2 21.4 110°49 | 0°5/20.8 | 18 | |
| 1 22 | 10 39.25 | +6 1.1 | 1.384 | 2 | | | | | | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|--------------|---------|------|---------------|-------------------------------|-----------------|---------------|--------------|---------|------|
| 109301 | 2001 <i>QR</i> ₁₂₈ | | 2 21.4 204°84 | 3°8/25.4 18 | | | 212085 | 2005 <i>EZ</i> ₁₁₄ | | 2 21.4 277°34 | 0°1/21.4 17 | | |
| 1 22 | 10 35.55 | - 3 45.3 | 2.492 | 3.288 | 11.6 | 20.2 | 1 22 | 10 38.92 | + 8 4.7 | 1.744 | 2.597 | 13.2 | 21.1 |
| 2 1 | 10 30.31 | - 3 41.9 | 2.406 | 3.286 | 9.0 | 20.0 | 2 1 | 10 33.41 | + 8 47.7 | 1.646 | 2.571 | 9.5 | 20.9 |
| 2 11 | 10 23.64 | - 3 22.8 | 2.344 | 3.283 | 6.3 | 19.8 | 2 11 | 10 25.60 | + 9 45.1 | 1.573 | 2.544 | 5.1 | 20.5 |
| 2 21 | 10 16.09 | - 2 49.5 | 2.311 | 3.279 | 4.1 | 19.7 | 2 21 | 10 16.20 | +10 51.5 | 1.527 | 2.516 | 0.2 | 20.1 |
| 3 2 | 10 8.41 | - 2 4.9 | 2.306 | 3.276 | 4.3 | 19.7 | 3 2 | 10 6.30 | +11 59.6 | 1.511 | 2.488 | 4.8 | 20.4 |
| 3 12 | 10 1.34 | - 1 13.8 | 2.332 | 3.272 | 6.6 | 19.8 | 3 12 | 9 57.15 | +13 1.7 | 1.522 | 2.460 | 9.7 | 20.6 |
| 3 22 | 9 55.55 | - 0 20.9 | 2.384 | 3.268 | 9.4 | 20.0 | 3 22 | 9 49.84 | +13 51.6 | 1.557 | 2.431 | 14.2 | 20.8 |
| 4 1 | 9 51.51 | + 0 29.0 | 2.460 | 3.264 | 12.0 | 20.1 | 4 1 | 9 45.18 | +14 25.9 | 1.614 | 2.402 | 17.9 | 21.0 |
| 70298 | 1999 <i>RJ</i> ₁₂₉ | | 2 21.4 122°88 | 0°1/21.5 18 | | | 423985 | 2006 <i>VD</i> ₅₈ | | 2 21.4 139°85 | 8°2/13.1 18 | | |
| 1 22 | 10 40.36 | + 7 43.3 | 1.903 | 2.749 | 12.6 | 20.6 | 1 22 | 10 43.83 | +33 59.8 | 2.067 | 2.920 | 11.5 | 22.5 |
| 2 1 | 10 33.85 | + 8 30.1 | 1.846 | 2.767 | 8.9 | 20.4 | 2 1 | 10 36.43 | +35 31.0 | 2.030 | 2.932 | 9.3 | 22.4 |
| 2 11 | 10 25.51 | + 9 27.7 | 1.814 | 2.784 | 4.7 | 20.2 | 2 11 | 10 26.92 | +36 49.2 | 2.020 | 2.943 | 8.2 | 22.3 |
| 2 21 | 10 16.17 | +10 30.6 | 1.811 | 2.800 | 0.2 | 19.9 | 2 21 | 10 16.24 | +37 45.9 | 2.037 | 2.953 | 8.7 | 22.4 |
| 3 2 | 10 6.86 | +11 32.0 | 1.839 | 2.816 | 4.2 | 20.2 | 3 2 | 10 5.63 | +38 15.7 | 2.080 | 2.962 | 10.4 | 22.5 |
| 3 12 | 9 58.60 | +12 25.9 | 1.895 | 2.831 | 8.3 | 20.5 | 3 12 | 9 56.30 | +38 17.6 | 2.148 | 2.972 | 12.6 | 22.7 |
| 3 22 | 9 52.17 | +13 8.4 | 1.977 | 2.845 | 11.8 | 20.8 | 3 22 | 9 49.12 | +37 54.2 | 2.237 | 2.980 | 14.8 | 22.8 |
| 4 1 | 9 48.07 | +13 37.3 | 2.081 | 2.859 | 14.8 | 21.0 | 4 1 | 9 44.62 | +37 9.9 | 2.344 | 2.988 | 16.6 | 23.0 |
| 382295 | 2012 <i>UW</i> ₁₆₈ | | 2 21.4 149°18 | 4°4/16.6 18 | | | 5078 | Solovjev-Sedoj | | 2 21.4 155°65 | 1°2/22.6 18 | | |
| 1 22 | 10 36.79 | +22 55.2 | 2.293 | 3.162 | 9.9 | 20.7 | 1 22 | 10 37.98 | + 4 36.1 | 2.353 | 3.184 | 11.1 | 18.9 |
| 2 1 | 10 31.30 | +24 4.7 | 2.235 | 3.163 | 7.1 | 20.6 | 2 1 | 10 32.00 | + 5 5.4 | 2.281 | 3.192 | 8.0 | 18.7 |
| 2 11 | 10 24.18 | +25 12.1 | 2.204 | 3.165 | 4.9 | 20.4 | 2 11 | 10 24.51 | + 5 45.9 | 2.235 | 3.199 | 4.5 | 18.5 |
| 2 21 | 10 16.12 | +26 11.0 | 2.202 | 3.166 | 4.7 | 20.4 | 2 21 | 10 16.15 | + 6 34.0 | 2.219 | 3.206 | 1.4 | 18.2 |
| 3 2 | 10 8.00 | +26 55.7 | 2.229 | 3.168 | 6.8 | 20.6 | 3 2 | 10 7.73 | + 7 25.1 | 2.234 | 3.212 | 3.4 | 18.4 |
| 3 12 | 10 0.71 | +27 22.7 | 2.282 | 3.169 | 9.6 | 20.7 | 3 12 | 10 0.07 | + 8 14.2 | 2.278 | 3.218 | 6.8 | 18.6 |
| 3 22 | 9 54.98 | +27 31.4 | 2.360 | 3.170 | 12.2 | 20.9 | 3 22 | 9 53.83 | + 8 57.4 | 2.349 | 3.223 | 10.0 | 18.8 |
| 4 1 | 9 51.30 | +27 22.9 | 2.458 | 3.172 | 14.4 | 21.1 | 4 1 | 9 49.49 | + 9 31.6 | 2.444 | 3.227 | 12.7 | 19.0 |
| 269244 | 2008 <i>QJ</i> ₁₇ | | 2 21.4 223°87 | 0°5/21.9 17 | | | 336757 | 2010 <i>QU</i> ₄ | | 2 21.4 329°07 | 11°7/24.3 18 | | |
| 1 22 | 10 37.29 | + 6 54.7 | 2.374 | 3.214 | 10.7 | 22.0 | 1 22 | 10 45.31 | - 3 53.6 | 0.901 | 1.747 | 23.1 | 19.7 |
| 2 1 | 10 31.62 | + 7 27.0 | 2.287 | 3.204 | 7.6 | 21.8 | 2 1 | 10 39.36 | - 6 18.4 | 0.832 | 1.733 | 19.0 | 19.4 |
| 2 11 | 10 24.37 | + 8 9.5 | 2.226 | 3.194 | 4.1 | 21.5 | 2 11 | 10 29.35 | - 8 22.5 | 0.780 | 1.720 | 14.8 | 19.1 |
| 2 21 | 10 16.13 | + 8 58.3 | 2.195 | 3.183 | 0.6 | 21.2 | 2 21 | 10 16.37 | - 9 56.1 | 0.748 | 1.708 | 11.9 | 18.9 |
| 3 2 | 10 7.71 | + 9 48.7 | 2.194 | 3.172 | 3.5 | 21.4 | 3 2 | 10 2.45 | -10 52.3 | 0.737 | 1.698 | 12.6 | 18.8 |
| 3 12 | 9 59.94 | +10 35.8 | 2.223 | 3.160 | 7.1 | 21.7 | 3 12 | 9 50.10 | -11 12.8 | 0.747 | 1.688 | 16.4 | 19.0 |
| 3 22 | 9 53.55 | +11 15.7 | 2.279 | 3.148 | 10.4 | 21.8 | 3 22 | 9 41.31 | -11 6.2 | 0.775 | 1.679 | 21.1 | 19.2 |
| 4 1 | 9 49.05 | +11 45.6 | 2.358 | 3.135 | 13.3 | 22.0 | 4 1 | 9 37.24 | -10 45.2 | 0.817 | 1.672 | 25.5 | 19.4 |
| 381329 | 2007 <i>VC</i> ₃₀₃ | | 2 21.4 48°93 | 11°6/ 6.8 17 | | | 131799 | 2002 <i>AD</i> ₅₃ | | 2 21.4 69°72 | 1°5/22.4 18 | | |
| 1 22 | 10 40.56 | +43 31.7 | 1.920 | 2.758 | 12.9 | 19.9 | 1 22 | 10 40.17 | + 4 53.3 | 1.361 | 2.216 | 16.1 | 20.4 |
| 2 1 | 10 34.57 | +45 54.6 | 1.914 | 2.778 | 11.8 | 19.8 | 2 1 | 10 34.21 | + 5 22.9 | 1.309 | 2.232 | 11.6 | 20.1 |
| 2 11 | 10 26.07 | +47 53.4 | 1.933 | 2.798 | 11.7 | 19.9 | 2 11 | 10 25.87 | + 6 10.2 | 1.279 | 2.247 | 6.5 | 19.9 |
| 2 21 | 10 16.19 | +49 18.8 | 1.976 | 2.818 | 12.6 | 20.0 | 2 21 | 10 16.22 | + 7 9.0 | 1.276 | 2.263 | 1.7 | 19.6 |
| 3 2 | 10 6.35 | +50 6.4 | 2.041 | 2.839 | 14.0 | 20.1 | 3 2 | 10 6.62 | + 8 11.0 | 1.299 | 2.279 | 4.9 | 19.9 |
| 3 12 | 9 57.99 | +50 17.1 | 2.126 | 2.860 | 15.6 | 20.3 | 3 12 | 9 58.43 | + 9 7.9 | 1.348 | 2.295 | 9.8 | 20.2 |
| 3 22 | 9 52.12 | +49 55.6 | 2.227 | 2.881 | 17.1 | 20.4 | 3 22 | 9 52.63 | + 9 53.5 | 1.421 | 2.311 | 14.2 | 20.5 |
| 4 1 | 9 49.26 | +49 8.5 | 2.341 | 2.903 | 18.2 | 20.6 | 4 1 | 9 49.76 | +10 24.4 | 1.514 | 2.327 | 17.8 | 20.8 |
| 221522 | 2006 <i>SK</i> ₁₅₄ | | 2 21.4 97°14 | 3°0/19.6 18 | | | 358089 | 2006 <i>JE</i> ₄₄ | | 2 21.4 355°38 | 1°2/20.6 16 | | |
| 1 22 | 10 45.08 | +15 14.1 | 1.296 | 2.168 | 15.6 | 20.1 | 1 22 | 10 36.21 | +10 17.5 | 1.148 | 2.030 | 16.4 | 21.0 |
| 2 1 | 10 37.75 | +16 3.5 | 1.250 | 2.185 | 10.8 | 19.9 | 2 1 | 10 31.96 | +11 7.1 | 1.087 | 2.026 | 11.5 | 20.7 |
| 2 11 | 10 27.73 | +16 58.1 | 1.227 | 2.200 | 5.7 | 19.6 | 2 11 | 10 24.93 | +12 12.0 | 1.048 | 2.023 | 6.0 | 20.4 |
| 2 21 | 10 16.27 | +17 48.4 | 1.231 | 2.216 | 3.1 | 19.5 | 2 21 | 10 16.19 | +13 23.4 | 1.032 | 2.021 | 1.2 | 20.1 |
| 3 2 | 10 4.97 | +18 26.0 | 1.262 | 2.231 | 7.0 | 19.8 | 3 2 | 10 7.24 | +14 30.2 | 1.042 | 2.020 | 6.4 | 20.4 |
| 3 12 | 9 55.40 | +18 45.5 | 1.318 | 2.246 | 11.8 | 20.1 | 3 12 | 9 59.72 | +15 22.9 | 1.075 | 2.019 | 12.0 | 20.7 |
| 3 22 | 9 48.59 | +18 45.9 | 1.396 | 2.261 | 16.0 | 20.4 | 3 22 | 9 54.83 | +15 55.9 | 1.129 | 2.020 | 17.0 | 21.0 |
| 4 1 | 9 45.08 | +18 28.3 | 1.493 | 2.275 | 19.5 | 20.6 | 4 1 | 9 53.24 | +16 7.1 | 1.200 | 2.022 | 21.0 | 21.3 |
| 299374 | 2005 <i>UB</i> ₂₆₁ | | 2 21.4 339°94 | 3°4/23.8 18 | | | 277996 | 2006 <i>UR</i> ₇₄ | | 2 21.4 38°16 | 1°1/22.1 18 | | |
| 1 22 | 10 38.31 | + 0 47.5 | 1.327 | 2.173 | 17.0 | 20.6 | 1 22 | 10 39.62 | + 6 59.5 | 1.255 | 2.121 | 16.5 | 20.4 |
| 2 1 | 10 33.18 | + 1 3.3 | 1.257 | 2.171 | 12.8 | 20.3 | 2 1 | 10 33.86 | + 7 10.8 | 1.212 | 2.140 | 11.7 | 20.2 |
| 2 11 | 10 25.49 | + 1 42.7 | 1.209 | 2.170 | 8.0 | 20.1 | 2 11 | 10 25.67 | + 7 37.2 | 1.190 | 2.161 | 6.4 | 19.9 |
| 2 21 | 10 16.19 | + 2 41.9 | 1.185 | 2.168 | 3.7 | 19.8 | 2 21 | 10 16.21 | + 8 12.7 | 1.194 | 2.182 | 1.3 | 19.7 |
| 3 2 | 10 6.64 | + 3 53.3 | 1.187 | 2.167 | 5.4 | 19.9 | 3 2 | 10 6.92 | + 8 50.3 | 1.223 | 2.204 | 5.1 | 20.0 |
| 3 12 | 9 58.33 | + 5 7.1 | 1.215 | 2.165 | 10.2 | 20.2 | 3 12 | 9 59.20 | + 9 22.7 | 1.278 | 2.226 | 10.1 | 20.3 |
| 3 22 | 9 52.38 | + 6 14.3 | 1.265 | 2.164 | 14.9 | 20.4 | 3 22 | 9 53.98 | + 9 45.2 | 1.355 | 2.249 | 14.5 | 20.6 |
| 4 1 | 9 49.50 | + 7 8.3 | 1.335 | 2.164 | 18.9 | 20.7 | 4 1 | 9 51.74 | + 9 55.0 | 1.452 | 2.273 | 18.1 | 20.9 |
| 201940 | 2004 <i>EO</i> ₄₃ | | 2 21.4 5°33 | 4°8/24.6 18 | | | 367774 | 2010 <i>XK</i> ₅ | | 2 21.4 76°11 | 6°5/15.6 18 | | |
| 1 22 | 10 35.57 | - 0 17.6 | 1.448 | 2.289 | 16.1 | 19.0 | 1 22 | 10 41.23 | +24 50.3 | 1.688 | 2.561 | 12.5 | 20.6 |
| 2 1 | 10 31.01 | - 0 51.5 | 1.382 | 2.290 | 12.4 | 18.7 | 2 1 | 10 34.65 | +26 37.0 | 1.662 | 2.589 | 9.2 | 20.5 |
| 2 11 | 10 24.24 | - 1 5.8 | 1.338 | 2.292 | 8.3 | 18.5 | 2 11 | 10 25.97 | +28 16.7 | 1.662 | 2.618 | 6.8 | 20.4 |
| 2 21 | 10 16.13 | - 1 1.5 | 1.319 | 2.295 | 5.1 | 18.3 | 2 21 | 10 16.22 | +29 39.1 | 1.690 | 2.645 | 6.9 | 20.5 |
| 3 2 | 10 7.90 | - 0 42.0 | 1.325 | 2.300 | 5.8 | 18.4 | 3 2 | 10 6.68 | +30 36.9 | 1.745 | 2.673 | 9.3 | 20.7 |
| 3 12 | 10 0.80 | - 0 13.4 | 1.357 | 2.307 | 9.4 | 18.6 | 3 12 | 9 58.55 | +31 7.3 | 1.826 | 2.700 | 12.2 | 20.9 |
| 3 22 | 9 55.80 | + 0 17.6 | 1.411 | 2.314 | 13.4 | 18.8 | 3 22 | 9 52.64 | +31 12.0 | 1.928 | 2.727 | 14.9 | 21.1 |
| 4 1 | 9 53.50 | + 0 45.0 | 1.486 | 2.324 | 16.9 | 19.1 | 4 1 | 9 49.42 | +30 54.6 | 2.048 | 2.753 | 17.1 | 21.4 |
| 15842 | 1995 <i>SX</i> ₂ | | 2 21.4 191°55 | 1°7/19.9 18 | | | 49181 | | | | | | |

EPHEMERIDES

2 21.4

2 21.4

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 277126 | 2005 <i>GO</i> ₁₁₉ | | 2 21.4 298°91 | 6°8/26.7 | 17 | | 242362 | 2004 <i>BR</i> ₁₅₀ | | 2 21.4 323°42 | 4°5/25.5 | 17 | |
| 1 22 | 10 37.61 | − 8 45.9 | 2.093 | 2.869 | 14.2 | 20.0 | 1 22 | 10 36.00 | − 3 48.5 | 2.080 | 2.885 | 13.3 | 20.2 |
| 2 1 | 10 32.13 | − 9 28.9 | 1.998 | 2.855 | 11.7 | 19.8 | 2 1 | 10 30.88 | − 3 58.5 | 1.997 | 2.881 | 10.4 | 20.0 |
| 2 11 | 10 24.77 | − 9 52.5 | 1.926 | 2.840 | 9.1 | 19.6 | 2 11 | 10 24.05 | − 3 50.6 | 1.938 | 2.877 | 7.3 | 19.8 |
| 2 21 | 10 16.20 | − 9 55.3 | 1.879 | 2.826 | 7.2 | 19.5 | 2 21 | 10 16.18 | − 3 25.7 | 1.905 | 2.874 | 4.9 | 19.6 |
| 3 2 | 10 7.28 | − 9 38.2 | 1.860 | 2.811 | 7.0 | 19.4 | 3 2 | 10 8.13 | − 2 47.0 | 1.901 | 2.870 | 5.1 | 19.6 |
| 3 12 | 9 59.03 | − 9 5.1 | 1.868 | 2.797 | 8.8 | 19.5 | 3 12 | 10 0.82 | − 1 59.7 | 1.924 | 2.867 | 7.7 | 19.8 |
| 3 22 | 9 52.31 | − 8 21.6 | 1.901 | 2.783 | 11.6 | 19.6 | 3 22 | 9 55.03 | − 1 9.6 | 1.974 | 2.863 | 10.8 | 19.9 |
| 4 1 | 9 47.76 | − 7 34.2 | 1.957 | 2.769 | 14.4 | 19.8 | 4 1 | 9 51.31 | − 0 22.0 | 2.046 | 2.860 | 13.7 | 20.1 |
| 291684 | 2006 <i>HK</i> ₉₇ | | 2 21.4 258°88 | 0°7/20.7 | 17 | | 374614 | 2006 <i>EN</i> ₂₂ | | 2 21.4 186°60 | 0°8/20.7 | 17 | |
| 1 22 | 10 37.21 | +11 6.5 | 2.063 | 2.919 | 11.3 | 21.3 | 1 22 | 10 37.48 | +10 57.7 | 2.143 | 2.997 | 11.1 | 21.8 |
| 2 1 | 10 31.70 | +11 40.0 | 1.990 | 2.917 | 7.9 | 21.1 | 2 1 | 10 31.84 | +11 36.7 | 2.070 | 2.997 | 7.7 | 21.6 |
| 2 11 | 10 24.45 | +12 20.9 | 1.943 | 2.915 | 4.1 | 20.8 | 2 11 | 10 24.51 | +12 23.1 | 2.024 | 2.996 | 4.0 | 21.4 |
| 2 21 | 10 16.18 | +13 4.5 | 1.924 | 2.913 | 0.7 | 20.6 | 2 21 | 10 16.20 | +13 12.1 | 2.008 | 2.996 | 0.8 | 21.1 |
| 3 2 | 10 7.79 | +13 45.4 | 1.936 | 2.911 | 4.3 | 20.8 | 3 2 | 10 7.78 | +13 58.3 | 2.020 | 2.995 | 4.2 | 21.4 |
| 3 12 | 10 0.25 | +14 18.7 | 1.975 | 2.908 | 8.1 | 21.1 | 3 12 | 10 0.18 | +14 36.8 | 2.062 | 2.994 | 8.0 | 21.6 |
| 3 22 | 9 54.31 | +14 41.3 | 2.040 | 2.906 | 11.6 | 21.3 | 3 22 | 9 54.14 | +15 4.3 | 2.129 | 2.993 | 11.3 | 21.8 |
| 4 1 | 9 50.50 | +14 51.7 | 2.127 | 2.904 | 14.5 | 21.5 | 4 1 | 9 50.17 | +15 19.4 | 2.219 | 2.991 | 14.1 | 22.0 |
| 496324 | 2013 <i>KU</i> ₁ | | 2 21.4 145°30 | 3°5/25.8 | 17 | | 344566 | 2002 <i>XY</i> ₄₂ | | 2 21.4 87°92 | 5°2/17.8 | 18 | |
| 1 22 | 10 37.03 | − 5 2.8 | 2.975 | 3.753 | 10.3 | 22.7 | 1 22 | 10 43.82 | +19 46.4 | 1.333 | 2.211 | 14.9 | 20.7 |
| 2 1 | 10 31.08 | − 4 49.0 | 2.900 | 3.769 | 8.1 | 22.6 | 2 1 | 10 36.86 | +21 5.6 | 1.294 | 2.229 | 10.5 | 20.5 |
| 2 11 | 10 23.95 | − 4 21.0 | 2.851 | 3.783 | 5.7 | 22.4 | 2 11 | 10 27.27 | +22 24.2 | 1.278 | 2.247 | 6.4 | 20.3 |
| 2 21 | 10 16.16 | − 3 40.5 | 2.831 | 3.796 | 3.8 | 22.3 | 2 21 | 10 16.31 | +23 31.0 | 1.289 | 2.264 | 5.5 | 20.3 |
| 3 2 | 10 8.34 | − 2 50.6 | 2.842 | 3.809 | 3.8 | 22.3 | 3 2 | 10 5.54 | +24 17.0 | 1.327 | 2.282 | 8.7 | 20.5 |
| 3 12 | 10 1.11 | − 1 55.3 | 2.884 | 3.821 | 5.7 | 22.5 | 3 12 | 9 56.47 | +24 37.9 | 1.389 | 2.299 | 12.8 | 20.8 |
| 3 22 | 9 55.02 | − 0 58.9 | 2.955 | 3.832 | 8.1 | 22.6 | 3 22 | 9 50.12 | +24 34.1 | 1.473 | 2.316 | 16.5 | 21.1 |
| 4 1 | 9 50.45 | − 0 5.5 | 3.051 | 3.842 | 10.2 | 22.8 | 4 1 | 9 46.97 | +24 9.0 | 1.574 | 2.333 | 19.5 | 21.3 |
| 172325 | 2002 <i>UW</i> ₃₂ | | 2 21.4 125°14 | 2°4/19.4 | 18 | | 150736 | 2001 <i>QW</i> ₅₁ | | 2 21.4 235°37 | 2°5/19.0 | 18 | |
| 1 22 | 10 40.62 | +15 15.9 | 1.876 | 2.739 | 12.0 | 20.1 | 1 22 | 10 38.78 | +15 6.6 | 1.994 | 2.857 | 11.4 | 20.4 |
| 2 1 | 10 34.13 | +16 5.9 | 1.820 | 2.750 | 8.3 | 19.9 | 2 1 | 10 32.98 | +16 11.1 | 1.915 | 2.846 | 7.9 | 20.1 |
| 2 11 | 10 25.71 | +17 0.0 | 1.789 | 2.761 | 4.4 | 19.7 | 2 11 | 10 25.22 | +17 21.6 | 1.862 | 2.834 | 4.3 | 19.9 |
| 2 21 | 10 16.24 | +17 51.3 | 1.787 | 2.771 | 2.5 | 19.5 | 2 21 | 10 16.23 | +18 31.3 | 1.839 | 2.822 | 2.7 | 19.8 |
| 3 2 | 10 6.77 | +18 33.7 | 1.815 | 2.782 | 5.6 | 19.8 | 3 2 | 10 7.01 | +19 32.9 | 1.845 | 2.810 | 5.7 | 19.9 |
| 3 12 | 9 58.40 | +19 2.6 | 1.870 | 2.791 | 9.4 | 20.0 | 3 12 | 9 58.61 | +20 20.6 | 1.879 | 2.797 | 9.6 | 20.1 |
| 3 22 | 9 51.93 | +19 16.1 | 1.950 | 2.801 | 12.8 | 20.2 | 3 22 | 9 51.93 | +20 51.5 | 1.938 | 2.783 | 13.1 | 20.3 |
| 4 1 | 9 47.88 | +19 14.2 | 2.051 | 2.809 | 15.6 | 20.5 | 4 1 | 9 47.59 | +21 4.7 | 2.018 | 2.769 | 16.0 | 20.5 |
| 71446 | 2000 <i>AP</i> ₂₃₇ | | 2 21.4 110°59 | 0°2/21.6 | 18 | | 292588 | 2006 <i>TL</i> ₉₉ | | 2 21.4 199°33 | 2°8/24.7 | 17 | |
| 1 22 | 10 35.79 | + 6 29.0 | 2.311 | 3.153 | 10.8 | 18.4 | 1 22 | 10 34.19 | − 1 30.4 | 2.590 | 3.398 | 10.9 | 21.3 |
| 2 1 | 10 30.47 | + 7 30.6 | 2.250 | 3.169 | 7.6 | 18.2 | 2 1 | 10 29.34 | − 1 8.5 | 2.505 | 3.396 | 8.3 | 21.1 |
| 2 11 | 10 23.71 | + 8 42.8 | 2.216 | 3.185 | 4.0 | 18.0 | 2 11 | 10 23.14 | − 0 32.2 | 2.446 | 3.394 | 5.4 | 20.9 |
| 2 21 | 10 16.16 | +10 0.4 | 2.212 | 3.200 | 0.3 | 17.7 | 2 21 | 10 16.15 | + 0 16.2 | 2.415 | 3.392 | 3.1 | 20.8 |
| 3 2 | 10 8.58 | +11 17.4 | 2.238 | 3.216 | 3.5 | 18.0 | 3 2 | 10 9.04 | + 1 13.1 | 2.415 | 3.390 | 3.6 | 20.8 |
| 3 12 | 10 1.79 | +12 28.0 | 2.295 | 3.230 | 7.0 | 18.3 | 3 12 | 10 2.52 | + 2 13.5 | 2.444 | 3.387 | 6.2 | 21.0 |
| 3 22 | 9 56.40 | +13 27.9 | 2.378 | 3.245 | 10.1 | 18.5 | 3 22 | 9 57.20 | + 3 12.7 | 2.500 | 3.385 | 9.1 | 21.1 |
| 4 1 | 9 52.86 | +14 14.7 | 2.484 | 3.259 | 12.7 | 18.7 | 4 1 | 9 53.52 | + 4 6.4 | 2.581 | 3.382 | 11.6 | 21.3 |
| 340615 | 2006 <i>QO</i> ₇₁ | | 2 21.4 161°77 | 0°3/21.1 | 18 | | 258771 | 2002 <i>JQ</i> ₃₂ | | 2 21.4 296°25 | 1°4/22.4 | 17 | |
| 1 22 | 10 35.47 | + 9 48.7 | 2.835 | 3.679 | 9.0 | 22.0 | 1 22 | 10 38.19 | + 5 21.8 | 1.465 | 2.321 | 15.2 | 20.8 |
| 2 1 | 10 30.09 | +10 26.4 | 2.763 | 3.684 | 6.3 | 21.8 | 2 1 | 10 33.17 | + 5 45.3 | 1.375 | 2.299 | 11.1 | 20.5 |
| 2 11 | 10 23.47 | +11 10.3 | 2.719 | 3.689 | 3.2 | 21.6 | 2 11 | 10 25.60 | + 6 26.7 | 1.309 | 2.277 | 6.3 | 20.2 |
| 2 21 | 10 16.15 | +11 56.9 | 2.705 | 3.694 | 0.3 | 21.4 | 2 21 | 10 16.27 | + 7 21.7 | 1.267 | 2.255 | 1.6 | 19.8 |
| 3 2 | 10 8.77 | +12 42.0 | 2.722 | 3.698 | 3.2 | 21.6 | 3 2 | 10 6.44 | + 8 23.1 | 1.253 | 2.233 | 5.0 | 20.0 |
| 3 12 | 10 2.01 | +13 22.0 | 2.770 | 3.701 | 6.2 | 21.8 | 3 12 | 9 57.53 | + 9 22.5 | 1.265 | 2.212 | 10.3 | 20.2 |
| 3 22 | 9 56.39 | +13 54.2 | 2.845 | 3.704 | 8.9 | 22.0 | 3 22 | 9 50.78 | +10 12.5 | 1.300 | 2.190 | 15.2 | 20.4 |
| 4 1 | 9 52.34 | +14 16.8 | 2.944 | 3.707 | 11.2 | 22.2 | 4 1 | 9 47.03 | +10 48.1 | 1.354 | 2.169 | 19.4 | 20.6 |
| 336369 | 2008 <i>UU</i> ₄₀ | | 2 21.4 230°42 | 0°6/22.0 | 17 | | 382538 | 2001 <i>TP</i> ₁₇₃ | | 2 21.4 82°00 | 2°3/19.2 | 18 | |
| 1 22 | 10 36.79 | + 6 57.9 | 2.132 | 2.976 | 11.5 | 21.4 | 1 22 | 10 37.69 | +16 24.4 | 2.261 | 3.123 | 10.3 | 21.0 |
| 2 1 | 10 31.37 | + 7 23.9 | 2.054 | 2.973 | 8.2 | 21.2 | 2 1 | 10 31.80 | +17 7.9 | 2.211 | 3.141 | 7.1 | 20.8 |
| 2 11 | 10 24.28 | + 8 0.5 | 2.002 | 2.970 | 4.5 | 21.0 | 2 11 | 10 24.40 | +17 53.3 | 2.187 | 3.158 | 3.8 | 20.7 |
| 2 21 | 10 16.18 | + 8 43.7 | 1.979 | 2.967 | 0.8 | 20.7 | 2 21 | 10 16.21 | +18 35.5 | 2.193 | 3.176 | 2.4 | 20.6 |
| 3 2 | 10 7.95 | + 9 28.6 | 1.985 | 2.964 | 3.7 | 20.9 | 3 2 | 10 8.08 | +19 9.5 | 2.229 | 3.193 | 4.9 | 20.8 |
| 3 12 | 10 0.50 | +10 10.1 | 2.020 | 2.960 | 7.5 | 21.1 | 3 12 | 10 0.86 | +19 32.0 | 2.293 | 3.210 | 8.1 | 21.0 |
| 3 22 | 9 54.57 | +10 44.1 | 2.082 | 2.957 | 11.0 | 21.3 | 3 22 | 9 55.18 | +19 41.7 | 2.382 | 3.227 | 10.9 | 21.2 |
| 4 1 | 9 50.69 | +11 8.0 | 2.165 | 2.953 | 13.9 | 21.5 | 4 1 | 9 51.47 | +19 38.4 | 2.494 | 3.244 | 13.3 | 21.4 |
| 144941 | 2005 <i>EW</i> ₂₃ | | 2 21.4 279°49 | 1°2/22.4 | 18 | | 40448 | 1999 <i>RT</i> ₃₇ | | 2 21.4 188°38 | 2°2/19.7 | 18 | |
| 1 22 | 10 37.17 | + 4 34.2 | 1.577 | 2.428 | 14.5 | 19.8 | 1 22 | 10 42.24 | +15 7.5 | 1.860 | 2.720 | 12.2 | 19.5 |
| 2 1 | 10 32.13 | + 5 18.8 | 1.500 | 2.422 | 10.5 | 19.6 | 2 1 | 10 35.40 | +15 45.2 | 1.790 | 2.720 | 8.5 | 19.2 |
| 2 11 | 10 24.87 | + 6 21.7 | 1.448 | 2.416 | 5.9 | 19.3 | 2 11 | 10 26.47 | +16 27.3 | 1.747 | 2.719 | 4.5 | 19.0 |
| 2 21 | 10 16.21 | + 7 37.2 | 1.422 | 2.410 | 1.4 | 19.0 | 2 21 | 10 16.32 | +17 7.4 | 1.732 | 2.718 | 2.3 | 18.8 |
| 3 2 | 10 7.30 | + 8 57.2 | 1.424 | 2.404 | 4.6 | 19.2 | 3 2 | 10 6.05 | +17 39.5 | 1.747 | 2.716 | 5.5 | 19.0 |
| 3 12 | 9 59.40 | +10 13.0 | 1.453 | 2.398 | 9.4 | 19.4 | 3 12 | 9 56.85 | +17 59.1 | 1.790 | 2.713 | 9.5 | 19.3 |
| 3 22 | 9 53.51 | +11 17.4 | 1.506 | 2.392 | 13.8 | 19.7 | 3 22 | 9 49.60 | +18 4.3 | 1.857 | 2.710 | 13.2 | 19.5 |
| 4 1 | 9 50.28 | +12 6.0 | 1.580 | 2.387 | 17.5 | 19.9 | 4 1 | 9 44.90 | +17 55.1 | 1.946 | 2.707 | 16.2 | 19.7 |
| 402931 | 2007 <i>TJ</i> ₂₁₃ | | 2 21.4 67°98 | 0°6/21.9 | 18 | | 161575 | 2005 <i>EZ</i> ₁₀ | | 2 21.4 77°41 | 0°9/22.2 | | |

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2 21.4

2 21.4

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 262929 | 2007 <i>DS</i> ₉ | | 2 21.4 322°30 | 5°2/24.8 | 17 | | 375940 | 2009 <i>WF</i> ₁₀₁ | | 2 21.4 357°10 | 3°0/18.8 | 18 | |
| 1 22 | 10 37.46 | - 1 50.9 | 1.556 | 2.384 | 15.9 | 19.5 | 1 22 | 10 37.53 | +16 13.1 | 1.811 | 2.682 | 12.0 | 21.0 |
| 2 1 | 10 32.48 | - 2 19.0 | 1.469 | 2.369 | 12.4 | 19.2 | 2 1 | 10 32.16 | +17 14.3 | 1.747 | 2.681 | 8.3 | 20.7 |
| 2 11 | 10 25.15 | - 2 27.0 | 1.405 | 2.353 | 8.6 | 19.0 | 2 11 | 10 24.80 | +18 20.0 | 1.709 | 2.681 | 4.6 | 20.5 |
| 2 21 | 10 16.27 | - 2 15.1 | 1.365 | 2.338 | 5.5 | 18.8 | 2 21 | 10 16.28 | +19 22.6 | 1.699 | 2.681 | 3.1 | 20.4 |
| 3 2 | 10 6.99 | - 1 46.2 | 1.351 | 2.324 | 6.1 | 18.8 | 3 2 | 10 7.65 | +20 15.1 | 1.717 | 2.681 | 6.2 | 20.6 |
| 3 12 | 9 58.63 | - 1 6.4 | 1.363 | 2.311 | 9.7 | 18.9 | 3 12 | 10 0.03 | +20 52.1 | 1.762 | 2.681 | 10.0 | 20.8 |
| 3 22 | 9 52.27 | - 0 22.7 | 1.399 | 2.298 | 13.8 | 19.1 | 3 22 | 9 54.26 | +21 11.2 | 1.831 | 2.681 | 13.5 | 21.0 |
| 4 1 | 9 48.69 | + 0 18.0 | 1.455 | 2.286 | 17.5 | 19.3 | 4 1 | 9 50.92 | +21 12.5 | 1.919 | 2.681 | 16.4 | 21.2 |
| 214226 | 2005 <i>EW</i> ₁₄₂ | | 2 21.4 9°52 | 0°6/21.9 | 18 | | 162533 | 2000 <i>QW</i> ₁₄₆ | | 2 21.4 225°42 | 2°2/19.8 | 18 | |
| 1 22 | 10 36.03 | + 5 35.0 | 1.383 | 2.245 | 15.5 | 19.9 | 1 22 | 10 42.26 | +14 27.9 | 1.715 | 2.578 | 12.9 | 20.3 |
| 2 1 | 10 31.48 | + 6 31.2 | 1.318 | 2.245 | 11.1 | 19.6 | 2 1 | 10 35.64 | +15 9.4 | 1.640 | 2.570 | 9.1 | 20.0 |
| 2 11 | 10 24.58 | + 7 46.7 | 1.276 | 2.246 | 6.0 | 19.4 | 2 11 | 10 26.72 | +15 56.9 | 1.590 | 2.562 | 4.8 | 19.8 |
| 2 21 | 10 16.24 | + 9 14.1 | 1.259 | 2.248 | 0.8 | 19.0 | 2 21 | 10 16.37 | +16 43.6 | 1.568 | 2.554 | 2.3 | 19.6 |
| 3 2 | 10 7.75 | +10 43.4 | 1.270 | 2.250 | 5.0 | 19.3 | 3 2 | 10 5.79 | +17 22.5 | 1.575 | 2.545 | 5.9 | 19.8 |
| 3 12 | 10 0.44 | +12 4.5 | 1.307 | 2.252 | 10.2 | 19.6 | 3 12 | 9 56.28 | +17 48.3 | 1.609 | 2.535 | 10.2 | 20.0 |
| 3 22 | 9 55.34 | +13 10.0 | 1.366 | 2.255 | 14.7 | 19.9 | 3 22 | 9 48.85 | +17 58.3 | 1.668 | 2.525 | 14.2 | 20.2 |
| 4 1 | 9 53.09 | +13 56.0 | 1.445 | 2.258 | 18.5 | 20.1 | 4 1 | 9 44.17 | +17 52.2 | 1.746 | 2.515 | 17.5 | 20.4 |
| 490129 | 2008 <i>UZ</i> ₁₀₄ | | 2 21.4 139°46 | 0°3/21.2 | 17 | | 500512 | 2012 <i>TV</i> ₂₈₈ | | 2 21.4 171°10 | 4°2/25.8 | 17 | |
| 1 22 | 10 37.60 | + 9 47.6 | 2.192 | 3.042 | 11.0 | 22.3 | 1 22 | 10 35.98 | - 4 48.2 | 2.505 | 3.295 | 11.7 | 21.9 |
| 2 1 | 10 31.86 | +10 19.6 | 2.123 | 3.047 | 7.7 | 22.1 | 2 1 | 10 30.63 | - 4 52.2 | 2.422 | 3.296 | 9.2 | 21.7 |
| 2 11 | 10 24.51 | +10 59.4 | 2.081 | 3.052 | 4.0 | 21.9 | 2 11 | 10 23.86 | - 4 40.3 | 2.364 | 3.298 | 6.6 | 21.6 |
| 2 21 | 10 16.24 | +11 42.6 | 2.069 | 3.057 | 0.3 | 21.6 | 2 21 | 10 16.24 | - 4 13.5 | 2.334 | 3.299 | 4.5 | 21.4 |
| 3 2 | 10 7.91 | +12 24.1 | 2.086 | 3.062 | 3.9 | 21.9 | 3 2 | 10 8.51 | - 3 34.8 | 2.333 | 3.300 | 4.6 | 21.4 |
| 3 12 | 10 0.41 | +12 59.5 | 2.132 | 3.067 | 7.6 | 22.1 | 3 12 | 10 1.41 | - 2 48.4 | 2.362 | 3.300 | 6.7 | 21.6 |
| 3 22 | 9 54.44 | +13 25.6 | 2.204 | 3.071 | 10.8 | 22.3 | 3 22 | 9 55.60 | - 1 59.2 | 2.417 | 3.301 | 9.3 | 21.7 |
| 4 1 | 9 50.48 | +13 40.6 | 2.299 | 3.075 | 13.6 | 22.5 | 4 1 | 9 51.52 | - 1 11.9 | 2.497 | 3.301 | 11.9 | 21.9 |
| 323766 | 2005 <i>QK</i> ₄ | | 2 21.4 198°87 | 1°6/20.1 | 16 | | 95448 | 2002 <i>CY</i> ₂₅₆ | | 2 21.4 179°51 | 3°1/18.4 | 18 | |
| 1 22 | 10 41.94 | +14 42.0 | 2.226 | 3.079 | 10.8 | 21.9 | 1 22 | 10 38.11 | +17 22.2 | 2.040 | 2.906 | 11.0 | 20.0 |
| 2 1 | 10 34.94 | +15 7.5 | 2.150 | 3.076 | 7.5 | 21.6 | 2 1 | 10 32.40 | +18 27.2 | 1.975 | 2.907 | 7.7 | 19.7 |
| 2 11 | 10 26.16 | +15 36.5 | 2.101 | 3.072 | 3.9 | 21.4 | 2 11 | 10 24.88 | +19 35.0 | 1.937 | 2.907 | 4.4 | 19.5 |
| 2 21 | 10 16.32 | +16 4.2 | 2.081 | 3.067 | 1.7 | 21.2 | 2 21 | 10 16.29 | +20 38.9 | 1.928 | 2.907 | 3.3 | 19.5 |
| 3 2 | 10 6.37 | +16 26.0 | 2.093 | 3.062 | 4.6 | 21.4 | 3 2 | 10 7.61 | +21 32.2 | 1.948 | 2.907 | 6.0 | 19.6 |
| 3 12 | 9 57.28 | +16 38.4 | 2.133 | 3.056 | 8.2 | 21.6 | 3 12 | 9 59.82 | +22 10.2 | 1.996 | 2.907 | 9.4 | 19.8 |
| 3 22 | 9 49.84 | +16 39.7 | 2.200 | 3.050 | 11.5 | 21.8 | 3 22 | 9 53.74 | +22 30.8 | 2.068 | 2.906 | 12.6 | 20.0 |
| 4 1 | 9 44.59 | +16 29.5 | 2.289 | 3.043 | 14.3 | 22.0 | 4 1 | 9 49.89 | +22 34.3 | 2.161 | 2.905 | 15.3 | 20.2 |
| 252511 | 2001 <i>UR</i> ₁₇₉ | | 2 21.4 87°85 | 6°4/15.5 | 18 | | 319581 | 2006 <i>SL</i> ₁₀₇ | | 2 21.4 138°66 | 0°4/21.9 | 17 | |
| 1 22 | 10 42.18 | +26 29.2 | 1.864 | 2.731 | 11.8 | 20.0 | 1 22 | 10 35.46 | + 7 21.1 | 2.555 | 3.396 | 10.0 | 21.2 |
| 2 1 | 10 35.21 | +28 2.0 | 1.836 | 2.759 | 8.8 | 19.8 | 2 1 | 10 30.20 | + 7 52.6 | 2.483 | 3.402 | 7.0 | 21.1 |
| 2 11 | 10 26.26 | +29 26.7 | 1.835 | 2.786 | 6.7 | 19.7 | 2 11 | 10 23.61 | + 8 32.6 | 2.439 | 3.408 | 3.8 | 20.9 |
| 2 21 | 10 16.32 | +30 34.6 | 1.862 | 2.812 | 6.8 | 19.8 | 2 21 | 10 16.25 | + 9 17.6 | 2.425 | 3.413 | 0.5 | 20.6 |
| 3 2 | 10 6.57 | +31 19.5 | 1.916 | 2.838 | 8.9 | 20.0 | 3 2 | 10 8.83 | +10 3.1 | 2.441 | 3.419 | 3.2 | 20.8 |
| 3 12 | 9 58.15 | +31 39.2 | 1.996 | 2.864 | 11.6 | 20.2 | 3 12 | 10 2.08 | +10 45.0 | 2.486 | 3.424 | 6.5 | 21.0 |
| 3 22 | 9 51.85 | +31 35.4 | 2.099 | 2.889 | 14.2 | 20.4 | 3 22 | 9 56.60 | +11 20.1 | 2.559 | 3.429 | 9.4 | 21.2 |
| 4 1 | 9 48.10 | +31 11.5 | 2.220 | 2.914 | 16.3 | 20.6 | 4 1 | 9 52.81 | +11 46.0 | 2.655 | 3.434 | 11.9 | 21.4 |
| 320441 | 2007 <i>VN</i> ₁₅₁ | | 2 21.4 2°16 | 5°3/19.0 | 18 | | 244384 | 2002 <i>PW</i> ₂₉ | | 2 21.4 220°09 | 1°2/22.4 | 17 | |
| 1 22 | 10 45.43 | +22 46.6 | 1.227 | 2.107 | 15.7 | 19.5 | 1 22 | 10 39.66 | + 5 20.3 | 2.007 | 2.845 | 12.4 | 21.1 |
| 2 1 | 10 38.35 | +22 51.6 | 1.170 | 2.106 | 11.3 | 19.3 | 2 1 | 10 33.56 | + 5 45.6 | 1.922 | 2.836 | 9.0 | 20.9 |
| 2 11 | 10 28.23 | +22 50.2 | 1.136 | 2.105 | 7.0 | 19.0 | 2 11 | 10 25.55 | + 6 23.7 | 1.862 | 2.828 | 5.1 | 20.6 |
| 2 21 | 10 16.41 | +22 34.5 | 1.127 | 2.105 | 5.4 | 18.9 | 2 21 | 10 16.34 | + 7 10.9 | 1.831 | 2.818 | 1.3 | 20.3 |
| 3 2 | 10 4.68 | +21 59.4 | 1.144 | 2.107 | 8.7 | 19.1 | 3 2 | 10 6.89 | + 8 1.8 | 1.829 | 2.808 | 3.9 | 20.5 |
| 3 12 | 9 54.78 | +21 4.0 | 1.185 | 2.110 | 13.2 | 19.4 | 3 12 | 9 58.24 | + 8 50.6 | 1.857 | 2.797 | 8.1 | 20.7 |
| 3 22 | 9 47.91 | +19 51.5 | 1.247 | 2.113 | 17.4 | 19.6 | 3 22 | 9 51.26 | + 9 32.4 | 1.910 | 2.786 | 11.8 | 20.9 |
| 4 1 | 9 44.62 | +18 26.2 | 1.327 | 2.118 | 21.0 | 19.9 | 4 1 | 9 46.54 | +10 3.9 | 1.986 | 2.774 | 15.0 | 21.1 |
| 358087 | 2006 <i>JA</i> ₃₀ | | 2 21.4 279°19 | 2°6/23.4 | 17 | | 175490 | 2006 <i>RL</i> ₄₅ | | 2 21.4 271°22 | 1°2/22.4 | 18 | |
| 1 22 | 10 37.59 | + 1 37.1 | 1.541 | 2.383 | 15.3 | 21.0 | 1 22 | 10 37.08 | + 4 29.9 | 1.662 | 2.510 | 14.0 | 20.2 |
| 2 1 | 10 32.58 | + 2 5.7 | 1.456 | 2.369 | 11.4 | 20.7 | 2 1 | 10 32.03 | + 5 13.3 | 1.583 | 2.503 | 10.2 | 19.9 |
| 2 11 | 10 25.22 | + 2 55.8 | 1.393 | 2.355 | 7.0 | 20.4 | 2 11 | 10 24.84 | + 6 14.2 | 1.528 | 2.496 | 5.7 | 19.7 |
| 2 21 | 10 16.30 | + 4 3.4 | 1.357 | 2.341 | 2.9 | 20.1 | 2 21 | 10 16.31 | + 7 27.4 | 1.500 | 2.488 | 1.4 | 19.3 |
| 3 2 | 10 6.99 | + 5 21.5 | 1.347 | 2.327 | 4.8 | 20.2 | 3 2 | 10 7.52 | + 8 45.3 | 1.501 | 2.480 | 4.4 | 19.5 |
| 3 12 | 9 58.63 | + 6 41.0 | 1.365 | 2.313 | 9.6 | 20.4 | 3 12 | 9 59.66 | + 9 59.6 | 1.528 | 2.473 | 9.1 | 19.8 |
| 3 22 | 9 52.30 | + 7 53.5 | 1.406 | 2.299 | 14.1 | 20.7 | 3 22 | 9 53.71 | +11 3.3 | 1.580 | 2.465 | 13.3 | 20.0 |
| 4 1 | 9 48.77 | + 8 52.6 | 1.469 | 2.285 | 18.1 | 20.9 | 4 1 | 9 50.32 | +11 52.1 | 1.654 | 2.457 | 16.9 | 20.2 |
| 364355 | 2006 <i>UV</i> ₂₃₀ | | 2 21.4 110°78 | 7°7/15.1 | 18 | | 110581 | 2001 <i>TS</i> ₁₁₉ | | 2 21.4 359°17 | 5°3/24.3 | 18 | |
| 1 22 | 10 44.79 | +30 25.5 | 1.790 | 2.653 | 12.5 | 21.1 | 1 22 | 10 40.69 | - 0 7.7 | 1.433 | 2.268 | 16.6 | 18.2 |
| 2 1 | 10 37.23 | +31 38.9 | 1.751 | 2.666 | 9.7 | 21.0 | 2 1 | 10 34.76 | - 1 0.1 | 1.362 | 2.266 | 12.8 | 18.0 |
| 2 11 | 10 27.40 | +32 40.8 | 1.738 | 2.679 | 7.9 | 20.9 | 2 11 | 10 26.34 | - 1 34.3 | 1.313 | 2.265 | 8.7 | 17.8 |
| 2 21 | 10 16.38 | +33 22.6 | 1.751 | 2.691 | 8.1 | 20.9 | 2 21 | 10 16.37 | - 1 50.1 | 1.289 | 2.264 | 5.5 | 17.6 |
| 3 2 | 10 5.53 | +33 38.6 | 1.791 | 2.704 | 10.1 | 21.1 | 3 2 | 10 6.18 | - 1 49.5 | 1.291 | 2.264 | 6.3 | 17.6 |
| 3 12 | 9 56.14 | +33 27.6 | 1.856 | 2.715 | 12.8 | 21.3 | 3 12 | 9 57.18 | - 1 37.6 | 1.319 | 2.265 | 10.1 | 17.8 |
| 3 22 | 9 49.12 | +32 52.6 | 1.943 | 2.727 | 15.4 | 21.5 | 3 22 | 9 50.47 | - 1 20.5 | 1.370 | 2.267 | 14.2 | 18.1 |
| 4 1 | 9 44.96 | +31 58.2 | 2.048 | 2.738 | 17.5 | 21.7 | 4 1 | 9 46.74 | - 1 4.2 | 1.441 | 2.269 | 17.8 | 18.3 |
| 91486 | 1999 <i>RS</i> ₁₁₇ | | 2 21.4 163°82 | 4°3/26.3 | 18 | | 376249 | 2011 <i>EL</i> ₈₃ | | 2 21.4 18°05 | 0°3/21.2 | 17</ | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 119719 | 2001 XS ₂₂₈ | | 2 21.4 169°04 | 4°6/16.9 | 18 | | 333162 | 2012 BP ₁₄₃ | | 2 21.5 178°16 | 2°6/19.0 | 18 | |
| 1 22 | 10 40.63 | +23 15.4 | 2.222 | 3.086 | 10.4 | 20.0 | 1 22 | 10 41.50 | +16 37.2 | 2.132 | 2.990 | 10.9 | 21.1 |
| 2 1 | 10 34.06 | +24 20.9 | 2.164 | 3.090 | 7.5 | 19.9 | 2 1 | 10 34.71 | +17 29.1 | 2.065 | 2.993 | 7.6 | 20.9 |
| 2 11 | 10 25.71 | +25 23.6 | 2.133 | 3.093 | 5.1 | 19.7 | 2 11 | 10 26.09 | +18 23.8 | 2.024 | 2.994 | 4.2 | 20.7 |
| 2 21 | 10 16.35 | +26 16.8 | 2.131 | 3.096 | 4.9 | 19.7 | 2 21 | 10 16.41 | +19 15.1 | 2.014 | 2.995 | 2.7 | 20.6 |
| 3 2 | 10 6.94 | +26 54.8 | 2.159 | 3.098 | 7.0 | 19.8 | 3 2 | 10 6.63 | +19 57.1 | 2.033 | 2.996 | 5.5 | 20.8 |
| 3 12 | 9 58.48 | +27 14.4 | 2.214 | 3.100 | 9.9 | 20.0 | 3 12 | 9 57.79 | +20 25.8 | 2.081 | 2.995 | 9.0 | 21.0 |
| 3 22 | 9 51.72 | +27 15.4 | 2.293 | 3.101 | 12.6 | 20.2 | 3 22 | 9 50.66 | +20 39.2 | 2.155 | 2.994 | 12.2 | 21.2 |
| 4 1 | 9 47.19 | +26 59.3 | 2.393 | 3.102 | 14.8 | 20.4 | 4 1 | 9 45.79 | +20 37.6 | 2.250 | 2.992 | 14.8 | 21.4 |
| 372269 | 2008 UQ ₂₉₂ | | 2 21.4 145°75 | 1°0/20.5 | 18 | | 148757 | 2001 TG ₁₉₅ | | 2 21.5 352°40 | 0°9/20.6 | 18 | |
| 1 22 | 10 39.92 | +12 48.5 | 2.320 | 3.171 | 10.5 | 21.3 | 1 22 | 10 34.81 | + 8 7.2 | 1.567 | 2.432 | 13.8 | 19.0 |
| 2 1 | 10 33.40 | +13 14.2 | 2.255 | 3.180 | 7.3 | 21.1 | 2 1 | 10 30.50 | + 9 34.7 | 1.498 | 2.430 | 9.7 | 18.7 |
| 2 11 | 10 25.30 | +13 44.4 | 2.217 | 3.188 | 3.7 | 20.9 | 2 11 | 10 24.06 | +11 18.6 | 1.455 | 2.428 | 5.0 | 18.5 |
| 2 21 | 10 16.34 | +14 15.0 | 2.208 | 3.196 | 1.0 | 20.7 | 2 21 | 10 16.32 | +13 10.1 | 1.438 | 2.426 | 0.9 | 18.2 |
| 3 2 | 10 7.36 | +14 41.5 | 2.230 | 3.203 | 4.1 | 20.9 | 3 2 | 10 8.38 | +14 58.5 | 1.450 | 2.425 | 5.4 | 18.5 |
| 3 12 | 9 59.23 | +15 0.4 | 2.282 | 3.210 | 7.5 | 21.2 | 3 12 | 10 1.46 | +16 33.7 | 1.489 | 2.425 | 10.1 | 18.7 |
| 3 22 | 9 52.63 | +15 9.8 | 2.360 | 3.216 | 10.6 | 21.4 | 3 22 | 9 56.48 | +17 49.4 | 1.552 | 2.424 | 14.2 | 19.0 |
| 4 1 | 9 48.04 | +15 8.8 | 2.460 | 3.222 | 13.2 | 21.6 | 4 1 | 9 54.09 | +18 42.4 | 1.634 | 2.425 | 17.7 | 19.2 |
| 84662 | 2002 VU ₈₀ | | 2 21.4 116°48 | 3°6/25.4 | 18 | | 140908 | 2001 VP ₅₃ | | 2 21.5 72°24 | 3°7/25.3 | 18 | |
| 1 22 | 10 35.24 | - 3 35.2 | 2.395 | 3.194 | 11.9 | 19.6 | 1 22 | 10 35.38 | - 2 56.6 | 2.250 | 3.056 | 12.4 | 19.5 |
| 2 1 | 10 30.13 | - 3 19.7 | 2.321 | 3.204 | 9.2 | 19.5 | 2 1 | 10 30.30 | - 2 50.5 | 2.179 | 3.066 | 9.5 | 19.4 |
| 2 11 | 10 23.60 | - 2 47.7 | 2.271 | 3.212 | 6.3 | 19.3 | 2 11 | 10 23.73 | - 2 27.7 | 2.132 | 3.075 | 6.5 | 19.2 |
| 2 21 | 10 16.27 | - 2 1.4 | 2.250 | 3.221 | 3.9 | 19.2 | 2 21 | 10 16.30 | - 1 50.3 | 2.113 | 3.085 | 4.1 | 19.0 |
| 3 2 | 10 8.86 | - 1 4.6 | 2.258 | 3.230 | 4.1 | 19.2 | 3 2 | 10 8.81 | - 1 2.1 | 2.122 | 3.094 | 4.3 | 19.1 |
| 3 12 | 10 2.16 | - 0 2.6 | 2.295 | 3.238 | 6.6 | 19.4 | 3 12 | 10 2.08 | - 0 8.3 | 2.160 | 3.104 | 6.9 | 19.2 |
| 3 22 | 9 56.78 | + 0 59.3 | 2.360 | 3.246 | 9.4 | 19.5 | 3 22 | 9 56.75 | + 0 45.7 | 2.225 | 3.113 | 9.8 | 19.4 |
| 4 1 | 9 53.18 | + 1 56.2 | 2.448 | 3.254 | 12.0 | 19.7 | 4 1 | 9 53.29 | + 1 35.2 | 2.313 | 3.123 | 12.5 | 19.6 |
| 267823 | 2003 UK ₄₇ | | 2 21.4 154°96 | 4°4/16.7 | 18 | | 336875 | 2011 GP ₄₀ | | 2 21.5 278°56 | 2°9/18.6 | 17 | |
| 1 22 | 10 38.72 | +23 23.2 | 2.340 | 3.205 | 9.9 | 20.4 | 1 22 | 10 36.14 | +15 21.2 | 1.949 | 2.817 | 11.3 | 20.5 |
| 2 1 | 10 32.66 | +24 28.7 | 2.284 | 3.210 | 7.1 | 20.2 | 2 1 | 10 31.21 | +16 40.0 | 1.872 | 2.806 | 7.9 | 20.3 |
| 2 11 | 10 24.95 | +25 31.6 | 2.255 | 3.215 | 4.9 | 20.1 | 2 11 | 10 24.37 | +18 5.6 | 1.823 | 2.794 | 4.3 | 20.0 |
| 2 21 | 10 16.33 | +26 25.3 | 2.256 | 3.219 | 4.7 | 20.1 | 2 21 | 10 16.34 | +19 30.2 | 1.801 | 2.783 | 3.0 | 19.9 |
| 3 2 | 10 7.66 | +27 4.5 | 2.285 | 3.223 | 6.8 | 20.2 | 3 2 | 10 8.07 | +20 46.0 | 1.809 | 2.771 | 6.1 | 20.1 |
| 3 12 | 9 59.87 | +27 26.3 | 2.343 | 3.227 | 9.4 | 20.4 | 3 12 | 10 0.61 | +21 46.4 | 1.844 | 2.760 | 9.8 | 20.3 |
| 3 22 | 9 53.66 | +27 30.3 | 2.424 | 3.231 | 12.0 | 20.6 | 3 22 | 9 54.82 | +22 28.1 | 1.904 | 2.748 | 13.3 | 20.5 |
| 4 1 | 9 49.51 | +27 17.6 | 2.526 | 3.234 | 14.2 | 20.8 | 4 1 | 9 51.32 | +22 50.0 | 1.984 | 2.737 | 16.2 | 20.6 |
| 432532 | 2010 GP ₁₂₃ | | 2 21.4 192°40 | 3°8/17.4 | 17 | | 436286 | 2010 CK ₂₂₁ | | 2 21.5 338°01 | 0°9/20.7 | 17 | |
| 1 22 | 10 38.56 | +22 37.7 | 2.512 | 3.374 | 9.3 | 21.6 | 1 22 | 10 38.55 | +12 39.1 | 2.128 | 2.985 | 11.0 | 20.9 |
| 2 1 | 10 32.46 | +23 23.5 | 2.447 | 3.373 | 6.7 | 21.4 | 2 1 | 10 32.63 | +12 54.5 | 2.056 | 2.983 | 7.7 | 20.7 |
| 2 11 | 10 24.83 | +24 7.0 | 2.410 | 3.372 | 4.4 | 21.2 | 2 11 | 10 24.99 | +13 14.9 | 2.009 | 2.981 | 4.0 | 20.5 |
| 2 21 | 10 16.33 | +24 43.0 | 2.402 | 3.370 | 4.0 | 21.2 | 2 21 | 10 16.37 | +13 36.3 | 1.992 | 2.980 | 0.9 | 20.2 |
| 3 2 | 10 7.77 | +25 7.0 | 2.424 | 3.369 | 6.0 | 21.3 | 3 2 | 10 7.65 | +13 54.3 | 2.004 | 2.978 | 4.2 | 20.5 |
| 3 12 | 10 0.00 | +25 16.5 | 2.474 | 3.367 | 8.7 | 21.5 | 3 12 | 9 59.79 | +14 5.3 | 2.044 | 2.977 | 8.0 | 20.7 |
| 3 22 | 9 53.70 | +25 10.8 | 2.549 | 3.365 | 11.2 | 21.7 | 3 22 | 9 53.54 | +14 7.2 | 2.111 | 2.976 | 11.3 | 20.9 |
| 4 1 | 9 49.33 | +24 51.0 | 2.645 | 3.362 | 13.4 | 21.8 | 4 1 | 9 49.41 | +13 58.8 | 2.199 | 2.975 | 14.1 | 21.1 |
| 71340 | 2000 AV ₉₉ | | 2 21.5 52°08 | 5°5/17.3 | 18 | | 83918 | 2001 VJ ₁₁ | | 2 21.5 95°40 | 5°0/26.4 | 18 | |
| 1 22 | 10 39.96 | +20 40.7 | 1.400 | 2.281 | 14.1 | 18.1 | 1 22 | 10 36.63 | - 6 28.8 | 2.382 | 3.164 | 12.5 | 19.6 |
| 2 1 | 10 34.21 | +22 4.4 | 1.356 | 2.292 | 10.0 | 17.9 | 2 1 | 10 31.14 | - 6 46.8 | 2.305 | 3.171 | 10.0 | 19.5 |
| 2 11 | 10 25.98 | +23 27.4 | 1.336 | 2.303 | 6.4 | 17.7 | 2 11 | 10 24.18 | - 6 47.5 | 2.252 | 3.177 | 7.4 | 19.3 |
| 2 21 | 10 16.38 | +24 38.7 | 1.342 | 2.314 | 5.8 | 17.7 | 2 21 | 10 16.34 | - 6 31.6 | 2.227 | 3.184 | 5.3 | 19.2 |
| 3 2 | 10 6.84 | +25 29.3 | 1.374 | 2.326 | 8.9 | 17.9 | 3 2 | 10 8.40 | - 6 1.5 | 2.230 | 3.190 | 5.3 | 19.2 |
| 3 12 | 9 58.78 | +25 54.4 | 1.431 | 2.338 | 12.8 | 18.2 | 3 12 | 10 1.17 | - 5 21.4 | 2.262 | 3.197 | 7.2 | 19.3 |
| 3 22 | 9 53.18 | +25 54.2 | 1.509 | 2.350 | 16.3 | 18.4 | 3 22 | 9 55.30 | - 4 36.5 | 2.320 | 3.203 | 9.7 | 19.5 |
| 4 1 | 9 50.59 | +25 31.4 | 1.605 | 2.362 | 19.3 | 18.7 | 4 1 | 9 51.28 | - 3 51.6 | 2.402 | 3.210 | 12.2 | 19.7 |
| 325214 | 2008 GQ ₁₅ | | 2 21.5 191°01 | 1°7/19.9 | 16 | | 150991 | 2001 UF ₈ | | 2 21.5 28°23 | 1°7/22.8 | 18 | |
| 1 22 | 10 39.54 | +13 41.6 | 2.080 | 2.938 | 11.2 | 22.0 | 1 22 | 10 35.95 | + 3 45.3 | 1.459 | 2.313 | 15.3 | 19.4 |
| 2 1 | 10 33.38 | +14 25.7 | 2.008 | 2.937 | 7.8 | 21.8 | 2 1 | 10 31.29 | + 4 21.8 | 1.399 | 2.320 | 11.1 | 19.1 |
| 2 11 | 10 25.40 | +15 15.2 | 1.963 | 2.935 | 4.1 | 21.6 | 2 11 | 10 24.45 | + 5 17.1 | 1.361 | 2.328 | 6.4 | 18.9 |
| 2 21 | 10 16.36 | +16 4.7 | 1.947 | 2.934 | 1.7 | 21.4 | 2 21 | 10 16.35 | + 6 25.5 | 1.349 | 2.336 | 1.9 | 18.6 |
| 3 2 | 10 7.20 | +16 48.2 | 1.961 | 2.931 | 4.9 | 21.6 | 3 2 | 10 8.18 | + 7 38.9 | 1.365 | 2.345 | 4.6 | 18.8 |
| 3 12 | 9 58.91 | +17 21.0 | 2.004 | 2.928 | 8.6 | 21.8 | 3 12 | 10 1.17 | + 8 48.3 | 1.406 | 2.355 | 9.3 | 19.1 |
| 3 22 | 9 52.30 | +17 40.8 | 2.072 | 2.925 | 12.0 | 22.0 | 3 22 | 9 56.26 | + 9 47.0 | 1.472 | 2.365 | 13.6 | 19.4 |
| 4 1 | 9 47.90 | +17 46.5 | 2.161 | 2.922 | 14.8 | 22.2 | 4 1 | 9 54.00 | +10 30.5 | 1.557 | 2.376 | 17.1 | 19.6 |
| 505975 | 2015 FO ₃₂₉ | | 2 21.5 214°89 | 6°6/13.4 | 17 | | 211906 | 2004 LR ₂₈ | | 2 21.5 274°07 | 1°6/23.2 | 17 | |
| 1 22 | 10 38.94 | +32 58.9 | 2.567 | 3.421 | 9.5 | 21.3 | 1 22 | 10 34.29 | + 2 58.6 | 2.521 | 3.349 | 10.5 | 21.5 |
| 2 1 | 10 32.84 | +34 9.0 | 2.514 | 3.418 | 7.7 | 21.2 | 2 1 | 10 29.57 | + 3 28.9 | 2.424 | 3.332 | 7.7 | 21.3 |
| 2 11 | 10 25.07 | +35 9.9 | 2.487 | 3.414 | 6.7 | 21.1 | 2 11 | 10 23.39 | + 4 11.8 | 2.353 | 3.314 | 4.6 | 21.1 |
| 2 21 | 10 16.35 | +35 55.4 | 2.489 | 3.411 | 7.0 | 21.2 | 2 21 | 10 16.31 | + 5 4.4 | 2.311 | 3.296 | 1.8 | 20.8 |
| 3 2 | 10 7.57 | +36 20.9 | 2.518 | 3.407 | 8.6 | 21.3 | 3 2 | 10 9.01 | + 6 2.4 | 2.299 | 3.278 | 3.2 | 20.9 |
| 3 12 | 9 59.65 | +36 24.8 | 2.573 | 3.403 | 10.6 | 21.4 | 3 12 | 10 2.25 | + 7 0.9 | 2.317 | 3.260 | 6.5 | 21.1 |
| 3 22 | 9 53.32 | +36 8.1 | 2.650 | 3.399 | 12.6 | 21.5 | 3 22 | 9 56.69 | + 7 55.2 | 2.362 | 3.241 | 9.7 | 21.3 |
| 4 1 | 9 49.08 | +35 33.2 | 2.746 | 3.395 | 14.3 | 21.7 | 4 1 | 9 52.83 | + 8 41.5 | 2.431 | 3.223 | 12.5 | 21.4 |
| 420855 | 2013 JW ₆₂ | | 2 21.5 258°89 | 2°1/19.8 | 16 | | 139869 | 2001 RE ₇₀ | | 2 21.5 116°65 | 1°7/22.9 | 18 | |
| 1 22 | 10 40.02 | +13 36.0 | 1.705 | 2.570 | 12.9 | 21.9 | 1 22 | 10 39. | | | | | |

EPHEMERIDES

2 21.5

2 21.5

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|-----------|---------|------|
| 292992 | 2006 <i>WJ</i> ₆ | | 2 21.5 357°94 | 7.7/27.7 | 18 | | 146073 | 2000 <i>GT</i> ₉₄ | | 2 21.5 273°60 | 10.4/10.5 | 17 | |
| 1 22 | 10 35.07 | - 9 28.3 | 1.475 | 2.275 | 18.0 | 20.1 | 1 22 | 10 42.96 | +37 3.8 | 1.786 | 2.641 | 12.9 | 19.5 |
| 2 1 | 10 30.81 | - 9 42.9 | 1.400 | 2.273 | 14.8 | 19.8 | 2 1 | 10 36.56 | +38 56.3 | 1.730 | 2.625 | 11.1 | 19.4 |
| 2 11 | 10 24.30 | - 9 27.0 | 1.346 | 2.271 | 11.3 | 19.6 | 2 11 | 10 27.42 | +40 34.4 | 1.700 | 2.610 | 10.4 | 19.3 |
| 2 21 | 10 16.36 | - 8 40.6 | 1.314 | 2.270 | 8.4 | 19.5 | 2 21 | 10 16.54 | +41 46.6 | 1.695 | 2.594 | 11.3 | 19.3 |
| 3 2 | 10 8.17 | - 7 27.5 | 1.308 | 2.270 | 7.9 | 19.4 | 3 2 | 10 5.39 | +42 24.9 | 1.714 | 2.578 | 13.3 | 19.4 |
| 3 12 | 10 1.03 | - 5 56.8 | 1.326 | 2.270 | 10.2 | 19.5 | 3 12 | 9 55.52 | +42 27.0 | 1.755 | 2.562 | 15.7 | 19.5 |
| 3 22 | 9 55.95 | - 4 19.2 | 1.368 | 2.271 | 13.7 | 19.7 | 3 22 | 9 48.15 | +41 56.1 | 1.815 | 2.546 | 18.1 | 19.7 |
| 4 1 | 9 53.60 | - 2 45.2 | 1.431 | 2.273 | 17.1 | 20.0 | 4 1 | 9 44.00 | +40 57.7 | 1.889 | 2.530 | 20.2 | 19.8 |
| 363796 | 2005 <i>JD</i> ₁₄₆ | | 2 21.5 184°62 | 4.4/26.1 | 18 | | 41969 | 2000 <i>YX</i> | | 2 21.5 156°16 | 0.4/21.1 | 18 | |
| 1 22 | 10 37.23 | - 6 22.9 | 2.251 | 3.036 | 13.0 | 21.0 | 1 22 | 10 40.60 | + 9 16.0 | 1.993 | 2.841 | 12.1 | 19.4 |
| 2 1 | 10 31.69 | - 5 55.5 | 2.165 | 3.037 | 10.3 | 20.8 | 2 1 | 10 34.13 | +10 2.4 | 1.927 | 2.850 | 8.4 | 19.2 |
| 2 11 | 10 24.53 | - 5 7.4 | 2.103 | 3.036 | 7.3 | 20.7 | 2 11 | 10 25.83 | +10 58.2 | 1.887 | 2.857 | 4.4 | 18.9 |
| 2 21 | 10 16.38 | - 4 0.5 | 2.069 | 3.035 | 4.8 | 20.5 | 2 21 | 10 16.47 | +11 58.0 | 1.876 | 2.864 | 0.4 | 18.6 |
| 3 2 | 10 8.07 | - 2 39.6 | 2.065 | 3.034 | 4.8 | 20.5 | 3 2 | 10 7.04 | +12 55.5 | 1.895 | 2.870 | 4.3 | 19.0 |
| 3 12 | 10 0.47 | - 1 11.2 | 2.090 | 3.032 | 7.2 | 20.6 | 3 12 | 9 58.56 | +13 44.9 | 1.943 | 2.876 | 8.3 | 19.2 |
| 3 22 | 9 54.31 | + 0 17.7 | 2.143 | 3.029 | 10.3 | 20.8 | 3 22 | 9 51.83 | +14 22.6 | 2.017 | 2.881 | 11.8 | 19.4 |
| 4 1 | 9 50.11 | + 1 40.7 | 2.220 | 3.025 | 13.1 | 21.0 | 4 1 | 9 47.38 | +14 46.7 | 2.113 | 2.885 | 14.8 | 19.7 |
| 384244 | 2009 <i>DP</i> ₁₀₇ | | 2 21.5 22°80 | 2.0/19.8 | 18 | | 85198 | Weltenburg | | 2 21.5 112°93 | 0.3/21.2 | 18 | |
| 1 22 | 10 36.41 | +14 17.2 | 1.701 | 2.572 | 12.5 | 20.3 | 1 22 | 10 38.76 | +10 45.9 | 2.308 | 3.156 | 10.6 | 19.4 |
| 2 1 | 10 31.36 | +14 56.0 | 1.647 | 2.582 | 8.7 | 20.1 | 2 1 | 10 32.62 | +11 2.6 | 2.242 | 3.166 | 7.4 | 19.2 |
| 2 11 | 10 24.39 | +15 40.0 | 1.619 | 2.592 | 4.5 | 19.9 | 2 11 | 10 24.95 | +11 25.3 | 2.204 | 3.174 | 3.8 | 19.0 |
| 2 21 | 10 16.37 | +16 22.8 | 1.618 | 2.604 | 2.1 | 19.8 | 2 21 | 10 16.43 | +11 50.3 | 2.195 | 3.183 | 0.3 | 18.7 |
| 3 2 | 10 8.37 | +16 58.2 | 1.644 | 2.616 | 5.4 | 20.0 | 3 2 | 10 7.90 | +12 13.5 | 2.216 | 3.192 | 3.7 | 19.0 |
| 3 12 | 10 1.47 | +17 21.5 | 1.697 | 2.628 | 9.4 | 20.3 | 3 12 | 10 0.20 | +12 31.3 | 2.266 | 3.200 | 7.2 | 19.2 |
| 3 22 | 9 56.48 | +17 30.4 | 1.774 | 2.641 | 13.0 | 20.5 | 3 22 | 9 54.00 | +12 41.4 | 2.343 | 3.209 | 10.3 | 19.4 |
| 4 1 | 9 53.88 | +17 24.4 | 1.871 | 2.655 | 16.0 | 20.7 | 4 1 | 9 49.75 | +12 42.6 | 2.443 | 3.217 | 12.9 | 19.6 |
| 341208 | 2007 <i>RV</i> ₁₁₁ | | 2 21.5 145°72 | 0.2/21.3 | 13 C | | 66220 | 1999 <i>CZ</i> ₆₈ | | 2 21.5 283°34 | 2.5/23.4 | 18 | |
| 1 22 | 10 36.54 | + 9 24.0 | 2.934 | 3.774 | 8.8 | 23.0 | 1 22 | 10 37.61 | + 1 46.1 | 1.456 | 2.301 | 15.8 | 19.2 |
| 2 1 | 10 30.82 | + 9 59.8 | 2.867 | 3.786 | 6.2 | 22.9 | 2 1 | 10 32.71 | + 2 20.1 | 1.375 | 2.291 | 11.8 | 18.9 |
| 2 11 | 10 23.91 | +10 41.5 | 2.828 | 3.798 | 3.2 | 22.7 | 2 11 | 10 25.39 | + 3 16.7 | 1.317 | 2.280 | 7.1 | 18.6 |
| 2 21 | 10 16.35 | +11 25.8 | 2.820 | 3.809 | 0.2 | 22.4 | 2 21 | 10 16.47 | + 4 31.5 | 1.284 | 2.270 | 2.8 | 18.3 |
| 3 2 | 10 8.77 | +12 8.9 | 2.843 | 3.819 | 3.0 | 22.7 | 3 2 | 10 7.19 | + 5 56.5 | 1.279 | 2.259 | 4.9 | 18.4 |
| 3 12 | 10 1.80 | +12 47.1 | 2.897 | 3.829 | 6.0 | 22.9 | 3 12 | 9 58.94 | + 7 21.6 | 1.300 | 2.249 | 9.9 | 18.7 |
| 3 22 | 9 55.98 | +13 18.1 | 2.979 | 3.838 | 8.6 | 23.1 | 3 22 | 9 52.82 | + 8 38.0 | 1.344 | 2.238 | 14.6 | 18.9 |
| 4 1 | 9 51.69 | +13 40.2 | 3.085 | 3.846 | 10.8 | 23.2 | 4 1 | 9 49.60 | + 9 39.3 | 1.409 | 2.228 | 18.6 | 19.1 |
| 55330 | 2001 <i>SD</i> ₁₁₄ | | 2 21.5 78°54 | 1.0/22.2 | 18 | | 26456 | 2000 <i>AY</i> ₁₀₁ | | 2 21.5 199°06 | 4.6/16.7 | 18 | |
| 1 22 | 10 39.39 | + 6 32.0 | 1.717 | 2.567 | 13.6 | 18.9 | 1 22 | 10 41.00 | +21 57.4 | 2.121 | 2.985 | 10.7 | 19.0 |
| 2 1 | 10 33.47 | + 6 49.9 | 1.654 | 2.574 | 9.7 | 18.7 | 2 1 | 10 34.53 | +23 20.5 | 2.054 | 2.981 | 7.7 | 18.8 |
| 2 11 | 10 25.53 | + 7 20.3 | 1.614 | 2.582 | 5.4 | 18.4 | 2 11 | 10 26.11 | +24 43.1 | 2.015 | 2.977 | 5.2 | 18.6 |
| 2 21 | 10 16.44 | + 7 58.8 | 1.602 | 2.590 | 1.1 | 18.2 | 2 21 | 10 16.51 | +25 57.3 | 2.006 | 2.972 | 5.0 | 18.6 |
| 3 2 | 10 7.30 | + 8 39.6 | 1.618 | 2.598 | 4.2 | 18.4 | 3 2 | 10 6.73 | +26 55.8 | 2.025 | 2.966 | 7.3 | 18.7 |
| 3 12 | 9 59.23 | + 9 16.9 | 1.662 | 2.605 | 8.6 | 18.7 | 3 12 | 9 57.85 | +27 34.4 | 2.073 | 2.959 | 10.4 | 18.9 |
| 3 22 | 9 53.10 | + 9 46.1 | 1.731 | 2.613 | 12.5 | 18.9 | 3 22 | 9 50.73 | +27 52.0 | 2.144 | 2.951 | 13.3 | 19.1 |
| 4 1 | 9 49.46 | +10 4.4 | 1.821 | 2.621 | 15.8 | 19.2 | 4 1 | 9 45.95 | +27 49.8 | 2.235 | 2.943 | 15.8 | 19.3 |
| 55859 | 1997 <i>AO</i> ₈ | | 2 21.5 215°89 | 0.9/22.2 | 18 | | 10965 | van Leverink | | 2 21.5 319°41 | 0.5/21.9 | 18 | |
| 1 22 | 10 37.60 | + 6 14.0 | 1.973 | 2.818 | 12.3 | 20.1 | 1 22 | 10 35.17 | + 7 12.6 | 2.036 | 2.886 | 11.7 | 18.1 |
| 2 1 | 10 32.10 | + 6 39.3 | 1.898 | 2.817 | 8.8 | 19.8 | 2 1 | 10 30.42 | + 7 42.8 | 1.954 | 2.877 | 8.4 | 17.8 |
| 2 11 | 10 24.80 | + 7 16.6 | 1.848 | 2.815 | 4.9 | 19.6 | 2 11 | 10 23.94 | + 8 24.4 | 1.898 | 2.867 | 4.6 | 17.6 |
| 2 21 | 10 16.41 | + 8 1.7 | 1.826 | 2.814 | 1.0 | 19.3 | 2 21 | 10 16.41 | + 9 13.1 | 1.870 | 2.858 | 0.6 | 17.3 |
| 3 2 | 10 7.88 | + 8 49.3 | 1.833 | 2.812 | 3.9 | 19.5 | 3 2 | 10 8.68 | +10 3.5 | 1.870 | 2.849 | 3.8 | 17.5 |
| 3 12 | 10 0.21 | + 9 33.8 | 1.868 | 2.810 | 7.9 | 19.8 | 3 12 | 10 1.71 | +10 50.1 | 1.899 | 2.841 | 7.8 | 17.7 |
| 3 22 | 9 54.18 | +10 10.7 | 1.929 | 2.808 | 11.6 | 20.0 | 3 22 | 9 56.27 | +11 28.4 | 1.953 | 2.833 | 11.4 | 17.9 |
| 4 1 | 9 50.35 | +10 37.0 | 2.013 | 2.806 | 14.7 | 20.2 | 4 1 | 9 52.92 | +11 55.4 | 2.030 | 2.825 | 14.5 | 18.1 |
| 154067 | 2002 <i>CR</i> ₁₉₀ | | 2 21.5 101°47 | 0.1/21.5 | 18 | | 23800 | 1998 <i>QD</i> ₃₈ | | 2 21.5 128°91 | 1.0/20.6 | 18 | |
| 1 22 | 10 38.60 | + 8 29.2 | 1.907 | 2.758 | 12.4 | 20.4 | 1 22 | 10 37.37 | +11 21.0 | 2.097 | 2.953 | 11.2 | 18.6 |
| 2 1 | 10 32.75 | + 9 2.2 | 1.845 | 2.768 | 8.7 | 20.2 | 2 1 | 10 31.83 | +12 4.9 | 2.031 | 2.958 | 7.8 | 18.3 |
| 2 11 | 10 25.10 | + 9 45.3 | 1.808 | 2.778 | 4.6 | 20.0 | 2 11 | 10 24.62 | +12 56.0 | 1.991 | 2.963 | 4.0 | 18.1 |
| 2 21 | 10 16.43 | +10 33.3 | 1.800 | 2.788 | 0.2 | 19.7 | 2 21 | 10 16.44 | +13 49.2 | 1.979 | 2.967 | 1.0 | 17.9 |
| 3 2 | 10 7.73 | +11 20.6 | 1.820 | 2.798 | 4.1 | 20.0 | 3 2 | 10 8.20 | +14 38.6 | 1.998 | 2.972 | 4.3 | 18.2 |
| 3 12 | 10 0.00 | +12 1.6 | 1.869 | 2.808 | 8.2 | 20.3 | 3 12 | 10 0.80 | +15 19.4 | 2.045 | 2.976 | 8.1 | 18.4 |
| 3 22 | 9 54.04 | +12 32.6 | 1.944 | 2.817 | 11.8 | 20.5 | 3 22 | 9 55.00 | +15 48.4 | 2.117 | 2.980 | 11.4 | 18.6 |
| 4 1 | 9 50.33 | +12 51.4 | 2.040 | 2.826 | 14.8 | 20.7 | 4 1 | 9 51.28 | +16 4.2 | 2.212 | 2.984 | 14.2 | 18.8 |
| 459677 | 2013 <i>LR</i> ₃₂ | | 2 21.5 221°00 | 2.4/23.9 | 17 | | 169215 | 2001 <i>RX</i> ₁₁₆ | | 2 21.5 165°53 | 3.5/17.9 | 18 | |
| 1 22 | 10 36.61 | - 0 16.2 | 2.187 | 3.005 | 12.3 | 22.2 | 1 22 | 10 38.85 | +21 21.6 | 2.468 | 3.330 | 9.5 | 20.3 |
| 2 1 | 10 31.35 | + 0 27.5 | 2.097 | 2.996 | 9.2 | 22.0 | 2 1 | 10 32.70 | +22 4.7 | 2.406 | 3.333 | 6.8 | 20.1 |
| 2 11 | 10 24.40 | + 1 29.1 | 2.032 | 2.988 | 5.8 | 21.8 | 2 11 | 10 25.01 | +22 46.2 | 2.370 | 3.335 | 4.2 | 20.0 |
| 2 21 | 10 16.40 | + 2 44.8 | 1.996 | 2.978 | 2.7 | 21.6 | 2 21 | 10 16.46 | +23 21.1 | 2.365 | 3.337 | 3.7 | 19.9 |
| 3 2 | 10 8.17 | + 4 9.1 | 1.990 | 2.968 | 3.8 | 21.6 | 3 2 | 10 7.88 | +23 44.8 | 2.389 | 3.339 | 5.7 | 20.1 |
| 3 12 | 10 0.63 | + 5 35.1 | 2.014 | 2.958 | 7.3 | 21.8 | 3 12 | 10 0.12 | +23 54.8 | 2.441 | 3.340 | 8.5 | 20.2 |
| 3 22 | 9 54.51 | + 6 56.2 | 2.065 | 2.947 | 10.8 | 22.0 | 3 22 | 9 53.83 | +23 50.3 | 2.519 | 3.342 | 11.1 | 20.4 |
| 4 1 | 9 50.41 | + 8 7.1 | 2.139 | 2.936 | 13.8 | 22.2 | 4 1 | 9 49.49 | +23 32.2 | 2.618 | 3.343 | 13.3 | 20.6 |
| 30381 | 2000 <i>JN</i> ₇₆ | | 2 21.5 343°66 | 2.5/19.6 | 18 | | 215081 | 2009 <i>FU</i> ₂₁ | | 2 21.5 283°20 | 0.6/21.0 | 18 | |
| 1 22 | 10 33.97 | +12 | | | | | | | | | | | |

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2 21.5

2 21.5

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|-------------|---------|------|---------------|-------------------------------|-----------------|---------------|-------------|---------|------|
| 1385 | Gelria | | 2 21.5 125°82 | 2°0/19.5 18 | | | 508410 | 2016 <i>HJ</i> ₂₄ | | 2 21.5 178°90 | 2°5/18.1 17 | | |
| 1 22 | 10 37.85 | +13 56.0 | 2.045 | 2.907 | 11.2 | 15.4 | 1 22 | 10 35.91 | +18 54.7 | 3.172 | 4.029 | 7.8 | 22.6 |
| 2 1 | 10 32.20 | +14 58.4 | 1.985 | 2.916 | 7.7 | 15.2 | 2 1 | 10 30.43 | +19 48.1 | 3.104 | 4.030 | 5.4 | 22.4 |
| 2 11 | 10 24.82 | +16 6.3 | 1.952 | 2.924 | 4.1 | 15.0 | 2 11 | 10 23.77 | +20 42.0 | 3.065 | 4.032 | 3.2 | 22.3 |
| 2 21 | 10 16.46 | +17 13.3 | 1.947 | 2.932 | 2.1 | 14.8 | 2 21 | 10 16.44 | +21 32.3 | 3.056 | 4.032 | 2.6 | 22.2 |
| 3 2 | 10 8.06 | +18 12.7 | 1.972 | 2.940 | 5.1 | 15.0 | 3 2 | 10 9.04 | +22 15.0 | 3.079 | 4.032 | 4.4 | 22.4 |
| 3 12 | 10 0.56 | +18 59.5 | 2.026 | 2.947 | 8.7 | 15.3 | 3 12 | 10 2.20 | +22 47.3 | 3.132 | 4.032 | 6.8 | 22.5 |
| 3 22 | 9 54.72 | +19 30.9 | 2.104 | 2.954 | 12.0 | 15.5 | 3 22 | 9 56.43 | +23 7.8 | 3.211 | 4.031 | 9.0 | 22.7 |
| 4 1 | 9 51.03 | +19 46.4 | 2.204 | 2.961 | 14.7 | 15.7 | 4 1 | 9 52.14 | +23 16.2 | 3.313 | 4.029 | 10.9 | 22.8 |
| 79301 | 1995 <i>WD</i> ₂₂ | | 2 21.5 233°31 | 1°2/20.1 18 | | | 87297 | 2000 <i>PL</i> ₂₃ | | 2 21.5 283°43 | 1°2/22.3 17 | | |
| 1 22 | 10 35.41 | +12 44.4 | 2.538 | 3.394 | 9.5 | 20.2 | 1 22 | 10 41.43 | +7 16.5 | 1.781 | 2.627 | 13.3 | 19.5 |
| 2 1 | 10 30.32 | +13 31.0 | 2.460 | 3.387 | 6.6 | 20.0 | 2 1 | 10 35.09 | +7 8.8 | 1.694 | 2.613 | 9.7 | 19.3 |
| 2 11 | 10 23.80 | +14 23.3 | 2.409 | 3.381 | 3.4 | 19.8 | 2 11 | 10 26.54 | +7 11.4 | 1.632 | 2.599 | 5.4 | 19.0 |
| 2 21 | 10 16.42 | +15 16.7 | 2.387 | 3.374 | 1.3 | 19.6 | 2 21 | 10 16.58 | +7 21.2 | 1.598 | 2.586 | 1.4 | 18.7 |
| 3 2 | 10 8.91 | +16 6.2 | 2.396 | 3.367 | 4.0 | 19.8 | 3 2 | 10 6.31 | +7 34.4 | 1.593 | 2.572 | 4.4 | 18.8 |
| 3 12 | 10 2.04 | +16 47.6 | 2.434 | 3.360 | 7.3 | 20.0 | 3 12 | 9 56.94 | +7 46.3 | 1.615 | 2.558 | 8.9 | 19.1 |
| 3 22 | 9 56.43 | +17 18.2 | 2.499 | 3.353 | 10.2 | 20.2 | 3 22 | 9 49.49 | +7 53.3 | 1.663 | 2.544 | 13.0 | 19.3 |
| 4 1 | 9 52.57 | +17 36.4 | 2.586 | 3.345 | 12.7 | 20.3 | 4 1 | 9 44.63 | +7 52.6 | 1.731 | 2.530 | 16.5 | 19.5 |
| 340707 | 2006 <i>SN</i> ₃₉ | | 2 21.5 107°29 | 2°0/23.9 18 | | | 417532 | 2006 <i>TG</i> ₅₁ | | 2 21.5 115°03 | 2°7/19.2 18 | | |
| 1 22 | 10 35.46 | +1 12.1 | 2.646 | 3.463 | 10.4 | 21.2 | 1 22 | 10 40.89 | +16 3.3 | 1.809 | 2.674 | 12.3 | 21.7 |
| 2 1 | 10 30.17 | +1 35.7 | 2.580 | 3.480 | 7.7 | 21.0 | 2 1 | 10 34.47 | +16 55.0 | 1.754 | 2.685 | 8.5 | 21.4 |
| 2 11 | 10 23.63 | +2 11.2 | 2.541 | 3.496 | 4.7 | 20.9 | 2 11 | 10 26.06 | +17 50.1 | 1.724 | 2.696 | 4.6 | 21.2 |
| 2 21 | 10 16.42 | +2 55.8 | 2.531 | 3.513 | 2.2 | 20.7 | 2 21 | 10 16.55 | +18 41.6 | 1.723 | 2.706 | 2.8 | 21.1 |
| 3 2 | 10 9.19 | +3 45.6 | 2.551 | 3.528 | 3.1 | 20.8 | 3 2 | 10 7.05 | +19 23.0 | 1.751 | 2.716 | 5.9 | 21.4 |
| 3 12 | 10 2.63 | +4 36.3 | 2.601 | 3.544 | 5.9 | 21.0 | 3 12 | 9 58.69 | +19 49.6 | 1.806 | 2.726 | 9.7 | 21.6 |
| 3 22 | 9 57.29 | +5 23.7 | 2.679 | 3.559 | 8.7 | 21.2 | 3 22 | 9 52.29 | +20 0.0 | 1.886 | 2.736 | 13.1 | 21.8 |
| 4 1 | 9 53.56 | +6 4.7 | 2.782 | 3.574 | 11.1 | 21.4 | 4 1 | 9 48.39 | +19 54.3 | 1.985 | 2.745 | 16.0 | 22.0 |
| 29208 | Halorentz | | 2 21.5 210°63 | 2°5/23.5 18 | | | 334127 | 2001 <i>RD</i> ₃₂ | | 2 21.5 91°38 | 2°3/23.7 18 | | |
| 1 22 | 10 40.94 | +1 38.6 | 1.825 | 2.652 | 13.9 | 20.0 | 1 22 | 10 39.90 | +2 12.1 | 2.486 | 3.302 | 11.0 | 20.8 |
| 2 1 | 10 34.67 | +2 0.4 | 1.740 | 2.646 | 10.4 | 19.8 | 2 1 | 10 33.25 | +2 6.9 | 2.429 | 3.328 | 8.1 | 20.6 |
| 2 11 | 10 26.28 | +2 39.7 | 1.680 | 2.639 | 6.3 | 19.5 | 2 11 | 10 25.24 | +2 12.6 | 2.398 | 3.353 | 5.0 | 20.4 |
| 2 21 | 10 16.55 | +3 33.1 | 1.647 | 2.631 | 2.8 | 19.3 | 2 21 | 10 16.52 | +2 27.2 | 2.397 | 3.378 | 2.5 | 20.3 |
| 3 2 | 10 6.53 | +4 35.1 | 1.644 | 2.622 | 4.4 | 19.4 | 3 2 | 10 7.87 | +2 47.6 | 2.427 | 3.403 | 3.4 | 20.4 |
| 3 12 | 9 57.40 | +5 38.5 | 1.669 | 2.612 | 8.5 | 19.6 | 3 12 | 10 0.04 | +3 10.2 | 2.486 | 3.427 | 6.3 | 20.6 |
| 3 22 | 9 50.11 | +6 36.9 | 1.720 | 2.602 | 12.6 | 19.8 | 3 22 | 9 53.64 | +3 31.5 | 2.574 | 3.450 | 9.1 | 20.9 |
| 4 1 | 9 45.31 | +7 25.2 | 1.793 | 2.591 | 16.0 | 20.0 | 4 1 | 9 49.06 | +3 48.9 | 2.685 | 3.474 | 11.5 | 21.1 |
| 503136 | 2015 <i>GJ</i> ₇ | | 2 21.5 195°89 | 1°2/19.9 18 | | | 409003 | 2002 <i>XQ</i> ₄₁ | | 2 21.5 119°62 | 1°5/22.9 18 | | |
| 1 22 | 10 34.41 | +11 26.7 | 2.445 | 3.300 | 9.8 | 20.8 | 1 22 | 10 40.62 | +4 5.9 | 2.085 | 2.915 | 12.3 | 22.0 |
| 2 1 | 10 29.65 | +12 36.9 | 2.372 | 3.299 | 6.8 | 20.6 | 2 1 | 10 34.01 | +4 28.7 | 2.025 | 2.934 | 8.9 | 21.8 |
| 2 11 | 10 23.46 | +13 54.6 | 2.326 | 3.298 | 3.5 | 20.4 | 2 11 | 10 25.73 | +5 3.9 | 1.991 | 2.953 | 5.1 | 21.6 |
| 2 21 | 10 16.41 | +15 14.3 | 2.311 | 3.297 | 1.3 | 20.2 | 2 21 | 10 16.54 | +5 47.5 | 1.985 | 2.971 | 1.7 | 21.4 |
| 3 2 | 10 9.25 | +16 29.8 | 2.326 | 3.296 | 4.2 | 20.4 | 3 2 | 10 7.39 | +6 34.8 | 2.010 | 2.989 | 3.7 | 21.5 |
| 3 12 | 10 2.73 | +17 36.0 | 2.370 | 3.295 | 7.5 | 20.6 | 3 12 | 9 59.19 | +7 20.2 | 2.065 | 3.006 | 7.3 | 21.8 |
| 3 22 | 9 57.50 | +18 29.3 | 2.441 | 3.293 | 10.5 | 20.8 | 3 22 | 9 52.66 | +7 59.6 | 2.146 | 3.022 | 10.7 | 22.0 |
| 4 1 | 9 54.04 | +19 7.7 | 2.535 | 3.292 | 13.0 | 21.0 | 4 1 | 9 48.27 | +8 29.9 | 2.250 | 3.037 | 13.5 | 22.3 |
| 51375 | 2000 <i>YO</i> ₁₂₀ | | 2 21.5 141°92 | 1°6/22.0 18 | | | 35117 | 1992 <i>DN</i> ₉ | | 2 21.5 312°49 | 2°7/23.3 18 | | |
| 1 22 | 10 56.20 | +9 29.3 | 1.247 | 2.094 | 17.8 | 17.8 | 1 22 | 10 36.63 | +2 15.0 | 1.296 | 2.151 | 16.8 | 18.9 |
| 2 1 | 10 45.94 | +8 38.4 | 1.183 | 2.103 | 12.9 | 17.5 | 2 1 | 10 32.31 | +2 38.5 | 1.214 | 2.134 | 12.5 | 18.6 |
| 2 11 | 10 32.35 | +7 55.1 | 1.143 | 2.111 | 7.1 | 17.2 | 2 11 | 10 25.33 | +3 25.9 | 1.154 | 2.118 | 7.6 | 18.3 |
| 2 21 | 10 16.83 | +7 17.4 | 1.130 | 2.118 | 1.7 | 16.9 | 2 21 | 10 16.54 | +4 33.1 | 1.117 | 2.103 | 3.0 | 18.0 |
| 3 2 | 10 1.34 | +6 43.2 | 1.146 | 2.125 | 5.8 | 17.2 | 3 2 | 10 7.27 | +5 52.2 | 1.106 | 2.087 | 5.3 | 18.1 |
| 3 12 | 9 47.81 | +6 9.9 | 1.190 | 2.131 | 11.5 | 17.5 | 3 12 | 9 59.07 | +7 12.6 | 1.121 | 2.073 | 10.7 | 18.3 |
| 3 22 | 9 37.59 | +5 35.8 | 1.258 | 2.136 | 16.5 | 17.8 | 3 22 | 9 53.21 | +8 24.5 | 1.157 | 2.059 | 15.8 | 18.5 |
| 4 1 | 9 31.33 | +4 59.2 | 1.344 | 2.141 | 20.5 | 18.1 | 4 1 | 9 50.52 | +9 20.8 | 1.212 | 2.045 | 20.2 | 18.8 |
| 270218 | 2001 <i>TD</i> ₁₅₁ | | 2 21.5 129°59 | 1°9/19.6 18 | | | 32578 | 2001 <i>QY</i> ₈₈ | | 2 21.5 198°68 | 0°5/20.9 18 | | |
| 1 22 | 10 39.85 | +14 16.3 | 2.284 | 3.139 | 10.5 | 21.9 | 1 22 | 10 37.73 | +11 25.5 | 2.709 | 3.555 | 9.3 | 18.7 |
| 2 1 | 10 33.40 | +15 13.0 | 2.229 | 3.156 | 7.2 | 21.8 | 2 1 | 10 31.83 | +11 46.4 | 2.630 | 3.552 | 6.5 | 18.5 |
| 2 11 | 10 25.37 | +16 13.7 | 2.202 | 3.173 | 3.8 | 21.6 | 2 11 | 10 24.56 | +12 12.3 | 2.578 | 3.549 | 3.4 | 18.3 |
| 2 21 | 10 16.51 | +17 12.6 | 2.205 | 3.190 | 2.0 | 21.5 | 2 21 | 10 16.49 | +12 39.8 | 2.557 | 3.545 | 0.5 | 18.1 |
| 3 2 | 10 7.66 | +18 4.3 | 2.239 | 3.205 | 4.7 | 21.7 | 3 2 | 10 8.33 | +13 5.4 | 2.567 | 3.541 | 3.4 | 18.3 |
| 3 12 | 9 59.70 | +18 44.4 | 2.301 | 3.220 | 8.0 | 21.9 | 3 12 | 10 0.81 | +13 25.7 | 2.606 | 3.537 | 6.6 | 18.5 |
| 3 22 | 9 53.32 | +19 11.0 | 2.390 | 3.234 | 10.9 | 22.1 | 3 22 | 9 54.53 | +13 38.6 | 2.673 | 3.532 | 9.4 | 18.7 |
| 4 1 | 9 48.95 | +19 23.5 | 2.501 | 3.247 | 13.4 | 22.3 | 4 1 | 9 49.94 | +13 42.8 | 2.764 | 3.527 | 11.8 | 18.9 |
| 505148 | 2012 <i>PR</i> ₇ | | 2 21.5 139°43 | 3°5/25.6 18 | | | 309039 | 2006 <i>UL</i> ₂₁₆ | | 2 21.5 161°03 | 4°2/25.5 18 | | |
| 1 22 | 10 35.24 | -4 17.2 | 2.504 | 3.298 | 11.6 | 21.8 | 1 22 | 10 37.30 | -4 21.6 | 1.919 | 2.724 | 14.2 | 20.8 |
| 2 1 | 10 30.14 | -3 51.3 | 2.427 | 3.306 | 9.0 | 21.6 | 2 1 | 10 31.96 | -3 57.0 | 1.842 | 2.728 | 11.1 | 20.6 |
| 2 11 | 10 23.68 | -3 8.6 | 2.375 | 3.315 | 6.2 | 21.5 | 2 11 | 10 24.78 | -3 10.6 | 1.788 | 2.731 | 7.6 | 20.4 |
| 2 21 | 10 16.43 | -2 11.4 | 2.352 | 3.322 | 3.9 | 21.3 | 2 21 | 10 16.50 | -2 5.0 | 1.761 | 2.734 | 4.7 | 20.2 |
| 3 2 | 10 9.11 | -1 4.0 | 2.358 | 3.330 | 4.0 | 21.3 | 3 2 | 10 8.08 | -0 45.5 | 1.763 | 2.736 | 4.9 | 20.2 |
| 3 12 | 10 2.45 | +0 8.4 | 2.395 | 3.337 | 6.4 | 21.5 | 3 12 | 10 0.50 | +0 40.2 | 1.793 | 2.738 | 7.9 | 20.4 |
| 3 22 | 9 57.05 | +1 20.0 | 2.459 | 3.344 | 9.1 | 21.7 | 3 22 | 9 54.60 | +2 4.3 | 1.849 | 2.740 | 11.4 | 20.6 |
| 4 1 | 9 53.36 | +2 26.2 | 2.547 | 3.350 | 11.7 | 21.9 | 4 1 | 9 50.93 | +3 20.4 | 1.929 | 2.741 | 14.5 | 20.8 |
| 496078 | 2009 <i>SU</i> ₂₃ | | 2 21.5 155°08 | 2°1/23.6 17 | | | 190070 | 2004 <i>RL</i> ₃₄₆ | | 2 21.5 210°53 | 0°8/22.4 18 | | |
| 1 22 | 10 38.20 | +1 38.2 | 2.369 | 3.188 | 11.4 | 22.6 | 1 22 | 10 36.98 | +5 3.3 | 2 | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 383768 | 2007 <i>VU</i> ₂₄₁ | | 2 21.5 140°90 | 3°3/17.4 | 17 | | 214242 | 2005 <i>ED</i> ₁₈₇ | | 2 21.5 270°35 | 1°1/22.3 | 17 | |
| 1 22 | 10 36.79 | +20 31.4 | 2.667 | 3.529 | 8.9 | 21.3 | 1 22 | 10 39.08 | + 5 46.6 | 1.710 | 2.558 | 13.7 | 20.9 |
| 2 1 | 10 31.19 | +21 39.6 | 2.611 | 3.539 | 6.3 | 21.1 | 2 1 | 10 33.56 | + 6 12.6 | 1.621 | 2.541 | 10.0 | 20.6 |
| 2 11 | 10 24.22 | +22 47.3 | 2.584 | 3.548 | 3.9 | 21.0 | 2 11 | 10 25.81 | + 6 53.7 | 1.557 | 2.525 | 5.6 | 20.3 |
| 2 21 | 10 16.48 | +23 48.9 | 2.587 | 3.557 | 3.6 | 21.0 | 2 21 | 10 16.59 | + 7 45.5 | 1.520 | 2.508 | 1.3 | 20.0 |
| 3 2 | 10 8.70 | +24 39.6 | 2.620 | 3.566 | 5.5 | 21.1 | 3 2 | 10 6.99 | + 8 41.7 | 1.511 | 2.491 | 4.5 | 20.2 |
| 3 12 | 10 1.64 | +25 16.1 | 2.682 | 3.574 | 8.1 | 21.3 | 3 12 | 9 58.25 | + 9 35.3 | 1.530 | 2.473 | 9.2 | 20.4 |
| 3 22 | 9 55.89 | +25 37.2 | 2.769 | 3.582 | 10.5 | 21.4 | 3 22 | 9 51.40 | +10 20.2 | 1.573 | 2.456 | 13.5 | 20.6 |
| 4 1 | 9 51.90 | +25 43.3 | 2.877 | 3.590 | 12.5 | 21.6 | 4 1 | 9 47.16 | +10 52.5 | 1.637 | 2.438 | 17.2 | 20.8 |
| 152884 | 2000 <i>BS</i> ₄₇ | | 2 21.5 162°80 | 0°3/21.2 | 18 | | 362098 | 2009 <i>BS</i> ₁₈₆ | | 2 21.5 83°53 | 2°2/23.3 | 18 | |
| 1 22 | 10 42.37 | + 8 52.2 | 1.784 | 2.633 | 13.2 | 21.1 | 1 22 | 10 40.99 | + 1 58.2 | 1.507 | 2.346 | 15.7 | 21.2 |
| 2 1 | 10 35.58 | + 9 38.6 | 1.717 | 2.640 | 9.3 | 20.9 | 2 1 | 10 34.66 | + 2 36.0 | 1.459 | 2.372 | 11.5 | 21.0 |
| 2 11 | 10 26.71 | +10 36.1 | 1.675 | 2.646 | 4.9 | 20.6 | 2 11 | 10 26.19 | + 3 33.1 | 1.434 | 2.396 | 6.7 | 20.8 |
| 2 21 | 10 16.60 | +11 38.6 | 1.663 | 2.651 | 0.3 | 20.3 | 2 21 | 10 16.60 | + 4 43.5 | 1.436 | 2.421 | 2.5 | 20.6 |
| 3 2 | 10 6.40 | +12 39.0 | 1.679 | 2.656 | 4.6 | 20.6 | 3 2 | 10 7.13 | + 5 59.1 | 1.465 | 2.445 | 4.5 | 20.8 |
| 3 12 | 9 57.27 | +13 30.7 | 1.725 | 2.659 | 9.0 | 20.9 | 3 12 | 9 58.99 | + 7 11.4 | 1.523 | 2.469 | 9.0 | 21.1 |
| 3 22 | 9 50.12 | +14 9.5 | 1.795 | 2.662 | 12.9 | 21.2 | 3 22 | 9 53.05 | + 8 13.5 | 1.604 | 2.492 | 13.0 | 21.4 |
| 4 1 | 9 45.53 | +14 33.6 | 1.887 | 2.664 | 16.1 | 21.4 | 4 1 | 9 49.80 | + 9 1.5 | 1.707 | 2.515 | 16.3 | 21.6 |
| 140297 | 2001 <i>SW</i> ₃₀₅ | | 2 21.5 44°30 | 4°8/17.6 | 18 | | 427655 | 2003 <i>YA</i> ₄₃ | | 2 21.5 51°18 | 3°0/24.0 | 18 | |
| 1 22 | 10 42.03 | +24 51.5 | 2.087 | 2.951 | 10.9 | 19.4 | 1 22 | 10 37.59 | + 1 1.4 | 1.970 | 2.797 | 13.1 | 21.1 |
| 2 1 | 10 35.09 | +25 20.7 | 2.032 | 2.957 | 8.0 | 19.3 | 2 1 | 10 32.05 | + 0 58.3 | 1.903 | 2.806 | 9.8 | 20.9 |
| 2 11 | 10 26.32 | +25 44.4 | 2.004 | 2.963 | 5.4 | 19.1 | 2 11 | 10 24.79 | + 1 10.2 | 1.860 | 2.815 | 6.2 | 20.7 |
| 2 21 | 10 16.58 | +25 56.9 | 2.004 | 2.970 | 5.0 | 19.1 | 2 21 | 10 16.54 | + 1 34.7 | 1.844 | 2.824 | 3.3 | 20.5 |
| 3 2 | 10 6.92 | +25 54.2 | 2.033 | 2.977 | 7.0 | 19.2 | 3 2 | 10 8.23 | + 2 7.9 | 1.857 | 2.834 | 4.2 | 20.6 |
| 3 12 | 9 58.38 | +25 34.5 | 2.089 | 2.984 | 9.9 | 19.4 | 3 12 | 10 0.82 | + 2 44.6 | 1.898 | 2.844 | 7.5 | 20.8 |
| 3 22 | 9 51.72 | +24 58.9 | 2.169 | 2.991 | 12.7 | 19.6 | 3 22 | 9 55.05 | + 3 19.9 | 1.965 | 2.854 | 10.9 | 21.0 |
| 4 1 | 9 47.41 | +24 9.8 | 2.270 | 2.998 | 15.1 | 19.8 | 4 1 | 9 51.44 | + 3 49.6 | 2.055 | 2.864 | 13.9 | 21.2 |
| 300074 | 2006 <i>UQ</i> ₂₀₇ | | 2 21.5 128°11 | 2°7/24.3 | 17 | | 67839 | 2000 <i>VS</i> ₅₇ | | 2 21.5 22°95 | 5°3/24.7 | 18 | |
| 1 22 | 10 37.13 | + 0 3.9 | 2.737 | 3.544 | 10.4 | 20.9 | 1 22 | 10 38.62 | - 0 58.1 | 1.190 | 2.036 | 18.6 | 18.0 |
| 2 1 | 10 31.34 | + 0 1.2 | 2.663 | 3.555 | 7.8 | 20.7 | 2 1 | 10 33.58 | - 1 22.9 | 1.133 | 2.043 | 14.2 | 17.7 |
| 2 11 | 10 24.27 | + 0 10.0 | 2.617 | 3.566 | 5.1 | 20.6 | 2 11 | 10 25.87 | - 1 22.8 | 1.096 | 2.051 | 9.5 | 17.5 |
| 2 21 | 10 16.49 | + 0 28.7 | 2.599 | 3.576 | 2.9 | 20.4 | 2 21 | 10 16.59 | - 0 59.5 | 1.082 | 2.060 | 5.7 | 17.3 |
| 3 2 | 10 8.66 | + 0 54.4 | 2.612 | 3.586 | 3.4 | 20.5 | 3 2 | 10 7.22 | - 0 18.4 | 1.093 | 2.070 | 6.4 | 17.4 |
| 3 12 | 10 1.48 | + 1 23.7 | 2.655 | 3.595 | 5.9 | 20.7 | 3 12 | 9 59.30 | + 0 31.6 | 1.128 | 2.080 | 10.6 | 17.6 |
| 3 22 | 9 55.50 | + 1 53.1 | 2.726 | 3.605 | 8.6 | 20.8 | 3 22 | 9 53.93 | + 1 21.5 | 1.185 | 2.092 | 15.0 | 17.9 |
| 4 1 | 9 51.15 | + 2 19.3 | 2.821 | 3.614 | 10.9 | 21.0 | 4 1 | 9 51.76 | + 2 4.0 | 1.261 | 2.104 | 18.9 | 18.2 |
| 407669 | 2011 <i>SA</i> ₂₂₀ | | 2 21.5 213°64 | 2°3/23.4 | 17 | | 454506 | 2014 <i>OB</i> ₁₈₁ | | 2 21.5 132°62 | 4°2/17.9 | 18 | |
| 1 22 | 10 40.47 | + 1 45.9 | 1.847 | 2.675 | 13.7 | 22.9 | 1 22 | 10 41.01 | +18 48.1 | 1.659 | 2.531 | 12.8 | 20.8 |
| 2 1 | 10 34.35 | + 2 14.8 | 1.762 | 2.668 | 10.2 | 22.6 | 2 1 | 10 34.79 | +20 4.6 | 1.605 | 2.538 | 9.0 | 20.6 |
| 2 11 | 10 26.13 | + 3 1.5 | 1.700 | 2.660 | 6.2 | 22.4 | 2 11 | 10 26.35 | +21 22.8 | 1.576 | 2.544 | 5.4 | 20.4 |
| 2 21 | 10 16.59 | + 4 2.3 | 1.667 | 2.651 | 2.6 | 22.1 | 2 21 | 10 16.62 | +22 33.7 | 1.574 | 2.550 | 4.5 | 20.3 |
| 3 2 | 10 6.75 | + 5 11.2 | 1.662 | 2.641 | 4.3 | 22.2 | 3 2 | 10 6.85 | +23 29.0 | 1.601 | 2.556 | 7.5 | 20.5 |
| 3 12 | 9 57.76 | + 6 20.9 | 1.687 | 2.631 | 8.5 | 22.4 | 3 12 | 9 58.29 | +24 3.6 | 1.654 | 2.562 | 11.2 | 20.7 |
| 3 22 | 9 50.58 | + 7 24.6 | 1.737 | 2.619 | 12.5 | 22.6 | 3 22 | 9 51.89 | +24 16.4 | 1.730 | 2.567 | 14.7 | 21.0 |
| 4 1 | 9 45.85 | + 8 17.5 | 1.810 | 2.607 | 15.9 | 22.8 | 4 1 | 9 48.21 | +24 8.6 | 1.825 | 2.572 | 17.6 | 21.2 |
| 80004 | 1999 <i>FH</i> ₅₄ | | 2 21.5 342°52 | 4°3/25.4 | 18 | | 1593 | Fagnes | | 2 21.5 221°82 | 2°8/18.9 | 18 | R |
| 1 22 | 10 33.65 | - 3 25.1 | 1.808 | 2.627 | 14.4 | 19.0 | 1 22 | 10 41.49 | +14 48.7 | 1.928 | 2.788 | 11.9 | 17.4 |
| 2 1 | 10 29.54 | - 3 12.2 | 1.726 | 2.620 | 11.2 | 18.8 | 2 1 | 10 35.10 | +16 9.5 | 1.847 | 2.776 | 8.3 | 17.1 |
| 2 11 | 10 23.58 | - 2 37.4 | 1.666 | 2.613 | 7.7 | 18.5 | 2 11 | 10 26.57 | +17 37.9 | 1.792 | 2.763 | 4.5 | 16.9 |
| 2 21 | 10 16.46 | - 1 43.0 | 1.632 | 2.606 | 4.8 | 18.4 | 2 21 | 10 16.64 | +19 6.0 | 1.767 | 2.749 | 2.9 | 16.7 |
| 3 2 | 10 9.13 | - 0 33.8 | 1.626 | 2.600 | 5.0 | 18.4 | 3 2 | 10 6.39 | +20 25.0 | 1.772 | 2.735 | 6.2 | 16.9 |
| 3 12 | 10 2.60 | + 0 42.8 | 1.646 | 2.595 | 8.2 | 18.5 | 3 12 | 9 56.98 | +21 28.2 | 1.806 | 2.719 | 10.1 | 17.1 |
| 3 22 | 9 57.72 | + 1 59.1 | 1.692 | 2.591 | 11.8 | 18.7 | 3 22 | 9 49.39 | +22 11.9 | 1.864 | 2.702 | 13.8 | 17.3 |
| 4 1 | 9 55.08 | + 3 8.2 | 1.760 | 2.587 | 15.1 | 18.9 | 4 1 | 9 44.30 | +22 35.5 | 1.943 | 2.684 | 16.9 | 17.5 |
| 245108 | 2004 <i>PY</i> ₈₀ | | 2 21.5 155°90 | 0°9/20.8 | 18 | | 114429 | 2003 <i>AX</i> ₄ | | 2 21.5 111°67 | 4°2/18.3 | 18 | |
| 1 22 | 10 40.94 | + 9 55.7 | 1.708 | 2.564 | 13.3 | 21.5 | 1 22 | 10 42.97 | +17 45.6 | 1.446 | 2.319 | 14.2 | 19.2 |
| 2 1 | 10 34.66 | +10 52.1 | 1.643 | 2.570 | 9.3 | 21.2 | 2 1 | 10 36.32 | +19 3.7 | 1.398 | 2.332 | 9.9 | 19.0 |
| 2 11 | 10 26.25 | +11 59.4 | 1.604 | 2.576 | 4.8 | 21.0 | 2 11 | 10 27.19 | +20 24.6 | 1.374 | 2.344 | 5.8 | 18.8 |
| 2 21 | 10 16.59 | +13 10.6 | 1.593 | 2.581 | 0.9 | 20.7 | 2 21 | 10 16.67 | +21 37.8 | 1.378 | 2.356 | 4.5 | 18.7 |
| 3 2 | 10 6.84 | +14 17.8 | 1.611 | 2.586 | 5.0 | 21.0 | 3 2 | 10 6.20 | +22 34.1 | 1.409 | 2.368 | 7.8 | 19.0 |
| 3 12 | 9 58.18 | +15 14.1 | 1.657 | 2.590 | 9.5 | 21.3 | 3 12 | 9 57.19 | +23 8.0 | 1.465 | 2.380 | 12.0 | 19.2 |
| 3 22 | 9 51.53 | +15 55.2 | 1.728 | 2.594 | 13.4 | 21.5 | 3 22 | 9 50.67 | +23 18.7 | 1.544 | 2.391 | 15.7 | 19.5 |
| 4 1 | 9 47.48 | +16 19.6 | 1.819 | 2.597 | 16.6 | 21.8 | 4 1 | 9 47.17 | +23 8.0 | 1.642 | 2.401 | 18.8 | 19.7 |
| 49324 | 1998 <i>VX</i> ₃₀ | | 2 21.5 79°65 | 8°3/28.6 | 18 | | 412846 | 2014 <i>PF</i> ₅₃ | | 2 21.5 249°49 | 1°3/20.5 | 18 | |
| 1 22 | 10 39.55 | -12 21.3 | 1.718 | 2.484 | 17.2 | 18.6 | 1 22 | 10 39.21 | +10 49.6 | 1.558 | 2.423 | 13.9 | 21.0 |
| 2 1 | 10 33.65 | -12 54.9 | 1.655 | 2.499 | 14.3 | 18.4 | 2 1 | 10 33.69 | +11 43.9 | 1.488 | 2.420 | 9.7 | 20.7 |
| 2 11 | 10 25.70 | -13 0.5 | 1.612 | 2.515 | 11.3 | 18.2 | 2 11 | 10 25.86 | +12 49.7 | 1.443 | 2.416 | 5.0 | 20.4 |
| 2 21 | 10 16.57 | -12 37.4 | 1.594 | 2.531 | 9.0 | 18.1 | 2 21 | 10 16.62 | +13 59.5 | 1.425 | 2.413 | 1.3 | 20.2 |
| 3 2 | 10 7.36 | -11 48.5 | 1.601 | 2.547 | 8.4 | 18.1 | 3 2 | 10 7.16 | +15 4.9 | 1.435 | 2.410 | 5.5 | 20.4 |
| 3 12 | 9 59.23 | -10 40.7 | 1.634 | 2.562 | 9.9 | 18.3 | 3 12 | 9 58.81 | +15 58.2 | 1.471 | 2.406 | 10.3 | 20.7 |
| 3 22 | 9 53.06 | - 9 22.9 | 1.692 | 2.578 | 12.5 | 18.4 | 3 22 | 9 52.58 | +16 35.0 | 1.531 | 2.403 | 14.5 | 20.9 |
| 4 1 | 9 49.42 | - 8 4.0 | 1.772 | 2.593 | 15.2 | 18.7 | 4 1 | 9 49.11 | +16 53.5 | 1.611 | 2.399 | 18.0 | 21.2 |
| 55084 | 2001 <i>QE</i> ₁₁₅ | | 2 21.5 46°94 | 3°7/25.3 | 18 | | 274721 | 2008 <i>UH</i> | | | | | |

EPHEMERIDES

2 21.5

2 21.5

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------------|-----------|---------|------|---------------|-------------------------------|-----------------|----------------|-----------|---------|------|
| 45664 | 2000 <i>EC</i> ₈₈ | | 2 21.5 188°45' | 4.9°/26.6 | 18 | | 245466 | 2005 <i>MG</i> ₄₈ | | 2 21.5 305°95' | 0.7°/20.8 | 17 | |
| 1 22 | 10 36.76 | - 7 22.0 | 2.545 | 3.319 | 12.0 | 18.6 | 1 22 | 10 33.92 | + 8 55.0 | 2.093 | 2.949 | 11.2 | 20.5 |
| 2 1 | 10 31.28 | - 7 30.1 | 2.459 | 3.318 | 9.7 | 18.4 | 2 1 | 10 29.61 | +10 4.6 | 2.009 | 2.936 | 7.9 | 20.3 |
| 2 11 | 10 24.35 | - 7 21.0 | 2.396 | 3.317 | 7.2 | 18.2 | 2 11 | 10 23.61 | +11 26.3 | 1.951 | 2.923 | 4.1 | 20.1 |
| 2 21 | 10 16.55 | - 6 55.3 | 2.361 | 3.316 | 5.2 | 18.1 | 2 21 | 10 16.56 | +12 53.9 | 1.922 | 2.911 | 0.7 | 19.8 |
| 3 2 | 10 8.59 | - 6 15.4 | 2.355 | 3.314 | 5.1 | 18.1 | 3 2 | 10 9.27 | +14 20.3 | 1.923 | 2.899 | 4.3 | 20.0 |
| 3 12 | 10 1.25 | - 5 25.7 | 2.378 | 3.312 | 6.9 | 18.2 | 3 12 | 10 2.67 | +15 38.5 | 1.953 | 2.886 | 8.2 | 20.2 |
| 3 22 | 9 55.18 | - 4 31.2 | 2.428 | 3.310 | 9.4 | 18.3 | 3 22 | 9 57.53 | +16 43.3 | 2.008 | 2.875 | 11.8 | 20.4 |
| 4 1 | 9 50.85 | - 3 37.1 | 2.502 | 3.307 | 11.8 | 18.5 | 4 1 | 9 54.40 | +17 31.7 | 2.086 | 2.863 | 14.8 | 20.6 |
| 204684 | 2006 <i>DF</i> ₁₆₄ | | 2 21.5 236°41' | 1°/22.4 | 17 | | 93601 | 2000 <i>UR</i> ₅₇ | | 2 21.5 115°31' | 0.4°/21.2 | 18 | |
| 1 22 | 10 40.36 | + 5 29.3 | 1.780 | 2.623 | 13.5 | 21.2 | 1 22 | 10 40.57 | +10 38.1 | 2.012 | 2.863 | 11.8 | 20.1 |
| 2 1 | 10 34.38 | + 5 59.7 | 1.693 | 2.611 | 9.8 | 21.0 | 2 1 | 10 34.11 | +10 59.9 | 1.950 | 2.874 | 8.3 | 19.9 |
| 2 11 | 10 26.22 | + 6 45.0 | 1.632 | 2.598 | 5.5 | 20.7 | 2 11 | 10 25.88 | +11 28.7 | 1.914 | 2.885 | 4.3 | 19.7 |
| 2 21 | 10 16.65 | + 7 40.7 | 1.598 | 2.585 | 1.3 | 20.4 | 2 21 | 10 16.67 | +12 0.1 | 1.907 | 2.895 | 0.4 | 19.4 |
| 3 2 | 10 6.74 | + 8 40.4 | 1.593 | 2.572 | 4.3 | 20.5 | 3 2 | 10 7.45 | +12 29.2 | 1.929 | 2.905 | 4.1 | 19.7 |
| 3 12 | 9 57.71 | + 9 37.2 | 1.616 | 2.558 | 8.9 | 20.8 | 3 12 | 9 59.22 | +12 51.7 | 1.980 | 2.915 | 8.0 | 20.0 |
| 3 22 | 9 50.54 | +10 25.3 | 1.664 | 2.543 | 13.1 | 21.0 | 3 22 | 9 52.73 | +13 5.0 | 2.058 | 2.925 | 11.5 | 20.2 |
| 4 1 | 9 45.92 | +11 0.9 | 1.734 | 2.528 | 16.7 | 21.2 | 4 1 | 9 48.47 | +13 7.7 | 2.157 | 2.935 | 14.3 | 20.4 |
| 492530 | 2014 <i>OM</i> ₈₀ | | 2 21.5 261°24' | 3°/19.4 | 18 | | 98401 | 2000 <i>UX</i> ₇ | | 2 21.5 111°20' | 3°/24.0 | 18 | |
| 1 22 | 10 42.09 | +15 48.8 | 1.453 | 2.325 | 14.2 | 21.8 | 1 22 | 10 39.70 | + 0 5.1 | 1.639 | 2.469 | 15.1 | 19.3 |
| 2 1 | 10 35.89 | +16 37.2 | 1.386 | 2.320 | 10.0 | 21.5 | 2 1 | 10 33.81 | + 0 30.7 | 1.576 | 2.481 | 11.3 | 19.1 |
| 2 11 | 10 27.10 | +17 31.3 | 1.343 | 2.315 | 5.4 | 21.2 | 2 11 | 10 25.84 | + 1 16.5 | 1.536 | 2.493 | 7.1 | 18.8 |
| 2 21 | 10 16.70 | +18 22.7 | 1.326 | 2.310 | 3.2 | 21.0 | 2 21 | 10 16.68 | + 2 18.3 | 1.522 | 2.504 | 3.4 | 18.6 |
| 3 2 | 10 6.10 | +19 2.8 | 1.336 | 2.304 | 6.9 | 21.3 | 3 2 | 10 7.45 | + 3 29.4 | 1.537 | 2.515 | 4.6 | 18.7 |
| 3 12 | 9 56.78 | +19 25.8 | 1.372 | 2.299 | 11.6 | 21.5 | 3 12 | 9 59.33 | + 4 41.7 | 1.579 | 2.526 | 8.6 | 19.0 |
| 3 22 | 9 49.87 | +19 29.5 | 1.431 | 2.294 | 15.8 | 21.7 | 3 22 | 9 53.22 | + 5 47.8 | 1.647 | 2.537 | 12.6 | 19.3 |
| 4 1 | 9 46.04 | +19 14.4 | 1.509 | 2.288 | 19.4 | 22.0 | 4 1 | 9 49.67 | + 6 42.7 | 1.736 | 2.547 | 16.0 | 19.5 |
| 490337 | 2009 <i>DE</i> ₈ | | 2 21.5 45°17' | 0°/20.9 | 18 | | 297608 | 2001 <i>SR</i> ₂₃₉ | | 2 21.5 199°30' | 0°/21.1 | 18 | |
| 1 22 | 10 41.45 | +12 45.4 | 1.861 | 2.718 | 12.3 | 20.6 | 1 22 | 10 41.70 | + 9 26.1 | 1.832 | 2.683 | 12.8 | 22.3 |
| 2 1 | 10 34.71 | +12 45.3 | 1.809 | 2.736 | 8.6 | 20.4 | 2 1 | 10 35.22 | +10 12.2 | 1.756 | 2.679 | 9.1 | 22.1 |
| 2 11 | 10 26.15 | +12 49.9 | 1.783 | 2.755 | 4.4 | 20.1 | 2 11 | 10 26.63 | +11 9.1 | 1.704 | 2.675 | 4.7 | 21.8 |
| 2 21 | 10 16.65 | +12 55.2 | 1.786 | 2.774 | 0.7 | 19.9 | 2 21 | 10 16.73 | +12 11.0 | 1.682 | 2.670 | 0.5 | 21.5 |
| 3 2 | 10 7.28 | +12 57.2 | 1.817 | 2.793 | 4.4 | 20.2 | 3 2 | 10 6.61 | +13 10.9 | 1.689 | 2.665 | 4.7 | 21.8 |
| 3 12 | 9 59.07 | +12 53.0 | 1.877 | 2.813 | 8.3 | 20.5 | 3 12 | 9 57.45 | +14 2.3 | 1.725 | 2.658 | 9.1 | 22.0 |
| 3 22 | 9 52.77 | +12 41.0 | 1.962 | 2.833 | 11.8 | 20.7 | 3 22 | 9 50.17 | +14 40.9 | 1.786 | 2.651 | 13.0 | 22.2 |
| 4 1 | 9 48.84 | +12 20.6 | 2.069 | 2.853 | 14.7 | 21.0 | 4 1 | 9 45.42 | +15 4.4 | 1.868 | 2.643 | 16.3 | 22.4 |
| 173489 | 2000 <i>SE</i> ₁₇₃ | | 2 21.5 171°19' | 4°/25.2 | 18 | | 432928 | 2011 <i>SK</i> ₂₆₆ | | 2 21.5 229°01' | 1°/22.8 | 17 | |
| 1 22 | 10 39.38 | - 3 4.9 | 2.641 | 3.431 | 11.2 | 20.2 | 1 22 | 10 35.93 | + 4 58.9 | 2.531 | 3.363 | 10.3 | 21.5 |
| 2 1 | 10 33.04 | - 3 33.8 | 2.557 | 3.433 | 8.7 | 20.0 | 2 1 | 10 30.71 | + 5 18.0 | 2.447 | 3.358 | 7.5 | 21.3 |
| 2 11 | 10 25.26 | - 3 49.7 | 2.499 | 3.434 | 6.2 | 19.8 | 2 11 | 10 24.08 | + 5 47.2 | 2.389 | 3.353 | 4.3 | 21.1 |
| 2 21 | 10 16.62 | - 3 53.2 | 2.470 | 3.435 | 4.2 | 19.7 | 2 21 | 10 16.60 | + 6 23.6 | 2.360 | 3.347 | 1.3 | 20.9 |
| 3 2 | 10 7.84 | - 3 45.8 | 2.471 | 3.436 | 4.4 | 19.7 | 3 2 | 10 8.98 | + 7 3.5 | 2.362 | 3.341 | 3.2 | 21.0 |
| 3 12 | 9 59.71 | - 3 30.6 | 2.502 | 3.437 | 6.6 | 19.9 | 3 12 | 10 1.98 | + 7 42.5 | 2.393 | 3.335 | 6.4 | 21.2 |
| 3 22 | 9 52.85 | - 3 11.3 | 2.561 | 3.438 | 9.2 | 20.0 | 3 22 | 9 56.22 | + 8 17.1 | 2.452 | 3.329 | 9.5 | 21.4 |
| 4 1 | 9 47.74 | - 2 51.4 | 2.644 | 3.438 | 11.5 | 20.2 | 4 1 | 9 52.19 | + 8 44.3 | 2.534 | 3.322 | 12.1 | 21.6 |
| 226925 | 2004 <i>TN</i> ₂₅₁ | | 2 21.5 89°01' | 1°/22.4 | 18 | | 368611 | 2004 <i>RY</i> ₂₅₂ | | 2 21.5 109°99' | 8°/28.9 | 18 | |
| 1 22 | 10 38.32 | + 6 0.2 | 1.908 | 2.752 | 12.7 | 21.2 | 1 22 | 10 42.79 | -15 30.1 | 2.187 | 2.909 | 15.2 | 20.3 |
| 2 1 | 10 32.64 | + 6 21.4 | 1.841 | 2.759 | 9.1 | 20.9 | 2 1 | 10 35.73 | -16 40.2 | 2.115 | 2.921 | 13.1 | 20.1 |
| 2 11 | 10 25.15 | + 6 54.6 | 1.800 | 2.766 | 5.1 | 20.7 | 2 11 | 10 26.80 | -17 27.3 | 2.064 | 2.933 | 10.9 | 20.0 |
| 2 21 | 10 16.62 | + 7 35.7 | 1.786 | 2.773 | 1.2 | 20.4 | 2 21 | 10 16.74 | -17 48.9 | 2.039 | 2.945 | 9.3 | 19.9 |
| 3 2 | 10 8.02 | + 8 19.4 | 1.801 | 2.780 | 3.9 | 20.7 | 3 2 | 10 6.51 | -17 45.2 | 2.041 | 2.956 | 8.9 | 19.9 |
| 3 12 | 10 0.36 | + 9 0.2 | 1.844 | 2.787 | 7.9 | 20.9 | 3 12 | 9 57.11 | -17 19.8 | 2.070 | 2.968 | 9.8 | 20.0 |
| 3 22 | 9 54.42 | + 9 33.6 | 1.913 | 2.794 | 11.6 | 21.1 | 3 22 | 9 49.40 | -16 38.6 | 2.124 | 2.979 | 11.7 | 20.1 |
| 4 1 | 9 50.73 | + 9 56.9 | 2.004 | 2.801 | 14.6 | 21.4 | 4 1 | 9 43.93 | -15 49.0 | 2.200 | 2.990 | 13.7 | 20.3 |
| 283561 | 2001 <i>VP</i> ₅₇ | | 2 21.5 97°93' | 5°/25.4 | 18 | | 88522 | 2001 <i>QM</i> ₁₇₁ | | 2 21.5 86°59' | 3°/24.4 | 18 | R |
| 1 22 | 10 41.54 | - 3 53.5 | 1.526 | 2.340 | 16.8 | 20.8 | 1 22 | 10 38.67 | - 0 45.8 | 1.776 | 2.599 | 14.4 | 19.9 |
| 2 1 | 10 35.20 | - 4 2.3 | 1.465 | 2.355 | 13.1 | 20.6 | 2 1 | 10 32.91 | - 0 20.2 | 1.718 | 2.618 | 10.8 | 19.7 |
| 2 11 | 10 26.60 | - 3 47.0 | 1.426 | 2.369 | 9.0 | 20.4 | 2 11 | 10 25.29 | + 0 24.7 | 1.684 | 2.638 | 6.9 | 19.6 |
| 2 21 | 10 16.69 | - 3 9.7 | 1.413 | 2.384 | 5.8 | 20.2 | 2 21 | 10 16.66 | + 1 24.8 | 1.677 | 2.657 | 3.5 | 19.4 |
| 3 2 | 10 6.75 | - 2 15.4 | 1.426 | 2.398 | 6.0 | 20.2 | 3 2 | 10 8.05 | + 2 33.9 | 1.699 | 2.676 | 4.4 | 19.5 |
| 3 12 | 9 58.05 | - 1 12.3 | 1.467 | 2.412 | 9.3 | 20.5 | 3 12 | 10 0.49 | + 3 44.5 | 1.748 | 2.695 | 8.0 | 19.7 |
| 3 22 | 9 51.55 | - 0 8.6 | 1.532 | 2.425 | 13.1 | 20.7 | 3 22 | 9 54.77 | + 4 50.0 | 1.824 | 2.713 | 11.6 | 20.0 |
| 4 1 | 9 47.83 | + 0 48.7 | 1.618 | 2.439 | 16.5 | 21.0 | 4 1 | 9 51.39 | + 5 45.4 | 1.922 | 2.731 | 14.7 | 20.2 |
| 277867 | 2006 <i>JX</i> ₃₃ | | 2 21.5 160°04' | 5°/15.7 | 17 | | 119779 | 2002 <i>AX</i> ₄₄ | | 2 21.5 97°47' | 0°/21.9 | 18 | |
| 1 22 | 10 39.59 | +27 18.2 | 2.593 | 3.452 | 9.2 | 21.3 | 1 22 | 10 38.45 | + 7 11.9 | 1.867 | 2.716 | 12.7 | 20.3 |
| 2 1 | 10 33.25 | +28 20.8 | 2.539 | 3.457 | 6.9 | 21.1 | 2 1 | 10 32.76 | + 7 46.3 | 1.804 | 2.725 | 9.0 | 20.1 |
| 2 11 | 10 25.38 | +29 17.9 | 2.514 | 3.462 | 5.3 | 21.0 | 2 11 | 10 25.23 | + 8 32.2 | 1.766 | 2.735 | 4.8 | 19.8 |
| 2 21 | 10 16.64 | +30 3.6 | 2.517 | 3.467 | 5.4 | 21.0 | 2 21 | 10 16.66 | + 9 24.7 | 1.756 | 2.745 | 0.6 | 19.5 |
| 3 2 | 10 7.87 | +30 33.4 | 2.550 | 3.471 | 7.1 | 21.2 | 3 2 | 10 8.05 | +10 17.6 | 1.776 | 2.754 | 4.0 | 19.8 |
| 3 12 | 9 59.94 | +30 45.3 | 2.610 | 3.475 | 9.3 | 21.3 | 3 12 | 10 0.41 | +11 5.0 | 1.823 | 2.764 | 8.2 | 20.1 |
| 3 22 | 9 53.52 | +30 39.3 | 2.695 | 3.478 | 11.5 | 21.5 | 3 22 | 9 54.54 | +11 42.8 | 1.896 | 2.773 | 11.8 | 20.3 |
| 4 1 | 9 49.05 | +30 17.4 | 2.799 | 3.481 | 13.4 | 21.6 | 4 1 | 9 50.96 | +12 8.1 | 1.991 | 2.782 | 14.9 | 20.5 |
| 358527 | 2007 <i>TE</i> ₇ | | 2 21.5 172°50' | 1°/19.9 | 18 | | 365183 | 2009 <i>FM</i> ₂₃ | | 2 21.5 294°49' | 0°/20.9 | 17 | |
| 1 22 | 10 42. | | | | | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 227903 | 2007 <i>EE</i> ₁₆₅ | | 2 21.5 320°14 | 9°2/13.9 | 18 | | 95557 | 2002 <i>EB</i> ₉₇ | | 2 21.5 48°23 | 4°4/25.4 | 18 | |
| 1 22 | 10 43.37 | +33 15.4 | 1.652 | 2.517 | 13.2 | 19.6 | 1 22 | 10 36.76 | - 3 32.7 | 1.889 | 2.699 | 14.2 | 18.9 |
| 2 1 | 10 36.81 | +34 28.0 | 1.595 | 2.506 | 10.8 | 19.4 | 2 1 | 10 31.66 | - 3 27.4 | 1.812 | 2.701 | 11.0 | 18.7 |
| 2 11 | 10 27.58 | +35 27.5 | 1.562 | 2.496 | 9.3 | 19.3 | 2 11 | 10 24.72 | - 3 1.7 | 1.759 | 2.702 | 7.6 | 18.5 |
| 2 21 | 10 16.78 | +36 3.8 | 1.555 | 2.486 | 9.7 | 19.3 | 2 21 | 10 16.66 | - 2 17.7 | 1.732 | 2.704 | 4.8 | 18.4 |
| 3 2 | 10 5.89 | +36 10.0 | 1.572 | 2.476 | 11.8 | 19.4 | 3 2 | 10 8.45 | - 1 19.7 | 1.733 | 2.705 | 5.0 | 18.4 |
| 3 12 | 9 56.43 | +35 44.3 | 1.613 | 2.467 | 14.6 | 19.5 | 3 12 | 10 1.09 | - 0 14.4 | 1.761 | 2.707 | 8.0 | 18.6 |
| 3 22 | 9 49.50 | +34 50.3 | 1.674 | 2.458 | 17.4 | 19.7 | 3 22 | 9 55.40 | + 0 51.3 | 1.816 | 2.709 | 11.4 | 18.8 |
| 4 1 | 9 45.73 | +33 33.2 | 1.751 | 2.450 | 19.9 | 19.9 | 4 1 | 9 51.95 | + 1 51.3 | 1.893 | 2.711 | 14.6 | 19.0 |
| 232793 | 2004 <i>RN</i> ₉₅ | | 2 21.5 217°71 | 2°8/23.9 | 18 | | 368217 | 2001 <i>SP</i> ₁₇₂ | | 2 21.5 222°99 | 2°5/24.3 | 17 | |
| 1 22 | 10 39.45 | + 0 18.0 | 1.713 | 2.541 | 14.6 | 21.0 | 1 22 | 10 37.83 | - 0 46.2 | 2.496 | 3.303 | 11.3 | 23.1 |
| 2 1 | 10 33.78 | + 0 50.0 | 1.630 | 2.535 | 11.0 | 20.8 | 2 1 | 10 32.14 | - 0 11.4 | 2.398 | 3.290 | 8.5 | 22.9 |
| 2 11 | 10 25.94 | + 1 42.8 | 1.571 | 2.528 | 6.8 | 20.5 | 2 11 | 10 24.91 | + 0 39.1 | 2.325 | 3.276 | 5.5 | 22.7 |
| 2 21 | 10 16.71 | + 2 52.5 | 1.538 | 2.521 | 3.2 | 20.3 | 2 21 | 10 16.68 | + 1 42.7 | 2.281 | 3.261 | 2.8 | 22.5 |
| 3 2 | 10 7.19 | + 4 12.6 | 1.534 | 2.513 | 4.5 | 20.3 | 3 2 | 10 8.20 | + 2 54.9 | 2.269 | 3.246 | 3.6 | 22.5 |
| 3 12 | 9 58.57 | + 5 34.5 | 1.558 | 2.505 | 8.8 | 20.6 | 3 12 | 10 0.29 | + 4 9.9 | 2.287 | 3.229 | 6.7 | 22.6 |
| 3 22 | 9 51.85 | + 6 50.5 | 1.608 | 2.496 | 13.0 | 20.8 | 3 22 | 9 53.64 | + 5 22.3 | 2.334 | 3.212 | 9.9 | 22.8 |
| 4 1 | 9 47.70 | + 7 54.5 | 1.679 | 2.486 | 16.6 | 21.0 | 4 1 | 9 48.80 | + 6 27.3 | 2.404 | 3.194 | 12.7 | 23.0 |
| 56498 | 2000 <i>GU</i> ₁₄₀ | | 2 21.5 229°24 | 0°4/21.1 | 18 | | 238778 | 2005 <i>JB</i> ₁₃₉ | | 2 21.5 268°36 | 4°3/25.8 | 17 | |
| 1 22 | 10 39.51 | + 7 53.8 | 1.702 | 2.555 | 13.5 | 19.9 | 1 22 | 10 35.53 | - 4 33.7 | 2.274 | 3.071 | 12.5 | 20.3 |
| 2 1 | 10 33.88 | + 8 59.9 | 1.620 | 2.546 | 9.6 | 19.6 | 2 1 | 10 30.60 | - 4 31.7 | 2.186 | 3.065 | 9.9 | 20.1 |
| 2 11 | 10 26.02 | + 10 21.2 | 1.564 | 2.536 | 5.0 | 19.3 | 2 11 | 10 24.10 | - 4 11.9 | 2.123 | 3.060 | 7.0 | 19.9 |
| 2 21 | 10 16.72 | + 11 50.9 | 1.536 | 2.525 | 0.4 | 18.9 | 2 21 | 10 16.64 | - 3 35.7 | 2.087 | 3.054 | 4.7 | 19.7 |
| 3 2 | 10 7.10 | + 13 20.1 | 1.537 | 2.514 | 4.9 | 19.3 | 3 2 | 10 8.99 | - 2 46.3 | 2.080 | 3.049 | 4.7 | 19.7 |
| 3 12 | 9 58.40 | + 14 39.9 | 1.566 | 2.502 | 9.7 | 19.5 | 3 12 | 10 2.00 | - 1 49.0 | 2.101 | 3.043 | 7.1 | 19.9 |
| 3 22 | 9 51.62 | + 15 44.2 | 1.620 | 2.490 | 13.9 | 19.7 | 3 22 | 9 56.38 | - 0 49.3 | 2.148 | 3.038 | 10.1 | 20.0 |
| 4 1 | 9 47.47 | + 16 29.8 | 1.694 | 2.477 | 17.4 | 19.9 | 4 1 | 9 52.64 | + 0 7.3 | 2.220 | 3.032 | 12.9 | 20.2 |
| 161769 | 2006 <i>TP</i> ₆₇ | | 2 21.5 131°51 | 0°4/21.9 | 18 | | 430867 | 2005 <i>PB</i> ₂₀ | | 2 21.5 237°27 | 1°2/22.8 | 17 | |
| 1 22 | 10 39.09 | + 6 55.5 | 1.820 | 2.668 | 13.0 | 20.6 | 1 22 | 10 38.10 | + 5 37.7 | 2.697 | 3.525 | 9.9 | 21.7 |
| 2 1 | 10 33.28 | + 7 35.6 | 1.754 | 2.675 | 9.2 | 20.4 | 2 1 | 10 32.19 | + 5 39.0 | 2.605 | 3.514 | 7.2 | 21.5 |
| 2 11 | 10 25.54 | + 8 28.3 | 1.713 | 2.682 | 5.0 | 20.1 | 2 11 | 10 24.87 | + 5 48.5 | 2.541 | 3.504 | 4.2 | 21.3 |
| 2 21 | 10 16.69 | + 9 28.2 | 1.700 | 2.689 | 0.6 | 19.8 | 2 21 | 10 16.68 | + 6 4.2 | 2.506 | 3.492 | 1.4 | 21.1 |
| 3 2 | 10 7.76 | + 10 28.6 | 1.717 | 2.695 | 4.2 | 20.1 | 3 2 | 10 8.33 | + 6 23.0 | 2.502 | 3.481 | 3.1 | 21.2 |
| 3 12 | 9 59.82 | + 11 23.0 | 1.761 | 2.701 | 8.4 | 20.4 | 3 12 | 10 0.55 | + 6 41.9 | 2.529 | 3.469 | 6.2 | 21.4 |
| 3 22 | 9 53.70 | + 12 6.8 | 1.831 | 2.707 | 12.2 | 20.6 | 3 22 | 9 53.99 | + 6 57.9 | 2.583 | 3.457 | 9.2 | 21.6 |
| 4 1 | 9 49.94 | + 12 37.2 | 1.922 | 2.713 | 15.4 | 20.8 | 4 1 | 9 49.11 | + 7 8.6 | 2.662 | 3.444 | 11.8 | 21.7 |
| 285444 | 1999 <i>VP</i> ₂₀₂ | | 2 21.5 67°34 | 0°4/21.8 | 18 | | 118230 | Sado | | 2 21.5 89°35 | 5°6/16.4 | 18 | |
| 1 22 | 10 40.57 | + 7 14.6 | 1.453 | 2.311 | 15.1 | 21.1 | 1 22 | 10 42.80 | + 25 13.7 | 1.962 | 2.826 | 11.5 | 20.0 |
| 2 1 | 10 34.51 | + 7 49.6 | 1.405 | 2.330 | 10.7 | 20.8 | 2 1 | 10 35.67 | + 26 28.9 | 1.931 | 2.854 | 8.4 | 19.9 |
| 2 11 | 10 26.21 | + 8 38.3 | 1.379 | 2.350 | 5.7 | 20.6 | 2 11 | 10 26.68 | + 27 37.7 | 1.926 | 2.881 | 6.0 | 19.8 |
| 2 21 | 10 16.72 | + 9 34.4 | 1.381 | 2.369 | 0.6 | 20.3 | 2 21 | 10 16.77 | + 28 32.2 | 1.950 | 2.908 | 5.9 | 19.8 |
| 3 2 | 10 7.32 | + 10 30.0 | 1.409 | 2.389 | 4.8 | 20.6 | 3 2 | 10 7.05 | + 29 7.0 | 2.003 | 2.934 | 8.0 | 20.0 |
| 3 12 | 9 59.29 | + 11 17.9 | 1.465 | 2.408 | 9.5 | 21.0 | 3 12 | 9 58.60 | + 29 20.0 | 2.082 | 2.960 | 10.7 | 20.2 |
| 3 22 | 9 53.52 | + 11 53.4 | 1.544 | 2.428 | 13.7 | 21.3 | 3 22 | 9 52.16 | + 29 12.3 | 2.184 | 2.985 | 13.3 | 20.4 |
| 4 1 | 9 50.51 | + 12 14.3 | 1.644 | 2.447 | 17.0 | 21.5 | 4 1 | 9 48.16 | + 28 46.8 | 2.305 | 3.010 | 15.5 | 20.7 |
| 208361 | 2001 <i>RP</i> ₈₄ | | 2 21.5 169°16 | 0°6/22.3 | 18 | | 33034 | 1997 <i>RC</i> ₁₁ | | 2 21.5 193°92 | 1°0/22.3 | 18 | |
| 1 22 | 10 36.52 | + 6 37.3 | 3.015 | 3.846 | 8.9 | 21.5 | 1 22 | 10 40.43 | + 5 11.4 | 1.797 | 2.638 | 13.5 | 20.2 |
| 2 1 | 10 30.90 | + 7 0.8 | 2.938 | 3.850 | 6.3 | 21.4 | 2 1 | 10 34.35 | + 5 52.6 | 1.720 | 2.636 | 9.7 | 19.9 |
| 2 11 | 10 24.10 | + 7 31.7 | 2.888 | 3.854 | 3.5 | 21.2 | 2 11 | 10 26.20 | + 6 49.0 | 1.667 | 2.634 | 5.4 | 19.7 |
| 2 21 | 10 16.62 | + 8 7.3 | 2.869 | 3.857 | 0.7 | 20.9 | 2 21 | 10 16.76 | + 7 55.5 | 1.643 | 2.631 | 1.2 | 19.3 |
| 3 2 | 10 9.08 | + 8 44.1 | 2.882 | 3.860 | 2.7 | 21.1 | 3 2 | 10 7.11 | + 9 5.1 | 1.649 | 2.628 | 4.2 | 19.6 |
| 3 12 | 10 2.10 | + 9 18.9 | 2.925 | 3.863 | 5.6 | 21.3 | 3 12 | 9 58.40 | + 10 10.4 | 1.682 | 2.624 | 8.7 | 19.8 |
| 3 22 | 9 56.20 | + 9 48.9 | 2.997 | 3.864 | 8.3 | 21.5 | 3 22 | 9 51.55 | + 11 5.7 | 1.742 | 2.619 | 12.7 | 20.0 |
| 4 1 | 9 51.79 | + 10 11.9 | 3.093 | 3.866 | 10.5 | 21.7 | 4 1 | 9 47.19 | + 11 47.3 | 1.822 | 2.613 | 16.1 | 20.3 |
| 465109 | 2006 <i>VA</i> ₃₁ | | 2 21.5 132°48 | 7°4/28.4 | 18 | | 370833 | 2004 <i>XR</i> ₁₉ | | 2 21.5 44°67 | 2°2/19.9 | 18 | |
| 1 22 | 10 39.16 | - 12 19.0 | 2.011 | 2.766 | 15.4 | 21.6 | 1 22 | 10 39.12 | + 14 11.6 | 1.563 | 2.434 | 13.5 | 20.4 |
| 2 1 | 10 33.25 | - 12 39.8 | 1.937 | 2.776 | 12.8 | 21.4 | 2 1 | 10 33.38 | + 14 56.8 | 1.520 | 2.454 | 9.3 | 20.2 |
| 2 11 | 10 25.52 | - 12 35.9 | 1.885 | 2.786 | 10.1 | 21.3 | 2 11 | 10 25.59 | + 15 47.2 | 1.502 | 2.475 | 4.8 | 20.0 |
| 2 21 | 10 16.70 | - 12 6.8 | 1.858 | 2.795 | 8.0 | 21.1 | 2 21 | 10 16.72 | + 16 35.6 | 1.510 | 2.496 | 2.3 | 19.8 |
| 3 2 | 10 7.75 | - 11 15.3 | 1.858 | 2.803 | 7.4 | 21.1 | 3 2 | 10 7.99 | + 17 15.0 | 1.547 | 2.518 | 5.7 | 20.1 |
| 3 12 | 9 59.67 | - 10 7.3 | 1.885 | 2.812 | 8.9 | 21.2 | 3 12 | 10 0.57 | + 17 40.6 | 1.609 | 2.540 | 9.9 | 20.4 |
| 3 22 | 9 53.27 | - 8 50.3 | 1.938 | 2.819 | 11.4 | 21.4 | 3 22 | 9 55.26 | + 17 50.4 | 1.695 | 2.562 | 13.5 | 20.7 |
| 4 1 | 9 49.11 | - 7 32.2 | 2.014 | 2.827 | 14.0 | 21.6 | 4 1 | 9 52.54 | + 17 44.6 | 1.802 | 2.585 | 16.5 | 20.9 |
| 143164 | 2002 <i>XF</i> ₅₈ | | 2 21.5 44°82 | 5°4/25.5 | 18 | | 91877 | 1999 <i>UK</i> ₄₅ | | 2 21.5 353°40 | 3°4/23.7 | 18 | |
| 1 22 | 10 38.58 | - 3 31.7 | 1.414 | 2.239 | 17.3 | 19.2 | 1 22 | 10 39.66 | + 2 34.4 | 1.627 | 2.466 | 14.8 | 18.2 |
| 2 1 | 10 33.20 | - 3 41.5 | 1.360 | 2.257 | 13.4 | 19.0 | 2 1 | 10 33.94 | + 2 7.4 | 1.553 | 2.463 | 11.1 | 18.0 |
| 2 11 | 10 25.58 | - 3 26.1 | 1.328 | 2.274 | 9.2 | 18.8 | 2 11 | 10 26.03 | + 1 55.4 | 1.501 | 2.460 | 7.0 | 17.8 |
| 2 21 | 10 16.70 | - 2 48.1 | 1.320 | 2.293 | 5.9 | 18.7 | 2 21 | 10 16.76 | + 1 56.9 | 1.476 | 2.458 | 3.6 | 17.5 |
| 3 2 | 10 7.84 | - 1 53.0 | 1.338 | 2.311 | 6.1 | 18.7 | 3 2 | 10 7.30 | + 2 8.5 | 1.479 | 2.456 | 4.9 | 17.6 |
| 3 12 | 10 0.27 | - 0 49.4 | 1.382 | 2.330 | 9.4 | 19.0 | 3 12 | 9 58.86 | + 2 25.3 | 1.508 | 2.455 | 8.9 | 17.8 |
| 3 22 | 9 54.92 | + 0 14.0 | 1.449 | 2.350 | 13.2 | 19.2 | 3 22 | 9 52.43 | + 2 42.3 | 1.561 | 2.455 | 12.9 | 18.1 |
| 4 1 | 9 52.32 | + 1 10.1 | 1.537 | 2.370 | 16.6 | 19.5 | 4 1 | 9 48.64 | + 2 55.0 | 1.636 | 2.455 | 16.4 | 18.3 |
| 201400 | 2002 <i>VW</i> ₇₇ | | 2 21.5 114°75 | 1°2/20.1 | | | | | | | | | |

EPHEMERIDES

2 21.5

2 21.6

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|----------|--------|----------|------|---------------|------------------------|-----------------|----------|--------|----------|------|
| 426938 | 2013 YL | | 2 21.5 | 22°80 | 0°5/21.8 | 17 | 200768 | 2001 XM ₁₅ | | 2 21.5 | 105°93 | 4°8/18.0 | 18 |
| 1 22 | 10 48.94 | +11 59.2 | 1.824 | 2.669 | 13.2 | 19.5 | 1 22 | 10 43.46 | +20 3.5 | 1.491 | 2.365 | 13.9 | 19.9 |
| 2 1 | 10 40.09 | +11 6.5 | 1.756 | 2.676 | 9.4 | 19.3 | 2 1 | 10 36.70 | +21 12.3 | 1.442 | 2.375 | 9.8 | 19.7 |
| 2 11 | 10 29.09 | +10 16.7 | 1.716 | 2.684 | 5.0 | 19.0 | 2 11 | 10 27.48 | +22 20.8 | 1.419 | 2.386 | 6.0 | 19.5 |
| 2 21 | 10 16.93 | +9 28.1 | 1.705 | 2.693 | 0.6 | 18.7 | 2 21 | 10 16.89 | +23 19.3 | 1.422 | 2.397 | 5.1 | 19.5 |
| 3 2 | 10 4.83 | +8 39.8 | 1.725 | 2.702 | 4.3 | 19.0 | 3 2 | 10 6.35 | +23 59.5 | 1.452 | 2.407 | 8.1 | 19.7 |
| 3 12 | 9 54.04 | +7 50.9 | 1.775 | 2.712 | 8.6 | 19.3 | 3 12 | 9 57.27 | +24 17.3 | 1.507 | 2.417 | 12.0 | 19.9 |
| 3 22 | 9 45.44 | +7 1.0 | 1.852 | 2.723 | 12.4 | 19.6 | 3 22 | 9 50.65 | +24 12.5 | 1.586 | 2.427 | 15.7 | 20.2 |
| 4 1 | 9 39.56 | +6 9.7 | 1.951 | 2.734 | 15.5 | 19.8 | 4 1 | 9 47.02 | +23 47.7 | 1.682 | 2.436 | 18.6 | 20.4 |
| 369164 | 2008 SV ₁₀₉ | | 2 21.5 | 133°63 | 0°2/21.3 | 17 | 57876 | 2001 YB ₁₂₂ | | 2 21.5 | 256°45 | 7°4/14.7 | 18 |
| 1 22 | 10 37.33 | +8 56.2 | 2.173 | 3.022 | 11.2 | 21.1 | 1 22 | 10 42.18 | +29 39.0 | 1.897 | 2.761 | 11.8 | 19.2 |
| 2 1 | 10 31.83 | +9 37.1 | 2.105 | 3.028 | 7.8 | 20.9 | 2 1 | 10 35.73 | +30 57.4 | 1.835 | 2.752 | 9.2 | 19.0 |
| 2 11 | 10 24.73 | +10 27.0 | 2.064 | 3.034 | 4.1 | 20.7 | 2 11 | 10 26.99 | +32 7.9 | 1.799 | 2.742 | 7.5 | 18.9 |
| 2 21 | 10 16.71 | +11 21.1 | 2.052 | 3.040 | 0.2 | 20.3 | 2 21 | 10 16.88 | +33 1.4 | 1.791 | 2.732 | 7.8 | 18.9 |
| 3 2 | 10 8.61 | +12 13.8 | 2.069 | 3.046 | 3.8 | 20.7 | 3 2 | 10 6.60 | +33 30.9 | 1.809 | 2.722 | 9.9 | 19.0 |
| 3 12 | 10 1.32 | +13 0.2 | 2.116 | 3.051 | 7.5 | 20.9 | 3 12 | 9 57.44 | +33 33.6 | 1.852 | 2.712 | 12.7 | 19.2 |
| 3 22 | 9 55.55 | +13 36.6 | 2.188 | 3.057 | 10.8 | 21.1 | 3 22 | 9 50.40 | +33 10.8 | 1.917 | 2.702 | 15.5 | 19.3 |
| 4 1 | 9 51.77 | +14 1.0 | 2.283 | 3.062 | 13.6 | 21.3 | 4 1 | 9 46.10 | +32 26.2 | 1.999 | 2.691 | 17.9 | 19.5 |
| 406103 | 2006 VR ₄ | | 2 21.5 | 53°93 | 1°1/22.3 | 18 | 429298 | 2010 CB ₂₂₀ | | 2 21.5 | 318°82 | 11°7/9.5 | 15 |
| 1 22 | 10 41.75 | +5 46.7 | 1.376 | 2.231 | 16.0 | 21.1 | 1 22 | 10 51.43 | +48 36.1 | 2.185 | 2.984 | 12.9 | 21.0 |
| 2 1 | 10 35.24 | +6 17.7 | 1.342 | 2.265 | 11.3 | 20.9 | 2 1 | 10 42.20 | +49 37.5 | 2.147 | 2.979 | 12.0 | 21.0 |
| 2 11 | 10 26.54 | +7 7 3.8 | 1.331 | 2.299 | 6.2 | 20.7 | 2 11 | 10 30.30 | +50 15.2 | 2.131 | 2.975 | 11.7 | 20.9 |
| 2 21 | 10 16.80 | +7 58.4 | 1.346 | 2.334 | 1.3 | 20.5 | 2 21 | 10 17.04 | +50 21.4 | 2.139 | 2.970 | 12.2 | 20.9 |
| 3 2 | 10 7.36 | +8 53.6 | 1.388 | 2.368 | 4.7 | 20.8 | 3 2 | 10 4.05 | +49 52.8 | 2.170 | 2.966 | 13.4 | 21.0 |
| 3 12 | 9 59.47 | +9 42.0 | 1.457 | 2.403 | 9.4 | 21.1 | 3 12 | 9 52.88 | +48 50.9 | 2.223 | 2.961 | 14.9 | 21.1 |
| 3 22 | 9 53.95 | +10 18.9 | 1.550 | 2.437 | 13.4 | 21.5 | 3 22 | 9 44.55 | +47 21.5 | 2.294 | 2.957 | 16.4 | 21.2 |
| 4 1 | 9 51.22 | +10 41.8 | 1.663 | 2.471 | 16.7 | 21.8 | 4 1 | 9 39.51 | +45 31.5 | 2.381 | 2.953 | 17.8 | 21.4 |
| 232843 | 2004 TK ₇₆ | | 2 21.5 | 90°81 | 2°2/19.7 | 18 | 29600 | 1998 HP ₁₃₄ | | 2 21.5 | 0°09 | 5°4/16.2 | 18 |
| 1 22 | 10 40.52 | +15 26.8 | 1.906 | 2.769 | 11.8 | 20.6 | 1 22 | 10 38.67 | +26 0.3 | 2.157 | 3.024 | 10.5 | 18.2 |
| 2 1 | 10 34.20 | +16 2.1 | 1.849 | 2.779 | 8.2 | 20.4 | 2 1 | 10 32.91 | +27 0.1 | 2.100 | 3.024 | 7.8 | 18.1 |
| 2 11 | 10 26.00 | +16 40.6 | 1.818 | 2.790 | 4.4 | 20.2 | 2 11 | 10 25.36 | +27 54.8 | 2.069 | 3.024 | 5.7 | 17.9 |
| 2 21 | 10 16.78 | +17 16.7 | 1.815 | 2.800 | 2.2 | 20.1 | 2 21 | 10 16.79 | +28 37.9 | 2.067 | 3.024 | 5.7 | 17.9 |
| 3 2 | 10 7.58 | +17 44.8 | 1.841 | 2.810 | 5.3 | 20.3 | 3 2 | 10 8.18 | +29 3.9 | 2.092 | 3.024 | 7.7 | 18.1 |
| 3 12 | 9 59.44 | +18 1.1 | 1.896 | 2.820 | 9.0 | 20.5 | 3 12 | 10 0.51 | +29 10.2 | 2.144 | 3.024 | 10.4 | 18.2 |
| 3 22 | 9 53.15 | +18 3.9 | 1.974 | 2.830 | 12.4 | 20.8 | 3 22 | 9 54.56 | +28 57.1 | 2.219 | 3.024 | 13.0 | 18.4 |
| 4 1 | 9 49.22 | +17 53.2 | 2.074 | 2.840 | 15.2 | 21.0 | 4 1 | 9 50.83 | +28 26.6 | 2.313 | 3.025 | 15.2 | 18.6 |
| 20262 | 1998 FB ₁₄ | | 2 21.5 | 232°52 | 1°4/23.0 | 18 | 310900 | 2003 SE ₁₄ | | 2 21.5 | 82°20 | 0°0/21.5 | 18 |
| 1 22 | 10 36.52 | +2 55.2 | 2.324 | 3.152 | 11.3 | 18.8 | 1 22 | 10 41.04 | +8 3.1 | 1.532 | 2.388 | 14.6 | 20.7 |
| 2 1 | 10 31.33 | +3 42.6 | 2.231 | 3.140 | 8.3 | 18.6 | 2 1 | 10 34.80 | +8 46.3 | 1.482 | 2.408 | 10.2 | 20.5 |
| 2 11 | 10 24.53 | +4 44.6 | 2.165 | 3.127 | 4.8 | 18.4 | 2 11 | 10 26.41 | +9 41.9 | 1.456 | 2.427 | 5.4 | 20.3 |
| 2 21 | 10 16.72 | +5 57.3 | 2.128 | 3.114 | 1.6 | 18.1 | 2 21 | 10 16.85 | +10 43.4 | 1.458 | 2.447 | 0.3 | 19.9 |
| 3 2 | 10 8.67 | +7 15.3 | 2.122 | 3.101 | 3.4 | 18.2 | 3 2 | 10 7.37 | +11 42.7 | 1.487 | 2.466 | 4.8 | 20.3 |
| 3 12 | 10 1.23 | +8 32.1 | 2.145 | 3.087 | 7.1 | 18.4 | 3 12 | 9 59.19 | +12 33.0 | 1.544 | 2.485 | 9.4 | 20.6 |
| 3 22 | 9 55.14 | +9 42.3 | 2.196 | 3.073 | 10.5 | 18.6 | 3 22 | 9 53.21 | +13 9.9 | 1.625 | 2.503 | 13.4 | 20.9 |
| 4 1 | 9 50.94 | +10 41.8 | 2.271 | 3.058 | 13.4 | 18.8 | 4 1 | 9 49.91 | +13 31.5 | 1.726 | 2.522 | 16.7 | 21.2 |
| 371046 | 2005 UZ ₁₇₃ | | 2 21.5 | 221°12 | 5°1/26.1 | 17 | 96247 | 1994 PT ₃ | | 2 21.5 | 118°90 | 0°4/21.9 | 18 |
| 1 22 | 10 38.37 | -5 56.7 | 2.128 | 2.917 | 13.6 | 21.1 | 1 22 | 10 39.28 | +8 13.5 | 2.014 | 2.860 | 12.0 | 20.0 |
| 2 1 | 10 32.73 | -6 5.5 | 2.039 | 2.911 | 10.8 | 20.9 | 2 1 | 10 33.31 | +8 31.6 | 1.945 | 2.866 | 8.5 | 19.8 |
| 2 11 | 10 25.30 | -5 54.8 | 1.974 | 2.904 | 7.9 | 20.7 | 2 11 | 10 25.57 | +8 59.0 | 1.902 | 2.871 | 4.6 | 19.6 |
| 2 21 | 10 16.76 | -5 25.4 | 1.935 | 2.897 | 5.5 | 20.6 | 2 21 | 10 16.81 | +9 31.7 | 1.897 | 2.876 | 0.5 | 19.3 |
| 3 2 | 10 7.97 | -4 40.1 | 1.925 | 2.890 | 5.5 | 20.6 | 3 2 | 10 7.98 | +10 4.9 | 1.902 | 2.881 | 3.9 | 19.6 |
| 3 12 | 9 59.89 | -3 44.2 | 1.943 | 2.882 | 7.9 | 20.7 | 3 12 | 10 0.06 | +10 33.9 | 1.946 | 2.886 | 7.8 | 19.8 |
| 3 22 | 9 53.34 | -2 43.9 | 1.987 | 2.874 | 10.9 | 20.9 | 3 22 | 9 53.80 | +10 55.3 | 2.015 | 2.890 | 11.3 | 20.0 |
| 4 1 | 9 48.88 | -1 45.4 | 2.055 | 2.865 | 13.8 | 21.0 | 4 1 | 9 49.74 | +11 6.8 | 2.107 | 2.895 | 14.3 | 20.2 |
| 447306 | 2005 WR ₁₄₂ | | 2 21.5 | 84°58 | 4°1/18.7 | 18 | 138598 | 2000 QV ₁₆₄ | | 2 21.6 | 149°46 | 3°2/25.2 | 18 |
| 1 22 | 10 43.41 | +17 16.7 | 1.342 | 2.217 | 15.0 | 21.2 | 1 22 | 10 35.28 | -2 34.8 | 2.602 | 3.403 | 11.0 | 20.6 |
| 2 1 | 10 36.75 | +18 26.2 | 1.298 | 2.234 | 10.4 | 21.0 | 2 1 | 10 30.24 | -2 22.2 | 2.522 | 3.407 | 8.5 | 20.5 |
| 2 11 | 10 27.51 | +19 38.5 | 1.279 | 2.250 | 5.9 | 20.8 | 2 11 | 10 23.87 | -1 55.0 | 2.468 | 3.411 | 5.7 | 20.3 |
| 2 21 | 10 16.88 | +20 43.4 | 1.285 | 2.266 | 4.3 | 20.7 | 2 21 | 10 16.73 | -1 15.2 | 2.442 | 3.415 | 3.5 | 20.1 |
| 3 2 | 10 6.38 | +21 31.6 | 1.319 | 2.282 | 7.7 | 20.9 | 3 2 | 10 9.49 | -0 26.2 | 2.446 | 3.419 | 3.8 | 20.2 |
| 3 12 | 9 57.48 | +21 58.0 | 1.378 | 2.298 | 12.1 | 21.2 | 3 12 | 10 2.87 | +0 27.5 | 2.480 | 3.422 | 6.2 | 20.3 |
| 3 22 | 9 51.21 | +22 1.9 | 1.458 | 2.313 | 16.0 | 21.5 | 3 22 | 9 57.45 | +1 21.2 | 2.541 | 3.426 | 8.9 | 20.5 |
| 4 1 | 9 48.07 | +21 45.4 | 1.557 | 2.329 | 19.2 | 21.8 | 4 1 | 9 53.67 | +2 10.7 | 2.626 | 3.429 | 11.4 | 20.7 |
| 375421 | 2008 SM ₃₀₇ | | 2 21.5 | 217°71 | 8°4/11.6 | 18 | 6783 | Gulyaev | | 2 21.6 | 150°69 | 3°8/18.0 | 18 |
| 1 22 | 10 44.40 | +38 44.6 | 2.458 | 3.293 | 10.5 | 21.1 | 1 22 | 10 41.38 | +21 19.5 | 2.249 | 3.110 | 10.3 | 17.9 |
| 2 1 | 10 37.00 | +40 1.2 | 2.406 | 3.286 | 9.0 | 21.0 | 2 1 | 10 34.66 | +22 5.2 | 2.190 | 3.117 | 7.4 | 17.7 |
| 2 11 | 10 27.54 | +41 4.1 | 2.379 | 3.277 | 8.4 | 20.9 | 2 11 | 10 26.23 | +22 49.1 | 2.159 | 3.123 | 4.6 | 17.5 |
| 2 21 | 10 16.89 | +41 45.9 | 2.380 | 3.268 | 8.9 | 21.0 | 2 21 | 10 16.85 | +23 25.4 | 2.157 | 3.129 | 3.9 | 17.5 |
| 3 2 | 10 6.15 | +42 2.1 | 2.407 | 3.259 | 10.4 | 21.0 | 3 2 | 10 7.47 | +23 49.3 | 2.184 | 3.135 | 6.1 | 17.7 |
| 3 12 | 9 56.47 | +41 51.6 | 2.458 | 3.249 | 12.2 | 21.1 | 3 12 | 9 59.03 | +23 58.0 | 2.240 | 3.140 | 9.1 | 17.8 |
| 3 22 | 9 48.74 | +41 16.7 | 2.530 | 3.239 | 14.1 | 21.3 | 3 22 | 9 52.28 | +23 51.0 | 2.321 | 3.145 | 11.9 | 18.0 |
| 4 1 | 9 43.51 | +40 21.7 | 2.619 | 3.228 | 15.7 | 21.4 | 4 1 | 9 47.69 | +23 29.6 | 2.422 | 3.149 | 14.3 | 18.2 |
| 163431 | 2002 RR ₆₇ | | 2 21.5 | 164°12 | 1°2/22.6 | 17 | 492560 | 2014 OJ ₁₄₁ | | 2 21.6 | 265°84 | 1°2/20.7 | 17 |
| 1 22 | 10 38.93 | +5 59.0 | 2.444 | 3.276 | 10.6 | 20.3 | 1 22 | 10 41.80 | +11 16.2 | 1.522 | 2.385 | 14.3</ | |

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2 21.6

2 21.6

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 290505 | 2005 <i>UW</i> ₂₈ | | 2 21.6 267°75 | 3°9/24.3 | 18 | | 427198 | 2014 <i>VE</i> ₂₂ | | 2 21.6 133°98 | 0°9/20.7 | 18 | |
| 1 22 | 10 39.59 | - 0 26.3 | 1.434 | 2.269 | 16.6 | 21.2 | 1 22 | 10 39.40 | +10 44.6 | 1.986 | 2.839 | 11.8 | 21.5 |
| 2 1 | 10 34.28 | - 0 16.2 | 1.352 | 2.259 | 12.7 | 20.9 | 2 1 | 10 33.41 | +11 33.3 | 1.923 | 2.849 | 8.2 | 21.3 |
| 2 11 | 10 26.42 | + 0 17.6 | 1.292 | 2.248 | 8.2 | 20.6 | 2 11 | 10 25.64 | +12 30.2 | 1.887 | 2.858 | 4.2 | 21.0 |
| 2 21 | 10 16.87 | + 1 12.2 | 1.256 | 2.237 | 4.3 | 20.3 | 2 21 | 10 16.85 | +13 29.4 | 1.879 | 2.867 | 0.9 | 20.8 |
| 3 2 | 10 6.91 | + 2 21.6 | 1.247 | 2.226 | 5.4 | 20.4 | 3 2 | 10 8.02 | +14 24.7 | 1.901 | 2.876 | 4.4 | 21.1 |
| 3 12 | 9 57.97 | + 3 36.6 | 1.265 | 2.215 | 10.0 | 20.6 | 3 12 | 10 0.12 | +15 10.7 | 1.952 | 2.884 | 8.3 | 21.3 |
| 3 22 | 9 51.26 | + 4 48.0 | 1.306 | 2.203 | 14.7 | 20.8 | 3 22 | 9 53.94 | +15 44.1 | 2.028 | 2.891 | 11.8 | 21.6 |
| 4 1 | 9 47.54 | + 5 48.6 | 1.367 | 2.192 | 18.7 | 21.0 | 4 1 | 9 49.98 | +16 3.3 | 2.126 | 2.899 | 14.7 | 21.8 |
| 289897 | 2005 <i>MY</i> ₄₄ | | 2 21.6 101°99 | 6°2/27.0 | 18 | | 465919 | 2010 <i>VT</i> ₂₀₆ | | 2 21.6 101°78 | 0°7/22.1 | 18 | |
| 1 22 | 10 40.12 | - 8 22.8 | 1.936 | 2.715 | 15.1 | 20.7 | 1 22 | 10 40.52 | + 6 43.3 | 1.833 | 2.678 | 13.1 | 22.0 |
| 2 1 | 10 33.92 | - 8 41.7 | 1.871 | 2.732 | 12.2 | 20.6 | 2 1 | 10 34.23 | + 7 12.0 | 1.775 | 2.695 | 9.3 | 21.8 |
| 2 11 | 10 25.90 | - 8 38.0 | 1.829 | 2.749 | 9.1 | 20.4 | 2 11 | 10 26.06 | + 7 52.5 | 1.743 | 2.711 | 5.1 | 21.6 |
| 2 21 | 10 16.84 | - 8 12.3 | 1.812 | 2.765 | 6.7 | 20.3 | 2 21 | 10 16.88 | + 8 39.7 | 1.739 | 2.727 | 0.9 | 21.3 |
| 3 2 | 10 7.72 | - 7 27.9 | 1.823 | 2.781 | 6.5 | 20.3 | 3 2 | 10 7.71 | + 9 27.8 | 1.764 | 2.743 | 4.0 | 21.6 |
| 3 12 | 9 59.58 | - 6 30.8 | 1.862 | 2.797 | 8.4 | 20.5 | 3 12 | 9 59.61 | +10 11.0 | 1.818 | 2.759 | 8.2 | 21.9 |
| 3 22 | 9 53.19 | - 5 28.1 | 1.926 | 2.812 | 11.3 | 20.7 | 3 22 | 9 53.37 | +10 45.2 | 1.897 | 2.774 | 11.8 | 22.1 |
| 4 1 | 9 49.08 | - 4 26.5 | 2.014 | 2.827 | 14.0 | 20.9 | 4 1 | 9 49.49 | +11 7.9 | 1.998 | 2.789 | 14.9 | 22.4 |
| 378703 | 2008 <i>OS</i> ₁₉ | | 2 21.6 225°25 | 0°3/21.8 | 17 | | 213574 | 2002 <i>ND</i> ₁₉ | | 2 21.6 214°02 | 0°1/21.5 | 17 | |
| 1 22 | 10 37.23 | + 7 6.6 | 2.208 | 3.051 | 11.2 | 21.8 | 1 22 | 10 39.36 | + 7 56.4 | 2.051 | 2.896 | 11.9 | 21.3 |
| 2 1 | 10 31.87 | + 7 49.7 | 2.124 | 3.043 | 8.0 | 21.6 | 2 1 | 10 33.49 | + 8 45.1 | 1.968 | 2.889 | 8.4 | 21.1 |
| 2 11 | 10 24.85 | + 8 44.1 | 2.067 | 3.036 | 4.3 | 21.4 | 2 11 | 10 25.76 | + 9 45.5 | 1.912 | 2.881 | 4.5 | 20.8 |
| 2 21 | 10 16.79 | + 9 45.1 | 2.039 | 3.027 | 0.4 | 21.0 | 2 21 | 10 16.87 | +10 52.3 | 1.884 | 2.873 | 0.2 | 20.4 |
| 3 2 | 10 8.53 | +10 47.3 | 2.040 | 3.018 | 3.7 | 21.3 | 3 2 | 10 7.74 | +11 59.1 | 1.886 | 2.863 | 4.1 | 20.7 |
| 3 12 | 10 0.98 | +11 44.9 | 2.071 | 3.009 | 7.5 | 21.5 | 3 12 | 9 59.38 | +12 59.6 | 1.918 | 2.853 | 8.2 | 21.0 |
| 3 22 | 9 54.87 | +12 33.4 | 2.129 | 3.000 | 11.0 | 21.7 | 3 22 | 9 52.64 | +13 49.1 | 1.976 | 2.843 | 11.9 | 21.2 |
| 4 1 | 9 50.76 | +13 9.9 | 2.209 | 2.990 | 13.9 | 21.9 | 4 1 | 9 48.11 | +14 24.7 | 2.055 | 2.832 | 15.0 | 21.4 |
| 234916 | 2002 <i>TE</i> ₃₂₁ | | 2 21.6 165°60 | 0°1/21.5 | 17 | | 371734 | 2007 <i>EQ</i> ₁₃₉ | | 2 21.6 97°24 | 1°4/20.3 | 18 | |
| 1 22 | 10 37.59 | + 9 9.5 | 2.405 | 3.250 | 10.4 | 21.3 | 1 22 | 10 38.81 | +12 15.5 | 1.849 | 2.710 | 12.2 | 21.1 |
| 2 1 | 10 31.93 | + 9 37.9 | 2.332 | 3.253 | 7.3 | 21.1 | 2 1 | 10 33.11 | +13 3.3 | 1.788 | 2.717 | 8.5 | 20.9 |
| 2 11 | 10 24.79 | +10 14.0 | 2.286 | 3.256 | 3.8 | 20.9 | 2 11 | 10 25.52 | +13 58.5 | 1.752 | 2.725 | 4.4 | 20.7 |
| 2 21 | 10 16.79 | +10 53.8 | 2.269 | 3.258 | 0.2 | 20.6 | 2 21 | 10 16.85 | +14 54.8 | 1.745 | 2.732 | 1.5 | 20.5 |
| 3 2 | 10 8.70 | +11 32.9 | 2.283 | 3.260 | 3.5 | 20.9 | 3 2 | 10 8.13 | +15 45.5 | 1.766 | 2.739 | 4.9 | 20.7 |
| 3 12 | 10 1.33 | +12 7.1 | 2.326 | 3.262 | 7.0 | 21.1 | 3 12 | 10 0.40 | +16 25.2 | 1.816 | 2.746 | 8.9 | 21.0 |
| 3 22 | 9 55.34 | +12 33.4 | 2.396 | 3.263 | 10.1 | 21.3 | 3 22 | 9 54.49 | +16 51.0 | 1.890 | 2.753 | 12.5 | 21.2 |
| 4 1 | 9 51.19 | +12 49.9 | 2.489 | 3.264 | 12.7 | 21.5 | 4 1 | 9 50.93 | +17 1.7 | 1.985 | 2.760 | 15.5 | 21.4 |
| 168928 | 2000 <i>YG</i> ₇₁ | | 2 21.6 50°01 | 5°5/17.4 | 18 | | 148895 | 2001 <i>WE</i> ₃₈ | | 2 21.6 88°26 | 4°8/17.1 | 18 | |
| 1 22 | 10 40.34 | +20 13.1 | 1.384 | 2.265 | 14.2 | 19.5 | 1 22 | 10 39.32 | +20 45.4 | 1.771 | 2.644 | 12.1 | 19.6 |
| 2 1 | 10 34.71 | +21 39.9 | 1.335 | 2.271 | 10.1 | 19.3 | 2 1 | 10 33.58 | +22 10.2 | 1.722 | 2.654 | 8.6 | 19.4 |
| 2 11 | 10 26.53 | +23 7.4 | 1.311 | 2.278 | 6.4 | 19.1 | 2 11 | 10 25.80 | +23 34.4 | 1.699 | 2.664 | 5.5 | 19.2 |
| 2 21 | 10 16.88 | +24 24.1 | 1.312 | 2.285 | 5.8 | 19.0 | 2 21 | 10 16.87 | +24 49.2 | 1.704 | 2.674 | 5.1 | 19.2 |
| 3 2 | 10 7.20 | +25 20.2 | 1.340 | 2.293 | 8.9 | 19.2 | 3 2 | 10 7.91 | +25 46.7 | 1.737 | 2.684 | 7.7 | 19.4 |
| 3 12 | 9 58.97 | +25 50.5 | 1.392 | 2.300 | 12.9 | 19.5 | 3 12 | 10 0.09 | +26 22.6 | 1.796 | 2.694 | 11.1 | 19.6 |
| 3 22 | 9 53.21 | +25 54.5 | 1.466 | 2.308 | 16.6 | 19.7 | 3 22 | 9 54.26 | +26 36.0 | 1.877 | 2.704 | 14.2 | 19.8 |
| 4 1 | 9 50.52 | +25 34.8 | 1.556 | 2.316 | 19.7 | 20.0 | 4 1 | 9 50.95 | +26 28.6 | 1.978 | 2.713 | 16.8 | 20.0 |
| 321788 | 2010 <i>OW</i> ₁₀₅ | | 2 21.6 99°90 | 7°0/15.7 | 18 | | 15439 | 1998 <i>WV</i> ₁ | | 2 21.6 50°59 | 2°9/19.6 | 18 | |
| 1 22 | 10 46.45 | +29 54.5 | 1.958 | 2.815 | 11.8 | 20.3 | 1 22 | 10 40.92 | +14 7.7 | 1.238 | 2.117 | 15.7 | 17.8 |
| 2 1 | 10 38.29 | +31 3.4 | 1.929 | 2.841 | 9.1 | 20.2 | 2 1 | 10 35.23 | +15 8.5 | 1.189 | 2.127 | 10.9 | 17.5 |
| 2 11 | 10 28.11 | +32 1.2 | 1.925 | 2.867 | 7.2 | 20.1 | 2 11 | 10 26.84 | +16 17.4 | 1.162 | 2.136 | 5.8 | 17.2 |
| 2 21 | 10 16.96 | +32 40.3 | 1.950 | 2.892 | 7.3 | 20.2 | 2 21 | 10 16.92 | +17 24.4 | 1.161 | 2.146 | 3.0 | 17.1 |
| 3 2 | 10 6.08 | +32 55.9 | 2.003 | 2.916 | 9.1 | 20.3 | 3 2 | 10 7.02 | +18 19.3 | 1.186 | 2.157 | 7.1 | 17.4 |
| 3 12 | 9 56.64 | +32 47.2 | 2.082 | 2.940 | 11.6 | 20.5 | 3 12 | 9 58.67 | +18 55.3 | 1.235 | 2.167 | 12.0 | 17.7 |
| 3 22 | 9 49.42 | +32 17.1 | 2.183 | 2.963 | 14.0 | 20.8 | 3 22 | 9 52.97 | +19 9.6 | 1.306 | 2.178 | 16.4 | 18.0 |
| 4 1 | 9 44.87 | +31 29.6 | 2.303 | 2.986 | 16.0 | 21.0 | 4 1 | 9 50.47 | +19 3.1 | 1.394 | 2.189 | 19.9 | 18.2 |
| 319833 | 2006 <i>VU</i> ₁₃₄ | | 2 21.6 88°86 | 8°5/14.6 | 17 | | 3831 | Pettengill | | 2 21.6 226°77 | 0°1/21.5 | 18 | R |
| 1 22 | 10 46.18 | +32 35.3 | 1.767 | 2.625 | 12.8 | 20.3 | 1 22 | 10 41.43 | + 7 30.4 | 1.679 | 2.529 | 13.8 | 17.2 |
| 2 1 | 10 38.34 | +33 55.1 | 1.739 | 2.648 | 10.2 | 20.2 | 2 1 | 10 35.33 | + 8 22.6 | 1.595 | 2.518 | 9.9 | 17.0 |
| 2 11 | 10 28.21 | +35 0.5 | 1.737 | 2.670 | 8.6 | 20.1 | 2 11 | 10 26.90 | + 9 30.0 | 1.537 | 2.507 | 5.3 | 16.7 |
| 2 21 | 10 16.97 | +35 42.6 | 1.762 | 2.692 | 8.9 | 20.2 | 2 21 | 10 16.94 | +10 46.2 | 1.506 | 2.494 | 0.3 | 16.2 |
| 3 2 | 10 6.00 | +35 56.4 | 1.813 | 2.713 | 10.7 | 20.3 | 3 2 | 10 6.61 | +12 3.1 | 1.504 | 2.481 | 4.8 | 16.6 |
| 3 12 | 9 56.64 | +35 41.7 | 1.888 | 2.734 | 13.2 | 20.5 | 3 12 | 9 57.22 | +13 12.4 | 1.530 | 2.467 | 9.7 | 16.8 |
| 3 22 | 9 49.74 | +35 2.3 | 1.984 | 2.755 | 15.5 | 20.7 | 3 22 | 9 49.82 | +14 8.0 | 1.581 | 2.453 | 14.1 | 17.0 |
| 4 1 | 9 45.74 | +34 3.4 | 2.098 | 2.775 | 17.5 | 20.9 | 4 1 | 9 45.15 | +14 46.6 | 1.652 | 2.438 | 17.7 | 17.3 |
| 266206 | 2006 <i>WA</i> ₆₈ | | 2 21.6 139°87 | 1°2/20.3 | 18 | | 145645 | 4125 <i>P-L</i> | | 2 21.6 119°24 | 2°7/24.9 | 18 | |
| 1 22 | 10 40.09 | +11 57.0 | 2.235 | 3.086 | 10.8 | 21.6 | 1 22 | 10 35.01 | - 1 56.2 | 2.741 | 3.543 | 10.5 | 20.5 |
| 2 1 | 10 33.72 | +12 51.6 | 2.175 | 3.100 | 7.5 | 21.4 | 2 1 | 10 29.96 | - 1 28.3 | 2.670 | 3.557 | 8.0 | 20.3 |
| 2 11 | 10 25.73 | +13 52.4 | 2.142 | 3.114 | 3.9 | 21.2 | 2 11 | 10 23.70 | - 0 46.5 | 2.625 | 3.571 | 5.2 | 20.2 |
| 2 21 | 10 16.85 | +14 53.8 | 2.139 | 3.126 | 1.3 | 21.0 | 2 21 | 10 16.76 | + 0 6.5 | 2.609 | 3.585 | 3.0 | 20.1 |
| 3 2 | 10 7.95 | +15 50.0 | 2.167 | 3.138 | 4.3 | 21.2 | 3 2 | 10 9.78 | + 1 6.8 | 2.623 | 3.598 | 3.3 | 20.1 |
| 3 12 | 9 59.92 | +16 36.3 | 2.224 | 3.150 | 7.8 | 21.5 | 3 12 | 10 3.42 | + 2 9.7 | 2.668 | 3.611 | 5.8 | 20.3 |
| 3 22 | 9 53.46 | +17 9.9 | 2.308 | 3.160 | 11.0 | 21.7 | 3 22 | 9 58.22 | + 3 10.7 | 2.741 | 3.624 | 8.4 | 20.5 |
| 4 1 | 9 49.05 | +17 29.8 | 2.414 | 3.170 | 13.6 | 21.9 | 4 1 | 9 54.56 | + 4 5.9 | 2.839 | 3.637 | 10.7 | 20.6 |
| 106313 | 2000 <i>UE</i> ₉₄ | | 2 21.6 228°92 | 2°9/18.6 | 18 | | 41983 | 2000 <i>YL</i> ₂₆ | | 2 21.6 125°33 | 5°8/27.6 | 18 | |
| 1 22 | 10 37.97 | | | | | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 29908 | 1999 <i>JP</i> ₃ | | 2 21.6 299°35 | 7.9/27.4 | 18 | | 453817 | 2011 <i>SS</i> ₁₀₅ | | 2 21.6 57°12 | 0.2/21.7 | 18 | |
| 1 22 | 10 39.06 | -10 6.9 | 1.797 | 2.573 | 16.2 | 17.4 | 1 22 | 10 40.93 | +7 44.8 | 1.302 | 2.166 | 16.1 | 21.2 |
| 2 1 | 10 33.55 | -10 53.1 | 1.712 | 2.566 | 13.5 | 17.2 | 2 1 | 10 34.96 | +8 24.1 | 1.259 | 2.188 | 11.4 | 21.0 |
| 2 11 | 10 25.91 | -11 15.7 | 1.648 | 2.559 | 10.6 | 17.0 | 2 11 | 10 26.58 | +9 17.7 | 1.239 | 2.210 | 6.0 | 20.8 |
| 2 21 | 10 16.89 | -11 12.7 | 1.609 | 2.552 | 8.4 | 16.8 | 2 21 | 10 16.93 | +10 18.2 | 1.244 | 2.233 | 0.4 | 20.4 |
| 3 2 | 10 7.53 | -10 45.4 | 1.595 | 2.545 | 8.1 | 16.8 | 3 2 | 10 7.45 | +11 16.8 | 1.277 | 2.256 | 5.1 | 20.8 |
| 3 12 | 9 59.00 | -9 58.7 | 1.608 | 2.538 | 9.9 | 16.9 | 3 12 | 9 59.49 | +12 5.6 | 1.335 | 2.279 | 10.2 | 21.2 |
| 3 22 | 9 52.27 | -9 0.0 | 1.645 | 2.532 | 12.8 | 17.1 | 3 22 | 9 53.99 | +12 40.0 | 1.416 | 2.302 | 14.5 | 21.5 |
| 4 1 | 9 48.05 | -7 57.5 | 1.704 | 2.525 | 15.8 | 17.2 | 4 1 | 9 51.44 | +12 58.0 | 1.516 | 2.325 | 18.0 | 21.8 |
| 341624 | 2007 <i>UC</i> ₁₄₁ | | 2 21.6 36°00 | 3.4/25.0 | 17 | | 258014 | 2001 <i>FJ</i> ₈₈ | | 2 21.6 260°97 | 0.1/21.6 | 17 | |
| 1 22 | 10 34.76 | -2 7.1 | 2.051 | 2.867 | 13.0 | 20.7 | 1 22 | 10 39.17 | +7 49.8 | 1.795 | 2.646 | 13.0 | 21.3 |
| 2 1 | 10 30.15 | -1 46.1 | 1.978 | 2.872 | 10.0 | 20.5 | 2 1 | 10 33.66 | +8 32.0 | 1.706 | 2.629 | 9.3 | 21.1 |
| 2 11 | 10 23.94 | -1 6.8 | 1.930 | 2.878 | 6.6 | 20.3 | 2 11 | 10 26.00 | +9 27.8 | 1.642 | 2.612 | 5.0 | 20.8 |
| 2 21 | 10 16.78 | -0 12.1 | 1.908 | 2.884 | 3.8 | 20.2 | 2 21 | 10 16.92 | +10 31.7 | 1.606 | 2.595 | 0.3 | 20.4 |
| 3 2 | 10 9.52 | +0 53.1 | 1.915 | 2.891 | 4.2 | 20.2 | 3 2 | 10 7.47 | +11 36.9 | 1.599 | 2.577 | 4.5 | 20.7 |
| 3 12 | 10 3.04 | +2 2.5 | 1.950 | 2.897 | 7.2 | 20.4 | 3 12 | 9 58.83 | +12 36.0 | 1.620 | 2.559 | 9.2 | 20.9 |
| 3 22 | 9 58.06 | +3 9.7 | 2.012 | 2.904 | 10.5 | 20.6 | 3 22 | 9 52.00 | +13 23.5 | 1.665 | 2.540 | 13.3 | 21.1 |
| 4 1 | 9 55.07 | +4 9.5 | 2.096 | 2.911 | 13.4 | 20.8 | 4 1 | 9 47.68 | +13 56.2 | 1.732 | 2.521 | 16.9 | 21.3 |
| 506007 | 2015 <i>HB</i> ₂₂ | | 2 21.6 273°55 | 4.2/26.4 | 17 | | 239561 | 2008 <i>SK</i> ₁₉₆ | | 2 21.6 323°00 | 3.2/19.5 | 18 | |
| 1 22 | 10 33.91 | -6 22.4 | 2.388 | 3.176 | 12.3 | 21.5 | 1 22 | 10 40.84 | +15 23.7 | 1.261 | 2.141 | 15.4 | 20.6 |
| 2 1 | 10 29.47 | -5 57.1 | 2.295 | 3.167 | 9.8 | 21.3 | 2 1 | 10 35.40 | +16 14.2 | 1.195 | 2.133 | 10.8 | 20.3 |
| 2 11 | 10 23.57 | -5 12.2 | 2.227 | 3.159 | 7.0 | 21.2 | 2 11 | 10 27.09 | +17 12.1 | 1.152 | 2.126 | 5.9 | 20.0 |
| 2 21 | 10 16.76 | -4 9.5 | 2.186 | 3.151 | 4.7 | 21.0 | 2 21 | 10 16.98 | +18 8.0 | 1.134 | 2.119 | 3.4 | 19.8 |
| 3 2 | 10 9.76 | -2 52.9 | 2.173 | 3.142 | 4.6 | 21.0 | 3 2 | 10 6.60 | +18 52.3 | 1.142 | 2.112 | 7.5 | 20.1 |
| 3 12 | 10 3.36 | -1 28.3 | 2.190 | 3.134 | 6.8 | 21.1 | 3 12 | 9 57.61 | +19 17.6 | 1.174 | 2.106 | 12.6 | 20.3 |
| 3 22 | 9 58.22 | -0 2.4 | 2.235 | 3.126 | 9.7 | 21.3 | 3 22 | 9 51.26 | +19 21.4 | 1.227 | 2.101 | 17.2 | 20.6 |
| 4 1 | 9 54.84 | +1 18.9 | 2.304 | 3.117 | 12.4 | 21.4 | 4 1 | 9 48.28 | +19 4.3 | 1.298 | 2.095 | 21.0 | 20.8 |
| 313426 | 2002 <i>QO</i> ₇₂ | | 2 21.6 319°21 | 0.6/21.2 | 18 | | 150941 | 2001 <i>TM</i> ₁₀₀ | | 2 21.6 92°36 | 1.5/22.8 | 18 | |
| 1 22 | 10 42.22 | +11 18.9 | 1.535 | 2.397 | 14.2 | 20.4 | 1 22 | 10 40.26 | +4 22.2 | 1.887 | 2.723 | 13.1 | 20.9 |
| 2 1 | 10 35.91 | +11 29.4 | 1.464 | 2.393 | 10.1 | 20.2 | 2 1 | 10 33.97 | +4 47.6 | 1.833 | 2.746 | 9.5 | 20.7 |
| 2 11 | 10 27.17 | +11 48.3 | 1.417 | 2.389 | 5.3 | 19.9 | 2 11 | 10 25.91 | +5 26.3 | 1.803 | 2.767 | 5.4 | 20.5 |
| 2 21 | 10 16.96 | +12 10.3 | 1.397 | 2.386 | 0.6 | 19.5 | 2 21 | 10 16.90 | +6 13.8 | 1.802 | 2.789 | 1.7 | 20.3 |
| 3 2 | 10 6.57 | +12 29.6 | 1.405 | 2.383 | 5.1 | 19.9 | 3 2 | 10 7.95 | +7 4.6 | 1.831 | 2.810 | 3.8 | 20.5 |
| 3 12 | 9 57.37 | +12 41.2 | 1.440 | 2.380 | 10.0 | 20.1 | 3 12 | 10 0.06 | +7 52.8 | 1.887 | 2.831 | 7.8 | 20.8 |
| 3 22 | 9 50.41 | +12 41.9 | 1.498 | 2.377 | 14.3 | 20.4 | 3 22 | 9 53.96 | +8 33.7 | 1.970 | 2.851 | 11.3 | 21.0 |
| 4 1 | 9 46.34 | +12 30.6 | 1.576 | 2.374 | 17.9 | 20.6 | 4 1 | 9 50.13 | +9 4.2 | 2.076 | 2.871 | 14.2 | 21.3 |
| 53190 | 1999 <i>CT</i> ₄₉ | | 2 21.6 61°27 | 6.6/15.9 | 18 | | 379833 | 2011 <i>LT</i> ₂₂ | | 2 21.6 357°75 | 1.4/20.3 | 18 | |
| 1 22 | 10 39.96 | +23 55.4 | 1.540 | 2.418 | 13.2 | 18.3 | 1 22 | 10 36.98 | +12 23.1 | 1.910 | 2.773 | 11.8 | 20.3 |
| 2 1 | 10 34.23 | +25 37.9 | 1.503 | 2.434 | 9.6 | 18.1 | 2 1 | 10 31.86 | +13 8.9 | 1.842 | 2.772 | 8.2 | 20.1 |
| 2 11 | 10 26.19 | +27 15.5 | 1.491 | 2.450 | 7.0 | 18.0 | 2 11 | 10 24.90 | +14 2.1 | 1.799 | 2.772 | 4.3 | 19.9 |
| 2 21 | 10 16.90 | +28 37.3 | 1.505 | 2.466 | 7.0 | 18.1 | 2 21 | 10 16.85 | +14 56.7 | 1.784 | 2.771 | 1.5 | 19.7 |
| 3 2 | 10 7.67 | +29 34.7 | 1.547 | 2.482 | 9.6 | 18.3 | 3 2 | 10 8.69 | +15 46.5 | 1.798 | 2.771 | 4.8 | 19.9 |
| 3 12 | 9 59.84 | +30 4.0 | 1.612 | 2.498 | 12.9 | 18.5 | 3 12 | 10 1.42 | +16 26.0 | 1.840 | 2.771 | 8.8 | 20.1 |
| 3 22 | 9 54.31 | +30 6.1 | 1.699 | 2.515 | 15.9 | 18.7 | 3 22 | 9 55.85 | +16 52.0 | 1.906 | 2.772 | 12.3 | 20.4 |
| 4 1 | 9 51.60 | +29 44.6 | 1.804 | 2.531 | 18.5 | 18.9 | 4 1 | 9 52.52 | +17 3.1 | 1.994 | 2.772 | 15.3 | 20.6 |
| 286353 | 2001 <i>XH</i> ₁₂₉ | | 2 21.6 130°94 | 2.0/19.9 | 18 | | 385910 | 2006 <i>SX</i> ₄₀₇ | | 2 21.6 239°44 | 3.3/25.2 | 17 | |
| 1 22 | 10 42.65 | +13 12.2 | 1.694 | 2.554 | 13.2 | 21.2 | 1 22 | 10 34.89 | -2 32.2 | 2.507 | 3.310 | 11.3 | 21.3 |
| 2 1 | 10 35.91 | +14 10.7 | 1.638 | 2.567 | 9.1 | 21.0 | 2 1 | 10 30.08 | -2 19.1 | 2.419 | 3.305 | 8.7 | 21.1 |
| 2 11 | 10 27.03 | +15 16.1 | 1.608 | 2.580 | 4.8 | 20.8 | 2 11 | 10 23.87 | -1 50.6 | 2.357 | 3.301 | 5.9 | 20.9 |
| 2 21 | 10 16.95 | +16 20.7 | 1.606 | 2.592 | 2.1 | 20.6 | 2 21 | 10 16.80 | -1 8.7 | 2.323 | 3.296 | 3.6 | 20.8 |
| 3 2 | 10 6.87 | +17 16.9 | 1.634 | 2.604 | 5.6 | 20.9 | 3 2 | 10 9.58 | -0 16.9 | 2.318 | 3.291 | 3.9 | 20.8 |
| 3 12 | 9 57.99 | +17 58.8 | 1.689 | 2.615 | 9.8 | 21.2 | 3 12 | 10 2.96 | +0 40.0 | 2.342 | 3.286 | 6.4 | 20.9 |
| 3 22 | 9 51.22 | +18 23.9 | 1.768 | 2.625 | 13.6 | 21.4 | 3 22 | 9 57.55 | +1 37.1 | 2.394 | 3.281 | 9.3 | 21.1 |
| 4 1 | 9 47.10 | +18 32.0 | 1.868 | 2.634 | 16.6 | 21.6 | 4 1 | 9 53.85 | +2 29.8 | 2.470 | 3.276 | 11.9 | 21.3 |
| 436297 | 2010 <i>DX</i> ₅₂ | | 2 21.6 145°74 | 1.2/22.9 | 17 | | 171225 | 2005 <i>JR</i> ₁₃₈ | | 2 21.6 226°00 | 0.6/22.2 | 17 | |
| 1 22 | 10 34.28 | +3 5.6 | 2.450 | 3.280 | 10.7 | 21.3 | 1 22 | 10 36.34 | +6 38.7 | 2.374 | 3.214 | 10.6 | 21.2 |
| 2 1 | 10 29.63 | +3 58.1 | 2.373 | 3.283 | 7.8 | 21.1 | 2 1 | 10 31.14 | +7 6.3 | 2.293 | 3.210 | 7.6 | 21.0 |
| 2 11 | 10 23.61 | +5 3.7 | 2.323 | 3.285 | 4.5 | 20.9 | 2 11 | 10 24.44 | +7 43.9 | 2.239 | 3.206 | 4.2 | 20.8 |
| 2 21 | 10 16.77 | +6 18.4 | 2.301 | 3.288 | 1.4 | 20.7 | 2 21 | 10 16.84 | +8 27.7 | 2.214 | 3.202 | 0.8 | 20.5 |
| 3 2 | 10 9.82 | +7 36.6 | 2.311 | 3.290 | 3.1 | 20.8 | 3 2 | 10 9.09 | +9 13.4 | 2.218 | 3.197 | 3.3 | 20.7 |
| 3 12 | 10 3.51 | +8 52.6 | 2.350 | 3.292 | 6.5 | 21.0 | 3 12 | 10 2.02 | +9 56.3 | 2.253 | 3.193 | 6.9 | 20.9 |
| 3 22 | 9 58.45 | +10 1.4 | 2.417 | 3.295 | 9.6 | 21.2 | 3 22 | 9 56.28 | +10 32.5 | 2.313 | 3.188 | 10.1 | 21.1 |
| 4 1 | 9 55.09 | +10 59.4 | 2.507 | 3.297 | 12.2 | 21.4 | 4 1 | 9 52.37 | +10 59.5 | 2.397 | 3.183 | 12.8 | 21.3 |
| 91447 | 1999 <i>RH</i> ₁₉ | | 2 21.6 111°39 | 1.2/20.6 | 18 | | 166709 | 2002 <i>TM</i> ₁₉₈ | | 2 21.6 187°22 | 5.3/27.8 | 18 | |
| 1 22 | 10 42.19 | +13 35.8 | 2.098 | 2.951 | 11.3 | 19.4 | 1 22 | 10 35.38 | -10 2.0 | 2.506 | 3.267 | 12.5 | 20.5 |
| 2 1 | 10 35.23 | +13 52.4 | 2.038 | 2.964 | 7.9 | 19.2 | 2 1 | 10 30.43 | -9 50.9 | 2.418 | 3.267 | 10.2 | 20.3 |
| 2 11 | 10 26.54 | +14 12.9 | 2.005 | 2.977 | 4.1 | 19.0 | 2 11 | 10 24.06 | -9 19.5 | 2.354 | 3.266 | 7.8 | 20.2 |
| 2 21 | 10 16.92 | +14 33.0 | 2.002 | 2.989 | 1.2 | 18.8 | 2 21 | 10 16.82 | -8 28.8 | 2.316 | 3.265 | 5.8 | 20.1 |
| 3 2 | 10 7.34 | +14 48.3 | 2.029 | 3.002 | 4.4 | 19.0 | 3 2 | 10 9.43 | -7 22.1 | 2.307 | 3.264 | 5.4 | 20.0 |
| 3 12 | 9 58.77 | +14 55.5 | 2.084 | 3.014 | 8.0 | 19.3 | 3 12 | 10 2.66 | -6 4.5 | 2.327 | 3.262 | 7.0 | 20.1 |
| 3 22 | 9 51.94 | +14 53.1 | 2.166 | 3.025 | 11.3 | 19.5 | 3 22 | 9 57.14 | -4 42.2 | 2.374 | 3.260 | 9.4 | 20.3 |
| 4 1 | 9 47.33 | +14 40.6 | 2.270 | 3.037 | 14.0 | 19.7 | 4 1 | 9 53.35 | -3 21.5 | 2.447 | 3.258 | 11.9 | 20.4 |
| 239891 | 2000 <i>RW</i> ₁₇ | | 2 21.6 131°99 | 3.3/25.5 | 18 | | 231908 | 2000 <i>YP</i> ₄₇ | | 2 21.6 22°43 | 6.7/26.7 | 18 | |
| 1 22 | 10 34.75 | -3 37.1 | 2.659 | 3.454 | 11.0 | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|---------------|---------|------|---------------|------------------------|-----------------|---------------|-------------|---------|------|
| 500344 | 2012 SZ ₆₂ | | 2 21.6 118°00 | 1°5/23.3 17 | | | 182483 | 2001 SB ₁₄₁ | | 2 21.6 149°48 | 2°8/24.3 18 | | |
| 1 22 | 10 36.79 | + 3 30.6 | 2.576 | 3.401 | 10.4 | 22.0 | 1 22 | 10 37.65 | - 0 44.0 | 2.055 | 2.872 | 13.0 | 20.9 |
| 2 1 | 10 31.26 | + 3 49.7 | 2.508 | 3.415 | 7.6 | 21.8 | 2 1 | 10 32.21 | - 0 9.5 | 1.980 | 2.878 | 9.8 | 20.7 |
| 2 11 | 10 24.42 | + 4 19.3 | 2.467 | 3.428 | 4.5 | 21.6 | 2 11 | 10 25.07 | + 0 42.8 | 1.931 | 2.884 | 6.2 | 20.5 |
| 2 21 | 10 16.84 | + 4 56.6 | 2.456 | 3.440 | 1.7 | 21.5 | 2 21 | 10 16.92 | + 1 49.3 | 1.909 | 2.890 | 3.1 | 20.3 |
| 3 2 | 10 9.24 | + 5 37.8 | 2.474 | 3.453 | 3.1 | 21.6 | 3 2 | 10 8.66 | + 3 4.5 | 1.917 | 2.895 | 3.9 | 20.4 |
| 3 12 | 10 2.32 | + 6 18.6 | 2.523 | 3.465 | 6.1 | 21.8 | 3 12 | 10 1.22 | + 4 21.3 | 1.955 | 2.900 | 7.4 | 20.6 |
| 3 22 | 9 56.67 | + 6 55.6 | 2.599 | 3.477 | 9.0 | 22.0 | 3 22 | 9 55.34 | + 5 33.5 | 2.019 | 2.905 | 10.8 | 20.8 |
| 4 1 | 9 52.70 | + 7 25.8 | 2.699 | 3.489 | 11.5 | 22.2 | 4 1 | 9 51.54 | + 6 36.1 | 2.106 | 2.909 | 13.8 | 21.0 |
| 435384 | 2007 XF ₄₄ | | 2 21.6 306°57 | 4°3/17.0 15 | | | 480209 | 2015 GG ₆ | | 2 21.6 286°30 | 5°7/16.1 17 | | |
| 1 22 | 10 36.59 | +21 31.4 | 2.175 | 3.045 | 10.3 | 21.4 | 1 22 | 10 42.91 | +28 20.2 | 2.322 | 3.179 | 10.2 | 21.3 |
| 2 1 | 10 31.52 | +22 41.8 | 2.109 | 3.039 | 7.4 | 21.2 | 2 1 | 10 36.04 | +29 4.3 | 2.237 | 3.153 | 7.8 | 21.1 |
| 2 11 | 10 24.71 | +23 52.0 | 2.069 | 3.033 | 4.8 | 21.0 | 2 11 | 10 27.17 | +29 42.0 | 2.178 | 3.126 | 6.0 | 20.9 |
| 2 21 | 10 16.87 | +24 55.0 | 2.058 | 3.027 | 4.5 | 21.0 | 2 21 | 10 17.04 | +30 7.0 | 2.148 | 3.099 | 6.0 | 20.9 |
| 3 2 | 10 8.88 | +25 44.5 | 2.076 | 3.022 | 6.8 | 21.1 | 3 2 | 10 6.67 | +30 13.9 | 2.147 | 3.072 | 7.9 | 21.0 |
| 3 12 | 10 1.71 | +26 16.5 | 2.121 | 3.016 | 9.8 | 21.3 | 3 12 | 9 57.12 | +30 0.4 | 2.173 | 3.045 | 10.6 | 21.1 |
| 3 22 | 9 56.10 | +26 29.7 | 2.190 | 3.011 | 12.6 | 21.4 | 3 22 | 9 49.29 | +29 27.0 | 2.223 | 3.017 | 13.3 | 21.2 |
| 4 1 | 9 52.61 | +26 24.7 | 2.278 | 3.005 | 15.1 | 21.6 | 4 1 | 9 43.81 | +28 36.2 | 2.292 | 2.989 | 15.7 | 21.3 |
| 384598 | 2010 OY ₆₃ | | 2 21.6 296°63 | 6°4/14.7 18 | | | 68195 | 2001 BT ₆₄ | | 2 21.6 109°60 | 0°7/20.9 18 | | |
| 1 22 | 10 38.45 | +28 17.1 | 2.137 | 3.004 | 10.6 | 20.3 | 1 22 | 10 41.20 | +12 8.2 | 2.053 | 2.906 | 11.6 | 19.2 |
| 2 1 | 10 32.92 | +29 35.3 | 2.077 | 2.997 | 8.1 | 20.1 | 2 1 | 10 34.65 | +12 21.0 | 1.988 | 2.913 | 8.1 | 19.0 |
| 2 11 | 10 25.48 | +30 47.4 | 2.044 | 2.990 | 6.5 | 20.0 | 2 11 | 10 26.32 | +12 39.2 | 1.948 | 2.920 | 4.2 | 18.8 |
| 2 21 | 10 16.91 | +31 45.8 | 2.038 | 2.983 | 6.8 | 20.0 | 2 21 | 10 17.00 | +12 58.5 | 1.938 | 2.926 | 0.7 | 18.5 |
| 3 2 | 10 8.20 | +32 24.2 | 2.060 | 2.976 | 8.7 | 20.1 | 3 2 | 10 7.65 | +13 14.8 | 1.958 | 2.933 | 4.2 | 18.8 |
| 3 12 | 10 0.42 | +32 39.7 | 2.107 | 2.969 | 11.3 | 20.3 | 3 12 | 9 59.26 | +13 24.3 | 2.006 | 2.940 | 8.0 | 19.0 |
| 3 22 | 9 54.39 | +32 32.7 | 2.177 | 2.963 | 13.8 | 20.4 | 3 22 | 9 52.59 | +13 25.0 | 2.080 | 2.946 | 11.4 | 19.2 |
| 4 1 | 9 50.66 | +32 5.3 | 2.265 | 2.956 | 16.0 | 20.6 | 4 1 | 9 48.14 | +13 16.0 | 2.176 | 2.952 | 14.3 | 19.4 |
| 54793 | 2001 MD ₁₀ | | 2 21.6 117°23 | 3°5/24.8 18 | | | 345668 | 2006 UH ₂₀ | | 2 21.6 276°26 | 2°0/23.6 17 | | |
| 1 22 | 10 41.36 | - 1 38.2 | 2.167 | 2.971 | 12.9 | 19.7 | 1 22 | 10 35.73 | + 2 33.0 | 2.339 | 3.167 | 11.2 | 20.8 |
| 2 1 | 10 34.61 | - 1 38.1 | 2.104 | 2.991 | 9.8 | 19.5 | 2 1 | 10 30.78 | + 2 49.4 | 2.253 | 3.159 | 8.3 | 20.6 |
| 2 11 | 10 26.23 | - 1 22.2 | 2.066 | 3.012 | 6.5 | 19.4 | 2 11 | 10 24.30 | + 3 18.6 | 2.192 | 3.151 | 5.1 | 20.4 |
| 2 21 | 10 16.96 | - 0 52.6 | 2.057 | 3.031 | 3.8 | 19.2 | 2 21 | 10 16.89 | + 3 57.9 | 2.159 | 3.142 | 2.2 | 20.2 |
| 3 2 | 10 7.70 | - 0 13.2 | 2.077 | 3.050 | 4.3 | 19.3 | 3 2 | 10 9.30 | + 4 43.3 | 2.156 | 3.134 | 3.4 | 20.3 |
| 3 12 | 9 59.35 | + 0 31.0 | 2.127 | 3.068 | 7.2 | 19.5 | 3 12 | 10 2.35 | + 5 29.9 | 2.181 | 3.126 | 6.8 | 20.5 |
| 3 22 | 9 52.62 | + 1 14.9 | 2.204 | 3.086 | 10.2 | 19.7 | 3 22 | 9 56.72 | + 6 13.3 | 2.234 | 3.118 | 10.0 | 20.7 |
| 4 1 | 9 47.97 | + 1 54.1 | 2.305 | 3.103 | 12.9 | 19.9 | 4 1 | 9 52.92 | + 6 49.8 | 2.310 | 3.110 | 12.8 | 20.8 |
| 170178 | 2003 MR ₂ | | 2 21.6 232°56 | 0°6/22.0 17 | | | 77281 | 2001 FO ₆₃ | | 2 21.6 200°68 | 1°8/20.0 18 | | |
| 1 22 | 10 41.80 | + 7 2.5 | 2.058 | 2.897 | 12.1 | 21.5 | 1 22 | 10 40.77 | +13 21.0 | 1.915 | 2.773 | 12.0 | 19.7 |
| 2 1 | 10 35.30 | + 7 30.4 | 1.965 | 2.881 | 8.7 | 21.3 | 2 1 | 10 34.58 | +14 9.8 | 1.842 | 2.771 | 8.4 | 19.4 |
| 2 11 | 10 26.81 | + 8 9.9 | 1.897 | 2.865 | 4.8 | 21.0 | 2 11 | 10 26.40 | +15 5.3 | 1.795 | 2.767 | 4.4 | 19.2 |
| 2 21 | 10 17.00 | + 8 56.8 | 1.859 | 2.847 | 0.7 | 20.6 | 2 21 | 10 17.02 | +16 1.2 | 1.777 | 2.764 | 1.8 | 19.0 |
| 3 2 | 10 6.86 | + 9 45.8 | 1.851 | 2.829 | 4.0 | 20.9 | 3 2 | 10 7.45 | +16 50.9 | 1.789 | 2.759 | 5.2 | 19.2 |
| 3 12 | 9 57.44 | +10 31.2 | 1.872 | 2.810 | 8.2 | 21.1 | 3 12 | 9 58.82 | +17 28.9 | 1.828 | 2.755 | 9.2 | 19.4 |
| 3 22 | 9 49.67 | +11 8.4 | 1.920 | 2.790 | 12.1 | 21.3 | 3 22 | 9 52.00 | +17 52.3 | 1.893 | 2.749 | 12.8 | 19.6 |
| 4 1 | 9 44.20 | +11 34.6 | 1.990 | 2.769 | 15.3 | 21.5 | 4 1 | 9 47.58 | +18 0.3 | 1.978 | 2.744 | 15.8 | 19.8 |
| 92942 | 2000 RC ₃₅ | | 2 21.6 306°84 | 4°9/18.3 18 | | | 273749 | 2007 EX ₁₃₄ | | 2 21.6 146°09 | 0°8/22.3 18 | | |
| 1 22 | 10 44.25 | +22 55.1 | 1.694 | 2.562 | 12.8 | 18.6 | 1 22 | 10 38.33 | + 6 3.6 | 1.992 | 2.834 | 12.3 | 21.5 |
| 2 1 | 10 37.30 | +23 23.9 | 1.623 | 2.551 | 9.3 | 18.4 | 2 1 | 10 32.74 | + 6 35.4 | 1.921 | 2.838 | 8.8 | 21.3 |
| 2 11 | 10 27.91 | +23 49.0 | 1.576 | 2.540 | 6.0 | 18.2 | 2 11 | 10 25.37 | + 7 19.4 | 1.875 | 2.842 | 4.9 | 21.0 |
| 2 21 | 10 17.06 | +24 2.9 | 1.557 | 2.530 | 5.1 | 18.1 | 2 21 | 10 16.96 | + 8 11.0 | 1.858 | 2.846 | 1.0 | 20.8 |
| 3 2 | 10 6.05 | +23 59.9 | 1.565 | 2.519 | 7.8 | 18.2 | 3 2 | 10 8.44 | + 9 4.7 | 1.870 | 2.849 | 3.8 | 21.0 |
| 3 12 | 9 56.27 | +23 37.3 | 1.600 | 2.509 | 11.5 | 18.4 | 3 12 | 10 0.79 | + 9 54.6 | 1.911 | 2.853 | 7.8 | 21.2 |
| 3 22 | 9 48.75 | +22 56.0 | 1.659 | 2.499 | 15.1 | 18.6 | 3 22 | 9 54.77 | +10 36.3 | 1.978 | 2.856 | 11.4 | 21.5 |
| 4 1 | 9 44.14 | +21 58.7 | 1.736 | 2.490 | 18.2 | 18.8 | 4 1 | 9 50.93 | +11 6.8 | 2.067 | 2.859 | 14.4 | 21.7 |
| 437505 | 2013 YJ ₇₈ | | 2 21.6 24°26 | 2°3/19.1 17 R | | | 292492 | 2006 SZ ₄₀₆ | | 2 21.6 179°80 | 5°4/14.0 18 | | |
| 1 22 | 10 35.33 | +14 42.7 | 2.183 | 3.047 | 10.5 | 20.8 | 1 22 | 10 38.57 | +31 2.6 | 3.053 | 3.905 | 8.2 | 21.6 |
| 2 1 | 10 30.55 | +15 50.0 | 2.117 | 3.049 | 7.2 | 20.6 | 2 1 | 10 32.55 | +32 11.6 | 3.000 | 3.906 | 6.5 | 21.4 |
| 2 11 | 10 24.18 | +17 2.5 | 2.078 | 3.050 | 3.9 | 20.4 | 2 11 | 10 25.15 | +33 13.8 | 2.975 | 3.907 | 5.4 | 21.4 |
| 2 21 | 10 16.86 | +18 13.9 | 2.069 | 3.052 | 2.4 | 20.3 | 2 21 | 10 16.95 | +34 4.0 | 2.979 | 3.907 | 5.7 | 21.4 |
| 3 2 | 10 9.45 | +19 17.8 | 2.088 | 3.054 | 5.1 | 20.4 | 3 2 | 10 8.68 | +34 38.1 | 3.012 | 3.907 | 7.1 | 21.5 |
| 3 12 | 10 2.80 | +20 9.1 | 2.136 | 3.055 | 8.5 | 20.7 | 3 12 | 10 1.08 | +34 54.3 | 3.072 | 3.907 | 8.9 | 21.6 |
| 3 22 | 9 57.63 | +20 45.0 | 2.209 | 3.057 | 11.6 | 20.9 | 3 22 | 9 54.78 | +34 53.0 | 3.156 | 3.905 | 10.7 | 21.7 |
| 4 1 | 9 54.42 | +21 4.6 | 2.304 | 3.060 | 14.1 | 21.0 | 4 1 | 9 50.22 | +34 35.7 | 3.259 | 3.904 | 12.3 | 21.9 |
| 227505 | 2005 XW ₁₀₅ | | 2 21.6 351°20 | 0°5/21.9 17 | | | 501895 | 2014 WX ₄₂₈ | | 2 21.6 283°05 | 5°3/16.3 17 | | |
| 1 22 | 10 38.80 | + 7 51.4 | 1.889 | 2.739 | 12.5 | 20.4 | 1 22 | 10 39.15 | +25 12.7 | 2.144 | 3.011 | 10.5 | 20.6 |
| 2 1 | 10 33.15 | + 8 10.7 | 1.816 | 2.738 | 8.9 | 20.2 | 2 1 | 10 33.36 | +26 14.3 | 2.080 | 3.004 | 7.8 | 20.4 |
| 2 11 | 10 25.61 | + 8 40.6 | 1.769 | 2.738 | 4.9 | 19.9 | 2 11 | 10 25.72 | +27 12.0 | 2.042 | 2.998 | 5.7 | 20.3 |
| 2 21 | 10 16.95 | + 9 16.9 | 1.749 | 2.738 | 0.6 | 19.6 | 2 21 | 10 16.98 | +27 58.8 | 2.033 | 2.992 | 5.6 | 20.3 |
| 3 2 | 10 8.15 | + 9 54.2 | 1.759 | 2.738 | 4.0 | 19.9 | 3 2 | 10 8.13 | +28 29.1 | 2.052 | 2.986 | 7.7 | 20.4 |
| 3 12 | 10 0.26 | +10 27.3 | 1.796 | 2.738 | 8.2 | 20.1 | 3 12 | 10 0.19 | +28 39.6 | 2.097 | 2.980 | 10.5 | 20.5 |
| 3 22 | 9 54.11 | +10 52.3 | 1.859 | 2.737 | 11.9 | 20.4 | 3 22 | 9 53.96 | +28 30.4 | 2.166 | 2.974 | 13.2 | 20.7 |
| 4 1 | 9 50.26 | +11 6.7 | 1.943 | 2.737 | 15.1 | 20.6 | 4 1 | 9 49.99 | +28 3.2 | 2.254 | 2.968 | 15.5 | 20.9 |
| 210726 | 2000 SN ₃₃₇ | | 2 21.6 5°17 | 3°8/25.8 18 | | | 224520 | 2005 WO ₇₂ | | 2 21.6 259°75 | 5°9/26.4 18 | | |
| 1 22 | 10 33.60 | - 4 19.0 | 2.135 | 2.941 | 13.0 | 19.8 | 1 22 | 10 38 | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 82010 | 2000 <i>RN</i> ₆₈ | | 2 21.6 168°34 | 0°3/21.2 | 18 | | 182060 | 2000 <i>DL</i> ₁₁₆ | | 2 21.6 291°00 | 1°4/20.5 | 18 | |
| 1 22 | 10 35.38 | + 9 36.0 | 2.889 | 3.732 | 8.9 | 20.2 | 1 22 | 10 38.86 | +11 30.7 | 1.644 | 2.508 | 13.3 | 19.5 |
| 2 1 | 10 30.26 | +10 18.6 | 2.815 | 3.736 | 6.2 | 20.0 | 2 1 | 10 33.49 | +12 22.4 | 1.574 | 2.505 | 9.3 | 19.3 |
| 2 11 | 10 23.92 | +11 7.7 | 2.769 | 3.739 | 3.2 | 19.8 | 2 11 | 10 25.93 | +13 24.1 | 1.529 | 2.502 | 4.8 | 19.0 |
| 2 21 | 10 16.89 | +11 59.6 | 2.753 | 3.741 | 0.3 | 19.5 | 2 21 | 10 17.04 | +14 28.8 | 1.511 | 2.499 | 1.4 | 18.8 |
| 3 2 | 10 9.77 | +12 50.3 | 2.768 | 3.744 | 3.1 | 19.8 | 3 2 | 10 7.96 | +15 28.6 | 1.522 | 2.496 | 5.4 | 19.0 |
| 3 12 | 10 3.22 | +13 35.7 | 2.814 | 3.746 | 6.1 | 20.0 | 3 12 | 9 59.91 | +16 16.7 | 1.559 | 2.493 | 9.9 | 19.3 |
| 3 22 | 9 57.78 | +14 13.1 | 2.887 | 3.747 | 8.8 | 20.2 | 3 22 | 9 53.86 | +16 49.0 | 1.620 | 2.490 | 13.9 | 19.5 |
| 4 1 | 9 53.85 | +14 40.7 | 2.984 | 3.748 | 11.0 | 20.3 | 4 1 | 9 50.42 | +17 3.9 | 1.701 | 2.487 | 17.2 | 19.7 |
| 6952 | Niccolò | | 2 21.6 265°60 | 2°7/24.4 | 18 R | | 13673 | Urysohn | | 2 21.6 164°41 | 0°5/22.0 | 18 | |
| 1 22 | 10 36.53 | - 0 23.5 | 2.408 | 3.220 | 11.4 | 18.2 | 1 22 | 10 37.45 | + 7 3.3 | 2.280 | 3.122 | 11.0 | 19.7 |
| 2 1 | 10 31.42 | - 0 3.8 | 2.304 | 3.198 | 8.7 | 17.9 | 2 1 | 10 31.97 | + 7 36.3 | 2.207 | 3.124 | 7.8 | 19.5 |
| 2 11 | 10 24.70 | + 0 31.3 | 2.224 | 3.176 | 5.6 | 17.7 | 2 11 | 10 24.93 | + 8 19.2 | 2.159 | 3.127 | 4.3 | 19.3 |
| 2 21 | 10 16.94 | + 1 19.5 | 2.174 | 3.153 | 3.0 | 17.5 | 2 21 | 10 16.99 | + 9 8.0 | 2.141 | 3.129 | 0.6 | 19.0 |
| 3 2 | 10 8.88 | + 2 17.1 | 2.153 | 3.129 | 3.7 | 17.5 | 3 2 | 10 8.93 | + 9 57.8 | 2.153 | 3.131 | 3.5 | 19.3 |
| 3 12 | 10 1.34 | + 3 18.8 | 2.161 | 3.106 | 6.9 | 17.6 | 3 12 | 10 1.62 | +10 43.6 | 2.194 | 3.133 | 7.1 | 19.5 |
| 3 22 | 9 55.05 | + 4 19.2 | 2.197 | 3.081 | 10.1 | 17.8 | 3 22 | 9 55.74 | +11 21.7 | 2.262 | 3.135 | 10.4 | 19.7 |
| 4 1 | 9 50.61 | + 5 13.8 | 2.257 | 3.057 | 13.1 | 18.0 | 4 1 | 9 51.77 | +11 49.5 | 2.352 | 3.136 | 13.1 | 19.9 |
| 228669 | 2002 <i>JT</i> ₁₀ | | 2 21.6 348°10 | 5°9/15.9 | 18 | | 197285 | 2003 <i>WV</i> ₁₀₉ | | 2 21.6 164°09 | 0°3/21.3 | 18 | |
| 1 22 | 10 35.06 | +20 41.3 | 1.512 | 2.397 | 13.0 | 19.1 | 1 22 | 10 38.14 | + 9 51.7 | 2.530 | 3.374 | 9.9 | 20.9 |
| 2 1 | 10 31.05 | +22 38.7 | 1.453 | 2.391 | 9.3 | 18.8 | 2 1 | 10 32.32 | +10 23.1 | 2.458 | 3.378 | 7.0 | 20.7 |
| 2 11 | 10 24.72 | +24 38.9 | 1.420 | 2.385 | 6.4 | 18.6 | 2 11 | 10 25.07 | +11 1.3 | 2.413 | 3.383 | 3.6 | 20.5 |
| 2 21 | 10 16.94 | +26 29.7 | 1.413 | 2.381 | 6.4 | 18.6 | 2 21 | 10 17.00 | +11 42.4 | 2.398 | 3.387 | 0.3 | 20.2 |
| 3 2 | 10 8.94 | +27 59.8 | 1.433 | 2.377 | 9.4 | 18.8 | 3 2 | 10 8.85 | +12 22.1 | 2.414 | 3.390 | 3.4 | 20.5 |
| 3 12 | 10 2.04 | +29 2.0 | 1.477 | 2.373 | 13.2 | 19.0 | 3 12 | 10 1.40 | +12 56.5 | 2.459 | 3.393 | 6.8 | 20.7 |
| 3 22 | 9 57.27 | +29 34.2 | 1.543 | 2.371 | 16.7 | 19.2 | 3 22 | 9 55.28 | +13 22.6 | 2.532 | 3.395 | 9.7 | 20.9 |
| 4 1 | 9 55.28 | +29 38.3 | 1.625 | 2.369 | 19.6 | 19.4 | 4 1 | 9 50.93 | +13 38.9 | 2.628 | 3.397 | 12.3 | 21.1 |
| 125020 | 2001 <i>TC</i> ₁₈₁ | | 2 21.6 36°05 | 4°2/19.0 | 18 | | 258421 | 2001 <i>XN</i> ₁₈₃ | | 2 21.6 84°47 | 1°8/23.2 | 18 | |
| 1 22 | 10 44.43 | +18 47.3 | 1.329 | 2.205 | 15.0 | 19.7 | 1 22 | 10 40.25 | + 3 12.9 | 1.884 | 2.717 | 13.3 | 20.9 |
| 2 1 | 10 37.73 | +19 28.1 | 1.273 | 2.207 | 10.6 | 19.4 | 2 1 | 10 33.97 | + 3 39.5 | 1.833 | 2.743 | 9.7 | 20.7 |
| 2 11 | 10 28.24 | +20 10.0 | 1.239 | 2.210 | 6.2 | 19.2 | 2 11 | 10 25.96 | + 4 20.3 | 1.807 | 2.769 | 5.6 | 20.5 |
| 2 21 | 10 17.14 | +20 43.9 | 1.232 | 2.213 | 4.4 | 19.1 | 2 21 | 10 17.04 | + 5 11.0 | 1.809 | 2.795 | 2.0 | 20.4 |
| 3 2 | 10 6.00 | +21 2.0 | 1.251 | 2.216 | 7.8 | 19.3 | 3 2 | 10 8.21 | + 6 5.7 | 1.840 | 2.820 | 3.8 | 20.5 |
| 3 12 | 9 56.42 | +21 0.0 | 1.295 | 2.219 | 12.4 | 19.5 | 3 12 | 10 0.45 | + 6 58.4 | 1.901 | 2.845 | 7.6 | 20.8 |
| 3 22 | 9 49.55 | +20 37.9 | 1.361 | 2.222 | 16.6 | 19.8 | 3 22 | 9 54.47 | + 7 44.2 | 1.987 | 2.869 | 11.1 | 21.1 |
| 4 1 | 9 45.99 | +19 58.1 | 1.444 | 2.225 | 20.0 | 20.0 | 4 1 | 9 50.74 | + 8 19.8 | 2.095 | 2.893 | 14.0 | 21.3 |
| 190079 | 2004 <i>TL</i> ₂₁ | | 2 21.6 142°13 | 2°0/19.4 | 18 | | 21689 | 1999 <i>RL</i> ₃₈ | | 2 21.6 209°16 | 0°1/21.5 | 18 | |
| 1 22 | 10 37.64 | +13 42.3 | 2.275 | 3.132 | 10.4 | 20.6 | 1 22 | 10 40.02 | + 8 5.0 | 1.996 | 2.841 | 12.1 | 19.6 |
| 2 1 | 10 32.09 | +14 56.7 | 2.213 | 3.142 | 7.2 | 20.4 | 2 1 | 10 34.04 | + 8 51.6 | 1.915 | 2.836 | 8.6 | 19.4 |
| 2 11 | 10 24.98 | +16 16.6 | 2.179 | 3.150 | 3.8 | 20.2 | 2 11 | 10 26.15 | + 9 49.8 | 1.860 | 2.829 | 4.6 | 19.1 |
| 2 21 | 10 16.95 | +17 35.7 | 2.175 | 3.159 | 2.1 | 20.1 | 2 21 | 10 17.07 | +10 54.3 | 1.833 | 2.822 | 0.2 | 18.7 |
| 3 2 | 10 8.86 | +18 47.5 | 2.201 | 3.167 | 4.8 | 20.3 | 3 2 | 10 7.75 | +11 58.7 | 1.837 | 2.814 | 4.2 | 19.0 |
| 3 12 | 10 1.55 | +19 46.8 | 2.257 | 3.174 | 8.2 | 20.5 | 3 12 | 9 59.25 | +12 56.5 | 1.870 | 2.806 | 8.3 | 19.3 |
| 3 22 | 9 55.72 | +20 30.8 | 2.338 | 3.182 | 11.2 | 20.8 | 3 22 | 9 52.42 | +13 43.1 | 1.928 | 2.797 | 12.1 | 19.5 |
| 4 1 | 9 51.84 | +20 58.6 | 2.441 | 3.188 | 13.7 | 20.9 | 4 1 | 9 47.86 | +14 15.9 | 2.009 | 2.787 | 15.2 | 19.7 |
| 16772 | 1996 <i>UC</i> ₄ | | 2 21.6 128°96 | 1°9/19.9 | 18 | | 28228 | 1999 <i>AU</i> ₂ | | 2 21.6 83°06 | 3°7/18.7 | 18 R | |
| 1 22 | 10 39.96 | +13 59.7 | 1.944 | 2.805 | 11.7 | 19.0 | 1 22 | 10 42.13 | +18 42.8 | 1.695 | 2.564 | 12.7 | 18.2 |
| 2 1 | 10 33.91 | +14 43.3 | 1.882 | 2.811 | 8.2 | 18.8 | 2 1 | 10 35.57 | +19 33.8 | 1.646 | 2.578 | 8.9 | 18.0 |
| 2 11 | 10 25.99 | +15 32.1 | 1.846 | 2.818 | 4.3 | 18.6 | 2 11 | 10 26.91 | +20 25.3 | 1.622 | 2.592 | 5.2 | 17.8 |
| 2 21 | 10 17.02 | +16 20.2 | 1.838 | 2.824 | 1.9 | 18.4 | 2 21 | 10 17.11 | +21 9.7 | 1.627 | 2.606 | 3.9 | 17.8 |
| 3 2 | 10 7.99 | +17 1.4 | 1.860 | 2.830 | 5.1 | 18.6 | 3 2 | 10 7.38 | +21 40.6 | 1.659 | 2.619 | 6.7 | 18.0 |
| 3 12 | 9 59.94 | +17 31.2 | 1.909 | 2.835 | 8.9 | 18.9 | 3 12 | 9 58.92 | +21 54.1 | 1.718 | 2.633 | 10.4 | 18.2 |
| 3 22 | 9 53.67 | +17 47.2 | 1.984 | 2.841 | 12.3 | 19.1 | 3 22 | 9 52.60 | +21 49.8 | 1.801 | 2.647 | 13.8 | 18.5 |
| 4 1 | 9 49.70 | +17 48.9 | 2.079 | 2.846 | 15.1 | 19.3 | 4 1 | 9 48.90 | +21 29.1 | 1.903 | 2.660 | 16.7 | 18.7 |
| 431629 | 2007 <i>WN</i> ₂₅ | | 2 21.6 56°43 | 2°7/19.0 | 18 | | 107498 | 2001 <i>DQ</i> ₄₄ | | 2 21.6 352°00 | 0°1/21.6 | 18 | |
| 1 22 | 10 37.15 | +16 25.2 | 2.049 | 2.916 | 11.0 | 21.0 | 1 22 | 10 37.45 | + 8 19.8 | 1.274 | 2.145 | 15.9 | 19.3 |
| 2 1 | 10 31.84 | +17 20.4 | 1.995 | 2.927 | 7.6 | 20.8 | 2 1 | 10 32.92 | + 8 55.3 | 1.208 | 2.141 | 11.3 | 19.1 |
| 2 11 | 10 24.86 | +18 18.4 | 1.968 | 2.939 | 4.2 | 20.6 | 2 11 | 10 25.80 | + 9 46.7 | 1.165 | 2.137 | 6.0 | 18.8 |
| 2 21 | 10 16.96 | +19 13.1 | 1.969 | 2.951 | 2.8 | 20.5 | 2 21 | 10 17.06 | +10 47.0 | 1.146 | 2.134 | 0.3 | 18.3 |
| 3 2 | 10 9.05 | +19 58.4 | 1.999 | 2.963 | 5.4 | 20.7 | 3 2 | 10 8.09 | +11 47.4 | 1.152 | 2.132 | 5.4 | 18.7 |
| 3 12 | 10 2.07 | +20 30.2 | 2.057 | 2.975 | 8.8 | 20.9 | 3 12 | 10 0.38 | +12 38.8 | 1.184 | 2.131 | 10.9 | 19.0 |
| 3 22 | 9 56.72 | +20 46.7 | 2.139 | 2.987 | 11.9 | 21.1 | 3 22 | 9 55.08 | +13 15.3 | 1.237 | 2.130 | 15.6 | 19.3 |
| 4 1 | 9 53.48 | +20 47.8 | 2.243 | 3.000 | 14.4 | 21.4 | 4 1 | 9 52.85 | +13 33.8 | 1.310 | 2.131 | 19.6 | 19.5 |
| 433792 | 2015 <i>BA</i> ₈₈ | | 2 21.6 223°20 | 0°5/22.1 | 17 | | 51363 | 2000 <i>SO</i> ₃₁₉ | | 2 21.6 101°78 | 0°2/21.4 | 18 | |
| 1 22 | 10 37.45 | + 7 4.6 | 2.119 | 2.963 | 11.6 | 21.3 | 1 22 | 10 42.14 | +10 12.9 | 2.087 | 2.932 | 11.7 | 19.0 |
| 2 1 | 10 32.08 | + 7 32.3 | 2.042 | 2.961 | 8.3 | 21.1 | 2 1 | 10 35.21 | +10 28.8 | 2.031 | 2.952 | 8.2 | 18.9 |
| 2 11 | 10 25.04 | + 8 10.6 | 1.991 | 2.959 | 4.5 | 20.8 | 2 11 | 10 26.60 | +10 51.4 | 2.002 | 2.972 | 4.3 | 18.7 |
| 2 21 | 10 16.98 | + 8 55.5 | 1.968 | 2.957 | 0.7 | 20.5 | 2 21 | 10 17.10 | +11 16.7 | 2.003 | 2.992 | 0.3 | 18.4 |
| 3 2 | 10 8.77 | + 9 41.9 | 1.975 | 2.954 | 3.7 | 20.8 | 3 2 | 10 7.68 | +11 40.2 | 2.034 | 3.010 | 3.9 | 18.7 |
| 3 12 | 10 1.35 | +10 24.5 | 2.011 | 2.952 | 7.5 | 21.0 | 3 12 | 9 59.27 | +11 58.1 | 2.093 | 3.029 | 7.6 | 19.0 |
| 3 22 | 9 55.43 | +10 59.5 | 2.073 | 2.949 | 11.0 | 21.2 | 3 22 | 9 52.59 | +12 8.0 | 2.180 | 3.047 | 10.9 | 19.2 |
| 4 1 | 9 51.57 | +11 24.0 | 2.157 | 2.947 | 14.0 | 21.4 | 4 1 | 9 48.08 | +12 8.6 | 2.288 | 3.065 | 13.6 | 19.4 |
| 72587 | 2001 <i>FP</i> ₂ | | 2 21.6 122°03 | 1°3/20.3 | 18 | | 469192 | 2016 <i>GB</i> ₁₃₅ | | 2 21.6 312°58 | 3°6/25.2 | 16 | |
| 1 22 | 10 38.54 | +12 43.3 | | | | | | | | | | | |

EPHEMERIDES

2 21.6

2 21.6

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|--------|----------|------|---------------|-------------------------------|-----------------|----------|--------|----------|------|
| 432142 | 2009 <i>BW</i> ₈₇ | | 2 21.6 | 16°71 | 0°9/20.9 | 17 | 159040 | 2004 <i>TB</i> ₉₄ | | 2 21.6 | 176°60 | 0°9/20.8 | 17 |
| 1 22 | 10 36.68 | +11 8.1 | 1.840 | 2.702 | 12.2 | 20.7 | 1 22 | 10 39.03 | +11 19.2 | 2.118 | 2.971 | 11.2 | 21.3 |
| 2 1 | 10 31.70 | +11 42.7 | 1.776 | 2.705 | 8.5 | 20.5 | 2 1 | 10 33.20 | +11 55.6 | 2.047 | 2.972 | 7.9 | 21.1 |
| 2 11 | 10 24.89 | +12 25.4 | 1.737 | 2.709 | 4.4 | 20.3 | 2 11 | 10 25.65 | +12 39.2 | 2.002 | 2.973 | 4.1 | 20.8 |
| 2 21 | 10 17.01 | +13 10.8 | 1.726 | 2.714 | 0.9 | 20.0 | 2 21 | 10 17.08 | +13 24.9 | 1.986 | 2.974 | 0.9 | 20.6 |
| 3 2 | 10 9.06 | +13 53.0 | 1.743 | 2.719 | 4.5 | 20.3 | 3 2 | 10 8.40 | +14 7.5 | 1.999 | 2.974 | 4.2 | 20.8 |
| 3 12 | 10 2.06 | +14 26.6 | 1.787 | 2.725 | 8.6 | 20.5 | 3 12 | 10 0.55 | +14 42.1 | 2.042 | 2.974 | 8.0 | 21.1 |
| 3 22 | 9 56.79 | +14 48.5 | 1.857 | 2.730 | 12.2 | 20.8 | 3 22 | 9 54.29 | +15 5.8 | 2.110 | 2.974 | 11.4 | 21.3 |
| 4 1 | 9 53.78 | +14 57.0 | 1.947 | 2.737 | 15.2 | 21.0 | 4 1 | 9 50.15 | +15 17.2 | 2.200 | 2.973 | 14.2 | 21.5 |
| 148538 | 2001 <i>QM</i> ₉₇ | | 2 21.6 | 129°37 | 0°4/21.9 | 18 | 213929 | 2003 <i>UM</i> ₂₇₅ | | 2 21.6 | 52°29 | 5°2/17.8 | 18 |
| 1 22 | 10 41.01 | + 7 41.4 | 2.248 | 3.085 | 11.3 | 20.5 | 1 22 | 10 41.28 | +20 22.8 | 1.418 | 2.297 | 14.1 | 20.1 |
| 2 1 | 10 34.38 | + 8 7.5 | 2.186 | 3.102 | 8.0 | 20.3 | 2 1 | 10 35.37 | +21 36.3 | 1.371 | 2.306 | 10.0 | 19.8 |
| 2 11 | 10 26.16 | + 8 42.4 | 2.151 | 3.118 | 4.3 | 20.1 | 2 11 | 10 26.97 | +22 49.5 | 1.347 | 2.315 | 6.3 | 19.7 |
| 2 21 | 10 17.09 | + 9 22.0 | 2.145 | 3.134 | 0.5 | 19.8 | 2 21 | 10 17.16 | +23 52.1 | 1.349 | 2.324 | 5.5 | 19.6 |
| 3 2 | 10 8.01 | +10 1.7 | 2.171 | 3.149 | 3.5 | 20.1 | 3 2 | 10 7.37 | +24 35.5 | 1.378 | 2.333 | 8.5 | 19.8 |
| 3 12 | 9 59.82 | +10 37.1 | 2.226 | 3.163 | 7.1 | 20.4 | 3 12 | 9 59.02 | +24 54.9 | 1.432 | 2.342 | 12.5 | 20.1 |
| 3 22 | 9 53.19 | +11 4.8 | 2.308 | 3.176 | 10.4 | 20.6 | 3 22 | 9 53.13 | +24 50.4 | 1.507 | 2.352 | 16.1 | 20.3 |
| 4 1 | 9 48.59 | +11 23.0 | 2.413 | 3.189 | 13.0 | 20.8 | 4 1 | 9 50.24 | +24 24.5 | 1.600 | 2.362 | 19.1 | 20.6 |
| 107185 | 2001 <i>BN</i> ₂₆ | | 2 21.6 | 5°81 | 0°1/21.6 | 18 | 433081 | 2012 <i>TP</i> ₇₃ | | 2 21.6 | 199°93 | 1°1/22.6 | 17 |
| 1 22 | 10 37.27 | + 8 36.5 | 1.162 | 2.039 | 16.7 | 19.1 | 1 22 | 10 37.75 | + 5 52.7 | 2.316 | 3.152 | 11.0 | 21.3 |
| 2 1 | 10 32.90 | + 9 6.1 | 1.103 | 2.038 | 11.9 | 18.8 | 2 1 | 10 32.20 | + 6 6.2 | 2.237 | 3.151 | 8.0 | 21.1 |
| 2 11 | 10 25.81 | + 9 51.7 | 1.066 | 2.039 | 6.3 | 18.5 | 2 11 | 10 25.09 | + 6 29.7 | 2.185 | 3.150 | 4.5 | 20.9 |
| 2 21 | 10 17.07 | +10 46.0 | 1.053 | 2.041 | 0.4 | 18.0 | 2 21 | 10 17.06 | + 7 0.1 | 2.161 | 3.148 | 1.3 | 20.6 |
| 3 2 | 10 8.18 | +11 39.8 | 1.064 | 2.044 | 5.6 | 18.4 | 3 2 | 10 8.90 | + 7 33.4 | 2.168 | 3.147 | 3.4 | 20.8 |
| 3 12 | 10 0.70 | +12 24.2 | 1.099 | 2.049 | 11.2 | 18.8 | 3 12 | 10 1.46 | + 8 5.4 | 2.203 | 3.145 | 6.9 | 21.0 |
| 3 22 | 9 55.80 | +12 53.4 | 1.156 | 2.054 | 16.1 | 19.0 | 3 22 | 9 55.41 | + 8 32.4 | 2.266 | 3.144 | 10.1 | 21.2 |
| 4 1 | 9 54.11 | +13 4.7 | 1.231 | 2.060 | 20.2 | 19.3 | 4 1 | 9 51.27 | + 8 51.7 | 2.351 | 3.142 | 12.9 | 21.4 |
| 13422 | 1999 <i>VM</i> ₁₉ | | 2 21.6 | 150°75 | 0°4/21.3 | 18 | 81252 | 2000 <i>FG</i> ₃₅ | | 2 21.6 | 127°27 | 7°0/15.8 | 18 |
| 1 22 | 10 40.59 | + 9 0.2 | 2.018 | 2.865 | 12.0 | 19.6 | 1 22 | 10 46.59 | +30 18.5 | 1.970 | 2.826 | 11.8 | 18.6 |
| 2 1 | 10 34.30 | + 9 48.4 | 1.952 | 2.874 | 8.4 | 19.4 | 2 1 | 10 38.59 | +31 17.7 | 1.927 | 2.838 | 9.2 | 18.5 |
| 2 11 | 10 26.21 | +10 46.2 | 1.913 | 2.883 | 4.4 | 19.2 | 2 11 | 10 28.47 | +32 6.2 | 1.909 | 2.850 | 7.3 | 18.4 |
| 2 21 | 10 17.09 | +11 48.2 | 1.903 | 2.891 | 0.4 | 18.9 | 2 21 | 10 17.25 | +32 36.5 | 1.920 | 2.862 | 7.3 | 18.4 |
| 3 2 | 10 7.90 | +12 48.0 | 1.922 | 2.899 | 4.2 | 19.2 | 3 2 | 10 6.17 | +32 43.6 | 1.958 | 2.873 | 9.2 | 18.6 |
| 3 12 | 9 59.63 | +13 40.0 | 1.971 | 2.905 | 8.1 | 19.5 | 3 12 | 9 56.45 | +32 26.6 | 2.022 | 2.884 | 11.8 | 18.7 |
| 3 22 | 9 53.06 | +14 20.2 | 2.046 | 2.912 | 11.6 | 19.7 | 3 22 | 9 48.95 | +31 48.0 | 2.110 | 2.894 | 14.3 | 18.9 |
| 4 1 | 9 48.72 | +14 46.8 | 2.143 | 2.917 | 14.5 | 19.9 | 4 1 | 9 44.15 | +30 51.9 | 2.216 | 2.904 | 16.4 | 19.1 |
| 191812 | 2004 <i>TV</i> ₂₈₀ | | 2 21.6 | 176°83 | 0°2/21.4 | 17 | 396610 | 2001 <i>SF</i> ₂₃ | | 2 21.6 | 170°33 | 1°6/23.0 | 18 |
| 1 22 | 10 38.36 | + 9 15.8 | 2.140 | 2.988 | 11.3 | 21.3 | 1 22 | 10 40.79 | + 2 57.9 | 1.796 | 2.629 | 13.8 | 22.4 |
| 2 1 | 10 32.71 | + 9 51.2 | 2.066 | 2.989 | 8.0 | 21.1 | 2 1 | 10 34.68 | + 3 40.6 | 1.723 | 2.634 | 10.1 | 22.1 |
| 2 11 | 10 25.38 | +10 35.5 | 2.020 | 2.990 | 4.2 | 20.9 | 2 11 | 10 26.53 | + 4 40.6 | 1.674 | 2.637 | 5.9 | 21.9 |
| 2 21 | 10 17.06 | +11 23.9 | 2.002 | 2.990 | 0.3 | 20.6 | 2 21 | 10 17.15 | + 5 52.7 | 1.654 | 2.640 | 1.9 | 21.6 |
| 3 2 | 10 8.61 | +12 11.3 | 2.014 | 2.991 | 3.9 | 20.9 | 3 2 | 10 7.60 | + 7 10.1 | 1.662 | 2.642 | 4.1 | 21.8 |
| 3 12 | 10 0.96 | +12 52.5 | 2.055 | 2.991 | 7.7 | 21.1 | 3 12 | 9 59.01 | + 8 24.8 | 1.700 | 2.643 | 8.4 | 22.0 |
| 3 22 | 9 54.86 | +13 24.0 | 2.121 | 2.990 | 11.1 | 21.3 | 3 22 | 9 52.28 | + 9 30.5 | 1.763 | 2.644 | 12.4 | 22.3 |
| 4 1 | 9 50.82 | +13 43.8 | 2.210 | 2.990 | 14.0 | 21.5 | 4 1 | 9 48.01 | +10 22.8 | 1.849 | 2.644 | 15.7 | 22.5 |
| 511719 | 2015 <i>CG</i> ₅₈ | | 2 21.6 | 274°37 | 3°7/17.3 | 17 | 451668 | 2013 <i>AW</i> ₇₀ | | 2 21.6 | 23°29 | 1°5/20.6 | 18 |
| 1 22 | 10 35.73 | +19 40.2 | 2.328 | 3.196 | 9.8 | 20.6 | 1 22 | 10 37.65 | +10 3.1 | 1.115 | 1.996 | 16.9 | 20.4 |
| 2 1 | 10 30.87 | +20 58.9 | 2.262 | 3.192 | 6.9 | 20.4 | 2 1 | 10 33.21 | +11 8.6 | 1.063 | 2.002 | 11.8 | 20.2 |
| 2 11 | 10 24.41 | +22 19.0 | 2.223 | 3.189 | 4.3 | 20.2 | 2 11 | 10 25.99 | +12 30.0 | 1.033 | 2.008 | 6.1 | 19.9 |
| 2 21 | 10 17.00 | +23 33.9 | 2.213 | 3.185 | 3.9 | 20.2 | 2 21 | 10 17.12 | +13 56.7 | 1.027 | 2.015 | 1.5 | 19.6 |
| 3 2 | 10 9.45 | +24 37.2 | 2.233 | 3.181 | 6.2 | 20.3 | 3 2 | 10 8.16 | +15 16.5 | 1.046 | 2.023 | 6.5 | 19.9 |
| 3 12 | 10 2.62 | +25 24.5 | 2.280 | 3.178 | 9.1 | 20.5 | 3 12 | 10 0.73 | +16 19.4 | 1.089 | 2.032 | 12.1 | 20.3 |
| 3 22 | 9 57.21 | +25 53.9 | 2.352 | 3.174 | 11.8 | 20.7 | 3 22 | 9 55.97 | +16 59.8 | 1.153 | 2.041 | 16.9 | 20.6 |
| 4 1 | 9 53.73 | +26 5.4 | 2.445 | 3.170 | 14.2 | 20.9 | 4 1 | 9 54.49 | +17 16.4 | 1.234 | 2.052 | 20.8 | 20.8 |
| 13153 | 1995 <i>QC</i> ₃ | | 2 21.6 | 199°84 | 0°2/21.4 | 17 | 413157 | 2002 <i>GE</i> ₅₉ | | 2 21.6 | 276°01 | 2°9/19.4 | 17 |
| 1 22 | 10 41.76 | + 9 31.2 | 2.455 | 3.292 | 10.4 | 20.6 | 1 22 | 10 41.98 | +15 43.4 | 1.630 | 2.497 | 13.2 | 21.5 |
| 2 1 | 10 34.98 | +10 2.6 | 2.370 | 3.287 | 7.4 | 20.4 | 2 1 | 10 35.98 | +16 33.0 | 1.543 | 2.475 | 9.4 | 21.2 |
| 2 11 | 10 26.56 | +10 41.5 | 2.312 | 3.281 | 3.9 | 20.2 | 2 11 | 10 27.45 | +17 29.2 | 1.481 | 2.453 | 5.2 | 20.9 |
| 2 21 | 10 17.13 | +11 23.9 | 2.286 | 3.274 | 0.3 | 19.8 | 2 21 | 10 17.21 | +18 24.3 | 1.446 | 2.430 | 3.0 | 20.7 |
| 3 2 | 10 7.53 | +12 5.3 | 2.290 | 3.266 | 3.6 | 20.1 | 3 2 | 10 6.51 | +19 10.1 | 1.440 | 2.407 | 6.6 | 20.9 |
| 3 12 | 9 58.62 | +12 41.2 | 2.326 | 3.257 | 7.2 | 20.3 | 3 12 | 9 56.76 | +19 40.1 | 1.460 | 2.384 | 11.2 | 21.1 |
| 3 22 | 9 51.13 | +13 8.7 | 2.388 | 3.247 | 10.4 | 20.5 | 3 22 | 9 49.12 | +19 51.2 | 1.503 | 2.361 | 15.5 | 21.3 |
| 4 1 | 9 45.60 | +13 25.9 | 2.475 | 3.236 | 13.1 | 20.7 | 4 1 | 9 44.40 | +19 43.2 | 1.565 | 2.337 | 19.1 | 21.5 |
| 329686 | 2003 <i>UB</i> ₁₉₇ | | 2 21.6 | 206°51 | 4°6/26.8 | 17 | 95049 | 2002 <i>AQ</i> ₄₁ | | 2 21.6 | 304°09 | 1°5/22.8 | 18 |
| 1 22 | 10 36.07 | - 7 34.8 | 2.511 | 3.286 | 12.1 | 21.2 | 1 22 | 10 38.72 | + 5 10.5 | 1.788 | 2.632 | 13.4 | 19.6 |
| 2 1 | 10 30.98 | - 7 19.6 | 2.420 | 3.281 | 9.7 | 21.0 | 2 1 | 10 33.29 | + 5 21.5 | 1.709 | 2.626 | 9.8 | 19.4 |
| 2 11 | 10 24.44 | - 6 45.4 | 2.352 | 3.276 | 7.1 | 20.9 | 2 11 | 10 25.83 | + 5 46.1 | 1.654 | 2.619 | 5.6 | 19.1 |
| 2 21 | 10 17.01 | - 5 53.7 | 2.312 | 3.271 | 5.0 | 20.7 | 2 21 | 10 17.12 | + 6 20.7 | 1.627 | 2.613 | 1.8 | 18.9 |
| 3 2 | 10 9.40 | - 4 47.6 | 2.301 | 3.265 | 4.8 | 20.7 | 3 2 | 10 8.18 | + 7 0.2 | 1.627 | 2.607 | 4.1 | 19.0 |
| 3 12 | 10 2.37 | - 3 32.6 | 2.320 | 3.259 | 6.8 | 20.8 | 3 12 | 10 0.14 | + 7 38.7 | 1.656 | 2.601 | 8.4 | 19.3 |
| 3 22 | 9 56.59 | - 2 14.6 | 2.366 | 3.252 | 9.4 | 21.0 | 3 22 | 9 53.90 | + 8 11.2 | 1.709 | 2.596 | 12.4 | 19.5 |
| 4 1 | 9 52.55 | - 0 59.3 | 2.437 | 3.245 | 12.0 | 21.1 | 4 1 | 9 50.07 | + 8 34.2 | 1.784 | 2.590 | 15.8 | 19.7 |
| 421034 | 2013 <i>PW</i> ₆₅ | | 2 21.6 | 301°17 | 1°1/22.3 | 17 | 397858 | 2008 <i>TD</i> ₁₁₅ | | 2 21.6 | 127°54 | 1°4/22.6 | 18 |
| 1 | | | | | | | | | | | | | |

EPHEMERIDES

2 21.6

2 21.6

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|-----------|---------|------|
| 380346 | 2002 QH ₁₁₇ | | 2 21.6 200°58 | 2°3/23.9 | 17 | | 173468 | 2000 QF ₂₁₀ | | 2 21.6 136°85 | 0°2/21.4 | 18 | |
| 1 22 | 10 37.63 | + 1 34.3 | 2.374 | 3.194 | 11.4 | 21.6 | 1 22 | 10 37.17 | + 9 54.8 | 2.733 | 3.575 | 9.3 | 20.9 |
| 2 1 | 10 32.11 | + 1 44.2 | 2.291 | 3.191 | 8.5 | 21.4 | 2 1 | 10 31.56 | +10 21.5 | 2.665 | 3.585 | 6.5 | 20.7 |
| 2 11 | 10 25.05 | + 2 7.0 | 2.233 | 3.189 | 5.3 | 21.2 | 2 11 | 10 24.68 | +10 54.0 | 2.624 | 3.594 | 3.4 | 20.5 |
| 2 21 | 10 17.07 | + 2 40.4 | 2.204 | 3.186 | 2.6 | 21.0 | 2 21 | 10 17.09 | +11 29.1 | 2.614 | 3.603 | 0.2 | 20.2 |
| 3 2 | 10 8.94 | + 3 20.5 | 2.205 | 3.183 | 3.5 | 21.1 | 3 2 | 10 9.45 | +12 3.0 | 2.635 | 3.611 | 3.2 | 20.5 |
| 3 12 | 10 1.47 | + 4 2.9 | 2.236 | 3.179 | 6.7 | 21.3 | 3 12 | 10 2.47 | +12 32.2 | 2.686 | 3.619 | 6.2 | 20.7 |
| 3 22 | 9 55.36 | + 4 43.1 | 2.293 | 3.175 | 9.8 | 21.5 | 3 22 | 9 56.71 | +12 54.2 | 2.764 | 3.627 | 9.0 | 20.9 |
| 4 1 | 9 51.09 | + 5 17.6 | 2.374 | 3.171 | 12.6 | 21.6 | 4 1 | 9 52.57 | +13 7.6 | 2.865 | 3.635 | 11.3 | 21.1 |
| 105319 | 2000 QL ₇₅ | | 2 21.6 156°09 | 0°1/21.7 | 18 | | 482801 | 2013 RO ₇₃ | | 2 21.6 205°50 | 14°7/27.8 | 18 | |
| 1 22 | 10 41.41 | + 7 24.3 | 2.038 | 2.878 | 12.1 | 20.9 | 1 22 | 10 49.87 | -15 31.3 | 1.226 | 1.987 | 23.1 | 20.9 |
| 2 1 | 10 34.88 | + 8 11.1 | 1.970 | 2.888 | 8.6 | 20.7 | 2 1 | 10 42.30 | -17 48.5 | 1.155 | 1.985 | 20.2 | 20.7 |
| 2 11 | 10 26.54 | + 9 8.9 | 1.929 | 2.897 | 4.6 | 20.4 | 2 11 | 10 31.17 | -19 33.9 | 1.102 | 1.983 | 17.3 | 20.5 |
| 2 21 | 10 17.16 | +10 12.4 | 1.916 | 2.905 | 0.3 | 20.1 | 2 21 | 10 17.50 | -20 37.8 | 1.069 | 1.980 | 15.2 | 20.4 |
| 3 2 | 10 7.69 | +11 15.5 | 1.935 | 2.912 | 3.9 | 20.4 | 3 2 | 10 3.06 | -20 54.7 | 1.059 | 1.977 | 14.8 | 20.3 |
| 3 12 | 9 59.14 | +12 12.0 | 1.983 | 2.919 | 7.9 | 20.7 | 3 12 | 9 49.94 | -20 28.6 | 1.071 | 1.974 | 16.4 | 20.4 |
| 3 22 | 9 52.29 | +12 57.8 | 2.057 | 2.924 | 11.5 | 20.9 | 3 22 | 9 39.84 | -19 30.4 | 1.103 | 1.970 | 19.1 | 20.6 |
| 4 1 | 9 47.67 | +13 30.5 | 2.153 | 2.929 | 14.4 | 21.1 | 4 1 | 9 33.81 | -18 14.8 | 1.152 | 1.966 | 22.2 | 20.7 |
| 27544 | 2000 JR ₁₄ | | 2 21.6 111°30 | 0°8/20.8 | 18 | | 462623 | 2009 QS ₁₆ | | 2 21.6 128°34 | 3°0/18.9 | 18 | |
| 1 22 | 10 37.38 | +11 10.4 | 2.396 | 3.247 | 10.2 | 18.8 | 1 22 | 10 43.79 | +19 26.0 | 2.323 | 3.177 | 10.3 | 21.8 |
| 2 1 | 10 31.83 | +11 51.6 | 2.335 | 3.260 | 7.1 | 18.6 | 2 1 | 10 36.31 | +19 59.9 | 2.270 | 3.194 | 7.2 | 21.6 |
| 2 11 | 10 24.84 | +12 38.9 | 2.301 | 3.273 | 3.6 | 18.4 | 2 11 | 10 27.20 | +20 32.8 | 2.244 | 3.211 | 4.2 | 21.5 |
| 2 21 | 10 17.06 | +13 27.8 | 2.297 | 3.285 | 0.8 | 18.2 | 2 21 | 10 17.24 | +20 59.6 | 2.248 | 3.227 | 3.1 | 21.4 |
| 3 2 | 10 9.26 | +14 13.5 | 2.323 | 3.297 | 3.8 | 18.5 | 3 2 | 10 7.36 | +21 16.1 | 2.284 | 3.242 | 5.3 | 21.6 |
| 3 12 | 10 2.22 | +14 51.7 | 2.379 | 3.310 | 7.1 | 18.7 | 3 12 | 9 58.48 | +21 19.9 | 2.348 | 3.256 | 8.4 | 21.8 |
| 3 22 | 9 56.58 | +15 19.8 | 2.461 | 3.321 | 10.1 | 18.9 | 3 22 | 9 51.28 | +21 10.6 | 2.438 | 3.270 | 11.2 | 22.0 |
| 4 1 | 9 52.76 | +15 36.5 | 2.565 | 3.333 | 12.6 | 19.1 | 4 1 | 9 46.22 | +20 49.1 | 2.550 | 3.283 | 13.5 | 22.2 |
| 202860 | 2008 TX ₁₂₅ | | 2 21.6 30°36 | 1°0/20.9 | 18 | | 496824 | 1995 SL ₂₂ | | 2 21.6 227°90 | 7°0/13.7 | 17 | |
| 1 22 | 10 39.83 | +12 17.4 | 1.562 | 2.429 | 13.7 | 20.2 | 1 22 | 10 45.67 | +36 50.1 | 2.759 | 3.593 | 9.5 | 21.6 |
| 2 1 | 10 34.06 | +12 33.0 | 1.510 | 2.442 | 9.6 | 20.0 | 2 1 | 10 37.73 | +37 36.7 | 2.697 | 3.583 | 8.0 | 21.5 |
| 2 11 | 10 26.18 | +12 55.6 | 1.482 | 2.455 | 5.0 | 19.7 | 2 11 | 10 28.01 | +38 11.4 | 2.662 | 3.572 | 7.1 | 21.4 |
| 2 21 | 10 17.15 | +13 19.5 | 1.481 | 2.469 | 1.0 | 19.5 | 2 21 | 10 17.29 | +38 28.3 | 2.656 | 3.562 | 7.4 | 21.4 |
| 3 2 | 10 8.17 | +13 39.2 | 1.507 | 2.484 | 5.0 | 19.8 | 3 2 | 10 6.56 | +38 24.0 | 2.677 | 3.551 | 8.7 | 21.5 |
| 3 12 | 10 0.45 | +13 50.2 | 1.560 | 2.499 | 9.4 | 20.1 | 3 12 | 9 56.79 | +37 57.7 | 2.725 | 3.539 | 10.5 | 21.6 |
| 3 22 | 9 54.84 | +13 50.0 | 1.636 | 2.515 | 13.3 | 20.3 | 3 22 | 9 48.76 | +37 11.4 | 2.796 | 3.527 | 12.4 | 21.7 |
| 4 1 | 9 51.85 | +13 37.8 | 1.733 | 2.532 | 16.5 | 20.6 | 4 1 | 9 42.97 | +36 8.6 | 2.886 | 3.515 | 14.0 | 21.8 |
| 274449 | 2008 SP ₅₀ | | 2 21.6 100°36 | 0°2/21.5 | 18 | | 400286 | 2007 TQ ₉ | | 2 21.6 142°33 | 0°2/21.8 | 18 | |
| 1 22 | 10 38.58 | + 9 17.1 | 2.030 | 2.880 | 11.8 | 20.8 | 1 22 | 10 41.87 | + 7 42.5 | 1.906 | 2.750 | 12.7 | 21.9 |
| 2 1 | 10 32.89 | + 9 47.4 | 1.964 | 2.887 | 8.3 | 20.6 | 2 1 | 10 35.28 | + 8 20.0 | 1.842 | 2.762 | 9.0 | 21.7 |
| 2 11 | 10 25.49 | +10 26.4 | 1.924 | 2.895 | 4.4 | 20.4 | 2 11 | 10 26.79 | + 9 8.5 | 1.804 | 2.773 | 4.8 | 21.5 |
| 2 21 | 10 17.11 | +11 9.5 | 1.913 | 2.902 | 0.3 | 20.1 | 2 21 | 10 17.23 | +10 2.6 | 1.795 | 2.783 | 0.4 | 21.2 |
| 3 2 | 10 8.67 | +11 51.4 | 1.932 | 2.909 | 3.9 | 20.4 | 3 2 | 10 7.60 | +10 56.3 | 1.815 | 2.793 | 4.1 | 21.5 |
| 3 12 | 10 1.11 | +12 27.2 | 1.978 | 2.916 | 7.8 | 20.7 | 3 12 | 9 58.99 | +11 43.7 | 1.864 | 2.802 | 8.2 | 21.8 |
| 3 22 | 9 55.19 | +12 53.4 | 2.051 | 2.923 | 11.3 | 20.9 | 3 22 | 9 52.20 | +12 20.7 | 1.939 | 2.810 | 11.9 | 22.0 |
| 4 1 | 9 51.41 | +13 8.2 | 2.145 | 2.930 | 14.2 | 21.1 | 4 1 | 9 47.77 | +12 45.1 | 2.036 | 2.818 | 14.9 | 22.2 |
| 152886 | 2000 CW ₁₆ | | 2 21.6 294°46 | 4°0/24.0 | 18 | | 426366 | 2013 NQ ₂₁ | | 2 21.6 107°35 | 5°2/15.3 | 18 | |
| 1 22 | 10 40.25 | + 0 54.2 | 1.335 | 2.179 | 17.1 | 19.4 | 1 22 | 10 39.93 | +23 56.4 | 2.249 | 3.113 | 10.2 | 21.0 |
| 2 1 | 10 35.08 | + 0 46.5 | 1.250 | 2.161 | 13.0 | 19.1 | 2 1 | 10 33.79 | +25 52.3 | 2.212 | 3.136 | 7.5 | 20.8 |
| 2 11 | 10 27.11 | + 1 0.8 | 1.185 | 2.144 | 8.4 | 18.8 | 2 11 | 10 25.96 | +27 44.2 | 2.204 | 3.158 | 5.5 | 20.8 |
| 2 21 | 10 17.22 | + 1 35.2 | 1.145 | 2.126 | 4.3 | 18.5 | 2 21 | 10 17.18 | +29 23.5 | 2.227 | 3.180 | 5.7 | 20.8 |
| 3 2 | 10 6.76 | + 2 24.5 | 1.130 | 2.109 | 5.7 | 18.5 | 3 2 | 10 8.38 | +30 43.5 | 2.279 | 3.201 | 7.7 | 21.0 |
| 3 12 | 9 57.33 | + 3 20.6 | 1.141 | 2.092 | 10.7 | 18.8 | 3 12 | 10 0.51 | +31 40.4 | 2.358 | 3.222 | 10.2 | 21.2 |
| 3 22 | 9 50.24 | + 4 14.7 | 1.174 | 2.075 | 15.7 | 19.0 | 3 22 | 9 54.31 | +32 14.2 | 2.462 | 3.242 | 12.6 | 21.4 |
| 4 1 | 9 46.40 | + 4 59.6 | 1.226 | 2.059 | 20.0 | 19.2 | 4 1 | 9 50.24 | +32 26.6 | 2.584 | 3.261 | 14.5 | 21.5 |
| 341650 | 2007 VQ ₅₁ | | 2 21.6 181°17 | 4°5/17.0 | 17 | | 458949 | 2011 UB ₃₆₉ | | 2 21.6 78°79 | 3°1/23.9 | 18 | |
| 1 22 | 10 39.63 | +24 11.4 | 2.372 | 3.235 | 9.8 | 21.1 | 1 22 | 10 41.83 | + 0 42.7 | 1.518 | 2.350 | 16.0 | 21.7 |
| 2 1 | 10 33.54 | +25 2.0 | 2.311 | 3.235 | 7.2 | 20.9 | 2 1 | 10 35.44 | + 1 0.6 | 1.468 | 2.375 | 11.8 | 21.5 |
| 2 11 | 10 25.81 | +25 49.2 | 2.277 | 3.235 | 5.0 | 20.8 | 2 11 | 10 26.91 | + 1 38.5 | 1.441 | 2.399 | 7.3 | 21.3 |
| 2 21 | 10 17.14 | +26 27.1 | 2.272 | 3.235 | 4.7 | 20.7 | 2 21 | 10 17.23 | + 2 31.7 | 1.441 | 2.423 | 3.4 | 21.1 |
| 3 2 | 10 8.42 | +26 51.0 | 2.296 | 3.235 | 6.6 | 20.9 | 3 2 | 10 7.65 | + 3 33.4 | 1.468 | 2.447 | 4.7 | 21.3 |
| 3 12 | 10 0.55 | +26 58.2 | 2.347 | 3.235 | 9.3 | 21.0 | 3 12 | 9 59.39 | + 4 35.5 | 1.523 | 2.471 | 8.8 | 21.6 |
| 3 22 | 9 54.24 | +26 48.7 | 2.423 | 3.234 | 11.9 | 21.2 | 3 22 | 9 53.32 | + 5 31.2 | 1.603 | 2.494 | 12.8 | 21.9 |
| 4 1 | 9 49.99 | +26 23.8 | 2.520 | 3.234 | 14.1 | 21.4 | 4 1 | 9 49.93 | + 6 15.8 | 1.703 | 2.517 | 16.1 | 22.1 |
| 408987 | 2002 TD ₇₁ | | 2 21.6 135°49 | 3°7/18.7 | 18 | | 33562 | Amydunphy | | 2 21.6 198°62 | 2°9/19.4 | 18 | |
| 1 22 | 10 45.85 | +20 46.0 | 2.040 | 2.897 | 11.4 | 21.7 | 1 22 | 10 43.21 | +16 21.9 | 1.776 | 2.639 | 12.6 | 18.7 |
| 2 1 | 10 37.94 | +21 20.6 | 1.985 | 2.910 | 8.1 | 21.5 | 2 1 | 10 36.49 | +17 9.6 | 1.707 | 2.636 | 8.8 | 18.5 |
| 2 11 | 10 28.12 | +21 53.0 | 1.958 | 2.923 | 4.9 | 21.3 | 2 11 | 10 27.56 | +18 1.2 | 1.663 | 2.634 | 4.9 | 18.2 |
| 2 21 | 10 17.28 | +22 17.3 | 1.959 | 2.935 | 3.8 | 21.3 | 2 21 | 10 17.28 | +18 49.5 | 1.648 | 2.630 | 3.0 | 18.1 |
| 3 2 | 10 6.53 | +22 28.7 | 1.991 | 2.946 | 6.2 | 21.4 | 3 2 | 10 6.84 | +19 27.6 | 1.661 | 2.627 | 6.1 | 18.3 |
| 3 12 | 9 56.94 | +22 24.8 | 2.051 | 2.957 | 9.5 | 21.6 | 3 12 | 9 57.48 | +19 50.6 | 1.702 | 2.622 | 10.2 | 18.5 |
| 3 22 | 9 49.31 | +22 5.8 | 2.136 | 2.967 | 12.5 | 21.9 | 3 22 | 9 50.16 | +19 56.7 | 1.767 | 2.617 | 13.9 | 18.7 |
| 4 1 | 9 44.15 | +21 33.4 | 2.243 | 2.977 | 15.1 | 22.1 | 4 1 | 9 45.50 | +19 46.3 | 1.852 | 2.612 | 17.0 | 18.9 |
| 37611 | 1993 FR ₂₉ | | 2 21.6 48°05 | 4°1/25.2 | 18 | | 182388 | 2001 QT ₂₅₄ | | 2 21.6 208°99 | 1°1/20.6 | 16 | |
| 1 22 | 10 36.77 | - 2 45.5 | 1.686 | 2.507 | 15.2 | 18.6 | 1 22 | | | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 404306 | 2013 <i>EC</i> ₁₂₁ | | 2 21.6 356°19 | 0°8/22.1 | 16 | | 157900 | 1999 <i>TW</i> ₁₀₈ | | 2 21.6 117°50 | 2°7/24.6 | 18 | R |
| 1 22 | 10 38.26 | + 6 55.9 | 1.204 | 2.073 | 16.8 | 21.3 | 1 22 | 10 38.01 | - 0 59.5 | 2.358 | 3.166 | 11.8 | 20.5 |
| 2 1 | 10 33.63 | + 7 18.9 | 1.139 | 2.070 | 12.1 | 21.0 | 2 1 | 10 32.29 | - 0 34.6 | 2.292 | 3.184 | 8.9 | 20.3 |
| 2 11 | 10 26.27 | + 7 59.5 | 1.096 | 2.068 | 6.6 | 20.7 | 2 11 | 10 25.13 | + 0 5.5 | 2.252 | 3.202 | 5.7 | 20.1 |
| 2 21 | 10 17.21 | + 8 51.6 | 1.078 | 2.066 | 1.1 | 20.3 | 2 21 | 10 17.17 | + 0 57.5 | 2.241 | 3.219 | 3.1 | 20.0 |
| 3 2 | 10 7.92 | + 9 46.7 | 1.084 | 2.065 | 5.4 | 20.6 | 3 2 | 10 9.19 | + 1 57.0 | 2.259 | 3.236 | 3.6 | 20.1 |
| 3 12 | 9 59.97 | + 10 35.6 | 1.115 | 2.065 | 11.0 | 20.9 | 3 12 | 10 1.98 | + 2 58.7 | 2.308 | 3.252 | 6.5 | 20.3 |
| 3 22 | 9 54.55 | + 11 11.7 | 1.167 | 2.066 | 15.9 | 21.2 | 3 22 | 9 56.16 | + 3 57.4 | 2.384 | 3.267 | 9.5 | 20.5 |
| 4 1 | 9 52.36 | + 11 31.3 | 1.238 | 2.068 | 20.0 | 21.4 | 4 1 | 9 52.18 | + 4 49.2 | 2.484 | 3.282 | 12.1 | 20.7 |
| 293623 | 2007 <i>MD</i> ₂ | | 2 21.6 237°73 | 2°1/19.8 | 17 | | 152827 | 1999 <i>VA</i> ₂₄ | | 2 21.6 112°66 | 3°1/23.8 | 18 | |
| 1 22 | 10 41.05 | + 12 35.1 | 1.728 | 2.589 | 12.9 | 21.7 | 1 22 | 10 43.00 | + 1 26.2 | 1.437 | 2.273 | 16.5 | 20.3 |
| 2 1 | 10 35.16 | + 13 46.5 | 1.646 | 2.576 | 9.1 | 21.4 | 2 1 | 10 36.54 | + 1 37.8 | 1.376 | 2.286 | 12.3 | 20.0 |
| 2 11 | 10 26.96 | + 15 8.5 | 1.590 | 2.562 | 4.8 | 21.2 | 2 11 | 10 27.64 | + 2 9.9 | 1.338 | 2.298 | 7.5 | 19.8 |
| 2 21 | 10 17.26 | + 16 33.3 | 1.562 | 2.547 | 2.2 | 21.0 | 2 21 | 10 17.34 | + 2 58.3 | 1.326 | 2.310 | 3.4 | 19.6 |
| 3 2 | 10 7.17 | + 17 51.6 | 1.563 | 2.532 | 5.9 | 21.2 | 3 2 | 10 6.97 | + 3 56.1 | 1.342 | 2.321 | 5.0 | 19.7 |
| 3 12 | 9 57.99 | + 18 55.7 | 1.591 | 2.516 | 10.4 | 21.4 | 3 12 | 9 57.92 | + 4 55.1 | 1.384 | 2.332 | 9.5 | 20.0 |
| 3 22 | 9 50.75 | + 19 41.1 | 1.644 | 2.500 | 14.5 | 21.6 | 3 22 | 9 51.20 | + 5 48.0 | 1.450 | 2.343 | 13.8 | 20.2 |
| 4 1 | 9 46.20 | + 20 6.3 | 1.716 | 2.482 | 17.9 | 21.8 | 4 1 | 9 47.42 | + 6 29.6 | 1.537 | 2.353 | 17.5 | 20.5 |
| 258277 | 2001 <i>UV</i> ₁₈ | | 2 21.6 162°40 | 1°5/20.3 | 18 | | 453250 | 2008 <i>SQ</i> ₄₇ | | 2 21.6 186°60 | 1°4/22.8 | 18 | |
| 1 22 | 10 39.18 | + 12 1.7 | 1.890 | 2.749 | 12.1 | 20.8 | 1 22 | 10 41.79 | + 3 59.5 | 1.790 | 2.625 | 13.8 | 22.3 |
| 2 1 | 10 33.50 | + 12 56.5 | 1.823 | 2.751 | 8.4 | 20.6 | 2 1 | 10 35.47 | + 4 36.3 | 1.713 | 2.625 | 10.0 | 22.0 |
| 2 11 | 10 25.91 | + 13 59.3 | 1.782 | 2.754 | 4.4 | 20.3 | 2 11 | 10 27.04 | + 5 29.2 | 1.661 | 2.625 | 5.8 | 21.8 |
| 2 21 | 10 17.18 | + 15 3.7 | 1.769 | 2.756 | 1.5 | 20.1 | 2 21 | 10 17.31 | + 6 33.5 | 1.636 | 2.623 | 1.7 | 21.5 |
| 3 2 | 10 8.34 | + 16 2.7 | 1.785 | 2.758 | 4.9 | 20.4 | 3 2 | 10 7.36 | + 7 42.4 | 1.642 | 2.621 | 4.2 | 21.6 |
| 3 12 | 10 0.43 | + 16 50.6 | 1.830 | 2.759 | 9.0 | 20.6 | 3 12 | 9 58.36 | + 8 48.6 | 1.676 | 2.618 | 8.6 | 21.9 |
| 3 22 | 9 54.28 | + 17 23.7 | 1.899 | 2.760 | 12.6 | 20.8 | 3 22 | 9 51.24 | + 9 45.9 | 1.735 | 2.615 | 12.6 | 22.1 |
| 4 1 | 9 50.47 | + 17 41.0 | 1.989 | 2.761 | 15.6 | 21.1 | 4 1 | 9 46.64 | + 10 30.3 | 1.817 | 2.610 | 16.0 | 22.3 |
| 211471 | 2003 <i>DS</i> ₁₈ | | 2 21.6 89°64 | 1°7/19.7 | 18 | | 153326 | 2001 <i>OG</i> ₃₅ | | 2 21.6 103°75 | 4°4/18.7 | 18 | |
| 1 22 | 10 35.83 | + 13 5.3 | 2.312 | 3.171 | 10.2 | 20.1 | 1 22 | 10 45.02 | + 18 54.7 | 1.407 | 2.280 | 14.6 | 20.0 |
| 2 1 | 10 30.85 | + 14 10.2 | 2.252 | 3.181 | 7.0 | 19.9 | 2 1 | 10 38.04 | + 19 51.4 | 1.357 | 2.290 | 10.3 | 19.7 |
| 2 11 | 10 24.39 | + 15 20.7 | 2.220 | 3.192 | 3.7 | 19.7 | 2 11 | 10 28.45 | + 20 49.1 | 1.331 | 2.300 | 6.0 | 19.5 |
| 2 21 | 10 17.09 | + 16 31.0 | 2.217 | 3.202 | 1.7 | 19.6 | 2 21 | 10 17.40 | + 21 38.1 | 1.331 | 2.310 | 4.6 | 19.4 |
| 3 2 | 10 9.75 | + 17 35.3 | 2.244 | 3.213 | 4.5 | 19.8 | 3 2 | 10 6.39 | + 22 10.3 | 1.358 | 2.319 | 7.8 | 19.6 |
| 3 12 | 10 3.16 | + 18 28.7 | 2.300 | 3.223 | 7.7 | 20.0 | 3 12 | 9 56.93 | + 22 21.4 | 1.411 | 2.329 | 12.1 | 19.9 |
| 3 22 | 9 57.97 | + 19 8.4 | 2.382 | 3.233 | 10.7 | 20.2 | 3 22 | 9 50.06 | + 22 11.3 | 1.486 | 2.338 | 16.0 | 20.2 |
| 4 1 | 9 54.63 | + 19 33.2 | 2.486 | 3.244 | 13.2 | 20.4 | 4 1 | 9 46.34 | + 21 42.3 | 1.579 | 2.346 | 19.2 | 20.4 |
| 206265 | 2002 <i>XP</i> ₁₁₅ | | 2 21.6 53°79 | 3°8/17.6 | 18 | | 405587 | 2005 <i>SY</i> ₁₄ | | 2 21.6 25°63 | 4°6/25.0 | 16 | |
| 1 22 | 10 36.50 | + 18 51.6 | 1.990 | 2.861 | 11.0 | 19.5 | 1 22 | 10 35.56 | - 1 46.0 | 0.944 | 1.806 | 21.0 | 19.9 |
| 2 1 | 10 31.52 | + 20 15.5 | 1.941 | 2.874 | 7.7 | 19.3 | 2 1 | 10 31.62 | - 1 25.4 | 0.920 | 1.838 | 15.7 | 19.7 |
| 2 11 | 10 24.81 | + 21 40.6 | 1.918 | 2.886 | 4.7 | 19.1 | 2 11 | 10 25.04 | - 0 33.2 | 0.913 | 1.873 | 10.0 | 19.5 |
| 2 21 | 10 17.12 | + 22 59.2 | 1.924 | 2.899 | 4.1 | 19.1 | 2 21 | 10 17.19 | + 0 43.2 | 0.929 | 1.910 | 5.3 | 19.4 |
| 3 2 | 10 9.41 | + 24 4.1 | 1.959 | 2.911 | 6.6 | 19.3 | 3 2 | 10 9.68 | + 2 11.7 | 0.967 | 1.948 | 5.9 | 19.5 |
| 3 12 | 10 2.63 | + 24 50.7 | 2.021 | 2.924 | 9.8 | 19.5 | 3 12 | 10 3.98 | + 3 39.1 | 1.029 | 1.988 | 10.4 | 19.9 |
| 3 22 | 9 57.52 | + 25 17.4 | 2.106 | 2.937 | 12.7 | 19.7 | 3 22 | 10 0.95 | + 4 54.9 | 1.112 | 2.029 | 14.9 | 20.3 |
| 4 1 | 9 54.58 | + 25 24.9 | 2.212 | 2.950 | 15.1 | 19.9 | 4 1 | 10 0.95 | + 5 53.0 | 1.214 | 2.071 | 18.7 | 20.7 |
| 125500 | 2001 <i>WB</i> ₃₂ | | 2 21.6 309°09 | 5°5/17.7 | 18 | | 39756 | 1997 <i>EH</i> ₁₀ | | 2 21.6 20°78 | 1°1/22.5 | 18 | |
| 1 22 | 10 40.70 | + 19 46.3 | 1.299 | 2.182 | 14.8 | 19.2 | 1 22 | 10 36.54 | + 5 17.5 | 1.583 | 2.437 | 14.3 | 19.1 |
| 2 1 | 10 35.45 | + 21 4.1 | 1.233 | 2.170 | 10.6 | 18.9 | 2 1 | 10 31.88 | + 5 51.5 | 1.519 | 2.442 | 10.3 | 18.9 |
| 2 11 | 10 27.31 | + 22 25.3 | 1.189 | 2.158 | 6.7 | 18.7 | 2 11 | 10 25.15 | + 6 41.4 | 1.479 | 2.447 | 5.8 | 18.7 |
| 2 21 | 10 17.29 | + 23 38.4 | 1.171 | 2.147 | 5.8 | 18.6 | 2 21 | 10 17.21 | + 7 41.7 | 1.465 | 2.453 | 1.3 | 18.4 |
| 3 2 | 10 6.94 | + 24 32.2 | 1.179 | 2.136 | 9.3 | 18.7 | 3 2 | 10 9.16 | + 8 45.3 | 1.479 | 2.459 | 4.3 | 18.6 |
| 3 12 | 9 57.93 | + 24 59.6 | 1.210 | 2.125 | 13.9 | 18.9 | 3 12 | 10 2.17 | + 9 44.4 | 1.519 | 2.466 | 8.9 | 18.9 |
| 3 22 | 9 51.54 | + 24 59.3 | 1.262 | 2.115 | 18.1 | 19.2 | 3 22 | 9 57.10 | + 10 33.3 | 1.583 | 2.474 | 13.0 | 19.1 |
| 4 1 | 9 48.53 | + 24 33.5 | 1.330 | 2.105 | 21.7 | 19.4 | 4 1 | 9 54.54 | + 11 8.1 | 1.668 | 2.482 | 16.4 | 19.4 |
| 500482 | 2012 <i>TV</i> ₂₄₈ | | 2 21.6 102°81 | 1°5/20.2 | 17 | | 465769 | 2009 <i>WY</i> ₂₀₇ | | 2 21.6 77°55 | 7°2/15.1 | 18 | |
| 1 22 | 10 39.05 | + 14 31.9 | 2.373 | 3.228 | 10.1 | 21.7 | 1 22 | 10 41.77 | + 29 9.1 | 1.861 | 2.727 | 11.9 | 20.9 |
| 2 1 | 10 33.04 | + 14 56.7 | 2.310 | 3.237 | 7.0 | 21.5 | 2 1 | 10 35.41 | + 30 28.3 | 1.819 | 2.737 | 9.2 | 20.8 |
| 2 11 | 10 25.52 | + 15 24.5 | 2.274 | 3.246 | 3.7 | 21.3 | 2 11 | 10 26.94 | + 31 38.4 | 1.803 | 2.747 | 7.4 | 20.7 |
| 2 21 | 10 17.18 | + 15 51.4 | 2.268 | 3.254 | 1.5 | 21.1 | 2 21 | 10 17.32 | + 32 30.8 | 1.814 | 2.758 | 7.6 | 20.7 |
| 3 2 | 10 8.82 | + 16 13.0 | 2.292 | 3.262 | 4.2 | 21.3 | 3 2 | 10 7.74 | + 32 59.4 | 1.852 | 2.768 | 9.6 | 20.9 |
| 3 12 | 10 1.27 | + 16 26.4 | 2.345 | 3.271 | 7.4 | 21.6 | 3 12 | 9 59.41 | + 33 2.3 | 1.915 | 2.778 | 12.2 | 21.1 |
| 3 22 | 9 55.19 | + 16 29.7 | 2.424 | 3.279 | 10.4 | 21.8 | 3 22 | 9 53.19 | + 32 41.2 | 1.999 | 2.788 | 14.8 | 21.3 |
| 4 1 | 9 51.01 | + 16 22.5 | 2.525 | 3.287 | 12.9 | 22.0 | 4 1 | 9 49.58 | + 31 59.8 | 2.102 | 2.798 | 17.0 | 21.4 |
| 501119 | 2013 <i>TK</i> ₁₉ | | 2 21.6 109°46 | 1°0/22.5 | 18 | | 55018 | 2001 <i>QH</i> ₃₃ | | 2 21.6 318°80 | 4°6/23.7 | 18 | |
| 1 22 | 10 39.63 | + 6 19.3 | 2.021 | 2.862 | 12.2 | 21.6 | 1 22 | 10 42.77 | + 2 31.0 | 1.405 | 2.247 | 16.5 | 17.6 |
| 2 1 | 10 33.66 | + 6 32.1 | 1.953 | 2.869 | 8.8 | 21.4 | 2 1 | 10 36.92 | + 1 33.5 | 1.311 | 2.221 | 12.7 | 17.3 |
| 2 11 | 10 25.94 | + 6 55.7 | 1.910 | 2.876 | 4.9 | 21.2 | 2 11 | 10 28.20 | + 0 49.4 | 1.239 | 2.196 | 8.3 | 17.0 |
| 2 21 | 10 17.21 | + 7 26.4 | 1.896 | 2.883 | 1.2 | 21.0 | 2 21 | 10 17.43 | + 0 19.4 | 1.192 | 2.171 | 4.8 | 16.7 |
| 3 2 | 10 8.41 | + 7 59.7 | 1.911 | 2.890 | 3.7 | 21.2 | 3 2 | 10 5.95 | + 0 2.4 | 1.171 | 2.147 | 6.2 | 16.7 |
| 3 12 | 10 0.51 | + 8 30.7 | 1.955 | 2.897 | 7.6 | 21.4 | 3 12 | 9 55.38 | - 0 4.9 | 1.176 | 2.124 | 10.8 | 16.9 |
| 3 22 | 9 54.27 | + 8 55.7 | 2.024 | 2.904 | 11.1 | 21.6 | 3 22 | 9 47.12 | - 0 7.5 | 1.204 | 2.101 | 15.6 | 17.1 |
| 4 1 | 9 50.19 | + 9 12.0 | 2.117 | 2.910 | 14.0 | 21.8 | 4 1 | 9 42.11 | - 0 10.4 | 1.251 | 2.080 | 19.9 | 17.3 |
| 243795 | 2000 <i>SP</i> ₁₀₁ | | 2 21.6 74°29 | 5°1/18.2 | 18 | | 322624 | | | | | | |

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2 21.7

2 21.7

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 4862 | Loke | | 2 21.7 231°23 | 2°5/24.5 | 18 | | 413074 | 2001 <i>SL</i> ₃₀₆ | | 2 21.7 111°78 | 2°1/23.6 | 18 | |
| 1 22 | 10 36.38 | - 0 28.3 | 2.663 | 3.470 | 10.6 | 18.4 | 1 22 | 10 39.48 | + 2 3.8 | 1.990 | 2.817 | 12.9 | 22.0 |
| 2 1 | 10 31.21 | - 0 4.3 | 2.566 | 3.458 | 8.0 | 18.2 | 2 1 | 10 33.57 | + 2 31.6 | 1.927 | 2.833 | 9.5 | 21.8 |
| 2 11 | 10 24.65 | + 0 33.5 | 2.495 | 3.445 | 5.2 | 18.0 | 2 11 | 10 25.94 | + 3 14.6 | 1.890 | 2.849 | 5.7 | 21.6 |
| 2 21 | 10 17.21 | + 1 23.0 | 2.453 | 3.432 | 2.7 | 17.8 | 2 21 | 10 17.34 | + 4 8.6 | 1.880 | 2.864 | 2.4 | 21.4 |
| 3 2 | 10 9.55 | + 2 20.3 | 2.441 | 3.418 | 3.4 | 17.8 | 3 2 | 10 8.72 | + 5 8.3 | 1.900 | 2.879 | 3.8 | 21.5 |
| 3 12 | 10 2.42 | + 3 20.8 | 2.460 | 3.403 | 6.2 | 18.0 | 3 12 | 10 1.02 | + 6 7.3 | 1.949 | 2.894 | 7.4 | 21.8 |
| 3 22 | 9 56.44 | + 4 19.8 | 2.507 | 3.388 | 9.1 | 18.2 | 3 22 | 9 54.99 | + 7 0.4 | 2.024 | 2.908 | 10.9 | 22.0 |
| 4 1 | 9 52.10 | + 5 13.1 | 2.578 | 3.373 | 11.8 | 18.3 | 4 1 | 9 51.11 | + 7 43.8 | 2.122 | 2.921 | 13.8 | 22.3 |
| 208619 | 2002 <i>EP</i> ₁₃ | | 2 21.7 289°98 | 0°7/22.1 | 17 | | 503221 | 2015 <i>HV</i> ₄₇ | | 2 21.7 349°45 | 4°9/17.0 | 17 | |
| 1 22 | 10 41.77 | + 7 49.0 | 1.494 | 2.350 | 14.9 | 20.1 | 1 22 | 10 37.61 | +22 28.8 | 1.909 | 2.783 | 11.3 | 20.6 |
| 2 1 | 10 36.04 | + 7 58.6 | 1.403 | 2.327 | 10.8 | 19.7 | 2 1 | 10 32.52 | +23 35.0 | 1.848 | 2.779 | 8.2 | 20.4 |
| 2 11 | 10 27.64 | + 8 21.4 | 1.335 | 2.305 | 6.0 | 19.4 | 2 11 | 10 25.49 | +24 39.6 | 1.813 | 2.776 | 5.5 | 20.3 |
| 2 21 | 10 17.41 | + 8 53.4 | 1.294 | 2.282 | 0.9 | 19.0 | 2 21 | 10 17.32 | +25 35.1 | 1.805 | 2.773 | 5.2 | 20.2 |
| 3 2 | 10 6.61 | + 9 28.3 | 1.279 | 2.259 | 5.0 | 19.2 | 3 2 | 10 9.03 | +26 14.7 | 1.825 | 2.771 | 7.6 | 20.4 |
| 3 12 | 9 56.75 | + 9 59.5 | 1.291 | 2.236 | 10.4 | 19.5 | 3 12 | 10 1.70 | +26 34.5 | 1.871 | 2.769 | 10.7 | 20.5 |
| 3 22 | 9 49.07 | +10 21.5 | 1.327 | 2.214 | 15.2 | 19.7 | 3 22 | 9 56.18 | +26 33.9 | 1.940 | 2.767 | 13.8 | 20.7 |
| 4 1 | 9 44.44 | +10 31.0 | 1.382 | 2.191 | 19.4 | 19.9 | 4 1 | 9 53.01 | +26 14.1 | 2.028 | 2.766 | 16.3 | 20.9 |
| 336232 | 2008 <i>SM</i> ₉₅ | | 2 21.7 7°09 | 7°0/28.4 | 18 | | 155990 | 2001 <i>QX</i> ₂₈₃ | | 2 21.7 152°57 | 3°4/18.9 | 18 | |
| 1 22 | 10 34.82 | -10 56.0 | 1.803 | 2.581 | 16.1 | 20.3 | 1 22 | 10 44.35 | +17 30.0 | 1.799 | 2.661 | 12.5 | 20.4 |
| 2 1 | 10 30.58 | -10 55.6 | 1.725 | 2.582 | 13.2 | 20.1 | 2 1 | 10 37.23 | +18 31.8 | 1.741 | 2.670 | 8.7 | 20.2 |
| 2 11 | 10 24.48 | -10 27.6 | 1.668 | 2.583 | 10.2 | 19.9 | 2 11 | 10 27.96 | +19 36.0 | 1.710 | 2.679 | 5.0 | 20.0 |
| 2 21 | 10 17.21 | - 9 32.6 | 1.634 | 2.584 | 7.7 | 19.8 | 2 21 | 10 17.47 | +20 34.7 | 1.707 | 2.687 | 3.5 | 19.9 |
| 3 2 | 10 9.76 | - 8 14.4 | 1.628 | 2.586 | 7.1 | 19.7 | 3 2 | 10 6.94 | +21 20.6 | 1.733 | 2.694 | 6.5 | 20.1 |
| 3 12 | 10 3.15 | - 6 40.9 | 1.647 | 2.588 | 8.9 | 19.8 | 3 12 | 9 57.58 | +21 49.4 | 1.787 | 2.700 | 10.2 | 20.4 |
| 3 22 | 9 58.22 | - 5 1.2 | 1.692 | 2.591 | 11.8 | 20.0 | 3 22 | 9 50.29 | +21 59.5 | 1.866 | 2.706 | 13.7 | 20.6 |
| 4 1 | 9 55.57 | - 3 24.2 | 1.760 | 2.594 | 14.8 | 20.2 | 4 1 | 9 45.63 | +21 52.0 | 1.964 | 2.711 | 16.6 | 20.8 |
| 154692 | 2004 <i>HL</i> ₂₆ | | 2 21.7 274°03 | 1°6/20.5 | 18 | | 331360 | 2012 <i>DA</i> ₁₅ | | 2 21.7 17°69 | 0°9/21.2 | 18 | |
| 1 22 | 10 40.99 | +11 13.4 | 1.395 | 2.263 | 15.0 | 20.6 | 1 22 | 10 43.72 | +12 47.4 | 1.365 | 2.233 | 15.3 | 20.9 |
| 2 1 | 10 35.54 | +12 7.2 | 1.317 | 2.249 | 10.6 | 20.3 | 2 1 | 10 37.22 | +12 44.2 | 1.304 | 2.236 | 10.8 | 20.6 |
| 2 11 | 10 27.38 | +13 14.4 | 1.261 | 2.235 | 5.6 | 20.0 | 2 11 | 10 28.11 | +12 47.4 | 1.267 | 2.240 | 5.7 | 20.3 |
| 2 21 | 10 17.41 | +14 26.9 | 1.232 | 2.220 | 1.6 | 19.7 | 2 21 | 10 17.48 | +12 51.9 | 1.256 | 2.244 | 0.9 | 20.0 |
| 3 2 | 10 6.98 | +15 34.9 | 1.230 | 2.205 | 6.2 | 19.9 | 3 2 | 10 6.81 | +12 52.3 | 1.272 | 2.249 | 5.5 | 20.3 |
| 3 12 | 9 57.67 | +16 29.5 | 1.253 | 2.190 | 11.5 | 20.2 | 3 12 | 9 57.58 | +12 44.4 | 1.313 | 2.255 | 10.5 | 20.6 |
| 3 22 | 9 50.70 | +17 5.4 | 1.299 | 2.175 | 16.3 | 20.4 | 3 22 | 9 50.87 | +12 26.4 | 1.378 | 2.261 | 15.0 | 20.9 |
| 4 1 | 9 46.90 | +17 20.6 | 1.364 | 2.160 | 20.3 | 20.7 | 4 1 | 9 47.28 | +11 57.7 | 1.461 | 2.268 | 18.6 | 21.2 |
| 61639 | 2000 <i>QX</i> ₁₀₄ | | 2 21.7 178°94 | 0°1/21.6 | 18 | | 427566 | 2002 <i>WR</i> ₂₄ | | 2 21.7 36°08 | 5°8/15.9 | 18 | |
| 1 22 | 10 37.54 | + 7 17.2 | 2.296 | 3.137 | 10.9 | 19.8 | 1 22 | 10 39.49 | +26 33.7 | 2.064 | 2.932 | 10.8 | 20.6 |
| 2 1 | 10 32.15 | + 8 19.2 | 2.220 | 3.139 | 7.7 | 19.6 | 2 1 | 10 33.71 | +27 40.6 | 2.012 | 2.935 | 8.1 | 20.4 |
| 2 11 | 10 25.18 | + 9 32.3 | 2.171 | 3.140 | 4.1 | 19.3 | 2 11 | 10 26.06 | +28 41.9 | 1.985 | 2.938 | 6.1 | 20.3 |
| 2 21 | 10 17.27 | +10 51.3 | 2.151 | 3.140 | 0.2 | 19.0 | 2 21 | 10 17.35 | +29 30.2 | 1.987 | 2.941 | 6.2 | 20.3 |
| 3 2 | 10 9.21 | +12 9.8 | 2.163 | 3.140 | 3.7 | 19.3 | 3 2 | 10 8.60 | +29 59.9 | 2.016 | 2.944 | 8.2 | 20.4 |
| 3 12 | 10 1.86 | +13 21.9 | 2.205 | 3.140 | 7.3 | 19.5 | 3 12 | 10 0.86 | +30 8.3 | 2.071 | 2.947 | 10.9 | 20.6 |
| 3 22 | 9 55.90 | +14 23.0 | 2.273 | 3.139 | 10.6 | 19.7 | 3 22 | 9 54.92 | +29 55.9 | 2.148 | 2.951 | 13.5 | 20.8 |
| 4 1 | 9 51.86 | +15 10.4 | 2.365 | 3.137 | 13.4 | 19.9 | 4 1 | 9 51.29 | +29 25.0 | 2.245 | 2.955 | 15.7 | 21.0 |
| 340801 | 2006 <i>TZ</i> ₆₈ | | 2 21.7 127°70 | 5°1/15.8 | 18 | | 291188 | 2006 <i>AL</i> ₅₄ | | 2 21.7 250°81 | 2°9/23.7 | 17 | |
| 1 22 | 10 39.35 | +27 24.6 | 2.558 | 3.417 | 9.3 | 20.9 | 1 22 | 10 41.65 | + 1 44.1 | 1.678 | 2.509 | 14.8 | 20.9 |
| 2 1 | 10 33.30 | +28 23.9 | 2.507 | 3.425 | 7.0 | 20.8 | 2 1 | 10 35.69 | + 1 51.5 | 1.587 | 2.494 | 11.1 | 20.7 |
| 2 11 | 10 25.72 | +29 17.3 | 2.484 | 3.433 | 5.4 | 20.7 | 2 11 | 10 27.36 | + 2 17.0 | 1.520 | 2.478 | 6.9 | 20.4 |
| 2 21 | 10 17.30 | +29 59.3 | 2.491 | 3.440 | 5.4 | 20.7 | 2 21 | 10 17.45 | + 2 58.0 | 1.479 | 2.462 | 3.2 | 20.1 |
| 3 2 | 10 8.88 | +30 25.6 | 2.526 | 3.448 | 7.1 | 20.8 | 3 2 | 10 7.10 | + 3 49.3 | 1.466 | 2.445 | 4.7 | 20.2 |
| 3 12 | 10 1.30 | +30 34.0 | 2.588 | 3.455 | 9.3 | 21.0 | 3 12 | 9 57.60 | + 4 44.0 | 1.482 | 2.428 | 9.2 | 20.4 |
| 3 22 | 9 55.21 | +30 24.9 | 2.674 | 3.462 | 11.5 | 21.1 | 3 22 | 9 50.05 | + 5 35.3 | 1.522 | 2.410 | 13.5 | 20.6 |
| 4 1 | 9 51.07 | +30 0.0 | 2.780 | 3.468 | 13.4 | 21.3 | 4 1 | 9 45.20 | + 6 17.5 | 1.583 | 2.392 | 17.3 | 20.8 |
| 169389 | 2001 <i>VD</i> ₅₀ | | 2 21.7 79°28 | 2°9/24.4 | 18 | | 152448 | 2005 <i>UZ</i> ₄₈₄ | | 2 21.7 226°73 | 1°7/19.9 | 17 | |
| 1 22 | 10 37.60 | + 0 18.0 | 2.278 | 3.094 | 11.9 | 19.9 | 1 22 | 10 39.24 | +13 3.3 | 2.190 | 3.045 | 10.8 | 20.8 |
| 2 1 | 10 32.13 | + 0 16.1 | 2.205 | 3.102 | 9.0 | 19.7 | 2 1 | 10 33.51 | +14 1.5 | 2.107 | 3.034 | 7.6 | 20.6 |
| 2 11 | 10 25.14 | + 0 27.8 | 2.158 | 3.109 | 5.8 | 19.5 | 2 11 | 10 26.00 | +15 6.8 | 2.052 | 3.023 | 4.0 | 20.3 |
| 2 21 | 10 17.27 | + 0 51.2 | 2.139 | 3.117 | 3.2 | 19.3 | 2 21 | 10 17.36 | +16 13.4 | 2.026 | 3.012 | 1.8 | 20.1 |
| 3 2 | 10 9.32 | + 1 22.9 | 2.149 | 3.125 | 3.8 | 19.4 | 3 2 | 10 8.48 | +17 14.8 | 2.030 | 2.999 | 4.8 | 20.3 |
| 3 12 | 10 2.11 | + 1 58.4 | 2.188 | 3.132 | 6.8 | 19.6 | 3 12 | 10 0.32 | +18 5.5 | 2.063 | 2.986 | 8.5 | 20.5 |
| 3 22 | 9 56.31 | + 2 33.3 | 2.253 | 3.140 | 9.8 | 19.8 | 3 22 | 9 53.68 | +18 42.3 | 2.122 | 2.973 | 11.8 | 20.7 |
| 4 1 | 9 52.40 | + 3 3.8 | 2.343 | 3.147 | 12.5 | 20.0 | 4 1 | 9 49.14 | +19 3.6 | 2.202 | 2.959 | 14.7 | 20.9 |
| 496280 | 2012 <i>UF</i> ₄₇ | | 2 21.7 105°15 | 2°3/19.1 | 17 | | 378277 | 2007 <i>EU</i> ₆₉ | | 2 21.7 258°35 | 4°5/18.0 | 18 | |
| 1 22 | 10 37.89 | +17 4.2 | 2.566 | 3.424 | 9.3 | 21.6 | 1 22 | 10 42.83 | +22 13.3 | 1.943 | 2.807 | 11.6 | 20.5 |
| 2 1 | 10 32.16 | +17 50.8 | 2.512 | 3.440 | 6.5 | 21.5 | 2 1 | 10 36.20 | +22 55.2 | 1.871 | 2.799 | 8.3 | 20.3 |
| 2 11 | 10 25.08 | +18 38.7 | 2.486 | 3.456 | 3.6 | 21.3 | 2 11 | 10 27.46 | +23 34.9 | 1.826 | 2.790 | 5.4 | 20.1 |
| 2 21 | 10 17.27 | +19 23.3 | 2.491 | 3.472 | 2.4 | 21.3 | 2 21 | 10 17.45 | +24 5.6 | 1.809 | 2.781 | 4.7 | 20.0 |
| 3 2 | 10 9.46 | +20 0.0 | 2.525 | 3.487 | 4.6 | 21.4 | 3 2 | 10 7.29 | +24 21.5 | 1.821 | 2.772 | 7.1 | 20.1 |
| 3 12 | 10 2.43 | +20 25.7 | 2.589 | 3.502 | 7.4 | 21.6 | 3 12 | 9 58.14 | +24 19.5 | 1.859 | 2.763 | 10.5 | 20.3 |
| 3 22 | 9 56.74 | +20 39.1 | 2.678 | 3.517 | 10.1 | 21.8 | 3 22 | 9 50.93 | +23 59.4 | 1.922 | 2.753 | 13.7 | 20.5 |
| 4 1 | 9 52.81 | +20 40.0 | 2.790 | 3.531 | 12.2 | 22.0 | 4 1 | 9 46.24 | +23 23.0 | 2.004 | 2.744 | 16.5 | 20.7 |
| 117095 | 2004 <i>NS</i> ₁₇ | | 2 21.7 231°03 | 4°9/15.9 | 17 | | 490668 | 2010 <i>JK</i> ₂₉ | | 2 21.7 242°67 | 1°6/20.4 | 17 | |
| 1 22 | 10 | | | | | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 229092 | 2004 <i>PL</i> ₉₅ | | 2 21.7 221°89 | 2°9/24.5 | 17 | | 123763 | 2001 <i>AH</i> ₄₂ | | 2 21.7 315°63 | 13°3/7.7 | 18 | |
| 1 22 | 10 38.88 | — 0 38.0 | 2.393 | 3.200 | 11.7 | 21.6 | 1 22 | 10 36.84 | +27 35.3 | 0.948 | 1.849 | 17.1 | 18.1 |
| 2 1 | 10 33.12 | — 0 27.6 | 2.299 | 3.190 | 8.9 | 21.4 | 2 1 | 10 33.93 | +32 23.2 | 0.904 | 1.837 | 14.0 | 17.9 |
| 2 11 | 10 25.75 | — 0 2.5 | 2.230 | 3.179 | 5.8 | 21.2 | 2 11 | 10 27.15 | +37 9.3 | 0.885 | 1.826 | 13.5 | 17.8 |
| 2 21 | 10 17.35 | + 0 35.2 | 2.190 | 3.168 | 3.2 | 21.0 | 2 21 | 10 17.52 | +41 20.5 | 0.892 | 1.815 | 16.0 | 17.9 |
| 3 2 | 10 8.71 | + 1 22.1 | 2.181 | 3.156 | 3.8 | 21.0 | 3 2 | 10 7.01 | +44 30.9 | 0.920 | 1.804 | 20.0 | 18.1 |
| 3 12 | 10 0.69 | + 2 13.2 | 2.201 | 3.144 | 6.8 | 21.2 | 3 12 | 9 58.15 | +46 30.7 | 0.967 | 1.794 | 24.1 | 18.3 |
| 3 22 | 9 54.00 | + 3 3.7 | 2.248 | 3.130 | 10.0 | 21.4 | 3 22 | 9 52.90 | +47 24.4 | 1.026 | 1.785 | 27.6 | 18.5 |
| 4 1 | 9 49.19 | + 3 49.2 | 2.319 | 3.116 | 12.9 | 21.6 | 4 1 | 9 52.35 | +47 23.2 | 1.094 | 1.777 | 30.3 | 18.8 |
| 499466 | 2010 <i>GE</i> ₁₀₁ | | 2 21.7 346°86 | 5°1/16.6 | 17 | | 181311 | 2006 <i>QW</i> ₃₅ | | 2 21.7 186°58 | 2°5/19.0 | 18 | |
| 1 22 | 10 38.40 | +23 55.3 | 2.037 | 2.907 | 10.8 | 20.9 | 1 22 | 10 39.51 | +18 35.4 | 2.669 | 3.525 | 9.1 | 20.7 |
| 2 1 | 10 32.99 | +25 3.2 | 1.978 | 2.905 | 7.9 | 20.8 | 2 1 | 10 33.38 | +19 8.4 | 2.599 | 3.525 | 6.4 | 20.5 |
| 2 11 | 10 25.72 | +26 8.1 | 1.945 | 2.904 | 5.6 | 20.6 | 2 11 | 10 25.82 | +19 41.8 | 2.556 | 3.524 | 3.7 | 20.3 |
| 2 21 | 10 17.36 | +27 2.8 | 1.939 | 2.902 | 5.4 | 20.6 | 2 21 | 10 17.43 | +20 11.2 | 2.544 | 3.523 | 2.6 | 20.2 |
| 3 2 | 10 8.90 | +27 41.0 | 1.962 | 2.901 | 7.6 | 20.7 | 3 2 | 10 8.98 | +20 32.6 | 2.562 | 3.522 | 4.7 | 20.4 |
| 3 12 | 10 1.37 | +27 59.2 | 2.011 | 2.900 | 10.6 | 20.9 | 3 12 | 10 1.22 | +20 43.5 | 2.609 | 3.520 | 7.5 | 20.6 |
| 3 22 | 9 55.59 | +27 57.2 | 2.083 | 2.899 | 13.4 | 21.1 | 3 22 | 9 54.80 | +20 42.5 | 2.683 | 3.518 | 10.1 | 20.7 |
| 4 1 | 9 52.08 | +27 36.4 | 2.175 | 2.898 | 15.8 | 21.3 | 4 1 | 9 50.17 | +20 29.9 | 2.779 | 3.516 | 12.4 | 20.9 |
| 339566 | 2005 <i>KF</i> ₈ | | 2 21.7 323°19 | 6°2/15.2 | 18 | | 434413 | 2005 <i>JB</i> ₁₄₈ | | 2 21.7 273°26 | 9°0/9.9 | 17 | |
| 1 22 | 10 37.69 | +26 4.8 | 1.972 | 2.844 | 11.1 | 19.7 | 1 22 | 10 40.11 | +37 35.0 | 2.237 | 3.086 | 10.9 | 20.7 |
| 2 1 | 10 32.64 | +27 31.6 | 1.912 | 2.837 | 8.3 | 19.5 | 2 1 | 10 34.44 | +39 26.5 | 2.188 | 3.076 | 9.5 | 20.6 |
| 2 11 | 10 25.60 | +28 54.5 | 1.877 | 2.830 | 6.4 | 19.4 | 2 11 | 10 26.63 | +41 5.2 | 2.165 | 3.066 | 9.0 | 20.5 |
| 2 21 | 10 17.35 | +30 4.9 | 1.870 | 2.823 | 6.6 | 19.4 | 2 21 | 10 17.49 | +42 22.4 | 2.169 | 3.056 | 9.7 | 20.5 |
| 3 2 | 10 8.94 | +30 55.5 | 1.890 | 2.816 | 8.8 | 19.5 | 3 2 | 10 8.11 | +43 11.8 | 2.198 | 3.046 | 11.4 | 20.6 |
| 3 12 | 10 1.45 | +31 22.5 | 1.936 | 2.810 | 11.6 | 19.7 | 3 12 | 9 59.69 | +43 31.4 | 2.250 | 3.036 | 13.3 | 20.7 |
| 3 22 | 9 55.76 | +31 25.6 | 2.004 | 2.804 | 14.4 | 19.9 | 3 22 | 9 53.16 | +43 22.8 | 2.321 | 3.026 | 15.3 | 20.9 |
| 4 1 | 9 52.47 | +31 6.8 | 2.090 | 2.798 | 16.8 | 20.0 | 4 1 | 9 49.16 | +42 49.9 | 2.407 | 3.016 | 16.9 | 21.0 |
| 96698 | 1999 <i>JA</i> ₈₀ | | 2 21.7 344°20 | 5°1/17.7 | 18 | | 54456 | 2000 <i>NJ</i> ₁₇ | | 2 21.7 35°84 | 0°5/21.3 | 18 | |
| 1 22 | 10 40.02 | +18 50.3 | 1.369 | 2.250 | 14.4 | 18.6 | 1 22 | 10 41.18 | +12 11.3 | 2.204 | 3.053 | 11.0 | 18.7 |
| 2 1 | 10 34.80 | +20 17.9 | 1.311 | 2.248 | 10.2 | 18.3 | 2 1 | 10 34.73 | +12 12.3 | 2.132 | 3.055 | 7.7 | 18.5 |
| 2 11 | 10 26.93 | +21 49.3 | 1.276 | 2.246 | 6.3 | 18.1 | 2 11 | 10 26.59 | +12 17.9 | 2.086 | 3.057 | 4.1 | 18.3 |
| 2 21 | 10 17.44 | +23 13.0 | 1.268 | 2.244 | 5.4 | 18.0 | 2 21 | 10 17.49 | +12 24.7 | 2.070 | 3.059 | 0.5 | 18.0 |
| 3 2 | 10 7.76 | +24 18.3 | 1.286 | 2.243 | 8.7 | 18.2 | 3 2 | 10 8.32 | +12 29.1 | 2.084 | 3.060 | 3.9 | 18.3 |
| 3 12 | 9 59.41 | +24 58.2 | 1.328 | 2.241 | 13.0 | 18.4 | 3 12 | 10 0.00 | +12 28.2 | 2.127 | 3.062 | 7.5 | 18.5 |
| 3 22 | 9 53.51 | +25 11.3 | 1.392 | 2.241 | 17.0 | 18.7 | 3 22 | 9 53.28 | +12 20.1 | 2.197 | 3.065 | 10.8 | 18.7 |
| 4 1 | 9 50.73 | +24 59.3 | 1.472 | 2.240 | 20.3 | 18.9 | 4 1 | 9 48.65 | +12 4.1 | 2.289 | 3.067 | 13.6 | 18.9 |
| 428954 | 2008 <i>YG</i> ₄₂ | | 2 21.7 48°55 | 5°5/16.4 | 18 | | 142707 | 2002 <i>TV</i> ₂₅₉ | | 2 21.7 62°85 | 2°3/20.0 | 18 | |
| 1 22 | 10 39.24 | +24 37.0 | 1.947 | 2.817 | 11.3 | 20.7 | 1 22 | 10 42.08 | +14 16.8 | 1.498 | 2.367 | 14.1 | 20.3 |
| 2 1 | 10 33.59 | +25 48.2 | 1.896 | 2.823 | 8.3 | 20.5 | 2 1 | 10 35.80 | +15 0.2 | 1.452 | 2.385 | 9.8 | 20.0 |
| 2 11 | 10 26.03 | +26 55.2 | 1.872 | 2.830 | 5.9 | 20.4 | 2 11 | 10 27.26 | +15 49.2 | 1.430 | 2.403 | 5.2 | 19.8 |
| 2 21 | 10 17.39 | +27 50.2 | 1.876 | 2.836 | 5.8 | 20.4 | 2 21 | 10 17.53 | +16 36.1 | 1.435 | 2.421 | 2.3 | 19.7 |
| 3 2 | 10 8.72 | +28 27.0 | 1.907 | 2.843 | 8.0 | 20.5 | 3 2 | 10 7.90 | +17 13.6 | 1.468 | 2.439 | 5.9 | 19.9 |
| 3 12 | 10 1.10 | +28 42.6 | 1.964 | 2.850 | 10.9 | 20.7 | 3 12 | 9 59.65 | +17 36.7 | 1.527 | 2.458 | 10.3 | 20.2 |
| 3 22 | 9 55.34 | +28 37.0 | 2.044 | 2.857 | 13.7 | 20.9 | 3 22 | 9 53.68 | +17 43.6 | 1.609 | 2.476 | 14.1 | 20.5 |
| 4 1 | 9 51.94 | +28 12.4 | 2.143 | 2.864 | 16.0 | 21.1 | 4 1 | 9 50.48 | +17 34.6 | 1.711 | 2.495 | 17.3 | 20.8 |
| 370770 | 2004 <i>RK</i> ₃₀₄ | | 2 21.7 138°04 | 2°5/23.9 | 16 | | 214646 | 2006 <i>SA</i> ₆₇ | | 2 21.7 20°01 | 0°2/21.8 | 17 | |
| 1 22 | 10 37.83 | + 1 0.7 | 1.997 | 2.823 | 13.0 | 22.0 | 1 22 | 10 36.14 | + 8 8.1 | 1.871 | 2.726 | 12.4 | 20.3 |
| 2 1 | 10 32.52 | + 1 24.0 | 1.923 | 2.827 | 9.7 | 21.8 | 2 1 | 10 31.40 | + 8 38.5 | 1.807 | 2.732 | 8.8 | 20.1 |
| 2 11 | 10 25.46 | + 2 3.5 | 1.873 | 2.830 | 6.0 | 21.6 | 2 11 | 10 24.90 | + 9 19.6 | 1.768 | 2.738 | 4.7 | 19.8 |
| 2 21 | 10 17.36 | + 2 56.0 | 1.851 | 2.834 | 2.8 | 21.4 | 2 21 | 10 17.38 | +10 6.5 | 1.756 | 2.745 | 0.4 | 19.5 |
| 3 2 | 10 9.13 | + 3 56.1 | 1.858 | 2.837 | 3.9 | 21.5 | 3 2 | 10 9.79 | +10 53.5 | 1.773 | 2.752 | 4.0 | 19.8 |
| 3 12 | 10 1.72 | + 4 57.6 | 1.894 | 2.841 | 7.5 | 21.7 | 3 12 | 10 3.10 | +11 35.0 | 1.817 | 2.760 | 8.0 | 20.1 |
| 3 22 | 9 55.90 | + 5 54.7 | 1.956 | 2.844 | 11.0 | 21.9 | 3 22 | 9 58.07 | +12 6.8 | 1.887 | 2.768 | 11.7 | 20.3 |
| 4 1 | 9 52.21 | + 6 42.9 | 2.041 | 2.847 | 14.1 | 22.1 | 4 1 | 9 55.21 | +12 26.6 | 1.978 | 2.777 | 14.7 | 20.5 |
| 208332 | 2001 <i>QE</i> ₁₃₅ | | 2 21.7 135°42 | 1°5/23.2 | 17 | | 221067 | 2005 <i>RJ</i> ₂₀ | | 2 21.7 175°74 | 6°5/27.8 | 16 | |
| 1 22 | 10 38.64 | + 4 20.3 | 2.747 | 3.570 | 9.9 | 20.9 | 1 22 | 10 39.35 | —10 25.6 | 2.172 | 2.933 | 14.2 | 20.7 |
| 2 1 | 10 32.65 | + 4 26.2 | 2.676 | 3.581 | 7.2 | 20.7 | 2 1 | 10 33.57 | —10 42.8 | 2.089 | 2.935 | 11.7 | 20.6 |
| 2 11 | 10 25.37 | + 4 41.2 | 2.632 | 3.592 | 4.3 | 20.6 | 2 11 | 10 26.06 | —10 38.2 | 2.028 | 2.936 | 9.1 | 20.4 |
| 2 21 | 10 17.37 | + 5 2.7 | 2.617 | 3.602 | 1.6 | 20.4 | 2 21 | 10 17.47 | —10 11.5 | 1.993 | 2.937 | 7.0 | 20.3 |
| 3 2 | 10 9.33 | + 5 27.8 | 2.634 | 3.613 | 2.9 | 20.5 | 3 2 | 10 8.67 | — 9 25.3 | 1.986 | 2.938 | 6.6 | 20.2 |
| 3 12 | 10 1.94 | + 5 53.2 | 2.681 | 3.622 | 5.9 | 20.7 | 3 12 | 10 0.61 | — 8 24.6 | 2.007 | 2.938 | 8.2 | 20.3 |
| 3 22 | 9 55.77 | + 6 15.8 | 2.756 | 3.632 | 8.6 | 20.9 | 3 22 | 9 54.08 | — 7 16.2 | 2.055 | 2.938 | 10.8 | 20.5 |
| 4 1 | 9 51.23 | + 6 33.2 | 2.856 | 3.641 | 11.0 | 21.1 | 4 1 | 9 49.62 | — 6 6.9 | 2.126 | 2.937 | 13.4 | 20.7 |
| 101750 | 1999 <i>FA</i> ₁₇ | | 2 21.7 288°31 | 1°1/22.8 | 18 | | 196494 | 2003 <i>KF</i> ₃₃ | | 2 21.7 10°73 | 2°6/19.9 | 18 | |
| 1 22 | 10 35.53 | + 4 37.3 | 2.172 | 3.010 | 11.6 | 19.8 | 1 22 | 10 37.88 | +12 46.2 | 1.070 | 1.958 | 16.9 | 20.1 |
| 2 1 | 10 30.91 | + 5 15.9 | 2.083 | 2.998 | 8.4 | 19.6 | 2 1 | 10 33.62 | +13 47.6 | 1.018 | 1.959 | 11.8 | 19.8 |
| 2 11 | 10 24.64 | + 6 8.0 | 2.020 | 2.985 | 4.8 | 19.3 | 2 11 | 10 26.44 | +15 1.2 | 0.986 | 1.962 | 6.2 | 19.5 |
| 2 21 | 10 17.33 | + 7 9.7 | 1.985 | 2.973 | 1.3 | 19.0 | 2 21 | 10 17.49 | +16 16.2 | 0.979 | 1.965 | 2.7 | 19.3 |
| 3 2 | 10 9.78 | + 8 15.6 | 1.980 | 2.960 | 3.5 | 19.2 | 3 2 | 10 8.42 | +17 20.7 | 0.995 | 1.970 | 7.3 | 19.6 |
| 3 12 | 10 2.89 | + 9 19.6 | 2.004 | 2.947 | 7.3 | 19.4 | 3 12 | 10 0.92 | +18 5.5 | 1.035 | 1.976 | 12.8 | 19.9 |
| 3 22 | 9 57.39 | +10 16.4 | 2.054 | 2.935 | 10.9 | 19.6 | 3 22 | 9 56.20 | +18 26.6 | 1.095 | 1.983 | 17.6 | 20.2 |
| 4 1 | 9 53.84 | +11 2.3 | 2.126 | 2.923 | 13.9 | 19.8 | 4 1 | 9 54.89 | +18 23.9 | 1.171 | 1.991 | 21.6 | 20.5 |
| 282676 | 2005 <i>WO</i> ₉₃ | | 2 21.7 146°71 | 0°9/21.0 | 18 | | 73142 | 2002 <i>GU</i> ₈₇ | | 2 21.7 123°23 | 0°3/21.4 | 18 | </ |

EPHEMERIDES

2 21.7

2 21.7

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 87951 | 2000 SZ ₃₆₈ | | 2 21.7 173°06 | 1°5/23.0 | 16 | | 458891 | 2011 UG ₁₇₉ | | 2 21.7 61°29 | 6°2/17.3 | 18 | |
| 1 22 | 10 41.06 | + 4 54.1 | 2.386 | 3.212 | 11.1 | 20.7 | 1 22 | 10 43.29 | +22 17.8 | 1.339 | 2.219 | 14.7 | 20.7 |
| 2 1 | 10 34.57 | + 4 59.8 | 2.307 | 3.215 | 8.1 | 20.5 | 2 1 | 10 36.90 | +23 40.8 | 1.304 | 2.238 | 10.6 | 20.5 |
| 2 11 | 10 26.50 | + 5 15.5 | 2.256 | 3.217 | 4.7 | 20.3 | 2 11 | 10 27.93 | +24 59.9 | 1.294 | 2.258 | 7.1 | 20.3 |
| 2 21 | 10 17.51 | + 5 38.5 | 2.233 | 3.219 | 1.6 | 20.1 | 2 21 | 10 17.62 | +26 3.7 | 1.308 | 2.278 | 6.5 | 20.4 |
| 3 2 | 10 8.39 | + 6 5.3 | 2.242 | 3.221 | 3.3 | 20.2 | 3 2 | 10 7.50 | +26 43.9 | 1.349 | 2.298 | 9.4 | 20.6 |
| 3 12 | 10 0.01 | + 6 31.9 | 2.281 | 3.222 | 6.8 | 20.4 | 3 12 | 9 59.04 | +26 56.9 | 1.414 | 2.318 | 13.1 | 20.8 |
| 3 22 | 9 53.07 | + 6 55.0 | 2.347 | 3.222 | 9.9 | 20.6 | 3 22 | 9 53.22 | +26 44.2 | 1.500 | 2.338 | 16.6 | 21.1 |
| 4 1 | 9 48.06 | + 7 11.7 | 2.437 | 3.222 | 12.7 | 20.8 | 4 1 | 9 50.51 | +26 9.9 | 1.604 | 2.358 | 19.4 | 21.4 |
| 265221 | 2004 CX ₇₁ | | 2 21.7 309°83 | 4°8/18.8 | 18 | | 194496 | 2001 WY ₇₇ | | 2 21.7 27°35 | 1°3/20.9 | 18 | |
| 1 22 | 10 45.16 | +21 31.0 | 1.508 | 2.379 | 13.9 | 20.1 | 1 22 | 10 39.85 | +10 51.8 | 1.116 | 1.995 | 17.0 | 20.0 |
| 2 1 | 10 38.39 | +21 57.8 | 1.434 | 2.365 | 10.0 | 19.8 | 2 1 | 10 34.85 | +11 32.5 | 1.066 | 2.003 | 11.9 | 19.8 |
| 2 11 | 10 28.88 | +22 22.2 | 1.385 | 2.352 | 6.2 | 19.5 | 2 11 | 10 27.03 | +12 26.2 | 1.038 | 2.012 | 6.2 | 19.5 |
| 2 21 | 10 17.67 | +22 36.2 | 1.362 | 2.339 | 4.9 | 19.4 | 2 21 | 10 17.57 | +13 24.1 | 1.033 | 2.021 | 1.3 | 19.2 |
| 3 2 | 10 6.20 | +22 33.3 | 1.366 | 2.326 | 7.9 | 19.6 | 3 2 | 10 8.08 | +14 16.1 | 1.054 | 2.032 | 6.3 | 19.5 |
| 3 12 | 9 56.02 | +22 10.1 | 1.395 | 2.313 | 12.2 | 19.8 | 3 12 | 10 0.21 | +14 53.9 | 1.098 | 2.043 | 11.8 | 19.9 |
| 3 22 | 9 48.33 | + 6 21.7 | 1.447 | 2.301 | 16.2 | 20.0 | 3 22 | 9 55.06 | +15 13.4 | 1.163 | 2.055 | 16.5 | 20.2 |
| 4 1 | 9 43.83 | +20 28.0 | 1.518 | 2.289 | 19.7 | 20.2 | 4 1 | 9 53.24 | +15 13.5 | 1.247 | 2.068 | 20.4 | 20.5 |
| 246405 | 2007 UH ₉₆ | | 2 21.7 181°93 | 5°1/16.4 | 17 | | 269614 | 2010 DU ₅₂ | | 2 21.7 71°17 | 0°9/22.7 | 18 | |
| 1 22 | 10 39.65 | +25 37.8 | 2.303 | 3.167 | 10.0 | 20.7 | 1 22 | 10 34.88 | + 4 10.7 | 2.251 | 3.088 | 11.3 | 20.6 |
| 2 1 | 10 33.73 | +26 36.8 | 2.245 | 3.167 | 7.4 | 20.5 | 2 1 | 10 30.33 | + 5 7.2 | 2.179 | 3.093 | 8.1 | 20.4 |
| 2 11 | 10 26.10 | +27 31.3 | 2.213 | 3.167 | 5.4 | 20.4 | 2 11 | 10 24.30 | + 6 17.1 | 2.133 | 3.098 | 4.6 | 20.2 |
| 2 21 | 10 17.49 | +28 15.0 | 2.209 | 3.167 | 5.3 | 20.4 | 2 21 | 10 17.39 | + 7 35.6 | 2.115 | 3.103 | 1.1 | 19.9 |
| 3 2 | 10 8.81 | +28 42.9 | 2.235 | 3.167 | 7.3 | 20.5 | 3 2 | 10 10.37 | + 8 56.6 | 2.128 | 3.108 | 3.3 | 20.1 |
| 3 12 | 10 1.01 | +28 52.3 | 2.287 | 3.167 | 9.8 | 20.6 | 3 12 | 10 4.05 | +10 13.8 | 2.171 | 3.113 | 6.9 | 20.4 |
| 3 22 | 9 54.82 | +28 43.2 | 2.363 | 3.166 | 12.4 | 20.8 | 3 22 | 9 59.09 | +11 22.1 | 2.240 | 3.118 | 10.2 | 20.6 |
| 4 1 | 9 50.75 | +28 17.3 | 2.459 | 3.166 | 14.5 | 21.0 | 4 1 | 9 55.96 | +12 17.8 | 2.332 | 3.124 | 13.0 | 20.8 |
| 218046 | 2002 CP ₁₂₀ | | 2 21.7 94°09 | 0°7/22.3 | 18 | | 357374 | 2003 ST ₂₃₂ | | 2 21.7 189°14 | 2°6/19.5 | 18 | |
| 1 22 | 10 40.90 | + 6 42.0 | 1.954 | 2.795 | 12.5 | 20.8 | 1 22 | 10 43.47 | +16 6.9 | 2.020 | 2.877 | 11.5 | 21.3 |
| 2 1 | 10 34.57 | + 7 8.6 | 1.900 | 2.817 | 8.9 | 20.6 | 2 1 | 10 36.57 | +16 54.4 | 1.949 | 2.876 | 8.1 | 21.1 |
| 2 11 | 10 26.51 | + 7 46.0 | 1.871 | 2.838 | 4.9 | 20.4 | 2 11 | 10 27.69 | +17 45.4 | 1.905 | 2.875 | 4.4 | 20.9 |
| 2 21 | 10 17.51 | + 8 29.6 | 1.870 | 2.859 | 0.9 | 20.2 | 2 21 | 10 17.62 | +18 33.5 | 1.889 | 2.872 | 2.6 | 20.8 |
| 3 2 | 10 8.57 | + 9 14.1 | 1.900 | 2.879 | 3.8 | 20.4 | 3 2 | 10 7.40 | +19 12.7 | 1.904 | 2.869 | 5.5 | 20.9 |
| 3 12 | 10 0.64 | + 9 54.2 | 1.958 | 2.899 | 7.7 | 20.7 | 3 12 | 9 58.12 | +19 38.5 | 1.948 | 2.866 | 9.2 | 21.1 |
| 3 22 | 9 54.46 | +10 26.1 | 2.042 | 2.919 | 11.1 | 21.0 | 3 22 | 9 50.66 | +19 49.1 | 2.016 | 2.861 | 12.6 | 21.4 |
| 4 1 | 9 50.49 | +10 47.4 | 2.148 | 2.938 | 14.0 | 21.2 | 4 1 | 9 45.58 | +19 44.5 | 2.106 | 2.856 | 15.5 | 21.5 |
| 54382 | 2000 KM ₆₂ | | 2 21.7 138°83 | 0°3/22.1 | 18 | | 209008 | 2003 BG ₅₃ | | 2 21.7 46°67 | 0°4/21.3 | 18 | |
| 1 22 | 10 36.06 | + 6 20.7 | 2.603 | 3.439 | 10.0 | 19.0 | 1 22 | 10 36.23 | + 9 22.2 | 2.060 | 2.914 | 11.5 | 20.2 |
| 2 1 | 10 30.96 | + 7 11.6 | 2.533 | 3.448 | 7.1 | 18.8 | 2 1 | 10 31.35 | +10 7.1 | 1.997 | 2.922 | 8.0 | 20.0 |
| 2 11 | 10 24.55 | + 8 12.2 | 2.490 | 3.457 | 3.8 | 18.6 | 2 11 | 10 24.85 | +11 1.1 | 1.960 | 2.931 | 4.2 | 19.8 |
| 2 21 | 10 17.39 | + 9 18.3 | 2.477 | 3.466 | 0.5 | 18.4 | 2 21 | 10 17.43 | +11 59.0 | 1.952 | 2.940 | 0.4 | 19.5 |
| 3 2 | 10 10.15 | +10 24.8 | 2.495 | 3.474 | 3.1 | 18.6 | 3 2 | 10 9.94 | +12 54.9 | 1.972 | 2.949 | 4.0 | 19.8 |
| 3 12 | 10 3.55 | +11 27.0 | 2.544 | 3.482 | 6.3 | 18.8 | 3 12 | 10 3.28 | +13 43.4 | 2.021 | 2.959 | 7.7 | 20.0 |
| 3 22 | 9 58.17 | +12 20.8 | 2.620 | 3.489 | 9.2 | 19.0 | 3 22 | 9 58.16 | +14 20.9 | 2.096 | 2.968 | 11.1 | 20.3 |
| 4 1 | 9 54.43 | +13 3.9 | 2.720 | 3.497 | 11.7 | 19.2 | 4 1 | 9 55.05 | +14 45.3 | 2.193 | 2.978 | 13.9 | 20.5 |
| 20371 | Ekladyous | | 2 21.7 207°12 | 3°1/24.6 | 18 | | 294830 | 2008 CV ₁₄₃ | | 2 21.7 179°28 | 0°1/21.6 | 18 | |
| 1 22 | 10 38.28 | - 0 29.3 | 2.122 | 2.937 | 12.7 | 19.1 | 1 22 | 10 41.52 | + 9 32.3 | 1.801 | 2.653 | 13.0 | 21.0 |
| 2 1 | 10 32.84 | - 0 21.5 | 2.039 | 2.935 | 9.6 | 18.9 | 2 1 | 10 35.32 | + 9 53.1 | 1.730 | 2.654 | 9.2 | 20.7 |
| 2 11 | 10 25.68 | + 0 2.3 | 1.981 | 2.932 | 6.3 | 18.7 | 2 11 | 10 27.07 | +10 23.3 | 1.684 | 2.654 | 4.9 | 20.5 |
| 2 21 | 10 17.47 | + 0 39.8 | 1.951 | 2.929 | 3.5 | 18.5 | 2 21 | 10 17.58 | +10 58.1 | 1.665 | 2.654 | 0.3 | 20.1 |
| 3 2 | 10 9.07 | + 1 27.1 | 1.950 | 2.926 | 4.1 | 18.6 | 3 2 | 10 7.95 | +11 32.0 | 1.676 | 2.654 | 4.3 | 20.4 |
| 3 12 | 10 1.41 | + 2 18.7 | 1.978 | 2.923 | 7.3 | 18.7 | 3 12 | 9 59.31 | +11 59.7 | 1.714 | 2.654 | 8.7 | 20.7 |
| 3 22 | 9 55.24 | + 3 9.1 | 2.032 | 2.919 | 10.7 | 18.9 | 3 22 | 9 52.55 | +12 17.7 | 1.778 | 2.653 | 12.6 | 20.9 |
| 4 1 | 9 51.13 | + 3 53.6 | 2.109 | 2.916 | 13.7 | 19.1 | 4 1 | 9 48.28 | +12 24.1 | 1.863 | 2.653 | 15.8 | 21.1 |
| 432508 | 2010 FA ₄ | | 2 21.7 191°06 | 0°6/20.9 | 17 | | 465887 | 2010 TT ₁₆₈ | | 2 21.7 91°66 | 1°8/20.5 | 18 | |
| 1 22 | 10 36.45 | + 9 53.0 | 2.371 | 3.221 | 10.3 | 21.4 | 1 22 | 10 45.79 | +14 54.8 | 1.733 | 2.591 | 13.1 | 21.3 |
| 2 1 | 10 31.40 | +10 45.9 | 2.296 | 3.220 | 7.2 | 21.2 | 2 1 | 10 38.17 | +15 10.3 | 1.681 | 2.609 | 9.1 | 21.1 |
| 2 11 | 10 24.86 | +11 47.1 | 2.248 | 3.219 | 3.8 | 20.9 | 2 11 | 10 28.47 | +15 29.0 | 1.655 | 2.626 | 4.8 | 20.9 |
| 2 21 | 10 17.41 | +12 51.8 | 2.229 | 3.218 | 0.6 | 20.7 | 2 21 | 10 17.66 | +15 45.4 | 1.657 | 2.644 | 1.8 | 20.7 |
| 3 2 | 10 9.84 | +13 54.3 | 2.241 | 3.216 | 3.8 | 20.9 | 3 2 | 10 6.99 | +15 54.6 | 1.689 | 2.661 | 5.2 | 21.0 |
| 3 12 | 10 2.94 | +14 49.7 | 2.282 | 3.215 | 7.3 | 21.2 | 3 12 | 9 57.63 | +15 53.5 | 1.748 | 2.678 | 9.3 | 21.3 |
| 3 22 | 9 57.37 | +15 34.1 | 2.350 | 3.213 | 10.4 | 21.4 | 3 22 | 9 50.43 | +15 40.9 | 1.833 | 2.695 | 12.9 | 21.5 |
| 4 1 | 9 53.63 | +16 5.7 | 2.440 | 3.211 | 13.0 | 21.5 | 4 1 | 9 45.88 | +15 17.3 | 1.938 | 2.711 | 15.9 | 21.8 |
| 245181 | 2004 TD ₁₇₆ | | 2 21.7 108°51 | 2°4/19.9 | 18 | | 303733 | 2005 QV ₅₇ | | 2 21.7 214°36 | 4°2/16.4 | 18 | |
| 1 22 | 10 44.21 | +14 36.7 | 1.634 | 2.496 | 13.5 | 20.7 | 1 22 | 10 39.78 | +26 38.8 | 3.044 | 3.898 | 8.2 | 21.5 |
| 2 1 | 10 37.20 | +15 28.0 | 1.584 | 2.514 | 9.4 | 20.5 | 2 1 | 10 33.54 | +27 24.5 | 2.973 | 3.890 | 6.1 | 21.4 |
| 2 11 | 10 28.00 | +16 24.2 | 1.560 | 2.531 | 5.0 | 20.3 | 2 11 | 10 25.92 | +28 5.9 | 2.931 | 3.881 | 4.5 | 21.3 |
| 2 21 | 10 17.62 | +17 17.7 | 1.564 | 2.549 | 2.5 | 20.2 | 2 21 | 10 17.51 | +28 38.4 | 2.919 | 3.872 | 4.5 | 21.3 |
| 3 2 | 10 7.32 | +18 1.2 | 1.596 | 2.565 | 5.9 | 20.4 | 3 2 | 10 8.99 | +28 58.3 | 2.937 | 3.863 | 6.0 | 21.3 |
| 3 12 | 9 58.33 | +18 29.8 | 1.656 | 2.581 | 10.0 | 20.7 | 3 12 | 10 1.12 | +29 3.6 | 2.983 | 3.854 | 8.1 | 21.5 |
| 3 22 | 9 51.55 | +18 41.7 | 1.740 | 2.597 | 13.7 | 21.0 | 3 22 | 9 54.49 | +28 54.1 | 3.055 | 3.843 | 10.2 | 21.6 |
| 4 1 | 9 47.50 | +18 37.4 | 1.844 | 2.612 | 16.7 | 21.2 | 4 1 | 9 49.55 | +28 30.9 | 3.148 | 3.833 | 12.0 | 21.7 |
| 8638 | 1986 QY | | 2 21.7 60°26 | 2°2/20.1 | 18 | | 489556 | 2007 RN ₃₂₃ | | 2 21.7 153°96 | 3°1/19.2 | 18 | |
| 1 22 | 10 41.28 | +14 44.1 | 1.675 | 2.541 | 13.0 | 17.1 | 1 22 | 10 43.82</ | | | | | |

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2 21.7

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 508586 | 2017 <i>OF</i> ₄₃ | | 2 21.7 170°30 | 4°1/25.6 | 17 | | 364446 | 2006 <i>XR</i> ₄₆ | | 2 21.7 109°07 | 1°1/20.7 | 18 | |
| 1 22 | 10 37.71 | − 3 30.9 | 2.258 | 3.057 | 12.6 | 20.9 | 1 22 | 10 43.04 | +12 6.9 | 2.074 | 2.923 | 11.6 | 21.0 |
| 2 1 | 10 32.35 | − 3 37.5 | 2.177 | 3.058 | 9.8 | 20.8 | 2 1 | 10 35.99 | +12 46.7 | 2.024 | 2.948 | 8.1 | 20.8 |
| 2 11 | 10 25.40 | − 3 27.5 | 2.120 | 3.058 | 6.9 | 20.6 | 2 11 | 10 27.25 | +13 32.0 | 2.001 | 2.972 | 4.2 | 20.6 |
| 2 21 | 10 17.48 | − 3 2.3 | 2.090 | 3.059 | 4.5 | 20.4 | 2 21 | 10 17.63 | +14 17.5 | 2.008 | 2.995 | 1.1 | 20.5 |
| 3 2 | 10 9.40 | − 2 24.8 | 2.089 | 3.059 | 4.6 | 20.4 | 3 2 | 10 8.10 | +14 57.7 | 2.045 | 3.018 | 4.3 | 20.7 |
| 3 12 | 10 2.03 | − 1 39.8 | 2.117 | 3.060 | 7.1 | 20.6 | 3 12 | 9 59.62 | +15 28.5 | 2.111 | 3.040 | 8.0 | 21.0 |
| 3 22 | 9 56.05 | − 0 52.5 | 2.172 | 3.060 | 10.1 | 20.8 | 3 22 | 9 52.89 | +15 47.6 | 2.204 | 3.061 | 11.2 | 21.2 |
| 4 1 | 9 52.01 | − 0 7.9 | 2.250 | 3.060 | 12.8 | 20.9 | 4 1 | 9 48.37 | +15 54.3 | 2.318 | 3.082 | 13.8 | 21.5 |
| 206157 | 2002 <i>TP</i> ₁₇₆ | | 2 21.7 128°05 | 2°6/18.7 | 18 | | 239494 | 2007 <i>VN</i> ₅₂ | | 2 21.7 142°30 | 3°9/17.4 | 18 | |
| 1 22 | 10 37.17 | +16 17.5 | 2.324 | 3.186 | 10.0 | 20.3 | 1 22 | 10 38.38 | +21 52.1 | 2.434 | 3.297 | 9.6 | 20.8 |
| 2 1 | 10 31.92 | +17 29.7 | 2.264 | 3.193 | 7.0 | 20.1 | 2 1 | 10 32.75 | +22 53.6 | 2.376 | 3.303 | 6.8 | 20.6 |
| 2 11 | 10 25.13 | +18 45.3 | 2.231 | 3.201 | 3.9 | 19.9 | 2 11 | 10 25.58 | +23 53.6 | 2.345 | 3.308 | 4.5 | 20.4 |
| 2 21 | 10 17.46 | +19 57.8 | 2.228 | 3.208 | 2.8 | 19.9 | 2 21 | 10 17.52 | +24 46.4 | 2.344 | 3.312 | 4.1 | 20.4 |
| 3 2 | 10 9.71 | +21 1.4 | 2.255 | 3.215 | 5.2 | 20.0 | 3 2 | 10 9.41 | +25 26.7 | 2.372 | 3.317 | 6.1 | 20.6 |
| 3 12 | 10 2.72 | +21 51.3 | 2.311 | 3.222 | 8.3 | 20.2 | 3 12 | 10 2.09 | +25 51.5 | 2.428 | 3.321 | 8.8 | 20.7 |
| 3 22 | 9 57.16 | +22 25.5 | 2.392 | 3.229 | 11.2 | 20.4 | 3 22 | 9 56.21 | +25 59.8 | 2.509 | 3.326 | 11.3 | 20.9 |
| 4 1 | 9 53.51 | +22 43.3 | 2.495 | 3.235 | 13.6 | 20.6 | 4 1 | 9 52.26 | +25 52.4 | 2.611 | 3.330 | 13.5 | 21.1 |
| 35237 | <i>Matzner</i> | | 2 21.7 103°14 | 1°1/20.8 | 18 | | 470363 | 2007 <i>SR</i> ₂₃ | | 2 21.7 196°28 | 4°4/26.2 | 17 | |
| 1 22 | 10 42.13 | +12 32.7 | 2.122 | 2.972 | 11.3 | 19.4 | 1 22 | 10 37.21 | − 5 12.2 | 2.419 | 3.207 | 12.2 | 21.0 |
| 2 1 | 10 35.34 | +13 1.0 | 2.069 | 2.993 | 7.9 | 19.2 | 2 1 | 10 31.94 | − 5 17.0 | 2.334 | 3.205 | 9.6 | 20.8 |
| 2 11 | 10 26.90 | +13 34.2 | 2.043 | 3.014 | 4.1 | 19.0 | 2 11 | 10 25.18 | − 5 5.1 | 2.273 | 3.204 | 6.9 | 20.6 |
| 2 21 | 10 17.59 | +14 7.6 | 2.046 | 3.034 | 1.1 | 18.8 | 2 21 | 10 17.50 | − 4 37.5 | 2.239 | 3.202 | 4.8 | 20.5 |
| 3 2 | 10 8.34 | +14 36.4 | 2.080 | 3.053 | 4.2 | 19.1 | 3 2 | 10 9.66 | − 3 57.0 | 2.234 | 3.201 | 4.7 | 20.5 |
| 3 12 | 10 0.10 | +14 56.9 | 2.142 | 3.073 | 7.8 | 19.3 | 3 12 | 10 2.44 | − 3 8.0 | 2.258 | 3.199 | 6.9 | 20.6 |
| 3 22 | 9 53.54 | +15 7.0 | 2.231 | 3.091 | 11.0 | 19.6 | 3 22 | 9 56.53 | − 2 15.8 | 2.310 | 3.196 | 9.6 | 20.8 |
| 4 1 | 9 49.14 | +15 6.2 | 2.342 | 3.110 | 13.6 | 19.8 | 4 1 | 9 52.41 | − 1 25.3 | 2.385 | 3.194 | 12.2 | 20.9 |
| 360587 | 2003 <i>UE</i> ₄₀₆ | | 2 21.7 233°77 | 4°2/18.2 | 18 | | 122512 | 2000 <i>QB</i> ₂₀₁ | | 2 21.7 188°95 | 1°6/20.3 | 18 | |
| 1 22 | 10 42.96 | +19 40.7 | 1.805 | 2.671 | 12.2 | 21.0 | 1 22 | 10 42.47 | +12 38.7 | 1.977 | 2.830 | 11.9 | 21.0 |
| 2 1 | 10 36.53 | +20 44.2 | 1.731 | 2.661 | 8.7 | 20.8 | 2 1 | 10 35.92 | +13 30.8 | 1.904 | 2.829 | 8.3 | 20.7 |
| 2 11 | 10 27.82 | +21 49.4 | 1.683 | 2.650 | 5.4 | 20.6 | 2 11 | 10 27.39 | +14 30.0 | 1.857 | 2.828 | 4.4 | 20.5 |
| 2 21 | 10 17.66 | +22 48.2 | 1.663 | 2.638 | 4.4 | 20.5 | 2 21 | 10 17.65 | +15 30.3 | 1.839 | 2.826 | 1.6 | 20.3 |
| 3 2 | 10 7.23 | +23 32.7 | 1.671 | 2.626 | 7.3 | 20.6 | 3 2 | 10 7.74 | +16 24.8 | 1.851 | 2.823 | 4.9 | 20.5 |
| 3 12 | 9 57.80 | +23 58.1 | 1.707 | 2.614 | 11.0 | 20.8 | 3 12 | 9 58.73 | +17 8.1 | 1.893 | 2.819 | 8.9 | 20.7 |
| 3 22 | 9 50.39 | +24 2.8 | 1.766 | 2.601 | 14.6 | 21.0 | 3 22 | 9 51.50 | +17 37.0 | 1.959 | 2.814 | 12.5 | 21.0 |
| 4 1 | 9 45.66 | +23 48.0 | 1.844 | 2.588 | 17.6 | 21.2 | 4 1 | 9 46.63 | +17 50.6 | 2.047 | 2.809 | 15.5 | 21.1 |
| 105128 | 2000 <i>MW</i> ₁ | | 2 21.7 137°53 | 4°0/25.2 | 18 | | 354894 | 2006 <i>BP</i> ₂₃₃ | | 2 21.7 93°58 | 2°8/19.6 | 18 | |
| 1 22 | 10 41.14 | − 2 40.1 | 2.222 | 3.020 | 12.8 | 19.9 | 1 22 | 10 42.59 | +13 41.6 | 1.456 | 2.324 | 14.5 | 20.8 |
| 2 1 | 10 34.71 | − 2 50.1 | 2.150 | 3.032 | 9.9 | 19.7 | 2 1 | 10 36.28 | +14 59.2 | 1.410 | 2.343 | 10.0 | 20.5 |
| 2 11 | 10 26.62 | − 2 44.0 | 2.102 | 3.042 | 6.8 | 19.5 | 2 11 | 10 27.62 | +16 24.1 | 1.389 | 2.361 | 5.3 | 20.3 |
| 2 21 | 10 17.58 | − 2 23.4 | 2.082 | 3.053 | 4.3 | 19.4 | 2 21 | 10 17.66 | +17 46.4 | 1.395 | 2.379 | 2.9 | 20.2 |
| 3 2 | 10 8.44 | − 1 51.4 | 2.092 | 3.063 | 4.5 | 19.4 | 3 2 | 10 7.77 | +18 56.6 | 1.429 | 2.397 | 6.5 | 20.5 |
| 3 12 | 10 0.13 | − 1 12.7 | 2.131 | 3.072 | 7.2 | 19.6 | 3 12 | 9 59.28 | +19 47.9 | 1.489 | 2.415 | 10.9 | 20.8 |
| 3 22 | 9 53.34 | − 0 32.2 | 2.198 | 3.081 | 10.2 | 19.8 | 3 22 | 9 53.13 | +20 17.8 | 1.572 | 2.432 | 14.8 | 21.0 |
| 4 1 | 9 48.59 | + 0 5.4 | 2.288 | 3.089 | 12.9 | 20.0 | 4 1 | 9 49.86 | +20 26.9 | 1.675 | 2.449 | 18.0 | 21.3 |
| 42362 | 2002 <i>CY</i> ₁₀₂ | | 2 21.7 151°91 | 1°0/20.7 | 18 | | 108577 | 2001 <i>ML</i> ₆ | | 2 21.7 103°22 | 5°2/25.5 | 18 | |
| 1 22 | 10 38.90 | +11 13.6 | 2.125 | 2.978 | 11.2 | 19.5 | 1 22 | 10 42.93 | − 3 26.8 | 1.837 | 2.640 | 14.9 | 19.4 |
| 2 1 | 10 33.23 | +12 0.0 | 2.058 | 2.983 | 7.8 | 19.3 | 2 1 | 10 36.25 | − 4 1.3 | 1.768 | 2.650 | 11.7 | 19.2 |
| 2 11 | 10 25.87 | +12 53.8 | 2.016 | 2.988 | 4.1 | 19.1 | 2 11 | 10 27.56 | − 4 17.3 | 1.722 | 2.660 | 8.2 | 19.0 |
| 2 21 | 10 17.53 | +13 49.7 | 2.004 | 2.992 | 1.0 | 18.8 | 2 21 | 10 17.67 | − 4 15.0 | 1.703 | 2.670 | 5.6 | 18.8 |
| 3 2 | 10 9.08 | +14 42.0 | 2.022 | 2.996 | 4.2 | 19.1 | 3 2 | 10 7.66 | − 3 57.0 | 1.712 | 2.679 | 5.8 | 18.9 |
| 3 12 | 10 1.47 | +15 25.5 | 2.068 | 2.999 | 8.0 | 19.3 | 3 12 | 9 58.66 | − 3 28.4 | 1.749 | 2.689 | 8.5 | 19.0 |
| 3 22 | 9 55.42 | +15 57.0 | 2.140 | 3.003 | 11.3 | 19.5 | 3 22 | 9 51.52 | − 2 55.0 | 1.811 | 2.698 | 11.8 | 19.3 |
| 4 1 | 9 51.45 | +16 15.2 | 2.234 | 3.006 | 14.1 | 19.7 | 4 1 | 9 46.84 | − 2 22.3 | 1.896 | 2.707 | 14.8 | 19.5 |
| 456001 | 2005 <i>XF</i> ₁₀₉ | | 2 21.7 257°27 | 3°9/18.8 | 18 | | 104993 | 2000 <i>JQ</i> ₈₅ | | 2 21.7 157°03 | 0°4/21.3 | 18 | |
| 1 22 | 10 41.97 | +16 34.7 | 1.413 | 2.288 | 14.4 | 21.4 | 1 22 | 10 40.25 | + 9 34.0 | 2.464 | 3.304 | 10.3 | 21.3 |
| 2 1 | 10 36.20 | +17 45.7 | 1.347 | 2.282 | 10.2 | 21.1 | 2 1 | 10 33.97 | +10 14.7 | 2.395 | 3.314 | 7.2 | 21.1 |
| 2 11 | 10 27.77 | +19 3.0 | 1.305 | 2.277 | 5.8 | 20.8 | 2 11 | 10 26.20 | +11 2.7 | 2.353 | 3.322 | 3.8 | 20.9 |
| 2 21 | 10 17.67 | +20 16.6 | 1.290 | 2.271 | 4.1 | 20.7 | 2 21 | 10 17.58 | +11 53.6 | 2.342 | 3.330 | 0.4 | 20.6 |
| 3 2 | 10 7.30 | +21 16.3 | 1.301 | 2.265 | 7.7 | 20.9 | 3 2 | 10 8.88 | +12 42.7 | 2.362 | 3.338 | 3.5 | 20.9 |
| 3 12 | 9 58.18 | +21 55.0 | 1.338 | 2.260 | 12.3 | 21.1 | 3 12 | 10 0.93 | +13 25.5 | 2.412 | 3.344 | 6.9 | 21.1 |
| 3 22 | 9 51.49 | +22 10.3 | 1.396 | 2.254 | 16.5 | 21.4 | 3 22 | 9 54.37 | +13 59.1 | 2.489 | 3.350 | 10.0 | 21.4 |
| 4 1 | 9 47.93 | +22 3.0 | 1.473 | 2.248 | 20.0 | 21.6 | 4 1 | 9 49.67 | +14 21.6 | 2.590 | 3.354 | 12.5 | 21.5 |
| 211854 | 2004 <i>FX</i> ₁₄₃ | | 2 21.7 289°53 | 5°3/27.5 | 18 | | 135419 | 2001 <i>UN</i> ₃₅ | | 2 21.7 155°69 | 2°0/24.3 | 18 | |
| 1 22 | 10 34.59 | − 8 59.5 | 2.318 | 3.091 | 13.1 | 20.0 | 1 22 | 10 35.43 | + 0 5.4 | 2.806 | 3.615 | 10.1 | 21.0 |
| 2 1 | 10 30.25 | − 8 46.4 | 2.218 | 3.076 | 10.6 | 19.8 | 2 1 | 10 30.50 | + 0 41.7 | 2.727 | 3.622 | 7.5 | 20.8 |
| 2 11 | 10 24.35 | − 8 11.7 | 2.141 | 3.061 | 8.0 | 19.6 | 2 11 | 10 24.33 | + 1 30.8 | 2.675 | 3.627 | 4.7 | 20.6 |
| 2 21 | 10 17.44 | − 7 16.3 | 2.090 | 3.045 | 5.8 | 19.5 | 2 21 | 10 17.46 | + 2 29.7 | 2.652 | 3.633 | 2.3 | 20.5 |
| 3 2 | 10 10.26 | − 6 3.2 | 2.068 | 3.030 | 5.4 | 19.4 | 3 2 | 10 10.50 | + 3 34.5 | 2.660 | 3.638 | 3.0 | 20.5 |
| 3 12 | 10 3.66 | − 4 38.3 | 2.074 | 3.015 | 7.3 | 19.5 | 3 12 | 10 4.10 | + 4 40.4 | 2.699 | 3.643 | 5.7 | 20.7 |
| 3 22 | 9 58.33 | − 3 8.6 | 2.107 | 2.999 | 10.1 | 19.7 | 3 22 | 9 58.80 | + 5 42.9 | 2.766 | 3.647 | 8.4 | 20.9 |
| 4 1 | 9 54.84 | − 1 40.8 | 2.164 | 2.984 | 12.9 | 19.8 | 4 1 | 9 55.01 | + 6 38.5 | 2.858 | 3.651 | 10.8 | 21.1 |
| 231864 | 2000 <i>SD</i> ₂₇₂ | | 2 21.7 156°23 | 5°0/26.5 | 16 | | 309334 | 2007 <i>TJ</i> ₂ | | 2 21.7 22°64 | 2° | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 149890 | 2005 <i>RV</i> ₂₃ | | 2 21.7 232°67 | 2.7/23.9 | 17 | | 512003 | 2015 <i>KM</i> ₁₆₀ | | 2 21.7 248°30 | 3.5/25.2 | 17 | |
| 1 22 | 10 40.50 | + 1 21.3 | 2.120 | 2.939 | 12.5 | 20.7 | 1 22 | 10 36.81 | - 2 12.3 | 2.337 | 3.142 | 12.0 | 21.2 |
| 2 1 | 10 34.50 | + 1 23.7 | 2.028 | 2.928 | 9.5 | 20.5 | 2 1 | 10 31.71 | - 2 11.9 | 2.253 | 3.140 | 9.3 | 21.0 |
| 2 11 | 10 26.66 | + 1 40.4 | 1.962 | 2.917 | 6.0 | 20.3 | 2 11 | 10 25.09 | - 1 56.0 | 2.194 | 3.138 | 6.3 | 20.8 |
| 2 21 | 10 17.63 | + 2 9.3 | 1.924 | 2.905 | 3.0 | 20.0 | 2 21 | 10 17.55 | - 1 26.4 | 2.163 | 3.136 | 3.9 | 20.6 |
| 3 2 | 10 8.32 | + 2 46.7 | 1.916 | 2.893 | 4.0 | 20.1 | 3 2 | 10 9.84 | - 0 46.1 | 2.161 | 3.134 | 4.1 | 20.6 |
| 3 12 | 9 59.71 | + 3 27.6 | 1.936 | 2.880 | 7.5 | 20.3 | 3 12 | 10 2.78 | + 0 0.0 | 2.187 | 3.132 | 6.8 | 20.8 |
| 3 22 | 9 52.63 | + 4 7.0 | 1.983 | 2.867 | 11.1 | 20.5 | 3 22 | 9 57.05 | + 0 47.1 | 2.241 | 3.130 | 9.8 | 21.0 |
| 4 1 | 9 47.70 | + 4 40.6 | 2.053 | 2.853 | 14.2 | 20.6 | 4 1 | 9 53.16 | + 1 30.6 | 2.318 | 3.127 | 12.5 | 21.1 |
| 78937 | 2003 <i>SZ</i> ₁₅₅ | | 2 21.7 228°21 | 1.0/20.9 | 18 | | 495918 | 2005 <i>UY</i> ₄₈₄ | | 2 21.7 152°14 | 2.6/24.6 | 18 | |
| 1 22 | 10 41.78 | +11 6.5 | 1.884 | 2.737 | 12.4 | 20.9 | 1 22 | 10 38.14 | - 1 6.1 | 2.276 | 3.086 | 12.1 | 22.0 |
| 2 1 | 10 35.60 | +11 49.4 | 1.802 | 2.727 | 8.8 | 20.7 | 2 1 | 10 32.63 | - 0 29.1 | 2.201 | 3.094 | 9.1 | 21.8 |
| 2 11 | 10 27.31 | +12 41.6 | 1.745 | 2.716 | 4.6 | 20.4 | 2 11 | 10 25.57 | + 0 24.3 | 2.151 | 3.102 | 5.9 | 21.6 |
| 2 21 | 10 17.69 | +13 37.1 | 1.716 | 2.704 | 1.0 | 20.1 | 2 21 | 10 17.59 | + 1 31.0 | 2.129 | 3.109 | 3.0 | 21.4 |
| 3 2 | 10 7.76 | +14 29.5 | 1.718 | 2.692 | 4.8 | 20.3 | 3 2 | 10 9.51 | + 2 45.6 | 2.138 | 3.116 | 3.6 | 21.5 |
| 3 12 | 9 58.69 | +15 12.6 | 1.747 | 2.680 | 9.1 | 20.6 | 3 12 | 10 2.16 | + 4 2.1 | 2.177 | 3.122 | 6.8 | 21.7 |
| 3 22 | 9 51.43 | +15 42.6 | 1.802 | 2.666 | 13.0 | 20.8 | 3 22 | 9 56.23 | + 5 14.4 | 2.243 | 3.127 | 10.0 | 21.9 |
| 4 1 | 9 46.62 | +15 57.7 | 1.878 | 2.652 | 16.3 | 21.0 | 4 1 | 9 52.19 | + 6 18.0 | 2.333 | 3.132 | 12.8 | 22.1 |
| 350380 | 2012 <i>UZ</i> ₁₆₀ | | 2 21.7 290°78 | 5.4/27.5 | 17 | | 26840 | 1991 <i>RP</i> ₁₂ | | 2 21.7 201°71 | 1.0/20.9 | 18 | |
| 1 22 | 10 35.17 | - 8 49.7 | 2.267 | 3.042 | 13.3 | 20.6 | 1 22 | 10 45.19 | +11 52.3 | 1.731 | 2.584 | 13.3 | 18.4 |
| 2 1 | 10 30.65 | - 8 44.6 | 2.177 | 3.035 | 10.8 | 20.4 | 2 1 | 10 38.09 | +12 19.2 | 1.656 | 2.581 | 9.4 | 18.2 |
| 2 11 | 10 24.56 | - 8 18.3 | 2.110 | 3.029 | 8.1 | 20.2 | 2 11 | 10 28.67 | +12 53.8 | 1.606 | 2.576 | 5.0 | 17.9 |
| 2 21 | 10 17.49 | - 7 31.7 | 2.068 | 3.022 | 6.0 | 20.0 | 2 21 | 10 17.81 | +13 30.5 | 1.584 | 2.572 | 1.0 | 17.6 |
| 3 2 | 10 10.21 | - 6 27.9 | 2.055 | 3.016 | 5.6 | 20.0 | 3 2 | 10 6.73 | +14 3.1 | 1.591 | 2.566 | 5.0 | 17.9 |
| 3 12 | 10 3.56 | - 5 12.6 | 2.069 | 3.009 | 7.4 | 20.1 | 3 12 | 9 56.72 | +14 26.1 | 1.626 | 2.560 | 9.6 | 18.1 |
| 3 22 | 9 58.24 | - 3 52.3 | 2.111 | 3.003 | 10.1 | 20.3 | 3 22 | 9 48.78 | +14 36.8 | 1.687 | 2.553 | 13.6 | 18.4 |
| 4 1 | 9 54.80 | - 2 33.8 | 2.176 | 2.996 | 12.8 | 20.4 | 4 1 | 9 43.59 | +14 34.0 | 1.768 | 2.546 | 17.0 | 18.6 |
| 143020 | 2002 <i>VF</i> ₁₁₀ | | 2 21.7 64°13 | 5°2/17.9 | 18 | | 32508 | 2001 <i>MR</i> ₁₁ | | 2 21.7 146°29 | 2°3/24.9 | 17 | |
| 1 22 | 10 45.29 | +21 24.9 | 1.505 | 2.376 | 13.9 | 18.7 | 1 22 | 10 35.68 | - 1 45.8 | 3.131 | 3.927 | 9.5 | 20.2 |
| 2 1 | 10 37.93 | +22 34.3 | 1.479 | 2.410 | 9.8 | 18.5 | 2 1 | 10 30.56 | - 1 9.2 | 3.054 | 3.939 | 7.2 | 20.0 |
| 2 11 | 10 28.35 | +23 39.6 | 1.479 | 2.444 | 6.2 | 18.4 | 2 11 | 10 24.34 | - 0 20.2 | 3.004 | 3.950 | 4.7 | 19.9 |
| 2 21 | 10 17.74 | +24 31.6 | 1.505 | 2.477 | 5.4 | 18.4 | 2 21 | 10 17.51 | + 0 38.7 | 2.984 | 3.961 | 2.6 | 19.7 |
| 3 2 | 10 7.49 | +25 3.7 | 1.560 | 2.511 | 8.1 | 18.6 | 3 2 | 10 10.62 | + 1 43.9 | 2.996 | 3.971 | 2.9 | 19.8 |
| 3 12 | 9 58.87 | +25 13.2 | 1.639 | 2.544 | 11.5 | 18.9 | 3 12 | 10 4.25 | + 2 50.9 | 3.039 | 3.981 | 5.2 | 19.9 |
| 3 22 | 9 52.70 | +25 1.7 | 1.742 | 2.577 | 14.7 | 19.2 | 3 22 | 9 58.88 | + 3 55.8 | 3.110 | 3.990 | 7.6 | 20.1 |
| 4 1 | 9 49.39 | +24 32.1 | 1.863 | 2.609 | 17.3 | 19.4 | 4 1 | 9 54.88 | + 4 55.1 | 3.208 | 3.999 | 9.8 | 20.3 |
| 488748 | 2004 <i>SM</i> ₁ | | 2 21.7 214°20 | 0°1/21.8 | 17 | | 511735 | 2015 <i>DG</i> ₅₃ | | 2 21.7 232°03 | 0°3/21.4 | 17 | |
| 1 22 | 10 42.98 | + 8 9.7 | 1.922 | 2.765 | 12.7 | 22.4 | 1 22 | 10 35.90 | + 8 15.4 | 2.273 | 3.120 | 10.8 | 21.8 |
| 2 1 | 10 36.40 | + 8 42.7 | 1.838 | 2.757 | 9.1 | 22.1 | 2 1 | 10 31.14 | + 9 15.4 | 2.194 | 3.116 | 7.6 | 21.6 |
| 2 11 | 10 27.73 | + 9 26.8 | 1.779 | 2.748 | 4.9 | 21.9 | 2 11 | 10 24.82 | +10 26.1 | 2.142 | 3.112 | 4.0 | 21.4 |
| 2 21 | 10 17.73 | +10 17.4 | 1.749 | 2.738 | 0.4 | 21.5 | 2 21 | 10 17.55 | +11 42.2 | 2.120 | 3.108 | 0.4 | 21.1 |
| 3 2 | 10 7.43 | +11 8.3 | 1.749 | 2.727 | 4.2 | 21.8 | 3 2 | 10 10.11 | +12 57.4 | 2.127 | 3.104 | 3.7 | 21.4 |
| 3 12 | 9 57.98 | +11 53.5 | 1.778 | 2.715 | 8.6 | 22.0 | 3 12 | 10 3.34 | +14 5.9 | 2.164 | 3.100 | 7.4 | 21.6 |
| 3 22 | 9 50.31 | +12 28.7 | 1.833 | 2.703 | 12.5 | 22.2 | 3 22 | 9 57.93 | +15 3.2 | 2.228 | 3.096 | 10.7 | 21.8 |
| 4 1 | 9 45.09 | +12 51.3 | 1.909 | 2.689 | 15.8 | 22.4 | 4 1 | 9 54.39 | +15 46.7 | 2.314 | 3.091 | 13.5 | 22.0 |
| 464413 | 2016 <i>BH</i> ₂₃ | | 2 21.7 14°81 | 2°8/19.7 | 18 | | 31870 | 2000 <i>EG</i> ₁₀₁ | | 2 21.7 176°79 | 4°4/17.5 | 18 | |
| 1 22 | 10 39.12 | +14 12.1 | 1.299 | 2.178 | 15.1 | 20.6 | 1 22 | 10 42.74 | +22 38.9 | 2.189 | 3.049 | 10.6 | 18.9 |
| 2 1 | 10 34.19 | +15 8.7 | 1.243 | 2.181 | 10.5 | 20.3 | 2 1 | 10 35.99 | +23 38.2 | 2.127 | 3.051 | 7.7 | 18.7 |
| 2 11 | 10 26.68 | +16 13.5 | 1.210 | 2.184 | 5.6 | 20.1 | 2 11 | 10 27.39 | +24 35.3 | 2.092 | 3.053 | 5.1 | 18.6 |
| 2 21 | 10 17.65 | +17 17.2 | 1.203 | 2.188 | 2.9 | 19.9 | 2 21 | 10 17.73 | +25 23.3 | 2.086 | 3.054 | 4.6 | 18.5 |
| 3 2 | 10 8.51 | +18 10.4 | 1.221 | 2.193 | 6.8 | 20.1 | 3 2 | 10 7.97 | +25 56.6 | 2.110 | 3.054 | 6.8 | 18.7 |
| 3 12 | 10 0.73 | +18 45.9 | 1.264 | 2.198 | 11.7 | 20.4 | 3 12 | 9 59.16 | +26 12.1 | 2.162 | 3.054 | 9.8 | 18.8 |
| 3 22 | 9 55.39 | +19 0.7 | 1.329 | 2.204 | 16.0 | 20.7 | 3 22 | 9 52.09 | +26 9.5 | 2.238 | 3.054 | 12.6 | 19.0 |
| 4 1 | 9 53.10 | +18 55.0 | 1.411 | 2.211 | 19.5 | 21.0 | 4 1 | 9 47.28 | +25 50.1 | 2.335 | 3.052 | 15.0 | 19.2 |
| 318807 | 2005 <i>SF</i> ₁₆₅ | | 2 21.7 247°90 | 4°6/18.6 | 18 | | 143548 | 2003 <i>ER</i> ₃₅ | | 2 21.7 0°36 | 1°8/22.9 | 18 | |
| 1 22 | 10 46.31 | +22 29.0 | 1.773 | 2.636 | 12.6 | 20.2 | 1 22 | 10 37.39 | + 5 1.0 | 1.353 | 2.213 | 15.9 | 19.3 |
| 2 1 | 10 38.80 | +22 55.4 | 1.707 | 2.634 | 9.1 | 20.0 | 2 1 | 10 32.92 | + 5 11.1 | 1.287 | 2.211 | 11.6 | 19.1 |
| 2 11 | 10 28.97 | +23 18.0 | 1.667 | 2.631 | 5.8 | 19.8 | 2 11 | 10 26.03 | + 5 38.6 | 1.242 | 2.210 | 6.7 | 18.8 |
| 2 21 | 10 17.81 | +23 30.2 | 1.654 | 2.628 | 4.7 | 19.7 | 2 21 | 10 17.64 | + 6 19.1 | 1.222 | 2.209 | 2.1 | 18.5 |
| 3 2 | 10 6.58 | +23 26.4 | 1.670 | 2.625 | 7.3 | 19.8 | 3 2 | 10 9.05 | + 7 5.8 | 1.228 | 2.210 | 4.8 | 18.7 |
| 3 12 | 9 56.60 | +23 4.7 | 1.713 | 2.622 | 10.9 | 20.0 | 3 12 | 10 1.63 | + 7 50.9 | 1.260 | 2.212 | 9.8 | 19.0 |
| 3 22 | 9 48.83 | +22 25.8 | 1.781 | 2.619 | 14.3 | 20.3 | 3 22 | 9 56.44 | + 8 27.8 | 1.314 | 2.214 | 14.4 | 19.2 |
| 4 1 | 9 43.88 | +21 32.3 | 1.868 | 2.616 | 17.2 | 20.5 | 4 1 | 9 54.13 | + 8 52.2 | 1.387 | 2.218 | 18.2 | 19.5 |
| 210011 | 2006 <i>KT</i> | | 2 21.7 210°67 | 0°3/22.0 | 17 | | 145733 | 1995 <i>DL</i> ₅ | | 2 21.7 72°16 | 0°8/22.3 | 18 | |
| 1 22 | 10 41.13 | + 7 15.0 | 1.943 | 2.786 | 12.5 | 21.4 | 1 22 | 10 40.20 | + 6 15.2 | 1.621 | 2.471 | 14.2 | 20.9 |
| 2 1 | 10 35.05 | + 7 51.4 | 1.862 | 2.780 | 9.0 | 21.2 | 2 1 | 10 34.44 | + 6 48.4 | 1.566 | 2.487 | 10.2 | 20.7 |
| 2 11 | 10 26.98 | + 8 40.0 | 1.805 | 2.773 | 4.9 | 20.9 | 2 11 | 10 26.63 | + 7 35.5 | 1.535 | 2.503 | 5.6 | 20.5 |
| 2 21 | 10 17.68 | + 9 35.8 | 1.778 | 2.766 | 0.6 | 20.6 | 2 21 | 10 17.68 | + 8 30.8 | 1.531 | 2.519 | 1.0 | 20.2 |
| 3 2 | 10 8.12 | +10 32.9 | 1.780 | 2.758 | 4.1 | 20.8 | 3 2 | 10 8.73 | + 9 27.3 | 1.555 | 2.535 | 4.3 | 20.5 |
| 3 12 | 9 59.40 | +11 24.9 | 1.811 | 2.750 | 8.3 | 21.1 | 3 12 | 10 0.93 | +10 18.2 | 1.607 | 2.551 | 8.7 | 20.8 |
| 3 22 | 9 52.39 | +12 7.1 | 1.868 | 2.741 | 12.2 | 21.3 | 3 22 | 9 55.15 | +10 58.5 | 1.683 | 2.568 | 12.7 | 21.0 |
| 4 1 | 9 47.72 | +12 36.7 | 1.946 | 2.731 | 15.4 | 21.5 | 4 1 | 9 51.89 | +11 25.4 | 1.781 | 2.584 | 15.9 | 21.3 |
| 193940 | 2001 <i>RC</i> ₃₄ | | 2 21.7 220°35 | 2°3/23.5 | 18 | | 498824 | 2 | | | | | |

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2 21.7

2 21.8

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|----------|--------|----------|------|------|-----------------|-----------------|----------|-----|---------|-----|
| 265368 | 2004 RZ ₁₈₀ | | 2 21.7 | 96°77 | 0°1/21.7 | 18 | | | | | | | |
| 1 22 | 10 44.63 | +10 53.1 | 1.956 | 2.802 | 12.3 | 20.3 | | | | | | | |
| 2 1 | 10 37.29 | +10 48.1 | 1.893 | 2.814 | 8.7 | 20.1 | | | | | | | |
| 2 11 | 10 28.05 | +10 49.0 | 1.856 | 2.826 | 4.6 | 19.9 | | | | | | | |
| 2 21 | 10 17.77 | +10 52.4 | 1.849 | 2.837 | 0.3 | 19.6 | | | | | | | |
| 3 2 | 10 7.51 | +10 54.6 | 1.871 | 2.849 | 4.0 | 19.9 | | | | | | | |
| 3 12 | 9 58.33 | +10 52.4 | 1.922 | 2.860 | 8.0 | 20.2 | | | | | | | |
| 3 22 | 9 51.02 | +10 43.8 | 2.000 | 2.871 | 11.6 | 20.4 | | | | | | | |
| 4 1 | 9 46.09 | +10 27.8 | 2.100 | 2.882 | 14.5 | 20.6 | | | | | | | |
| 426528 | 2013 RZ ₅₆ | | 2 21.7 | 101°55 | 2°2/23.9 | 18 | | | | | | | |
| 1 22 | 10 38.32 | + 1 10.2 | 2.204 | 3.024 | 12.1 | 21.1 | | | | | | | |
| 2 1 | 10 32.71 | + 1 39.7 | 2.142 | 3.043 | 8.9 | 21.0 | | | | | | | |
| 2 11 | 10 25.57 | + 2 23.5 | 2.105 | 3.062 | 5.5 | 20.8 | | | | | | | |
| 2 21 | 10 17.60 | + 3 18.1 | 2.098 | 3.080 | 2.5 | 20.6 | | | | | | | |
| 3 2 | 10 9.62 | + 4 18.5 | 2.120 | 3.099 | 3.5 | 20.7 | | | | | | | |
| 3 12 | 10 2.46 | + 5 18.8 | 2.171 | 3.116 | 6.8 | 21.0 | | | | | | | |
| 3 22 | 9 56.78 | + 6 14.2 | 2.250 | 3.134 | 9.9 | 21.2 | | | | | | | |
| 4 1 | 9 53.02 | + 7 0.9 | 2.352 | 3.151 | 12.7 | 21.4 | | | | | | | |
| 455739 | Isabelita | | 2 21.7 | 280°05 | 1°9/20.3 | 17 | | | | | | | |
| 1 22 | 10 40.96 | +13 15.0 | 1.651 | 2.515 | 13.3 | 21.7 | | | | | | | |
| 2 1 | 10 35.34 | +13 59.2 | 1.566 | 2.497 | 9.4 | 21.4 | | | | | | | |
| 2 11 | 10 27.33 | +14 52.1 | 1.506 | 2.479 | 5.0 | 21.1 | | | | | | | |
| 2 21 | 10 17.75 | +15 46.8 | 1.474 | 2.460 | 2.0 | 20.8 | | | | | | | |
| 3 2 | 10 7.75 | +16 35.7 | 1.469 | 2.442 | 5.8 | 21.0 | | | | | | | |
| 3 12 | 9 58.68 | +17 12.1 | 1.491 | 2.423 | 10.4 | 21.3 | | | | | | | |
| 3 22 | 9 51.63 | +17 32.3 | 1.537 | 2.404 | 14.7 | 21.5 | | | | | | | |
| 4 1 | 9 47.33 | +17 35.0 | 1.603 | 2.386 | 18.3 | 21.7 | | | | | | | |
| 389546 | 2010 MF ₈₇ | | 2 21.7 | 232°37 | 3°2/18.4 | 18 | | | | | | | |
| 1 22 | 10 39.87 | +21 55.7 | 2.759 | 3.616 | 8.8 | 20.9 | | | | | | | |
| 2 1 | 10 33.66 | +22 19.9 | 2.689 | 3.613 | 6.3 | 20.7 | | | | | | | |
| 2 11 | 10 26.05 | +22 42.0 | 2.648 | 3.611 | 4.0 | 20.6 | | | | | | | |
| 2 21 | 10 17.64 | +22 57.8 | 2.635 | 3.608 | 3.3 | 20.5 | | | | | | | |
| 3 2 | 10 9.19 | +23 3.9 | 2.654 | 3.606 | 5.1 | 20.6 | | | | | | | |
| 3 12 | 10 1.45 | +22 58.3 | 2.701 | 3.603 | 7.7 | 20.8 | | | | | | | |
| 3 22 | 9 55.04 | +22 40.7 | 2.775 | 3.600 | 10.1 | 20.9 | | | | | | | |
| 4 1 | 9 50.39 | +22 11.7 | 2.870 | 3.598 | 12.2 | 21.1 | | | | | | | |
| 227529 | 2005 YV ₆₁ | | 2 21.7 | 172°63 | 1°4/22.9 | 18 | | | | | | | |
| 1 22 | 10 39.95 | + 5 14.0 | 2.027 | 2.863 | 12.4 | 21.0 | | | | | | | |
| 2 1 | 10 34.09 | + 5 25.9 | 1.951 | 2.864 | 9.0 | 20.7 | | | | | | | |
| 2 11 | 10 26.43 | + 5 49.7 | 1.901 | 2.865 | 5.2 | 20.5 | | | | | | | |
| 2 21 | 10 17.69 | + 6 21.9 | 1.879 | 2.866 | 1.6 | 20.3 | | | | | | | |
| 3 2 | 10 8.80 | + 6 58.0 | 1.887 | 2.866 | 3.7 | 20.4 | | | | | | | |
| 3 12 | 10 0.76 | + 7 33.1 | 1.923 | 2.867 | 7.6 | 20.7 | | | | | | | |
| 3 22 | 9 54.33 | + 8 2.8 | 1.985 | 2.867 | 11.2 | 20.9 | | | | | | | |
| 4 1 | 9 50.08 | + 8 24.2 | 2.070 | 2.867 | 14.2 | 21.1 | | | | | | | |
| 120535 | 1994 RO ₆ | | 2 21.7 | 25°98 | 0°7/22.3 | 18 | | | | | | | |
| 1 22 | 10 38.93 | + 7 3.9 | 1.852 | 2.700 | 12.8 | 20.3 | | | | | | | |
| 2 1 | 10 33.49 | + 7 23.6 | 1.781 | 2.701 | 9.2 | 20.1 | | | | | | | |
| 2 11 | 10 26.15 | + 7 54.8 | 1.735 | 2.703 | 5.1 | 19.9 | | | | | | | |
| 2 21 | 10 17.67 | + 8 33.3 | 1.717 | 2.705 | 0.9 | 19.6 | | | | | | | |
| 3 2 | 10 9.06 | + 9 13.7 | 1.727 | 2.707 | 3.9 | 19.8 | | | | | | | |
| 3 12 | 10 1.37 | + 9 50.5 | 1.765 | 2.709 | 8.1 | 20.1 | | | | | | | |
| 3 22 | 9 55.42 | +10 19.3 | 1.829 | 2.711 | 11.9 | 20.3 | | | | | | | |
| 4 1 | 9 51.77 | +10 37.5 | 1.914 | 2.714 | 15.1 | 20.5 | | | | | | | |
| 468905 | 2014 AH ₄₂ | | 2 21.7 | 238°41 | 4°3/25.8 | 17 | | | | | | | |
| 1 22 | 10 38.32 | - 4 16.4 | 2.520 | 3.308 | 11.7 | 20.7 | | | | | | | |
| 2 1 | 10 32.72 | - 4 39.5 | 2.433 | 3.306 | 9.3 | 20.5 | | | | | | | |
| 2 11 | 10 25.63 | - 4 48.1 | 2.372 | 3.303 | 6.7 | 20.4 | | | | | | | |
| 2 21 | 10 17.64 | - 4 42.6 | 2.338 | 3.300 | 4.6 | 20.2 | | | | | | | |
| 3 2 | 10 9.47 | - 4 25.0 | 2.333 | 3.298 | 4.7 | 20.2 | | | | | | | |
| 3 12 | 10 1.91 | - 3 58.6 | 2.357 | 3.295 | 6.8 | 20.4 | | | | | | | |
| 3 22 | 9 55.62 | - 3 27.8 | 2.409 | 3.292 | 9.4 | 20.5 | | | | | | | |
| 4 1 | 9 51.08 | - 2 56.8 | 2.484 | 3.289 | 11.9 | 20.7 | | | | | | | |
| 308910 | 2006 SN ₂₆₄ | | 2 21.7 | 346°26 | 0°5/21.4 | 18 | | | | | | | |
| 1 22 | 10 42.21 | +10 54.1 | 1.529 | 2.391 | 14.3 | 21.1 | | | | | | | |
| 2 1 | 10 36.15 | +11 5.1 | 1.460 | 2.388 | 10.1 | 20.9 | | | | | | | |
| 2 11 | 10 27.70 | +11 24.9 | 1.415 | 2.386 | 5.4 | 20.6 | | | | | | | |
| 2 21 | 10 17.79 | +11 48.5 | 1.396 | 2.385 | 0.5 | 20.2 | | | | | | | |
| 3 2 | 10 7.70 | +12 9.9 | 1.405 | 2.383 | 5.0 | 20.5 | | | | | | | |
| 3 12 | 9 58.78 | +12 23.9 | 1.440 | 2.382 | 9.8 | 20.8 | | | | | | | |
| 3 22 | 9 52.07 | +12 27.3 | 1.499 | 2.381 | 14.1 | 21.1 | | | | | | | |
| 4 1 | 9 48.20 | +12 18.6 | 1.578 | 2.380 | 17.7 | 21.3 | | | | | | | |
| 421969 | 2014 QY ₂₈₆ | | 2 21.7 | 171°60 | 7°9/15.5 | 18 | | | | | | | |
| 1 22 | 10 48.57 | +31 20.0 | 1.822 | 2.678 | 12.7 | 21.7 | | | | | | | |
| 2 1 | 10 40.45 | +32 23.8 | 1.771 | 2.680 | 10.0 | 21.5 | | | | | | | |
| 2 11 | 10 29.88 | +33 15.9 | 1.745 | 2.682 | 8.1 | 21.4 | | | | | | | |
| 2 21 | 10 17.94 | +33 47.5 | 1.746 | 2.684 | 8.2 | 21.4 | | | | | | | |
| 3 2 | 10 6.03 | +33 52.7 | 1.774 | 2.685 | 10.2 | 21.5 | | | | | | | |
| 3 12 | 9 55.56 | +33 30.4 | 1.827 | 2.686 | 12.9 | 21.7 | | | | | | | |
| 3 22 | 9 47.52 | +32 43.8 | 1.903 | 2.687 | 15.6 | 21.9 | | | | | | | |
| 4 1 | 9 42.48 | +31 37.7 | 1.996 | 2.686 | 18.0 | 22.1 | | | | | | | |
| 207033 | 2004 WW ₁ | | 2 21.7 | 1°50 | 5°4/18.1 | 18 | | | | | | | |
| 1 22 | 10 41.58 | +19 58.0 | 1.276 | 2.159 | 15.1 | 19.7 | | | | | | | |
| 2 1 | 10 36.10 | +21 5.4 | 1.221 | 2.158 | 10.8 | 19.5 | | | | | | | |
| 2 11 | 10 27.80 | +22 13.9 | 1.189 | 2.158 | 6.7 | 19.2 | | | | | | | |
| 2 21 | 10 17.81 | +23 12.7 | 1.181 | 2.158 | 5.6 | 19.2 | | | | | | | |
| 3 2 | 10 7.69 | +23 52.0 | 1.199 | 2.158 | 8.9 | 19.4 | | | | | | | |
| 3 12 | 9 59.06 | +24 6.3 | 1.241 | 2.159 | 13.3 | 19.6 | | | | | | | |
| 3 22 | 9 53.08 | +23 55.2 | 1.304 | 2.161 | 17.4 | 19.9 | | | | | | | |
| 4 1 | 9 50.40 | +23 21.5 | 1.383 | 2.163 | 20.8 | 20.1 | | | | | | | |
| 97009 | 1999 TN ₂₅₃ | | 2 21.7 | 91°08 | 0°2/21.5 | 18 | | | | | | | |
| 1 22 | 10 39.67 | + 9 21.8 | 1.952 | 2.803 | 12.1 | 20.4 | | | | | | | |
| 2 1 | 10 33.86 | + 9 53.6 | 1.892 | 2.815 | 8.5 | 20.2 | | | | | | | |
| 2 11 | 10 26.28 | +10 34.3 | 1.856 | 2.827 | 4.5 | 20.0 | | | | | | | |
| 2 21 | 10 17.70 | +11 19.0 | 1.850 | 2.838 | 0.3 | 19.7 | | | | | | | |
| 3 2 | 10 9.09 | +12 2.1 | 1.872 | 2.850 | 4.0 | 20.0 | | | | | | | |
| 3 12 | 10 1.43 | +12 38.4 | 1.923 | 2.861 | 8.0 | 20.3 | | | | | | | |
| 3 22 | 9 55.48 | +13 4.7 | 1.999 | 2.873 | 11.5 | 20.5 | | | | | | | |
| 4 1 | 9 51.72 | +13 19.0 | 2.098 | 2.884 | 14.4 | 20.7 | | | | | | | |
| 141211 | 2001 XJ ₂₁₈ | | 2 21.7 | 174°98 | 0°7/22.6 | 18 | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 176668 | 2002 <i>PC</i> ₃₂ | | 2 21.8 184°39 | 0°5/22.2 | 18 | | 115186 | 2003 <i>SB</i> ₉₈ | | 2 21.8 135°48 | 0°0/21.7 | 18 | |
| 1 22 | 10 41.17 | + 6 50.2 | 2.123 | 2.961 | 11.8 | 21.8 | 1 22 | 10 41.79 | + 8 1.0 | 1.903 | 2.747 | 12.7 | 20.8 |
| 2 1 | 10 34.93 | + 7 20.9 | 2.046 | 2.961 | 8.5 | 21.6 | 2 1 | 10 35.42 | + 8 44.5 | 1.840 | 2.760 | 9.0 | 20.6 |
| 2 11 | 10 26.90 | + 8 2.5 | 1.994 | 2.961 | 4.7 | 21.4 | 2 11 | 10 27.17 | + 9 38.8 | 1.803 | 2.772 | 4.8 | 20.4 |
| 2 21 | 10 17.80 | + 8 50.8 | 1.972 | 2.960 | 0.8 | 21.1 | 2 21 | 10 17.84 | +10 38.4 | 1.795 | 2.784 | 0.3 | 20.1 |
| 3 2 | 10 8.53 | + 9 40.4 | 1.980 | 2.959 | 3.7 | 21.3 | 3 2 | 10 8.46 | +11 36.9 | 1.817 | 2.795 | 4.1 | 20.4 |
| 3 12 | 10 0.06 | +10 26.1 | 2.017 | 2.956 | 7.6 | 21.5 | 3 12 | 10 0.07 | +12 28.1 | 1.868 | 2.806 | 8.2 | 20.7 |
| 3 22 | 9 53.18 | +11 3.6 | 2.081 | 2.954 | 11.1 | 21.7 | 3 22 | 9 53.48 | +13 8.2 | 1.944 | 2.815 | 11.9 | 20.9 |
| 4 1 | 9 48.44 | +11 30.4 | 2.168 | 2.950 | 14.1 | 21.9 | 4 1 | 9 49.21 | +13 34.7 | 2.043 | 2.824 | 14.9 | 21.1 |
| 338951 | 2004 <i>EQ</i> ₈₅ | | 2 21.8 321°32 | 7°3/15.7 | 17 | | 310213 | 2011 <i>SM</i> ₁₇₆ | | 2 21.8 235°84 | 9°3/3.1 | 18 | |
| 1 22 | 10 44.05 | +31 9.6 | 1.968 | 2.827 | 11.7 | 20.1 | 1 22 | 10 38.70 | -23 8.2 | 2.763 | 3.416 | 13.8 | 19.9 |
| 2 1 | 10 37.24 | +31 55.4 | 1.903 | 2.816 | 9.2 | 20.0 | 2 1 | 10 33.11 | -24 7.1 | 2.670 | 3.410 | 12.4 | 19.7 |
| 2 11 | 10 28.21 | +32 30.9 | 1.864 | 2.805 | 7.5 | 19.8 | 2 11 | 10 25.95 | -24 44.1 | 2.597 | 3.404 | 11.0 | 19.6 |
| 2 21 | 10 17.89 | +32 48.6 | 1.852 | 2.794 | 7.6 | 19.8 | 2 21 | 10 17.76 | -24 56.7 | 2.546 | 3.397 | 9.8 | 19.5 |
| 3 2 | 10 7.49 | +32 43.3 | 1.867 | 2.784 | 9.5 | 19.9 | 3 2 | 10 9.28 | -24 44.3 | 2.521 | 3.391 | 9.3 | 19.5 |
| 3 12 | 9 58.24 | +32 13.5 | 1.907 | 2.774 | 12.1 | 20.0 | 3 12 | 10 1.31 | -24 9.3 | 2.520 | 3.384 | 9.6 | 19.5 |
| 3 22 | 9 51.10 | +31 21.4 | 1.970 | 2.765 | 14.8 | 20.2 | 3 22 | 9 54.56 | -23 16.2 | 2.545 | 3.377 | 10.7 | 19.5 |
| 4 1 | 9 46.63 | +30 11.0 | 2.052 | 2.756 | 17.2 | 20.4 | 4 1 | 9 49.59 | -22 11.4 | 2.592 | 3.370 | 12.2 | 19.6 |
| 284381 | 2006 <i>SA</i> ₃₃₉ | | 2 21.8 219°81 | 2°0/19.3 | 17 | | 21212 | 1994 <i>PG</i> ₃₉ | | 2 21.8 271°45 | 0°3/22.0 | 18 | |
| 1 22 | 10 37.96 | +16 32.4 | 2.867 | 3.721 | 8.6 | 21.9 | 1 22 | 10 36.90 | + 7 51.8 | 2.386 | 3.229 | 10.5 | 19.5 |
| 2 1 | 10 32.38 | +17 16.3 | 2.786 | 3.712 | 6.0 | 21.7 | 2 1 | 10 31.86 | + 8 20.3 | 2.297 | 3.216 | 7.5 | 19.3 |
| 2 11 | 10 25.45 | +18 2.7 | 2.732 | 3.702 | 3.3 | 21.6 | 2 11 | 10 25.27 | + 8 58.1 | 2.234 | 3.202 | 4.1 | 19.0 |
| 2 21 | 10 17.70 | +18 47.2 | 2.709 | 3.691 | 2.1 | 21.4 | 2 21 | 10 17.71 | + 9 41.5 | 2.200 | 3.189 | 0.5 | 18.7 |
| 3 2 | 10 9.80 | +19 25.6 | 2.718 | 3.681 | 4.2 | 21.6 | 3 2 | 10 9.93 | +10 26.1 | 2.196 | 3.175 | 3.4 | 18.9 |
| 3 12 | 10 2.45 | +19 54.5 | 2.755 | 3.669 | 7.0 | 21.7 | 3 12 | 10 2.76 | +11 7.2 | 2.222 | 3.161 | 7.0 | 19.2 |
| 3 22 | 9 56.27 | +20 12.2 | 2.820 | 3.657 | 9.6 | 21.9 | 3 22 | 9 56.89 | +11 41.0 | 2.274 | 3.148 | 10.3 | 19.3 |
| 4 1 | 9 51.71 | +20 18.0 | 2.907 | 3.645 | 11.9 | 22.0 | 4 1 | 9 52.84 | +12 5.0 | 2.349 | 3.134 | 13.1 | 19.5 |
| 250149 | 2002 <i>RW</i> ₂₀₆ | | 2 21.8 200°11 | 1°6/20.5 | 17 | | 172514 | 2003 <i>SV</i> ₂₄₂ | | 2 21.8 33°84 | 2°2/20.3 | 18 | |
| 1 22 | 10 42.85 | +13 31.2 | 1.976 | 2.830 | 11.9 | 21.5 | 1 22 | 10 40.73 | +13 21.9 | 1.279 | 2.155 | 15.5 | 20.4 |
| 2 1 | 10 36.24 | +14 4.9 | 1.901 | 2.827 | 8.3 | 21.2 | 2 1 | 10 35.32 | +14 7.1 | 1.228 | 2.164 | 10.8 | 20.1 |
| 2 11 | 10 27.65 | +14 44.3 | 1.852 | 2.823 | 4.4 | 21.0 | 2 11 | 10 27.32 | +15 0.7 | 1.200 | 2.173 | 5.7 | 19.8 |
| 2 21 | 10 17.86 | +15 23.7 | 1.833 | 2.819 | 1.6 | 20.8 | 2 21 | 10 17.85 | +15 54.1 | 1.197 | 2.184 | 2.3 | 19.6 |
| 3 2 | 10 7.89 | +15 57.5 | 1.843 | 2.815 | 4.9 | 21.0 | 3 2 | 10 8.37 | +16 38.4 | 1.220 | 2.195 | 6.4 | 19.9 |
| 3 12 | 9 58.84 | +16 21.2 | 1.881 | 2.810 | 8.8 | 21.2 | 3 12 | 10 0.35 | +17 7.1 | 1.269 | 2.206 | 11.3 | 20.2 |
| 3 22 | 9 51.57 | +16 32.2 | 1.945 | 2.804 | 12.4 | 21.4 | 3 22 | 9 54.84 | +17 17.3 | 1.339 | 2.218 | 15.6 | 20.5 |
| 4 1 | 9 46.68 | +16 29.8 | 2.031 | 2.798 | 15.4 | 21.6 | 4 1 | 9 52.40 | +17 9.2 | 1.427 | 2.230 | 19.2 | 20.8 |
| 175976 | 2000 <i>OJ</i> ₃₈ | | 2 21.8 109°52 | 3°3/25.9 | 18 | | 433563 | 2013 <i>YM</i> ₃ | | 2 21.8 78°02 | 6°7/14.2 | 18 | |
| 1 22 | 10 36.98 | - 4 8.4 | 2.903 | 3.688 | 10.4 | 20.7 | 1 22 | 10 39.74 | +29 3.7 | 2.135 | 2.999 | 10.7 | 20.5 |
| 2 1 | 10 31.52 | - 3 57.6 | 2.837 | 3.710 | 8.1 | 20.6 | 2 1 | 10 33.95 | +30 43.0 | 2.103 | 3.019 | 8.3 | 20.4 |
| 2 11 | 10 24.90 | - 3 33.2 | 2.797 | 3.731 | 5.6 | 20.4 | 2 11 | 10 26.36 | +32 13.8 | 2.098 | 3.038 | 6.8 | 20.3 |
| 2 21 | 10 17.66 | - 2 56.9 | 2.785 | 3.752 | 3.6 | 20.3 | 2 21 | 10 17.78 | +33 28.1 | 2.120 | 3.057 | 7.1 | 20.4 |
| 3 2 | 10 10.40 | - 2 11.7 | 2.804 | 3.773 | 3.7 | 20.4 | 3 2 | 10 9.23 | +34 19.9 | 2.171 | 3.076 | 8.9 | 20.5 |
| 3 12 | 10 3.75 | - 1 21.7 | 2.853 | 3.793 | 5.6 | 20.5 | 3 12 | 10 1.71 | +34 47.1 | 2.247 | 3.095 | 11.3 | 20.7 |
| 3 22 | 9 58.22 | - 0 31.1 | 2.930 | 3.813 | 7.9 | 20.7 | 3 22 | 9 55.97 | +34 50.6 | 2.345 | 3.114 | 13.5 | 20.9 |
| 4 1 | 9 54.19 | + 0 16.5 | 3.032 | 3.832 | 10.1 | 20.9 | 4 1 | 9 52.49 | +34 33.4 | 2.461 | 3.133 | 15.3 | 21.1 |
| 428410 | 2007 <i>TY</i> ₉₄ | | 2 21.8 139°15 | 4°2/16.6 | 16 | | 340728 | 2006 <i>SM</i> ₁₄₂ | | 2 21.8 224°08 | 3°0/18.9 | 17 | |
| 1 22 | 10 40.30 | +25 40.3 | 2.908 | 3.763 | 8.5 | 21.8 | 1 22 | 10 40.47 | +19 34.2 | 2.348 | 3.208 | 10.0 | 20.9 |
| 2 1 | 10 33.92 | +26 35.2 | 2.858 | 3.776 | 6.2 | 21.6 | 2 1 | 10 34.33 | +20 6.0 | 2.278 | 3.205 | 7.1 | 20.7 |
| 2 11 | 10 26.19 | +27 25.7 | 2.837 | 3.790 | 4.5 | 21.6 | 2 11 | 10 26.54 | +20 37.6 | 2.236 | 3.203 | 4.2 | 20.6 |
| 2 21 | 10 17.75 | +28 7.0 | 2.846 | 3.802 | 4.4 | 21.6 | 2 21 | 10 17.80 | +21 3.9 | 2.222 | 3.200 | 3.1 | 20.5 |
| 3 2 | 10 9.31 | +28 35.2 | 2.886 | 3.814 | 6.0 | 21.7 | 3 2 | 10 8.98 | +21 20.5 | 2.239 | 3.198 | 5.4 | 20.6 |
| 3 12 | 10 1.61 | +28 48.3 | 2.953 | 3.826 | 8.1 | 21.8 | 3 12 | 10 0.97 | +21 24.7 | 2.284 | 3.195 | 8.4 | 20.8 |
| 3 22 | 9 55.24 | +28 46.4 | 3.046 | 3.837 | 10.2 | 22.0 | 3 22 | 9 54.47 | +21 15.6 | 2.354 | 3.192 | 11.3 | 21.0 |
| 4 1 | 9 50.60 | +28 30.6 | 3.160 | 3.847 | 11.9 | 22.1 | 4 1 | 9 50.00 | +20 53.7 | 2.446 | 3.189 | 13.7 | 21.1 |
| 365959 | 2012 <i>BB</i> ₂₃ | | 2 21.8 82°98 | 1°9/20.3 | 18 | | 32858 | Kitakamigawa | | 2 21.8 58°78 | 2°1/23.5 | 18 | |
| 1 22 | 10 42.05 | +12 35.7 | 1.573 | 2.436 | 13.8 | 20.9 | 1 22 | 10 39.19 | + 3 38.5 | 2.112 | 2.942 | 12.2 | 18.1 |
| 2 1 | 10 35.81 | +13 33.3 | 1.525 | 2.456 | 9.6 | 20.7 | 2 1 | 10 33.49 | + 3 36.1 | 2.040 | 2.948 | 9.0 | 17.9 |
| 2 11 | 10 27.40 | +14 38.3 | 1.503 | 2.476 | 5.0 | 20.5 | 2 11 | 10 26.12 | + 3 45.7 | 1.994 | 2.954 | 5.4 | 17.7 |
| 2 21 | 10 17.84 | +15 42.9 | 1.508 | 2.495 | 1.9 | 20.3 | 2 21 | 10 17.78 | + 4 4.7 | 1.976 | 2.960 | 2.3 | 17.5 |
| 3 2 | 10 8.34 | +16 39.1 | 1.542 | 2.514 | 5.6 | 20.6 | 3 2 | 10 9.34 | + 4 29.5 | 1.987 | 2.966 | 3.6 | 17.6 |
| 3 12 | 10 0.14 | +17 21.0 | 1.602 | 2.533 | 9.9 | 20.9 | 3 12 | 10 1.72 | + 4 55.7 | 2.027 | 2.973 | 7.1 | 17.8 |
| 3 22 | 9 54.10 | +17 45.8 | 1.686 | 2.552 | 13.7 | 21.2 | 3 22 | 9 55.65 | + 5 19.3 | 2.094 | 2.979 | 10.5 | 18.0 |
| 4 1 | 9 50.72 | +17 53.3 | 1.791 | 2.571 | 16.7 | 21.4 | 4 1 | 9 51.62 | + 5 37.1 | 2.183 | 2.985 | 13.4 | 18.2 |
| 470606 | 2008 <i>QU</i> ₄₅ | | 2 21.8 273°66 | 2°3/23.9 | 17 | | 280409 | 2003 <i>WU</i> ₈₅ | | 2 21.8 75°36 | 7°4/15.5 | 18 | |
| 1 22 | 10 37.56 | + 0 48.4 | 2.053 | 2.877 | 12.7 | 21.5 | 1 22 | 10 46.16 | +32 18.2 | 2.033 | 2.886 | 11.6 | 20.0 |
| 2 1 | 10 32.64 | + 1 27.2 | 1.949 | 2.852 | 9.6 | 21.3 | 2 1 | 10 38.37 | +33 13.9 | 2.003 | 2.910 | 9.2 | 19.8 |
| 2 11 | 10 25.83 | + 2 24.4 | 1.870 | 2.828 | 6.0 | 21.0 | 2 11 | 10 28.63 | +33 56.9 | 2.000 | 2.933 | 7.6 | 19.8 |
| 2 21 | 10 17.75 | + 3 37.0 | 1.819 | 2.803 | 2.6 | 20.7 | 2 21 | 10 17.96 | +34 20.6 | 2.024 | 2.957 | 7.6 | 19.8 |
| 3 2 | 10 9.25 | + 4 59.3 | 1.798 | 2.777 | 3.9 | 20.7 | 3 2 | 10 7.55 | +34 21.0 | 2.075 | 2.980 | 9.3 | 20.0 |
| 3 12 | 10 1.33 | + 6 24.0 | 1.805 | 2.752 | 7.8 | 20.9 | 3 12 | 9 58.53 | +33 57.8 | 2.152 | 3.004 | 11.5 | 20.2 |
| 3 22 | 9 54.88 | + 7 44.0 | 1.839 | 2.725 | 11.7 | 21.1 | 3 22 | 9 51.67 | +33 14.2 | 2.251 | 3.027 | 13.8 | 20.4 |
| 4 1 | 9 50.57 | + 8 53.6 | 1.896 | 2.699 | 15.1 | 21.3 | 4 1 | 9 47.37 | +32 14.3 | 2.369 | 3.049 | 15.7 | 20.6 |
| 27224 | 1999 <i>GC</i> ₉ | | 2 21.8 258°69 | 2°4/23.7 | 18 | | 169855 | 2002 <i>RU</i> | | | | | |

EPHEMERIDES

2 21.8

2 21.8

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------------|-----------|---------|------|---------------|-------------------------------|-----------------|----------------|-----------|---------|------|
| 383799 | 2007 <i>XO</i> ₃₄ | | 2 21.8 58°86' | 7.4°/29.0 | 17 | | 66869 | 1999 <i>VX</i> ₄₇ | | 2 21.8 63°91' | 4.3°/25.4 | 18 | |
| 1 22 | 10 38.19 | -12 58.4 | 2.179 | 2.926 | 14.6 | 20.5 | 1 22 | 10 39.11 | -2 34.7 | 1.883 | 2.694 | 14.2 | 18.7 |
| 2 1 | 10 32.82 | -13 35.1 | 2.107 | 2.937 | 12.3 | 20.4 | 2 1 | 10 33.61 | -2 43.3 | 1.814 | 2.703 | 11.0 | 18.5 |
| 2 11 | 10 25.79 | -13 49.2 | 2.058 | 2.949 | 9.9 | 20.3 | 2 11 | 10 26.26 | -2 33.1 | 1.768 | 2.712 | 7.5 | 18.3 |
| 2 21 | 10 17.78 | -13 40.0 | 2.033 | 2.961 | 8.0 | 20.2 | 2 21 | 10 17.84 | -2 6.0 | 1.748 | 2.721 | 4.7 | 18.2 |
| 3 2 | 10 9.64 | -13 9.1 | 2.035 | 2.973 | 7.5 | 20.1 | 3 2 | 10 9.30 | -1 25.8 | 1.757 | 2.730 | 4.9 | 18.2 |
| 3 12 | 10 2.28 | -12 21.3 | 2.064 | 2.985 | 8.6 | 20.2 | 3 12 | 10 1.66 | -0 38.3 | 1.793 | 2.739 | 7.9 | 18.4 |
| 3 22 | 9 56.41 | -11 22.8 | 2.118 | 2.997 | 10.7 | 20.4 | 3 22 | 9 55.73 | +0 10.3 | 1.855 | 2.748 | 11.2 | 18.6 |
| 4 1 | 9 52.57 | -10 20.5 | 2.195 | 3.009 | 12.9 | 20.6 | 4 1 | 9 52.04 | +0 54.6 | 1.940 | 2.757 | 14.3 | 18.8 |
| 434915 | 2006 <i>TE</i> ₈₆ | | 2 21.8 224°54' | 5°3'/28.3 | 17 | | 17285 | Bezout | | 2 21.8 165°93' | 0°2'/21.5 | 18 | |
| 1 22 | 10 36.17 | -11 34.1 | 2.970 | 3.710 | 11.2 | 21.8 | 1 22 | 10 39.57 | +8 52.9 | 2.229 | 3.073 | 11.1 | 18.6 |
| 2 1 | 10 31.14 | -11 38.4 | 2.869 | 3.700 | 9.3 | 21.6 | 2 1 | 10 33.74 | +9 35.9 | 2.158 | 3.078 | 7.8 | 18.4 |
| 2 11 | 10 24.83 | -11 25.3 | 2.792 | 3.689 | 7.3 | 21.5 | 2 11 | 10 26.28 | +10 27.8 | 2.112 | 3.082 | 4.1 | 18.1 |
| 2 21 | 10 17.71 | -10 55.0 | 2.742 | 3.678 | 5.7 | 21.4 | 2 21 | 10 17.84 | +11 24.0 | 2.097 | 3.085 | 0.3 | 17.8 |
| 3 2 | 10 10.39 | -10 9.3 | 2.720 | 3.666 | 5.4 | 21.3 | 3 2 | 10 9.30 | +12 18.9 | 2.111 | 3.088 | 3.7 | 18.1 |
| 3 12 | 10 3.53 | -9 11.8 | 2.728 | 3.654 | 6.5 | 21.4 | 3 12 | 10 1.52 | +13 7.5 | 2.155 | 3.091 | 7.4 | 18.4 |
| 3 22 | 9 57.70 | -8 7.3 | 2.764 | 3.642 | 8.5 | 21.5 | 3 22 | 9 55.23 | +13 46.0 | 2.226 | 3.092 | 10.7 | 18.6 |
| 4 1 | 9 53.37 | -7 0.9 | 2.824 | 3.629 | 10.6 | 21.6 | 4 1 | 9 50.94 | +14 12.4 | 2.319 | 3.094 | 13.5 | 18.8 |
| 305776 | 2009 <i>DE</i> ₄₆ | | 2 21.8 38°58' | 0°4'/21.4 | 18 | | 351621 | 2005 <i>WA</i> ₁₇₄ | | 2 21.8 103°77' | 1°5'/20.6 | 17 | |
| 1 22 | 10 38.77 | +7 50.3 | 1.402 | 2.266 | 15.2 | 20.4 | 1 22 | 10 44.83 | +10 59.0 | 1.626 | 2.480 | 14.0 | 20.9 |
| 2 1 | 10 33.87 | +8 51.3 | 1.341 | 2.270 | 10.8 | 20.1 | 2 1 | 10 37.67 | +12 5.9 | 1.581 | 2.508 | 9.7 | 20.7 |
| 2 11 | 10 26.58 | +10 8.5 | 1.302 | 2.274 | 5.7 | 19.8 | 2 11 | 10 28.39 | +13 21.6 | 1.563 | 2.534 | 5.0 | 20.5 |
| 2 21 | 10 17.84 | +11 33.8 | 1.290 | 2.279 | 0.5 | 19.4 | 2 21 | 10 17.99 | +14 37.7 | 1.573 | 2.560 | 1.5 | 20.3 |
| 3 2 | 10 8.95 | +12 57.2 | 1.305 | 2.284 | 5.2 | 19.8 | 3 2 | 10 7.72 | +15 45.9 | 1.612 | 2.585 | 5.3 | 20.6 |
| 3 12 | 10 1.25 | +14 9.2 | 1.346 | 2.289 | 10.3 | 20.1 | 3 12 | 9 58.79 | +16 39.9 | 1.679 | 2.609 | 9.6 | 20.9 |
| 3 22 | 9 55.77 | +15 4.0 | 1.410 | 2.294 | 14.7 | 20.4 | 3 22 | 9 52.06 | +17 16.6 | 1.771 | 2.632 | 13.3 | 21.2 |
| 4 1 | 9 53.13 | +15 38.6 | 1.494 | 2.299 | 18.4 | 20.6 | 4 1 | 9 48.00 | +17 35.6 | 1.883 | 2.655 | 16.3 | 21.5 |
| 320792 | 2008 <i>EL</i> ₁₄₈ | | 2 21.8 270°43' | 2°2'/23.7 | 17 | | 128873 | 2004 <i>SH</i> ₃₉ | | 2 21.8 114°07' | 1°1'/22.6 | 18 | |
| 1 22 | 10 38.16 | +1 56.8 | 1.780 | 2.614 | 13.9 | 21.3 | 1 22 | 10 40.27 | +4 33.1 | 1.524 | 2.372 | 15.1 | 20.2 |
| 2 1 | 10 33.19 | +2 27.4 | 1.694 | 2.603 | 10.4 | 21.1 | 2 1 | 10 34.78 | +5 20.3 | 1.459 | 2.379 | 10.9 | 20.0 |
| 2 11 | 10 26.17 | +3 16.4 | 1.632 | 2.592 | 6.3 | 20.8 | 2 11 | 10 27.02 | +6 25.6 | 1.418 | 2.385 | 6.1 | 19.7 |
| 2 21 | 10 17.82 | +4 20.2 | 1.596 | 2.581 | 2.5 | 20.6 | 2 21 | 10 17.90 | +7 42.6 | 1.404 | 2.392 | 1.4 | 19.4 |
| 3 2 | 10 9.16 | +5 32.4 | 1.590 | 2.570 | 4.1 | 20.6 | 3 2 | 10 8.64 | +9 2.8 | 1.418 | 2.398 | 4.5 | 19.6 |
| 3 12 | 10 1.30 | +6 45.4 | 1.611 | 2.558 | 8.4 | 20.9 | 3 12 | 10 0.51 | +10 17.3 | 1.458 | 2.404 | 9.3 | 19.9 |
| 3 22 | 9 55.18 | +7 52.0 | 1.657 | 2.547 | 12.5 | 21.1 | 3 22 | 9 54.49 | +11 19.3 | 1.523 | 2.410 | 13.6 | 20.2 |
| 4 1 | 9 51.46 | +8 47.1 | 1.725 | 2.536 | 16.1 | 21.3 | 4 1 | 9 51.17 | +12 4.9 | 1.609 | 2.416 | 17.2 | 20.5 |
| 67566 | 2000 <i>SQ</i> ₉₄ | | 2 21.8 323°86' | 4°8'/24.4 | 18 | | 183548 | 2003 <i>HU</i> ₄₂ | | 2 21.8 76°22' | 7°9'/27.6 | 18 | |
| 1 22 | 10 38.09 | +0 29.1 | 1.181 | 2.033 | 18.3 | 18.1 | 1 22 | 10 49.74 | -10 44.3 | 0.970 | 1.777 | 24.8 | 19.7 |
| 2 1 | 10 34.03 | +0 7.0 | 1.096 | 2.012 | 14.1 | 17.8 | 2 1 | 10 41.68 | -10 6.8 | 0.941 | 1.821 | 19.5 | 19.6 |
| 2 11 | 10 27.01 | +0 8.2 | 1.032 | 1.991 | 9.3 | 17.5 | 2 11 | 10 30.61 | -8 44.6 | 0.930 | 1.864 | 13.8 | 19.4 |
| 2 21 | 10 17.91 | +0 32.2 | 0.991 | 1.971 | 5.2 | 17.2 | 2 21 | 10 18.14 | -6 44.4 | 0.940 | 1.906 | 9.1 | 19.3 |
| 3 2 | 10 8.13 | +1 14.6 | 0.973 | 1.952 | 6.3 | 17.2 | 3 2 | 10 6.26 | -4 20.8 | 0.976 | 1.947 | 8.2 | 19.4 |
| 3 12 | 9 59.40 | +2 6.8 | 0.979 | 1.934 | 11.3 | 17.4 | 3 12 | 9 56.71 | -1 52.9 | 1.036 | 1.987 | 11.6 | 19.7 |
| 3 22 | 9 53.18 | +2 59.4 | 1.005 | 1.918 | 16.6 | 17.6 | 3 22 | 9 50.48 | +0 23.2 | 1.120 | 2.025 | 15.9 | 20.0 |
| 4 1 | 9 50.42 | +3 43.8 | 1.050 | 1.902 | 21.3 | 17.8 | 4 1 | 9 47.95 | +2 17.4 | 1.223 | 2.062 | 19.7 | 20.4 |
| 503198 | 2015 <i>HD</i> ₁₂ | | 2 21.8 33°40' | 2°4'/19.7 | 18 | | 237169 | 2008 <i>UZ</i> ₁₄₆ | | 2 21.8 152°91' | 0°3'/21.4 | 17 | |
| 1 22 | 10 39.86 | +16 23.4 | 2.016 | 2.879 | 11.3 | 20.7 | 1 22 | 10 38.81 | +9 49.7 | 2.292 | 3.138 | 10.7 | 21.5 |
| 2 1 | 10 34.06 | +16 55.6 | 1.953 | 2.882 | 7.9 | 20.5 | 2 1 | 10 33.16 | +10 22.1 | 2.221 | 3.142 | 7.6 | 21.3 |
| 2 11 | 10 26.47 | +17 30.2 | 1.915 | 2.886 | 4.3 | 20.3 | 2 11 | 10 25.95 | +11 2.1 | 2.177 | 3.147 | 4.0 | 21.0 |
| 2 21 | 10 17.84 | +18 2.1 | 1.906 | 2.889 | 2.4 | 20.2 | 2 21 | 10 17.83 | +11 45.4 | 2.162 | 3.150 | 0.4 | 20.8 |
| 3 2 | 10 9.16 | +18 25.9 | 1.925 | 2.893 | 5.2 | 20.4 | 3 2 | 10 9.61 | +12 27.2 | 2.177 | 3.154 | 3.7 | 21.0 |
| 3 12 | 10 1.40 | +18 38.0 | 1.973 | 2.897 | 8.8 | 20.6 | 3 12 | 10 2.14 | +13 3.0 | 2.222 | 3.157 | 7.2 | 21.3 |
| 3 22 | 9 55.35 | +18 37.0 | 2.045 | 2.901 | 12.0 | 20.8 | 3 22 | 9 56.12 | +13 29.8 | 2.293 | 3.160 | 10.4 | 21.5 |
| 4 1 | 9 51.51 | +18 22.7 | 2.139 | 2.905 | 14.8 | 21.0 | 4 1 | 9 52.02 | +13 45.8 | 2.386 | 3.163 | 13.1 | 21.7 |
| 228596 | 2002 <i>AG</i> ₇₈ | | 2 21.8 159°84' | 3°1'/18.9 | 18 | | 418885 | 2008 <i>YQ</i> ₁₀₄ | | 2 21.8 124°23' | 2°9'/18.5 | 16 | |
| 1 22 | 10 39.67 | +16 35.8 | 1.855 | 2.722 | 11.9 | 20.5 | 1 22 | 10 37.29 | +17 10.2 | 2.353 | 3.215 | 9.9 | 20.8 |
| 2 1 | 10 34.12 | +17 37.5 | 1.791 | 2.723 | 8.3 | 20.3 | 2 1 | 10 32.10 | +18 22.1 | 2.293 | 3.222 | 6.9 | 20.7 |
| 2 11 | 10 26.58 | +18 43.1 | 1.753 | 2.723 | 4.7 | 20.1 | 2 11 | 10 25.38 | +19 36.5 | 2.261 | 3.229 | 4.0 | 20.5 |
| 2 21 | 10 17.86 | +19 45.4 | 1.742 | 2.724 | 3.2 | 20.0 | 2 21 | 10 17.79 | +20 47.4 | 2.258 | 3.237 | 3.0 | 20.4 |
| 3 2 | 10 9.00 | +20 37.2 | 1.761 | 2.724 | 6.1 | 20.2 | 3 2 | 10 10.10 | +21 48.7 | 2.285 | 3.243 | 5.3 | 20.6 |
| 3 12 | 10 1.12 | +21 13.3 | 1.806 | 2.725 | 9.8 | 20.4 | 3 12 | 10 3.17 | +22 36.0 | 2.341 | 3.250 | 8.4 | 20.8 |
| 3 22 | 9 55.06 | +21 31.6 | 1.876 | 2.725 | 13.3 | 20.6 | 3 22 | 9 57.65 | +23 7.3 | 2.422 | 3.257 | 11.1 | 21.0 |
| 4 1 | 9 51.39 | +21 32.1 | 1.966 | 2.725 | 16.1 | 20.8 | 4 1 | 9 54.02 | +23 22.3 | 2.525 | 3.263 | 13.5 | 21.2 |
| 290625 | 2005 <i>US</i> ₂₃₄ | | 2 21.8 172°53' | 1°5'/20.3 | 16 | | 234036 | 1998 <i>VZ</i> ₄₈ | | 2 21.8 212°06' | 1°4'/20.4 | 18 | |
| 1 22 | 10 39.82 | +12 34.6 | 2.115 | 2.970 | 11.2 | 21.6 | 1 22 | 10 38.31 | +12 44.1 | 2.181 | 3.037 | 10.8 | 21.0 |
| 2 1 | 10 34.01 | +13 25.5 | 2.046 | 2.972 | 7.8 | 21.4 | 2 1 | 10 32.93 | +13 29.0 | 2.108 | 3.035 | 7.6 | 20.8 |
| 2 11 | 10 26.45 | +14 23.1 | 2.003 | 2.974 | 4.1 | 21.1 | 2 11 | 10 25.88 | +14 20.1 | 2.061 | 3.033 | 4.0 | 20.5 |
| 2 21 | 10 17.85 | +15 21.5 | 1.989 | 2.976 | 1.5 | 21.0 | 2 21 | 10 17.83 | +15 12.2 | 2.044 | 3.031 | 1.4 | 20.4 |
| 3 2 | 10 9.12 | +16 14.8 | 2.005 | 2.977 | 4.6 | 21.2 | 3 2 | 10 9.62 | +15 59.8 | 2.056 | 3.028 | 4.4 | 20.6 |
| 3 12 | 10 1.23 | +16 57.8 | 2.050 | 2.978 | 8.3 | 21.4 | 3 12 | 10 2.19 | +16 38.0 | 2.096 | 3.025 | 8.0 | 20.8 |
| 3 22 | 9 54.92 | +17 27.7 | 2.120 | 2.978 | 11.6 | 21.6 | 3 22 | 9 56.25 | +17 4.0 | 2.163 | 3.023 | 11.3 | 21.0 |
| 4 1 | 9 50.73 | +17 43.2 | 2.213 | 2.978 | 14.4 | 21.8 | 4 1 | 9 52.34 | +17 16.5 | 2.251 | 3.020 | 14.1 | 21.2 |
| 227293 | 2005 <i>SC</i> ₂₀₈ | | 2 21.8 74°84' | 5°3'/18.2 | 18 | | 414187 | 2008 <i>CL</i> ₁₃₇ | | 2 21.8 172°88' | 1°2'/20.7 | 18 | |
| 1 22 | 10 46.47 | +24 12.9 | 1.734 | 2. | | | | | | | | | |

EPHEMERIDES

2 21.8

2 21.8

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|--------|----------|------|---------------|-------------------------------|-----------------|----------|--------|----------|------|
| 243434 | 2009 <i>DB</i> ₄₆ | | 2 21.8 | 37°20 | 4°5/26.4 | 18 | 361685 | 2007 <i>UL</i> ₁₁₄ | | 2 21.8 | 62°06 | 4°2/24.8 | 18 |
| 1 22 | 10 35.76 | - 5 20.9 | 2.082 | 2.880 | 13.5 | 20.3 | 1 22 | 10 40.41 | - 1 10.7 | 1.538 | 2.365 | 16.1 | 20.6 |
| 2 1 | 10 31.16 | - 5 12.4 | 2.008 | 2.886 | 10.6 | 20.1 | 2 1 | 10 34.91 | - 1 12.2 | 1.468 | 2.369 | 12.3 | 20.3 |
| 2 11 | 10 24.95 | - 4 43.9 | 1.957 | 2.892 | 7.6 | 19.9 | 2 11 | 10 27.14 | - 0 52.0 | 1.421 | 2.372 | 8.1 | 20.1 |
| 2 21 | 10 17.77 | - 3 57.1 | 1.932 | 2.899 | 5.0 | 19.8 | 2 21 | 10 17.97 | - 0 12.7 | 1.398 | 2.376 | 4.6 | 19.9 |
| 3 2 | 10 10.48 | - 2 56.4 | 1.935 | 2.905 | 4.9 | 19.8 | 3 2 | 10 8.60 | + 0 40.4 | 1.403 | 2.380 | 5.2 | 20.0 |
| 3 12 | 10 3.94 | - 1 47.7 | 1.967 | 2.912 | 7.3 | 19.9 | 3 12 | 10 0.32 | + 1 39.7 | 1.435 | 2.384 | 9.1 | 20.2 |
| 3 22 | 9 58.86 | - 0 37.8 | 2.024 | 2.919 | 10.3 | 20.1 | 3 22 | 9 54.10 | + 2 37.5 | 1.490 | 2.388 | 13.2 | 20.4 |
| 4 1 | 9 55.76 | + 0 27.6 | 2.106 | 2.927 | 13.2 | 20.3 | 4 1 | 9 50.60 | + 3 27.4 | 1.567 | 2.392 | 16.7 | 20.7 |
| 194014 | 2001 <i>SS</i> ₂₈ | | 2 21.8 | 98°32 | 3°8/19.3 | 18 | 168360 | 1996 <i>PC</i> | | 2 21.8 | 135°64 | 3°0/25.2 | 18 |
| 1 22 | 10 45.70 | +17 51.3 | 1.426 | 2.296 | 14.6 | 20.3 | 1 22 | 10 36.98 | - 2 10.3 | 2.547 | 3.347 | 11.2 | 20.9 |
| 2 1 | 10 38.70 | +18 37.6 | 1.374 | 2.306 | 10.3 | 20.1 | 2 1 | 10 31.77 | - 1 52.6 | 2.471 | 3.357 | 8.6 | 20.8 |
| 2 11 | 10 29.11 | +19 25.8 | 1.346 | 2.316 | 5.8 | 19.8 | 2 11 | 10 25.19 | - 1 20.1 | 2.421 | 3.366 | 5.7 | 20.6 |
| 2 21 | 10 18.08 | +20 7.1 | 1.345 | 2.326 | 3.9 | 19.7 | 2 21 | 10 17.83 | - 0 35.2 | 2.400 | 3.374 | 3.4 | 20.5 |
| 3 2 | 10 7.07 | +20 34.1 | 1.371 | 2.336 | 7.2 | 20.0 | 3 2 | 10 10.38 | + 0 18.4 | 2.408 | 3.383 | 3.6 | 20.5 |
| 3 12 | 9 57.57 | +20 42.3 | 1.422 | 2.345 | 11.6 | 20.2 | 3 12 | 10 3.57 | + 1 15.9 | 2.446 | 3.391 | 6.2 | 20.7 |
| 3 22 | 9 50.61 | +20 31.2 | 1.497 | 2.355 | 15.5 | 20.5 | 3 22 | 9 58.00 | + 2 12.5 | 2.512 | 3.398 | 8.9 | 20.9 |
| 4 1 | 9 46.75 | +20 2.8 | 1.590 | 2.364 | 18.8 | 20.7 | 4 1 | 9 54.11 | + 3 4.0 | 2.603 | 3.406 | 11.5 | 21.0 |
| 192855 | 1999 <i>VT</i> ₁₈₇ | | 2 21.8 | 187°53 | 2°2/24.2 | 18 | 422900 | 2002 <i>RY</i> ₁₄₁ | | 2 21.8 | 264°87 | 0°7/21.2 | 17 |
| 1 22 | 10 37.84 | + 0 31.1 | 2.613 | 3.423 | 10.7 | 21.1 | 1 22 | 10 42.00 | +12 12.7 | 2.274 | 3.121 | 10.8 | 21.3 |
| 2 1 | 10 32.38 | + 0 56.5 | 2.528 | 3.423 | 8.0 | 20.9 | 2 1 | 10 35.60 | +12 24.1 | 2.180 | 3.102 | 7.7 | 21.1 |
| 2 11 | 10 25.52 | + 1 35.0 | 2.469 | 3.421 | 5.1 | 20.8 | 2 11 | 10 27.39 | +12 40.7 | 2.113 | 3.083 | 4.1 | 20.8 |
| 2 21 | 10 17.82 | + 2 24.1 | 2.439 | 3.420 | 2.5 | 20.6 | 2 21 | 10 18.00 | +12 58.7 | 2.074 | 3.063 | 0.7 | 20.5 |
| 3 2 | 10 9.97 | + 3 19.8 | 2.440 | 3.417 | 3.2 | 20.6 | 3 2 | 10 8.32 | +13 14.1 | 2.067 | 3.042 | 4.0 | 20.8 |
| 3 12 | 10 2.70 | + 4 17.3 | 2.471 | 3.414 | 6.1 | 20.8 | 3 12 | 9 59.33 | +13 23.3 | 2.089 | 3.022 | 7.8 | 21.0 |
| 3 22 | 9 56.65 | + 5 12.2 | 2.530 | 3.411 | 9.1 | 21.0 | 3 22 | 9 51.82 | +13 23.9 | 2.137 | 3.001 | 11.3 | 21.1 |
| 4 1 | 9 52.28 | + 6 0.6 | 2.614 | 3.407 | 11.7 | 21.2 | 4 1 | 9 46.41 | +13 14.8 | 2.208 | 2.980 | 14.2 | 21.3 |
| 499988 | 2011 <i>OM</i> ₆ | | 2 21.8 | 107°16 | 1°1/22.8 | 17 | 55860 | 1997 <i>BQ</i> ₆ | | 2 21.8 | 356°59 | 0°5/21.3 | 18 R |
| 1 22 | 10 39.63 | + 6 17.6 | 2.352 | 3.186 | 11.0 | 21.2 | 1 22 | 10 36.80 | +10 9.2 | 1.958 | 2.815 | 11.8 | 19.5 |
| 2 1 | 10 33.68 | + 6 19.0 | 2.279 | 3.191 | 7.9 | 21.0 | 2 1 | 10 32.02 | +10 40.5 | 1.886 | 2.813 | 8.3 | 19.3 |
| 2 11 | 10 26.22 | + 6 29.2 | 2.233 | 3.197 | 4.5 | 20.8 | 2 11 | 10 25.46 | +11 20.7 | 1.840 | 2.811 | 4.4 | 19.1 |
| 2 21 | 10 17.87 | + 6 45.5 | 2.216 | 3.203 | 1.3 | 20.5 | 2 21 | 10 17.85 | +12 4.7 | 1.821 | 2.810 | 0.5 | 18.7 |
| 3 2 | 10 9.45 | + 7 4.7 | 2.229 | 3.208 | 3.3 | 20.7 | 3 2 | 10 10.10 | +12 47.1 | 1.832 | 2.809 | 4.1 | 19.0 |
| 3 12 | 10 1.77 | + 7 23.1 | 2.271 | 3.214 | 6.7 | 20.9 | 3 12 | 10 3.18 | +13 22.7 | 1.870 | 2.809 | 8.1 | 19.3 |
| 3 22 | 9 55.51 | + 7 37.6 | 2.341 | 3.219 | 9.8 | 21.1 | 3 22 | 9 57.86 | +13 47.9 | 1.933 | 2.809 | 11.7 | 19.5 |
| 4 1 | 9 51.14 | + 7 46.0 | 2.434 | 3.225 | 12.5 | 21.3 | 4 1 | 9 54.67 | +14 0.6 | 2.018 | 2.810 | 14.7 | 19.7 |
| 281099 | 2006 <i>VU</i> ₇₀ | | 2 21.8 | 6°93 | 4°6/18.9 | 18 | 159299 | 2006 <i>BJ</i> ₅₀ | | 2 21.8 | 254°62 | 1°4/20.6 | 18 |
| 1 22 | 10 41.02 | +16 38.3 | 1.069 | 1.957 | 16.8 | 20.5 | 1 22 | 10 39.50 | +12 35.9 | 1.942 | 2.801 | 11.8 | 20.3 |
| 2 1 | 10 36.09 | +17 51.5 | 1.016 | 1.957 | 11.8 | 20.2 | 2 1 | 10 33.96 | +13 15.9 | 1.869 | 2.797 | 8.3 | 20.1 |
| 2 11 | 10 28.02 | +19 11.9 | 0.985 | 1.958 | 6.8 | 19.9 | 2 11 | 10 26.53 | +14 2.8 | 1.823 | 2.794 | 4.4 | 19.8 |
| 2 21 | 10 18.01 | +20 26.8 | 0.977 | 1.959 | 4.8 | 19.8 | 2 21 | 10 17.95 | +14 51.1 | 1.804 | 2.791 | 1.4 | 19.6 |
| 3 2 | 10 7.84 | +21 23.8 | 0.993 | 1.961 | 8.9 | 20.0 | 3 2 | 10 9.20 | +15 34.7 | 1.814 | 2.788 | 4.7 | 19.8 |
| 3 12 | 9 59.33 | +21 55.1 | 1.033 | 1.963 | 14.0 | 20.3 | 3 12 | 10 1.32 | +16 8.4 | 1.853 | 2.785 | 8.7 | 20.1 |
| 3 22 | 9 53.78 | +21 58.7 | 1.091 | 1.966 | 18.7 | 20.6 | 3 22 | 9 55.15 | +16 29.2 | 1.916 | 2.781 | 12.3 | 20.3 |
| 4 1 | 9 51.85 | +21 36.8 | 1.166 | 1.970 | 22.6 | 20.9 | 4 1 | 9 51.24 | +16 35.9 | 2.001 | 2.778 | 15.3 | 20.5 |
| 466254 | 2013 <i>HZ</i> ₂₈ | | 2 21.8 | 193°45 | 4°6/26.4 | 16 | 432551 | 2010 <i>JL</i> ₄₅ | | 2 21.8 | 153°36 | 6°0/14.6 | 17 |
| 1 22 | 10 39.66 | - 6 7.0 | 2.397 | 3.176 | 12.5 | 22.1 | 1 22 | 10 39.74 | +30 9.9 | 2.537 | 3.394 | 9.5 | 21.2 |
| 2 1 | 10 33.80 | - 6 11.0 | 2.308 | 3.174 | 10.0 | 21.9 | 2 1 | 10 33.86 | +31 21.2 | 2.487 | 3.397 | 7.4 | 21.1 |
| 2 11 | 10 26.35 | - 5 57.4 | 2.244 | 3.171 | 7.3 | 21.7 | 2 11 | 10 26.35 | +32 25.2 | 2.463 | 3.401 | 6.1 | 21.0 |
| 2 21 | 10 17.90 | - 5 26.9 | 2.207 | 3.168 | 5.1 | 21.5 | 2 21 | 10 17.93 | +33 15.6 | 2.468 | 3.404 | 6.3 | 21.0 |
| 3 2 | 10 9.24 | - 4 42.3 | 2.199 | 3.164 | 5.0 | 21.5 | 3 2 | 10 9.45 | +33 47.7 | 2.502 | 3.407 | 7.9 | 21.1 |
| 3 12 | 10 1.22 | - 3 48.5 | 2.221 | 3.159 | 7.1 | 21.7 | 3 12 | 10 1.79 | +33 59.4 | 2.561 | 3.409 | 10.1 | 21.3 |
| 3 22 | 9 54.56 | - 2 50.9 | 2.270 | 3.154 | 9.9 | 21.8 | 3 22 | 9 55.66 | +33 51.3 | 2.644 | 3.412 | 12.1 | 21.4 |
| 4 1 | 9 49.78 | - 1 54.8 | 2.344 | 3.148 | 12.5 | 22.0 | 4 1 | 9 51.54 | +33 25.6 | 2.746 | 3.414 | 13.9 | 21.6 |
| 68074 | 2000 <i>YH</i> ₈₅ | | 2 21.8 | 72°88 | 0°6/22.2 | 18 | 408860 | 2001 <i>SL</i> ₂₅₉ | | 2 21.8 | 101°64 | 0°3/21.5 | 18 |
| 1 22 | 10 42.13 | + 6 28.9 | 1.437 | 2.291 | 15.5 | 19.3 | 1 22 | 10 40.22 | + 8 22.0 | 1.932 | 2.780 | 12.4 | 21.6 |
| 2 1 | 10 36.00 | + 7 7.8 | 1.390 | 2.313 | 11.0 | 19.1 | 2 1 | 10 34.29 | + 9 19.0 | 1.878 | 2.800 | 8.7 | 21.4 |
| 2 11 | 10 27.60 | + 8 1.6 | 1.366 | 2.335 | 6.0 | 18.9 | 2 11 | 10 26.60 | +10 26.2 | 1.850 | 2.820 | 4.6 | 21.2 |
| 2 21 | 10 17.98 | + 9 3.5 | 1.368 | 2.356 | 0.9 | 18.6 | 2 21 | 10 17.95 | +11 37.6 | 1.851 | 2.840 | 0.4 | 20.9 |
| 3 2 | 10 8.44 | +10 5.4 | 1.398 | 2.378 | 4.6 | 18.9 | 3 2 | 10 9.31 | +12 46.3 | 1.882 | 2.859 | 4.1 | 21.2 |
| 3 12 | 10 0.27 | +10 59.6 | 1.454 | 2.399 | 9.4 | 19.2 | 3 12 | 10 1.66 | +13 46.0 | 1.941 | 2.878 | 8.1 | 21.5 |
| 3 22 | 9 54.37 | +11 41.0 | 1.535 | 2.420 | 13.6 | 19.5 | 3 22 | 9 55.73 | +14 32.9 | 2.026 | 2.896 | 11.5 | 21.7 |
| 4 1 | 9 51.26 | +12 7.0 | 1.636 | 2.441 | 17.0 | 19.8 | 4 1 | 9 52.01 | +15 4.9 | 2.134 | 2.913 | 14.4 | 22.0 |
| 205580 | 2001 <i>TS</i> ₇₂ | | 2 21.8 | 161°57 | 1°3/23.4 | 17 | 347437 | 2012 <i>TP</i> ₁₁₃ | | 2 21.8 | 116°31 | 2°3/24.0 | 17 |
| 1 22 | 10 36.54 | + 3 27.9 | 2.755 | 3.577 | 9.9 | 20.9 | 1 22 | 10 38.05 | + 1 56.0 | 2.365 | 3.185 | 11.4 | 21.6 |
| 2 1 | 10 31.38 | + 3 56.2 | 2.677 | 3.582 | 7.2 | 20.7 | 2 1 | 10 32.61 | + 2 2.0 | 2.290 | 3.191 | 8.5 | 21.4 |
| 2 11 | 10 24.96 | + 4 35.0 | 2.626 | 3.586 | 4.3 | 20.6 | 2 11 | 10 25.69 | + 2 20.4 | 2.241 | 3.197 | 5.3 | 21.2 |
| 2 21 | 10 17.79 | + 5 21.3 | 2.605 | 3.590 | 1.6 | 20.4 | 2 21 | 10 17.90 | + 2 48.7 | 2.220 | 3.202 | 2.5 | 21.0 |
| 3 2 | 10 10.53 | + 6 11.4 | 2.615 | 3.594 | 2.8 | 20.5 | 3 2 | 10 10.01 | + 3 23.4 | 2.229 | 3.207 | 3.4 | 21.1 |
| 3 12 | 10 3.84 | + 7 0.8 | 2.654 | 3.597 | 5.8 | 20.7 | 3 12 | 10 2.82 | + 4 0.1 | 2.268 | 3.213 | 6.5 | 21.3 |
| 3 22 | 9 58.30 | + 7 46.0 | 2.722 | 3.600 | 8.6 | 20.8 | 3 22 | 9 56.98 | + 4 34.7 | 2.333 | 3.218 | 9.6 | 21.5 |
| 4 1 | 9 54.32 | + 8 24.0 | 2.814 | 3.603 | 11.1 | 21.0 | 4 1 | 9 52.96 | + 5 3.8 | 2.422 | 3.223 | 12.3 | 21.7 |
| 241778 | 2001 <i>NV</i> ₁₄ | | 2 21.8 | 190°04 | 0°7/21.1 | 18 | 428145 | 2 | | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|---------|-----------|------|---------------|-------------------------------|-----------------|----------|---------|-----------|------|
| 436825 | 2012 <i>RM</i> ₃₄ | | 2 21.8 | 39°19' | 2°6'/19.6 | 17 | 278086 | 2007 <i>BZ</i> ₁₀ | | 2 21.8 | 137°90' | 2°7'/19.7 | 18 |
| 1 22 | 10 40.59 | +17 34.6 | 2.107 | 2.968 | 10.9 | 20.6 | 1 22 | 10 44.95 | +14 19.6 | 1.605 | 2.466 | 13.7 | 21.5 |
| 2 1 | 10 34.54 | +18 1.3 | 2.043 | 2.972 | 7.7 | 20.4 | 2 1 | 10 38.00 | +15 25.6 | 1.550 | 2.479 | 9.6 | 21.3 |
| 2 11 | 10 26.75 | +18 29.2 | 2.006 | 2.976 | 4.3 | 20.2 | 2 11 | 10 28.74 | +16 37.8 | 1.520 | 2.491 | 5.1 | 21.0 |
| 2 21 | 10 17.98 | +18 53.1 | 1.997 | 2.980 | 2.6 | 20.1 | 2 21 | 10 18.15 | +17 47.8 | 1.518 | 2.502 | 2.7 | 20.9 |
| 3 2 | 10 9.16 | +19 8.5 | 2.018 | 2.984 | 5.2 | 20.2 | 3 2 | 10 7.52 | +18 47.0 | 1.545 | 2.513 | 6.2 | 21.1 |
| 3 12 | 10 1.26 | +19 12.3 | 2.067 | 2.989 | 8.6 | 20.4 | 3 12 | 9 58.17 | +19 29.4 | 1.599 | 2.523 | 10.5 | 21.4 |
| 3 22 | 9 55.02 | +19 3.3 | 2.141 | 2.993 | 11.7 | 20.6 | 3 22 | 9 51.06 | +19 52.6 | 1.677 | 2.532 | 14.3 | 21.6 |
| 4 1 | 9 50.95 | +18 42.0 | 2.237 | 2.998 | 14.4 | 20.8 | 4 1 | 9 46.76 | +19 57.0 | 1.775 | 2.540 | 17.4 | 21.9 |
| 192193 | 2007 <i>GP</i> ₄₈ | | 2 21.8 | 349°66' | 6°0'/27.2 | 18 | 375514 | 2008 <i>UA</i> ₁₁₇ | | 2 21.8 | 104°31' | 4°8'/26.7 | 16 |
| 1 22 | 10 36.28 | - 7 43.4 | 1.743 | 2.539 | 15.8 | 19.8 | 1 22 | 10 38.35 | - 6 30.0 | 2.268 | 3.050 | 13.0 | 21.5 |
| 2 1 | 10 31.88 | - 7 40.3 | 1.663 | 2.536 | 12.8 | 19.6 | 2 1 | 10 32.86 | - 6 30.9 | 2.198 | 3.065 | 10.4 | 21.3 |
| 2 11 | 10 25.51 | - 7 11.5 | 1.605 | 2.534 | 9.4 | 19.4 | 2 11 | 10 25.83 | - 6 12.9 | 2.152 | 3.080 | 7.5 | 21.1 |
| 2 21 | 10 17.89 | - 6 17.9 | 1.571 | 2.532 | 6.6 | 19.2 | 2 21 | 10 17.93 | - 5 37.6 | 2.133 | 3.094 | 5.2 | 21.0 |
| 3 2 | 10 10.03 | - 5 3.8 | 1.564 | 2.531 | 6.3 | 19.2 | 3 2 | 10 9.96 | - 4 48.3 | 2.143 | 3.108 | 5.0 | 21.0 |
| 3 12 | 10 3.02 | - 3 37.2 | 1.583 | 2.530 | 8.7 | 19.3 | 3 12 | 10 2.74 | - 3 50.3 | 2.181 | 3.121 | 7.1 | 21.2 |
| 3 22 | 9 57.75 | - 2 6.8 | 1.628 | 2.529 | 12.1 | 19.5 | 3 22 | 9 56.95 | - 2 49.5 | 2.247 | 3.135 | 9.8 | 21.4 |
| 4 1 | 9 54.83 | - 0 41.2 | 1.695 | 2.528 | 15.3 | 19.7 | 4 1 | 9 53.07 | - 1 51.3 | 2.336 | 3.148 | 12.3 | 21.6 |
| 437598 | 2014 <i>BS</i> ₂ | | 2 21.8 | 4°94' | 5°4'/26.2 | 17 | 34364 | 2000 <i>RZ</i> ₃₀ | | 2 21.8 | 215°46' | 2°7'/24.5 | 18 |
| 1 22 | 10 39.92 | - 5 34.8 | 2.171 | 2.957 | 13.4 | 20.3 | 1 22 | 10 37.49 | + 0 18.3 | 2.500 | 3.312 | 11.1 | 19.2 |
| 2 1 | 10 34.11 | - 6 12.9 | 2.089 | 2.958 | 10.7 | 20.1 | 2 1 | 10 32.22 | + 0 19.9 | 2.415 | 3.309 | 8.4 | 19.0 |
| 2 11 | 10 26.58 | - 6 34.0 | 2.031 | 2.958 | 8.0 | 20.0 | 2 11 | 10 25.50 | + 0 34.2 | 2.357 | 3.307 | 5.4 | 18.8 |
| 2 21 | 10 17.98 | - 6 37.8 | 2.000 | 2.958 | 5.8 | 19.8 | 2 21 | 10 17.91 | + 0 59.4 | 2.326 | 3.304 | 3.0 | 18.6 |
| 3 2 | 10 9.17 | - 6 26.0 | 1.998 | 2.958 | 5.7 | 19.8 | 3 2 | 10 10.17 | + 1 32.4 | 2.326 | 3.302 | 3.5 | 18.7 |
| 3 12 | 10 1.09 | - 6 2.3 | 2.023 | 2.959 | 7.8 | 19.9 | 3 12 | 10 3.04 | + 2 9.1 | 2.354 | 3.299 | 6.3 | 18.8 |
| 3 22 | 9 54.51 | - 5 31.7 | 2.075 | 2.960 | 10.6 | 20.1 | 3 22 | 9 57.16 | + 2 45.4 | 2.410 | 3.296 | 9.3 | 19.0 |
| 4 1 | 9 49.99 | - 4 59.4 | 2.149 | 2.961 | 13.3 | 20.3 | 4 1 | 9 53.01 | + 3 17.6 | 2.490 | 3.293 | 11.9 | 19.2 |
| 363499 | 2003 <i>TJ</i> ₅₉ | | 2 21.8 | 88°46' | 0°8'/22.5 | 18 | 431963 | 2008 <i>UB</i> ₁₀₉ | | 2 21.8 | 7°28' | 22°3'/3.6 | 16 |
| 1 22 | 10 41.33 | + 4 46.3 | 1.645 | 2.487 | 14.4 | 21.2 | 1 22 | 10 58.45 | +53 23.0 | 0.985 | 1.812 | 23.0 | 19.8 |
| 2 1 | 10 35.25 | + 5 43.8 | 1.595 | 2.513 | 10.3 | 21.0 | 2 1 | 10 50.44 | +55 52.2 | 0.971 | 1.812 | 22.3 | 19.7 |
| 2 11 | 10 27.17 | + 6 56.9 | 1.570 | 2.537 | 5.7 | 20.8 | 2 11 | 10 36.29 | +57 31.8 | 0.973 | 1.812 | 22.5 | 19.7 |
| 2 21 | 10 18.01 | + 8 18.6 | 1.573 | 2.561 | 1.1 | 20.5 | 2 21 | 10 18.72 | +58 4.3 | 0.989 | 1.813 | 23.6 | 19.8 |
| 3 2 | 10 8.92 | + 9 40.6 | 1.605 | 2.585 | 4.2 | 20.8 | 3 2 | 10 1.79 | +57 24.1 | 1.020 | 1.814 | 25.2 | 19.9 |
| 3 12 | 10 1.01 | +10 54.9 | 1.666 | 2.609 | 8.6 | 21.1 | 3 12 | 9 49.15 | +55 39.5 | 1.064 | 1.816 | 27.0 | 20.0 |
| 3 22 | 9 55.11 | +11 55.9 | 1.751 | 2.632 | 12.5 | 21.4 | 3 22 | 9 42.36 | +53 6.3 | 1.118 | 1.819 | 28.8 | 20.2 |
| 4 1 | 9 51.71 | +12 40.8 | 1.858 | 2.654 | 15.6 | 21.6 | 4 1 | 9 41.40 | +50 0.4 | 1.182 | 1.822 | 30.3 | 20.4 |
| 202888 | 1981 <i>EM</i> ₃₄ | | 2 21.8 | 340°06' | 4°7'/24.8 | 18 | 282033 | 1995 <i>OA</i> ₁₇ | | 2 21.8 | 169°45' | 2°1'/23.5 | 18 |
| 1 22 | 10 40.71 | - 0 48.6 | 1.362 | 2.197 | 17.3 | 20.1 | 1 22 | 10 42.70 | + 2 25.7 | 1.685 | 2.517 | 14.7 | 22.2 |
| 2 1 | 10 35.44 | - 1 5.8 | 1.289 | 2.194 | 13.3 | 19.8 | 2 1 | 10 36.42 | + 2 54.6 | 1.612 | 2.521 | 10.8 | 21.9 |
| 2 11 | 10 27.59 | - 1 0.6 | 1.237 | 2.190 | 8.9 | 19.6 | 2 11 | 10 27.94 | + 3 41.4 | 1.564 | 2.524 | 6.5 | 21.7 |
| 2 21 | 10 18.06 | - 0 34.2 | 1.209 | 2.187 | 5.2 | 19.3 | 2 21 | 10 18.11 | + 4 41.9 | 1.542 | 2.527 | 2.5 | 21.4 |
| 3 2 | 10 8.21 | + 0 8.5 | 1.207 | 2.184 | 5.9 | 19.4 | 3 2 | 10 8.09 | + 5 49.4 | 1.549 | 2.529 | 4.3 | 21.5 |
| 3 12 | 9 59.51 | + 0 59.8 | 1.231 | 2.182 | 10.0 | 19.6 | 3 12 | 9 59.08 | + 6 56.0 | 1.585 | 2.531 | 8.7 | 21.8 |
| 3 22 | 9 53.11 | + 1 51.3 | 1.277 | 2.180 | 14.5 | 19.8 | 3 22 | 9 52.07 | + 7 55.0 | 1.646 | 2.531 | 12.8 | 22.1 |
| 4 1 | 9 49.75 | + 2 35.8 | 1.344 | 2.179 | 18.5 | 20.1 | 4 1 | 9 47.67 | + 8 41.9 | 1.728 | 2.531 | 16.3 | 22.3 |
| 135519 | 2001 <i>YE</i> ₃₇ | | 2 21.8 | 90°08' | 0°0'/21.8 | 18 | 33158 | Rúfus | | 2 21.8 | 152°34' | 1°9'/19.8 | 18 |
| 1 22 | 10 37.89 | + 8 49.2 | 2.381 | 3.225 | 10.5 | 20.2 | 1 22 | 10 41.27 | +15 11.1 | 2.473 | 3.324 | 9.9 | 19.5 |
| 2 1 | 10 32.44 | + 9 17.9 | 2.319 | 3.238 | 7.4 | 20.0 | 2 1 | 10 34.82 | +15 55.6 | 2.410 | 3.334 | 6.9 | 19.3 |
| 2 11 | 10 25.57 | + 9 54.2 | 2.283 | 3.252 | 3.9 | 19.8 | 2 11 | 10 26.85 | +16 43.1 | 2.374 | 3.344 | 3.7 | 19.1 |
| 2 21 | 10 17.90 | +10 34.2 | 2.277 | 3.266 | 0.3 | 19.5 | 2 21 | 10 18.03 | +17 28.7 | 2.369 | 3.353 | 1.9 | 19.0 |
| 3 2 | 10 10.21 | +11 13.5 | 2.301 | 3.279 | 3.3 | 19.8 | 3 2 | 10 9.16 | +18 7.7 | 2.394 | 3.361 | 4.4 | 19.2 |
| 3 12 | 10 3.27 | +11 48.0 | 2.355 | 3.293 | 6.7 | 20.1 | 3 12 | 10 1.07 | +18 36.4 | 2.449 | 3.368 | 7.5 | 19.4 |
| 3 22 | 9 57.70 | +12 14.6 | 2.435 | 3.306 | 9.8 | 20.3 | 3 22 | 9 54.42 | +18 53.0 | 2.531 | 3.375 | 10.4 | 19.6 |
| 4 1 | 9 53.94 | +12 31.6 | 2.538 | 3.319 | 12.3 | 20.5 | 4 1 | 9 49.67 | +18 57.2 | 2.635 | 3.381 | 12.8 | 19.8 |
| 435288 | 2007 <i>TS</i> ₃₈₄ | | 2 21.8 | 48°38' | 4°3'/17.3 | 17 | 93518 | 2000 <i>TU</i> ₆₃ | | 2 21.8 | 223°94' | 0°1'/21.8 | 17 |
| 1 22 | 10 37.84 | +21 20.7 | 2.099 | 2.968 | 10.6 | 20.8 | 1 22 | 10 40.69 | + 8 51.4 | 2.213 | 3.055 | 11.2 | 21.1 |
| 2 1 | 10 32.69 | +22 33.5 | 2.044 | 2.973 | 7.6 | 20.7 | 2 1 | 10 34.67 | + 9 15.9 | 2.128 | 3.046 | 8.0 | 20.9 |
| 2 11 | 10 25.81 | +23 45.6 | 2.015 | 2.979 | 5.0 | 20.5 | 2 11 | 10 26.90 | + 9 49.1 | 2.069 | 3.037 | 4.3 | 20.7 |
| 2 21 | 10 17.93 | +24 49.7 | 2.015 | 2.984 | 4.6 | 20.5 | 2 21 | 10 18.04 | +10 27.1 | 2.039 | 3.027 | 0.3 | 20.3 |
| 3 2 | 10 9.97 | +25 39.6 | 2.044 | 2.990 | 6.8 | 20.6 | 3 2 | 10 8.95 | +11 5.2 | 2.039 | 3.017 | 3.7 | 20.6 |
| 3 12 | 10 2.89 | +26 11.4 | 2.099 | 2.996 | 9.8 | 20.8 | 3 12 | 10 0.57 | +11 38.6 | 2.069 | 3.007 | 7.6 | 20.8 |
| 3 22 | 9 57.44 | +26 24.1 | 2.179 | 3.002 | 12.6 | 21.0 | 3 22 | 9 53.70 | +12 3.9 | 2.125 | 2.996 | 11.0 | 21.0 |
| 4 1 | 9 54.12 | +26 18.5 | 2.278 | 3.009 | 15.0 | 21.2 | 4 1 | 9 48.89 | +12 19.0 | 2.204 | 2.984 | 14.0 | 21.2 |
| 219416 | 2000 <i>SG</i> ₃₀₆ | | 2 21.8 | 70°39' | 0°5'/22.2 | 18 | 69119 | 2003 <i>EA</i> ₂₁ | | 2 21.8 | 315°49' | 4°3'/27.1 | 18 |
| 1 22 | 10 43.44 | + 8 13.3 | 1.750 | 2.597 | 13.5 | 20.3 | 1 22 | 10 33.92 | - 8 14.9 | 2.162 | 2.945 | 13.6 | 18.9 |
| 2 1 | 10 36.60 | + 8 22.5 | 1.702 | 2.622 | 9.6 | 20.1 | 2 1 | 10 29.99 | - 7 14.2 | 2.063 | 2.931 | 10.8 | 18.7 |
| 2 11 | 10 27.83 | + 8 41.5 | 1.678 | 2.646 | 5.2 | 19.9 | 2 11 | 10 24.44 | - 5 47.3 | 1.987 | 2.918 | 7.8 | 18.5 |
| 2 21 | 10 18.07 | + 9 5.9 | 1.683 | 2.671 | 0.8 | 19.6 | 2 21 | 10 17.86 | - 3 57.1 | 1.939 | 2.906 | 5.0 | 18.3 |
| 3 2 | 10 8.44 | + 9 30.8 | 1.716 | 2.696 | 4.0 | 19.9 | 3 2 | 10 11.01 | - 1 49.4 | 1.921 | 2.893 | 4.6 | 18.2 |
| 3 12 | 10 0.01 | + 9 51.3 | 1.778 | 2.720 | 8.2 | 20.2 | 3 12 | 10 4.78 | + 0 26.8 | 1.933 | 2.881 | 7.2 | 18.4 |
| 3 22 | 9 53.58 | +10 4.3 | 1.865 | 2.744 | 11.9 | 20.5 | 3 22 | 9 59.89 | + 2 41.9 | 1.973 | 2.869 | 10.5 | 18.5 |
| 4 1 | 9 49.60 | +10 8.0 | 1.974 | 2.769 | 14.9 | 20.7 | 4 1 | 9 56.92 | + 4 47.6 | 2.038 | 2.858 | 13.6 | 18.7 |
| 405514 | 2005 <i>CR</i> ₄₀ | | 2 21.8 | 132°87' | 1°4'/20.7 | 18 | 523549 | 2017 <i>VK</i> ₂₄ | | 2 21.8 | 256°78' | 4°0'/26.1 | 17 |
| 1 22 | 10 | | | | | | | | | | | | |

EPHEMERIDES

2 21.8

2 21.8

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 209477 | 2004 <i>HO</i> ₈ | | 2 21.8 243°29 | 0°2/21.6 | 17 | | 12129 | 1999 <i>RB</i> ₁₃₈ | | 2 21.8 249°42 | 0°5/21.3 | 18 | |
| 1 22 | 10 36.18 | + 8 39.7 | 2.541 | 3.385 | 9.9 | 20.4 | 1 22 | 10 37.17 | +10 28.6 | 2.624 | 3.470 | 9.6 | 18.3 |
| 2 1 | 10 31.33 | + 9 23.9 | 2.456 | 3.376 | 7.0 | 20.2 | 2 1 | 10 32.01 | +11 1.3 | 2.536 | 3.458 | 6.7 | 18.1 |
| 2 11 | 10 25.06 | +10 16.8 | 2.398 | 3.367 | 3.7 | 20.0 | 2 11 | 10 25.43 | +11 40.8 | 2.476 | 3.446 | 3.6 | 17.9 |
| 2 21 | 10 17.90 | +11 14.3 | 2.370 | 3.358 | 0.3 | 19.7 | 2 21 | 10 17.97 | +12 23.3 | 2.445 | 3.434 | 0.5 | 17.6 |
| 3 2 | 10 10.57 | +12 11.6 | 2.372 | 3.349 | 3.3 | 19.9 | 3 2 | 10 10.32 | +13 4.5 | 2.445 | 3.421 | 3.4 | 17.8 |
| 3 12 | 10 3.81 | +13 4.0 | 2.403 | 3.340 | 6.7 | 20.1 | 3 12 | 10 3.24 | +13 40.4 | 2.475 | 3.408 | 6.7 | 18.0 |
| 3 22 | 9 58.26 | +13 47.6 | 2.462 | 3.330 | 9.8 | 20.3 | 3 22 | 9 57.35 | +14 8.0 | 2.531 | 3.395 | 9.7 | 18.2 |
| 4 1 | 9 54.41 | +14 20.2 | 2.544 | 3.320 | 12.4 | 20.5 | 4 1 | 9 53.14 | +14 25.5 | 2.611 | 3.382 | 12.3 | 18.4 |
| 205766 | 2002 <i>CU</i> ₃₈ | | 2 21.8 6°30 | 1°5/22.7 | 18 | | 292236 | 2006 <i>SK</i> ₆₈ | | 2 21.8 255°01 | 1°1/20.8 | 17 | |
| 1 22 | 10 41.32 | + 6 4.3 | 1.303 | 2.162 | 16.4 | 20.2 | 1 22 | 10 39.16 | +12 44.7 | 2.374 | 3.225 | 10.2 | 21.1 |
| 2 1 | 10 35.90 | + 6 10.7 | 1.238 | 2.162 | 12.0 | 20.0 | 2 1 | 10 33.52 | +13 11.1 | 2.290 | 3.214 | 7.2 | 20.9 |
| 2 11 | 10 27.83 | + 6 33.5 | 1.194 | 2.162 | 6.8 | 19.7 | 2 11 | 10 26.27 | +13 42.7 | 2.233 | 3.204 | 3.8 | 20.6 |
| 2 21 | 10 18.12 | + 7 7.9 | 1.176 | 2.163 | 1.8 | 19.3 | 2 21 | 10 18.03 | +14 15.4 | 2.206 | 3.193 | 1.1 | 20.4 |
| 3 2 | 10 8.20 | + 7 47.3 | 1.183 | 2.165 | 5.0 | 19.6 | 3 2 | 10 9.60 | +14 44.8 | 2.208 | 3.182 | 4.0 | 20.6 |
| 3 12 | 9 59.57 | + 8 23.9 | 1.216 | 2.167 | 10.3 | 19.9 | 3 12 | 10 1.85 | +15 7.0 | 2.240 | 3.171 | 7.5 | 20.8 |
| 3 22 | 9 53.38 | + 8 51.9 | 1.272 | 2.169 | 15.0 | 20.1 | 3 22 | 9 55.48 | +15 19.4 | 2.298 | 3.160 | 10.7 | 21.0 |
| 4 1 | 9 50.31 | + 9 7.4 | 1.346 | 2.172 | 19.0 | 20.4 | 4 1 | 9 51.02 | +15 21.0 | 2.379 | 3.148 | 13.4 | 21.1 |
| 366869 | 2005 <i>SA</i> ₁₅₉ | | 2 21.8 122°28 | 1°2/22.8 | 18 | | 116174 | 2003 <i>XR</i> ₃ | | 2 21.8 39°82 | 0°3/22.1 | 18 | |
| 1 22 | 10 40.68 | + 5 26.4 | 1.948 | 2.786 | 12.7 | 21.7 | 1 22 | 10 36.95 | + 6 47.1 | 1.748 | 2.601 | 13.2 | 19.8 |
| 2 1 | 10 34.71 | + 5 45.8 | 1.881 | 2.794 | 9.2 | 21.5 | 2 1 | 10 32.21 | + 7 32.8 | 1.690 | 2.614 | 9.4 | 19.5 |
| 2 11 | 10 26.91 | + 6 17.5 | 1.838 | 2.803 | 5.2 | 21.3 | 2 11 | 10 25.62 | + 8 31.7 | 1.657 | 2.626 | 5.1 | 19.3 |
| 2 21 | 10 18.05 | + 6 57.5 | 1.824 | 2.811 | 1.4 | 21.0 | 2 21 | 10 17.98 | + 9 37.7 | 1.651 | 2.640 | 0.6 | 19.0 |
| 3 2 | 10 9.11 | + 7 40.6 | 1.840 | 2.820 | 3.7 | 21.2 | 3 2 | 10 10.29 | +10 43.8 | 1.674 | 2.654 | 4.1 | 19.3 |
| 3 12 | 10 1.08 | + 8 21.3 | 1.884 | 2.827 | 7.7 | 21.5 | 3 12 | 10 3.59 | +11 43.2 | 1.724 | 2.668 | 8.3 | 19.6 |
| 3 22 | 9 54.76 | + 8 55.4 | 1.953 | 2.835 | 11.3 | 21.7 | 3 22 | 9 58.64 | +12 30.9 | 1.799 | 2.682 | 12.0 | 19.8 |
| 4 1 | 9 50.67 | + 9 19.8 | 2.046 | 2.842 | 14.4 | 21.9 | 4 1 | 9 55.96 | +13 4.1 | 1.895 | 2.697 | 15.1 | 20.1 |
| 10143 | Kamogawa | | 2 21.8 4°33 | 4°7/23.9 | 18 | | 408790 | 2000 <i>EK</i> ₉₉ | | 2 21.8 15°65 | 1°9/20.8 | 16 | |
| 1 22 | 10 45.33 | + 2 27.8 | 1.503 | 2.337 | 16.0 | 16.0 | 1 22 | 10 43.07 | +14 28.5 | 1.197 | 2.075 | 16.2 | 20.8 |
| 2 1 | 10 38.48 | + 1 7.5 | 1.432 | 2.337 | 12.2 | 15.8 | 2 1 | 10 37.19 | +14 30.9 | 1.144 | 2.080 | 11.4 | 20.5 |
| 2 11 | 10 29.13 | - 0 0.1 | 1.385 | 2.338 | 8.1 | 15.5 | 2 11 | 10 28.50 | +14 38.6 | 1.113 | 2.086 | 6.1 | 20.2 |
| 2 21 | 10 18.23 | - 0 53.7 | 1.364 | 2.340 | 5.0 | 15.3 | 2 21 | 10 18.20 | +14 45.2 | 1.106 | 2.093 | 1.9 | 19.9 |
| 3 2 | 10 7.12 | - 1 33.2 | 1.370 | 2.343 | 6.0 | 15.4 | 3 2 | 10 7.90 | +14 44.7 | 1.124 | 2.102 | 6.2 | 20.2 |
| 3 12 | 9 57.22 | - 2 1.2 | 1.403 | 2.348 | 9.7 | 15.6 | 3 12 | 9 59.20 | +14 32.6 | 1.168 | 2.111 | 11.4 | 20.6 |
| 3 22 | 9 49.60 | - 2 21.4 | 1.461 | 2.353 | 13.7 | 15.9 | 3 22 | 9 53.23 | +14 7.8 | 1.232 | 2.121 | 16.0 | 20.9 |
| 4 1 | 9 44.94 | - 2 38.2 | 1.539 | 2.360 | 17.2 | 16.1 | 4 1 | 9 50.57 | +13 30.5 | 1.316 | 2.133 | 19.8 | 21.1 |
| 49463 | 1999 <i>AZ</i> ₆ | | 2 21.8 307°36 | 3°0/24.4 | 18 | | 244155 | 2001 <i>WJ</i> ₆₅ | | 2 21.8 63°97 | 5°8/28.4 | 18 | |
| 1 22 | 10 38.83 | + 0 50.3 | 2.120 | 2.940 | 12.5 | 17.8 | 1 22 | 10 35.64 | -10 38.8 | 2.313 | 3.075 | 13.4 | 20.2 |
| 2 1 | 10 33.38 | + 0 44.1 | 2.038 | 2.937 | 9.5 | 17.6 | 2 1 | 10 31.05 | -10 35.1 | 2.231 | 3.077 | 11.0 | 20.1 |
| 2 11 | 10 26.22 | + 0 51.9 | 1.981 | 2.934 | 6.1 | 17.4 | 2 11 | 10 24.95 | -10 9.7 | 2.170 | 3.080 | 8.5 | 19.9 |
| 2 21 | 10 18.01 | + 1 12.0 | 1.952 | 2.931 | 3.3 | 17.2 | 2 21 | 10 17.94 | - 9 23.3 | 2.136 | 3.082 | 6.4 | 19.8 |
| 3 2 | 10 9.60 | + 1 41.1 | 1.952 | 2.928 | 4.0 | 17.3 | 3 2 | 10 10.77 | - 8 19.0 | 2.129 | 3.085 | 5.9 | 19.8 |
| 3 12 | 10 1.93 | + 2 14.4 | 1.980 | 2.926 | 7.2 | 17.4 | 3 12 | 10 4.26 | - 7 2.4 | 2.151 | 3.087 | 7.4 | 19.8 |
| 3 22 | 9 55.76 | + 2 47.3 | 2.034 | 2.923 | 10.6 | 17.6 | 3 22 | 9 59.08 | - 5 40.3 | 2.200 | 3.090 | 9.8 | 20.0 |
| 4 1 | 9 51.64 | + 3 15.7 | 2.111 | 2.920 | 13.6 | 17.8 | 4 1 | 9 55.72 | - 4 19.2 | 2.272 | 3.093 | 12.4 | 20.2 |
| 286257 | 2001 <i>UW</i> ₂₂₉ | | 2 21.8 199°80 | 0°2/21.6 | 18 | | 246096 | 2007 <i>EL</i> ₂₅ | | 2 21.8 194°61 | 2°0/24.0 | 18 | |
| 1 22 | 10 41.47 | + 7 32.6 | 1.726 | 2.575 | 13.6 | 21.4 | 1 22 | 10 38.12 | + 1 13.7 | 2.568 | 3.382 | 10.8 | 21.2 |
| 2 1 | 10 35.60 | + 8 31.0 | 1.650 | 2.572 | 9.7 | 21.2 | 2 1 | 10 32.67 | + 1 41.9 | 2.482 | 3.379 | 8.0 | 21.0 |
| 2 11 | 10 27.55 | + 9 43.8 | 1.599 | 2.568 | 5.2 | 20.9 | 2 11 | 10 25.77 | + 2 23.1 | 2.421 | 3.376 | 5.0 | 20.8 |
| 2 21 | 10 18.11 | +11 4.6 | 1.576 | 2.564 | 0.4 | 20.5 | 2 21 | 10 18.00 | + 3 14.7 | 2.390 | 3.372 | 2.3 | 20.6 |
| 3 2 | 10 8.41 | +12 24.9 | 1.582 | 2.560 | 4.6 | 20.8 | 3 2 | 10 10.07 | + 4 12.4 | 2.390 | 3.368 | 3.2 | 20.6 |
| 3 12 | 9 59.65 | +13 36.8 | 1.616 | 2.554 | 9.2 | 21.1 | 3 12 | 10 2.72 | + 5 11.4 | 2.420 | 3.363 | 6.2 | 20.8 |
| 3 22 | 9 52.81 | +14 34.6 | 1.675 | 2.548 | 13.4 | 21.3 | 3 22 | 9 56.60 | + 6 6.9 | 2.477 | 3.358 | 9.3 | 21.0 |
| 4 1 | 9 48.53 | +15 15.1 | 1.756 | 2.542 | 16.8 | 21.5 | 4 1 | 9 52.19 | + 6 55.3 | 2.560 | 3.352 | 11.9 | 21.2 |
| 69088 | 2003 <i>BS</i> ₁₇ | | 2 21.8 263°76 | 3°7/24.3 | 18 | | 200674 | 2001 <i>TJ</i> ₁₄₅ | | 2 21.8 65°20 | 6°3/17.6 | 18 | |
| 1 22 | 10 43.17 | + 0 55.4 | 1.874 | 2.693 | 13.9 | 18.9 | 1 22 | 10 44.74 | +22 33.5 | 1.334 | 2.212 | 14.9 | 20.4 |
| 2 1 | 10 36.73 | + 0 26.6 | 1.785 | 2.683 | 10.6 | 18.7 | 2 1 | 10 38.31 | +23 45.6 | 1.285 | 2.218 | 10.8 | 20.2 |
| 2 11 | 10 28.14 | + 0 11.9 | 1.721 | 2.672 | 7.0 | 18.4 | 2 11 | 10 29.09 | +24 54.7 | 1.260 | 2.224 | 7.2 | 20.0 |
| 2 21 | 10 18.16 | + 0 10.7 | 1.684 | 2.661 | 4.0 | 18.2 | 2 21 | 10 18.26 | +25 49.7 | 1.261 | 2.231 | 6.6 | 19.9 |
| 3 2 | 10 7.84 | + 0 20.5 | 1.675 | 2.650 | 4.8 | 18.2 | 3 2 | 10 7.42 | +26 21.7 | 1.287 | 2.237 | 9.5 | 20.1 |
| 3 12 | 9 58.34 | + 0 37.1 | 1.695 | 2.639 | 8.4 | 18.4 | 3 12 | 9 58.17 | +26 26.7 | 1.338 | 2.244 | 13.5 | 20.4 |
| 3 22 | 9 50.62 | + 0 55.6 | 1.741 | 2.628 | 12.2 | 18.6 | 3 22 | 9 51.64 | +26 5.9 | 1.409 | 2.251 | 17.2 | 20.6 |
| 4 1 | 9 45.36 | + 1 11.8 | 1.809 | 2.617 | 15.5 | 18.8 | 4 1 | 9 48.40 | +25 23.3 | 1.498 | 2.258 | 20.3 | 20.9 |
| 144718 | 2004 <i>GR</i> ₃₀ | | 2 21.8 328°95 | 0°8/21.2 | 18 | | 128504 | 2004 <i>PP</i> ₁₈ | | 2 21.8 197°48 | 0°6/22.3 | 18 | |
| 1 22 | 10 37.60 | + 9 19.9 | 1.462 | 2.329 | 14.5 | 19.4 | 1 22 | 10 41.74 | + 5 54.7 | 1.784 | 2.626 | 13.5 | 20.7 |
| 2 1 | 10 33.18 | +10 10.0 | 1.387 | 2.319 | 10.3 | 19.1 | 2 1 | 10 35.74 | + 6 39.2 | 1.706 | 2.624 | 9.8 | 20.5 |
| 2 11 | 10 26.37 | +11 14.6 | 1.337 | 2.309 | 5.5 | 18.8 | 2 11 | 10 27.61 | + 7 38.6 | 1.654 | 2.621 | 5.4 | 20.2 |
| 2 21 | 10 18.04 | +12 26.6 | 1.312 | 2.300 | 0.8 | 18.4 | 2 21 | 10 18.16 | + 8 47.4 | 1.629 | 2.617 | 0.9 | 19.9 |
| 3 2 | 10 9.39 | +13 36.9 | 1.314 | 2.292 | 5.3 | 18.7 | 3 2 | 10 8.44 | + 9 58.5 | 1.633 | 2.612 | 4.2 | 20.1 |
| 3 12 | 10 1.77 | +14 37.0 | 1.341 | 2.284 | 10.3 | 19.0 | 3 12 | 9 59.64 | +11 4.4 | 1.666 | 2.607 | 8.7 | 20.4 |
| 3 22 | 9 56.25 | +15 21.1 | 1.392 | 2.276 | 14.8 | 19.2 | 3 22 | 9 52.69 | +11 59.3 | 1.724 | 2.602 | 12.8 | 20.6 |
| 4 1 | 9 53.53 | +15 46.2 | 1.462 | 2.270 | 18.6 | 19.5 | 4 1 | 9 48.24 | +12 39.7 | 1.804 | 2.595 | 16.2 | 20.8 |
| 271226 | 2003 <i>TL</i> ₄₈ | | 2 21.8 138°59 | 0°5/22.3 | 17 | | 55098 | 2001 <i>QS</i> ₁₃₃ | | 2 21.8 148°36 | 3°9/26.4 | 18 | |
| 1 22 | 10 39 | | | | | | | | | | | | |

EPHEMERIDES

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 341386 | 2007 <i>TS</i> ₁₂₆ | | 2 21.8 119°89 | 6°2/14.9 | 18 | | 353437 | 2011 <i>QP</i> ₆₃ | | 2 21.8 159°67 | 2°8/25.2 | 17 | |
| 1 22 | 10 42.68 | +31 37.6 | 2.524 | 3.375 | 9.7 | 20.8 | 1 22 | 10 35.89 | -1 57.2 | 2.737 | 3.537 | 10.6 | 21.2 |
| 2 1 | 10 35.87 | +32 37.3 | 2.483 | 3.388 | 7.7 | 20.7 | 2 1 | 10 31.01 | -1 39.3 | 2.655 | 3.540 | 8.1 | 21.0 |
| 2 11 | 10 27.44 | +33 27.8 | 2.468 | 3.401 | 6.4 | 20.6 | 2 11 | 10 24.87 | -1 7.6 | 2.599 | 3.544 | 5.4 | 20.9 |
| 2 21 | 10 18.13 | +34 3.1 | 2.482 | 3.413 | 6.5 | 20.6 | 2 21 | 10 17.98 | -0 24.3 | 2.572 | 3.547 | 3.2 | 20.7 |
| 3 2 | 10 8.88 | +34 19.2 | 2.524 | 3.425 | 8.0 | 20.7 | 3 2 | 10 10.97 | +0 27.2 | 2.575 | 3.549 | 3.4 | 20.7 |
| 3 12 | 10 0.59 | +34 15.1 | 2.592 | 3.437 | 10.1 | 20.9 | 3 12 | 10 4.53 | +1 22.5 | 2.608 | 3.552 | 5.8 | 20.9 |
| 3 22 | 9 53.97 | +33 51.9 | 2.684 | 3.449 | 12.1 | 21.1 | 3 22 | 9 59.20 | +2 17.2 | 2.668 | 3.554 | 8.5 | 21.1 |
| 4 1 | 9 49.44 | +33 12.4 | 2.796 | 3.460 | 13.8 | 21.2 | 4 1 | 9 55.42 | +3 7.4 | 2.753 | 3.556 | 10.9 | 21.2 |
| 256074 | 2006 <i>UD</i> ₁₈₂ | | 2 21.8 105°12 | 4°9/26.8 | 18 | | 238407 | 2004 <i>EE</i> ₆₅ | | 2 21.8 247°47 | 3°6/17.2 | 17 | |
| 1 22 | 10 39.18 | -7 0.8 | 1.911 | 2.699 | 14.9 | 20.9 | 1 22 | 10 37.08 | +19 54.5 | 2.547 | 3.410 | 9.2 | 20.2 |
| 2 1 | 10 33.66 | -6 32.8 | 1.845 | 2.717 | 11.7 | 20.7 | 2 1 | 10 32.09 | +21 19.9 | 2.469 | 3.397 | 6.6 | 20.0 |
| 2 11 | 10 26.36 | -5 41.0 | 1.802 | 2.735 | 8.3 | 20.5 | 2 11 | 10 25.56 | +22 47.3 | 2.420 | 3.384 | 4.2 | 19.8 |
| 2 21 | 10 18.05 | -4 28.3 | 1.786 | 2.752 | 5.5 | 20.4 | 2 21 | 10 18.04 | +24 10.3 | 2.401 | 3.371 | 3.9 | 19.8 |
| 3 2 | 10 9.69 | -3 0.3 | 1.799 | 2.769 | 5.2 | 20.4 | 3 2 | 10 10.28 | +25 22.5 | 2.412 | 3.357 | 6.0 | 19.9 |
| 3 12 | 10 2.25 | -1 25.3 | 1.840 | 2.785 | 7.8 | 20.6 | 3 12 | 10 3.11 | +26 19.3 | 2.451 | 3.343 | 8.8 | 20.1 |
| 3 22 | 9 56.51 | +0 8.6 | 1.908 | 2.801 | 11.0 | 20.8 | 3 22 | 9 57.22 | +26 58.4 | 2.516 | 3.329 | 11.4 | 20.2 |
| 4 1 | 9 52.96 | +1 34.3 | 1.999 | 2.817 | 13.9 | 21.0 | 4 1 | 9 53.15 | +27 19.5 | 2.602 | 3.315 | 13.7 | 20.4 |
| 463334 | 2012 <i>LO</i> ₈ | | 2 21.8 271°68 | 7°4/28.3 | 17 | | 30470 | 2000 <i>OR</i> ₁₉ | | 2 21.8 253°48 | 1°0/22.9 | 18 | R |
| 1 22 | 10 38.65 | -12 7.8 | 2.075 | 2.830 | 15.0 | 21.7 | 1 22 | 10 37.22 | +5 11.4 | 2.564 | 3.395 | 10.3 | 19.4 |
| 2 1 | 10 33.54 | -12 27.8 | 1.969 | 2.808 | 12.6 | 21.5 | 2 1 | 10 32.12 | +5 39.2 | 2.468 | 3.379 | 7.5 | 19.1 |
| 2 11 | 10 26.49 | -12 23.9 | 1.885 | 2.786 | 10.1 | 21.3 | 2 11 | 10 25.55 | +6 17.7 | 2.399 | 3.362 | 4.3 | 18.9 |
| 2 21 | 10 18.09 | -11 54.6 | 1.825 | 2.763 | 8.0 | 21.1 | 2 21 | 10 18.04 | +7 3.7 | 2.358 | 3.346 | 1.2 | 18.7 |
| 3 2 | 10 9.23 | -11 1.2 | 1.792 | 2.740 | 7.5 | 21.0 | 3 2 | 10 10.29 | +7 53.2 | 2.349 | 3.328 | 3.1 | 18.8 |
| 3 12 | 10 0.94 | -9 48.8 | 1.786 | 2.717 | 9.1 | 21.0 | 3 12 | 10 3.06 | +8 41.5 | 2.369 | 3.311 | 6.5 | 19.0 |
| 3 22 | 9 54.13 | -8 24.7 | 1.807 | 2.693 | 11.8 | 21.2 | 3 22 | 9 57.03 | +9 24.7 | 2.417 | 3.293 | 9.6 | 19.1 |
| 4 1 | 9 49.53 | -6 57.2 | 1.850 | 2.669 | 14.8 | 21.3 | 4 1 | 9 52.71 | +9 59.5 | 2.488 | 3.275 | 12.4 | 19.3 |
| 187598 | 2006 <i>WZ</i> ₁₉₀ | | 2 21.8 45°04 | 1°6/20.5 | 18 | | 422463 | 2014 <i>SA</i> ₃₁₅ | | 2 21.8 212°35 | 0°1/21.7 | 17 | |
| 1 22 | 10 38.89 | +11 17.8 | 1.518 | 2.386 | 14.0 | 19.8 | 1 22 | 10 40.99 | +8 10.6 | 1.992 | 2.836 | 12.2 | 22.3 |
| 2 1 | 10 33.86 | +12 21.6 | 1.462 | 2.394 | 9.8 | 19.6 | 2 1 | 10 35.08 | +8 55.8 | 1.910 | 2.830 | 8.7 | 22.1 |
| 2 11 | 10 26.63 | +13 36.0 | 1.429 | 2.402 | 5.1 | 19.3 | 2 11 | 10 27.24 | +9 52.5 | 1.854 | 2.823 | 4.7 | 21.8 |
| 2 21 | 10 18.10 | +14 52.7 | 1.423 | 2.411 | 1.7 | 19.1 | 2 21 | 10 18.17 | +10 55.6 | 1.826 | 2.815 | 0.3 | 21.4 |
| 3 2 | 10 9.48 | +16 2.8 | 1.445 | 2.420 | 5.6 | 19.4 | 3 2 | 10 8.85 | +11 58.5 | 1.829 | 2.806 | 4.1 | 21.7 |
| 3 12 | 10 2.02 | +16 58.9 | 1.494 | 2.429 | 10.1 | 19.6 | 3 12 | 10 0.32 | +12 54.9 | 1.860 | 2.797 | 8.3 | 22.0 |
| 3 22 | 9 56.64 | +17 36.9 | 1.565 | 2.438 | 14.1 | 19.9 | 3 22 | 9 53.44 | +13 40.3 | 1.918 | 2.788 | 12.0 | 22.2 |
| 4 1 | 9 53.92 | +17 55.5 | 1.657 | 2.448 | 17.4 | 20.2 | 4 1 | 9 48.83 | +14 11.8 | 1.997 | 2.777 | 15.2 | 22.4 |
| 245826 | 2006 <i>JS</i> ₄₅ | | 2 21.8 209°41 | 0°6/21.2 | 17 | | 79012 | 6678 <i>P-L</i> | | 2 21.8 100°33 | 1°4/20.8 | 18 | |
| 1 22 | 10 36.66 | +9 27.4 | 2.415 | 3.262 | 10.2 | 20.7 | 1 22 | 10 43.55 | +12 16.3 | 1.674 | 2.532 | 13.5 | 19.6 |
| 2 1 | 10 31.73 | +10 22.3 | 2.336 | 3.259 | 7.2 | 20.5 | 2 1 | 10 36.92 | +12 52.5 | 1.620 | 2.547 | 9.4 | 19.4 |
| 2 11 | 10 25.31 | +11 26.0 | 2.285 | 3.255 | 3.8 | 20.3 | 2 11 | 10 28.16 | +13 35.7 | 1.591 | 2.562 | 4.9 | 19.2 |
| 2 21 | 10 18.00 | +12 33.7 | 2.263 | 3.252 | 0.6 | 20.0 | 2 21 | 10 18.24 | +14 19.7 | 1.589 | 2.577 | 1.4 | 18.9 |
| 3 2 | 10 10.52 | +13 39.7 | 2.272 | 3.248 | 3.7 | 20.3 | 3 2 | 10 8.33 | +14 58.0 | 1.617 | 2.591 | 5.0 | 19.2 |
| 3 12 | 10 3.67 | +14 38.9 | 2.311 | 3.244 | 7.1 | 20.5 | 3 12 | 9 59.63 | +15 25.3 | 1.671 | 2.605 | 9.3 | 19.5 |
| 3 22 | 9 58.12 | +15 27.5 | 2.376 | 3.240 | 10.3 | 20.7 | 3 22 | 9 53.03 | +15 39.1 | 1.751 | 2.619 | 13.1 | 19.8 |
| 4 1 | 9 54.35 | +16 3.1 | 2.463 | 3.235 | 12.9 | 20.9 | 4 1 | 9 49.03 | +15 38.8 | 1.851 | 2.633 | 16.2 | 20.0 |
| 492899 | 2014 <i>QX</i> ₄₂₅ | | 2 21.8 214°16 | 2°6/24.1 | 17 | | 89853 | 2002 <i>CJ</i> ₈₄ | | 2 21.8 129°20 | 0°2/21.9 | 18 | |
| 1 22 | 10 41.83 | +0 56.5 | 2.067 | 2.884 | 12.9 | 22.4 | 1 22 | 10 37.66 | +6 31.9 | 1.952 | 2.798 | 12.3 | 19.6 |
| 2 1 | 10 35.64 | +1 13.7 | 1.977 | 2.875 | 9.7 | 22.2 | 2 1 | 10 32.67 | +7 31.0 | 1.882 | 2.802 | 8.8 | 19.4 |
| 2 11 | 10 27.53 | +1 46.8 | 1.912 | 2.866 | 6.1 | 22.0 | 2 11 | 10 25.90 | +8 43.5 | 1.837 | 2.805 | 4.8 | 19.2 |
| 2 21 | 10 18.18 | +2 33.3 | 1.874 | 2.856 | 2.9 | 21.7 | 2 21 | 10 18.07 | +10 3.4 | 1.820 | 2.809 | 0.5 | 18.8 |
| 3 2 | 10 8.54 | +3 28.4 | 1.867 | 2.845 | 4.0 | 21.8 | 3 2 | 10 10.08 | +11 23.7 | 1.833 | 2.812 | 3.9 | 19.1 |
| 3 12 | 9 59.61 | +4 26.2 | 1.889 | 2.833 | 7.7 | 22.0 | 3 12 | 10 2.93 | +12 37.1 | 1.875 | 2.815 | 8.0 | 19.4 |
| 3 22 | 9 52.28 | +5 20.9 | 1.938 | 2.821 | 11.3 | 22.2 | 3 22 | 9 57.37 | +13 38.6 | 1.942 | 2.818 | 11.7 | 19.6 |
| 4 1 | 9 47.16 | +6 7.7 | 2.010 | 2.807 | 14.6 | 22.4 | 4 1 | 9 53.97 | +14 24.8 | 2.032 | 2.821 | 14.7 | 19.8 |
| 68831 | 2002 <i>GG</i> ₈₉ | | 2 21.8 326°77 | 4°4/17.5 | 18 | | 364188 | 2006 <i>PC</i> ₂₆ | | 2 21.8 228°74 | 0°7/21.2 | 17 | |
| 1 22 | 10 35.91 | +16 47.7 | 1.606 | 2.484 | 12.8 | 18.2 | 1 22 | 10 41.31 | +9 52.7 | 1.926 | 2.775 | 12.3 | 21.7 |
| 2 1 | 10 31.92 | +18 39.2 | 1.535 | 2.472 | 9.0 | 17.9 | 2 1 | 10 35.40 | +10 38.7 | 1.842 | 2.765 | 8.7 | 21.4 |
| 2 11 | 10 25.70 | +20 38.9 | 1.491 | 2.461 | 5.4 | 17.7 | 2 11 | 10 27.45 | +11 35.3 | 1.784 | 2.754 | 4.6 | 21.2 |
| 2 21 | 10 18.04 | +22 36.0 | 1.473 | 2.450 | 4.7 | 17.6 | 2 21 | 10 18.20 | +12 36.8 | 1.754 | 2.743 | 0.7 | 20.8 |
| 3 2 | 10 10.05 | +24 19.0 | 1.484 | 2.440 | 7.9 | 17.8 | 3 2 | 10 8.64 | +13 36.4 | 1.754 | 2.731 | 4.5 | 21.1 |
| 3 12 | 10 2.98 | +25 39.2 | 1.520 | 2.430 | 12.0 | 18.0 | 3 12 | 9 59.89 | +14 27.9 | 1.783 | 2.718 | 8.8 | 21.3 |
| 3 22 | 9 57.85 | +26 32.5 | 1.579 | 2.420 | 15.7 | 18.2 | 3 22 | 9 52.85 | +15 6.8 | 1.837 | 2.705 | 12.6 | 21.5 |
| 4 1 | 9 55.37 | +26 58.6 | 1.656 | 2.412 | 18.8 | 18.4 | 4 1 | 9 48.19 | +15 31.0 | 1.913 | 2.691 | 15.9 | 21.7 |
| 150844 | 2001 <i>SN</i> ₆₆ | | 2 21.8 38°09 | 5°5/26.8 | 18 | | 34500 | 2000 <i>SW</i> ₁₅₄ | | 2 21.8 163°46 | 0°5/21.2 | 18 | |
| 1 22 | 10 36.28 | -6 40.9 | 1.499 | 2.310 | 17.2 | 19.3 | 1 22 | 10 37.01 | +10 41.8 | 2.911 | 3.754 | 8.8 | 19.6 |
| 2 1 | 10 32.01 | -6 15.6 | 1.437 | 2.322 | 13.6 | 19.1 | 2 1 | 10 31.73 | +11 16.6 | 2.838 | 3.758 | 6.2 | 19.4 |
| 2 11 | 10 25.64 | -5 21.1 | 1.395 | 2.334 | 9.6 | 18.9 | 2 11 | 10 25.22 | +11 57.0 | 2.793 | 3.762 | 3.2 | 19.2 |
| 2 21 | 10 18.03 | -4 0.6 | 1.378 | 2.348 | 6.2 | 18.7 | 2 21 | 10 18.02 | +12 39.4 | 2.778 | 3.766 | 0.5 | 19.0 |
| 3 2 | 10 10.32 | -2 21.4 | 1.388 | 2.361 | 5.9 | 18.7 | 3 2 | 10 10.72 | +13 19.9 | 2.794 | 3.770 | 3.1 | 19.2 |
| 3 12 | 10 3.69 | -0 34.2 | 1.424 | 2.375 | 8.9 | 18.9 | 3 12 | 10 4.00 | +13 55.1 | 2.841 | 3.773 | 6.0 | 19.4 |
| 3 22 | 9 59.05 | +1 10.3 | 1.484 | 2.390 | 12.7 | 19.2 | 3 22 | 9 58.39 | +14 22.6 | 2.915 | 3.775 | 8.7 | 19.6 |
| 4 1 | 9 56.94 | +2 43.7 | 1.567 | 2.405 | 16.1 | 19.5 | 4 1 | 9 54.28 | +14 40.7 | 3.012 | 3.777 | 10.9 | 19.8 |
| 246617 | 2008 <i>WX</i> ₂ | | 2 21.8 139°03 | 18°2/7.4 | 18 | | 377449 | 2004 <i>VW</i> ₈ | | 2 21.8 142°49 | 4°3/26.2 | 16 | |
| 1 22 | 10 47.37 | -29 38.9 | 1.398 | | | | | | | | | | |

EPHEMERIDES

2 21.8

2 21.9

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 162045 | 1996 <i>RM</i> ₁₆ | | 2 21.8 215°95 | 0°5/21.5 | 18 | | 518626 | 2008 <i>ET</i> ₁₇₁ | | 2 21.8 129°97 | 1°0/21.1 | 18 | |
| 1 22 | 10 42.69 | + 9 56.7 | 1.651 | 2.505 | 13.8 | 20.4 | 1 22 | 10 43.06 | +12 2.2 | 1.904 | 2.756 | 12.3 | 21.2 |
| 2 1 | 10 36.55 | +10 27.1 | 1.577 | 2.502 | 9.8 | 20.1 | 2 1 | 10 36.46 | +12 27.4 | 1.840 | 2.764 | 8.7 | 21.0 |
| 2 11 | 10 28.13 | +11 8.2 | 1.528 | 2.499 | 5.2 | 19.8 | 2 11 | 10 27.93 | +12 59.1 | 1.802 | 2.773 | 4.5 | 20.8 |
| 2 21 | 10 18.28 | +11 54.0 | 1.506 | 2.495 | 0.6 | 19.5 | 2 21 | 10 18.29 | +13 32.1 | 1.793 | 2.781 | 1.0 | 20.5 |
| 3 2 | 10 8.19 | +12 38.0 | 1.513 | 2.490 | 4.8 | 19.8 | 3 2 | 10 8.59 | +14 1.0 | 1.813 | 2.788 | 4.5 | 20.8 |
| 3 12 | 9 59.13 | +13 13.8 | 1.547 | 2.486 | 9.5 | 20.1 | 3 12 | 9 59.92 | +14 21.5 | 1.862 | 2.796 | 8.5 | 21.1 |
| 3 22 | 9 52.13 | +13 37.4 | 1.605 | 2.481 | 13.7 | 20.3 | 3 22 | 9 53.09 | +14 31.0 | 1.936 | 2.803 | 12.1 | 21.3 |
| 4 1 | 9 47.82 | +13 46.9 | 1.684 | 2.476 | 17.2 | 20.5 | 4 1 | 9 48.64 | +14 28.7 | 2.031 | 2.809 | 15.1 | 21.5 |
| 229118 | 2004 <i>RJ</i> ₁₀₅ | | 2 21.8 101°23 | 4°0/25.7 | 18 | | 213799 | 2003 <i>FK</i> ₁₁₆ | | 2 21.8 325°01 | 0°1/21.9 | 18 | |
| 1 22 | 10 39.35 | - 3 26.8 | 2.064 | 2.866 | 13.5 | 20.8 | 1 22 | 10 35.53 | + 7 20.4 | 2.112 | 2.960 | 11.4 | 20.0 |
| 2 1 | 10 33.71 | - 3 20.5 | 1.997 | 2.881 | 10.4 | 20.7 | 2 1 | 10 31.15 | + 8 5.4 | 2.031 | 2.952 | 8.2 | 19.8 |
| 2 11 | 10 26.40 | - 2 55.8 | 1.954 | 2.896 | 7.2 | 20.5 | 2 11 | 10 25.12 | + 9 2.0 | 1.976 | 2.945 | 4.4 | 19.5 |
| 2 21 | 10 18.14 | - 2 14.9 | 1.939 | 2.910 | 4.5 | 20.3 | 2 21 | 10 18.07 | +10 5.5 | 1.948 | 2.937 | 0.4 | 19.2 |
| 3 2 | 10 9.81 | - 1 22.0 | 1.952 | 2.924 | 4.6 | 20.4 | 3 2 | 10 10.82 | +11 10.0 | 1.951 | 2.930 | 3.7 | 19.4 |
| 3 12 | 10 2.32 | - 0 23.2 | 1.993 | 2.938 | 7.3 | 20.6 | 3 12 | 10 4.26 | +12 9.5 | 1.982 | 2.923 | 7.6 | 19.7 |
| 3 22 | 9 56.41 | + 0 35.7 | 2.062 | 2.952 | 10.4 | 20.8 | 3 22 | 9 59.12 | +12 59.3 | 2.038 | 2.917 | 11.1 | 19.9 |
| 4 1 | 9 52.57 | + 1 29.3 | 2.153 | 2.966 | 13.2 | 21.0 | 4 1 | 9 55.95 | +13 36.3 | 2.117 | 2.910 | 14.1 | 20.0 |
| 212958 | 2009 <i>BW</i> ₆₁ | | 2 21.8 218°54 | 0°1/21.9 | 17 | | 292802 | 2006 <i>UK</i> ₂₄₂ | | 2 21.8 215°67 | 2°7/24.8 | 17 | |
| 1 22 | 10 37.29 | + 8 22.0 | 2.610 | 3.450 | 9.8 | 21.5 | 1 22 | 10 36.08 | - 0 38.7 | 2.422 | 3.234 | 11.4 | 21.2 |
| 2 1 | 10 32.11 | + 8 55.6 | 2.526 | 3.444 | 7.0 | 21.3 | 2 1 | 10 31.33 | - 0 18.0 | 2.339 | 3.233 | 8.7 | 21.0 |
| 2 11 | 10 25.53 | + 9 37.3 | 2.469 | 3.437 | 3.8 | 21.1 | 2 11 | 10 25.14 | + 0 17.5 | 2.281 | 3.231 | 5.6 | 20.8 |
| 2 21 | 10 18.09 | +10 23.5 | 2.442 | 3.431 | 0.3 | 20.8 | 2 21 | 10 18.07 | + 1 5.2 | 2.251 | 3.230 | 3.0 | 20.6 |
| 3 2 | 10 10.48 | +11 9.9 | 2.445 | 3.424 | 3.2 | 21.0 | 3 2 | 10 10.86 | + 2 1.3 | 2.251 | 3.228 | 3.5 | 20.6 |
| 3 12 | 10 3.46 | +11 52.3 | 2.479 | 3.416 | 6.5 | 21.2 | 3 12 | 10 4.25 | + 3 0.4 | 2.280 | 3.227 | 6.4 | 20.8 |
| 3 22 | 9 57.64 | +12 27.2 | 2.539 | 3.409 | 9.5 | 21.4 | 3 22 | 9 58.90 | + 3 57.7 | 2.337 | 3.225 | 9.4 | 21.0 |
| 4 1 | 9 53.50 | +12 52.6 | 2.624 | 3.401 | 12.1 | 21.6 | 4 1 | 9 55.28 | + 4 48.9 | 2.417 | 3.224 | 12.1 | 21.2 |
| 523663 | 2012 <i>OZ</i> | | 2 21.8 142°14 | 4°9/16.9 | 18 C | | 274039 | 2007 <i>RL</i> ₂₁₁ | | 2 21.8 244°30 | 1°3/23.3 | 17 | |
| 1 22 | 10 46.16 | +20 6.7 | 1.961 | 2.819 | 11.8 | 24.5 | 1 22 | 10 37.38 | + 3 17.0 | 2.540 | 3.364 | 10.6 | 21.9 |
| 2 1 | 10 38.70 | +22 9.8 | 1.913 | 2.838 | 8.4 | 24.4 | 2 1 | 10 32.29 | + 3 58.7 | 2.441 | 3.347 | 7.8 | 21.7 |
| 2 11 | 10 29.15 | +24 13.0 | 1.895 | 2.856 | 5.5 | 24.2 | 2 11 | 10 25.70 | + 4 53.5 | 2.369 | 3.330 | 4.6 | 21.5 |
| 2 21 | 10 18.38 | +26 5.8 | 1.907 | 2.872 | 5.2 | 24.2 | 2 21 | 10 18.13 | + 5 57.9 | 2.326 | 3.312 | 1.5 | 21.2 |
| 3 2 | 10 7.53 | +27 39.1 | 1.949 | 2.888 | 7.7 | 24.4 | 3 2 | 10 10.29 | + 7 7.3 | 2.313 | 3.293 | 3.1 | 21.3 |
| 3 12 | 9 57.76 | +28 47.5 | 2.020 | 2.902 | 10.9 | 24.6 | 3 12 | 10 2.97 | + 8 16.2 | 2.331 | 3.274 | 6.5 | 21.5 |
| 3 22 | 9 49.98 | +29 30.3 | 2.116 | 2.914 | 13.8 | 24.8 | 3 22 | 9 56.84 | + 9 19.7 | 2.377 | 3.254 | 9.8 | 21.7 |
| 4 1 | 9 44.75 | +29 49.5 | 2.231 | 2.925 | 16.2 | 25.0 | 4 1 | 9 52.43 | +10 13.8 | 2.447 | 3.234 | 12.6 | 21.8 |
| 149471 | 2003 <i>EF</i> ₁₃ | | 2 21.8 243°71 | 0°1/21.8 | 18 | | 298888 | 2004 <i>SD</i> ₆₁ | | 2 21.8 128°57 | 1°8/20.3 | 18 | |
| 1 22 | 10 41.00 | + 9 12.4 | 2.001 | 2.848 | 12.1 | 20.4 | 1 22 | 10 42.88 | +12 2.7 | 1.790 | 2.646 | 12.8 | 21.3 |
| 2 1 | 10 35.11 | + 9 37.5 | 1.916 | 2.837 | 8.6 | 20.2 | 2 1 | 10 36.41 | +13 12.2 | 1.735 | 2.661 | 8.9 | 21.1 |
| 2 11 | 10 27.29 | +10 12.0 | 1.857 | 2.826 | 4.6 | 19.9 | 2 11 | 10 27.93 | +14 29.7 | 1.705 | 2.677 | 4.7 | 20.9 |
| 2 21 | 10 18.24 | +10 51.6 | 1.826 | 2.815 | 0.3 | 19.5 | 2 21 | 10 18.30 | +15 47.5 | 1.705 | 2.691 | 1.8 | 20.7 |
| 3 2 | 10 8.92 | +11 31.0 | 1.825 | 2.804 | 4.0 | 19.8 | 3 2 | 10 8.64 | +16 57.7 | 1.734 | 2.705 | 5.2 | 21.0 |
| 3 12 | 10 0.38 | +12 4.9 | 1.853 | 2.792 | 8.2 | 20.0 | 3 12 | 10 0.07 | +17 53.9 | 1.791 | 2.718 | 9.3 | 21.3 |
| 3 22 | 9 53.49 | +12 29.6 | 1.906 | 2.780 | 12.0 | 20.2 | 3 22 | 9 53.45 | +18 33.0 | 1.874 | 2.731 | 12.9 | 21.5 |
| 4 1 | 9 48.86 | +12 42.8 | 1.981 | 2.767 | 15.1 | 20.4 | 4 1 | 9 49.31 | +18 54.3 | 1.977 | 2.742 | 15.9 | 21.7 |
| 125433 | 2001 <i>VC</i> ₁₁₅ | | 2 21.8 126°93 | 0°4/21.5 | 18 | | 245447 | 2005 <i>KK</i> ₅ | | 2 21.8 0°71 | 5°1/16.9 | 17 | |
| 1 22 | 10 41.02 | +10 0.6 | 1.874 | 2.726 | 12.5 | 19.5 | 1 22 | 10 38.08 | +22 23.2 | 1.859 | 2.732 | 11.5 | 20.4 |
| 2 1 | 10 35.09 | +10 29.7 | 1.807 | 2.731 | 8.8 | 19.3 | 2 1 | 10 33.16 | +23 40.8 | 1.801 | 2.731 | 8.4 | 20.2 |
| 2 11 | 10 27.22 | +11 7.7 | 1.765 | 2.735 | 4.7 | 19.0 | 2 11 | 10 26.25 | +24 57.2 | 1.769 | 2.731 | 5.7 | 20.1 |
| 2 21 | 10 18.23 | +11 49.4 | 1.751 | 2.740 | 0.5 | 18.7 | 2 21 | 10 18.17 | +26 4.0 | 1.764 | 2.731 | 5.4 | 20.1 |
| 3 2 | 10 9.12 | +12 29.3 | 1.767 | 2.744 | 4.2 | 19.0 | 3 2 | 10 9.96 | +26 53.9 | 1.787 | 2.731 | 7.8 | 20.2 |
| 3 12 | 10 0.97 | +13 1.9 | 1.810 | 2.748 | 8.4 | 19.3 | 3 12 | 10 2.72 | +27 22.6 | 1.836 | 2.732 | 11.0 | 20.4 |
| 3 22 | 9 54.60 | +13 24.0 | 1.879 | 2.752 | 12.1 | 19.5 | 3 22 | 9 57.31 | +27 29.4 | 1.908 | 2.733 | 14.0 | 20.6 |
| 4 1 | 9 50.58 | +13 33.8 | 1.969 | 2.756 | 15.2 | 19.7 | 4 1 | 9 54.28 | +27 15.5 | 1.998 | 2.735 | 16.6 | 20.8 |
| 163475 | 2002 <i>RQ</i> ₂₁₂ | | 2 21.8 184°64 | 3°5/17.8 | 18 | | 231473 | 2007 <i>TL</i> ₄₀₈ | | 2 21.9 129°36 | 4°6/16.9 | 18 | |
| 1 22 | 10 38.32 | +19 35.2 | 2.399 | 3.261 | 9.7 | 20.0 | 1 22 | 10 38.95 | +23 23.2 | 2.309 | 3.173 | 10.0 | 20.5 |
| 2 1 | 10 32.96 | +20 46.7 | 2.333 | 3.261 | 6.9 | 19.8 | 2 1 | 10 33.45 | +24 30.6 | 2.251 | 3.177 | 7.3 | 20.3 |
| 2 11 | 10 26.02 | +21 59.2 | 2.295 | 3.261 | 4.3 | 19.7 | 2 11 | 10 26.29 | +25 35.7 | 2.221 | 3.180 | 5.0 | 20.2 |
| 2 21 | 10 18.14 | +23 6.5 | 2.287 | 3.260 | 3.7 | 19.6 | 2 21 | 10 18.18 | +26 31.8 | 2.220 | 3.183 | 4.8 | 20.2 |
| 3 2 | 10 10.12 | +24 2.7 | 2.309 | 3.259 | 5.9 | 19.7 | 3 2 | 10 9.98 | +27 13.5 | 2.247 | 3.186 | 6.8 | 20.3 |
| 3 12 | 10 2.81 | +24 43.7 | 2.359 | 3.258 | 8.7 | 19.9 | 3 12 | 10 2.60 | +27 37.5 | 2.302 | 3.189 | 9.5 | 20.5 |
| 3 22 | 9 56.93 | +25 7.8 | 2.433 | 3.257 | 11.4 | 20.1 | 3 22 | 9 56.76 | +27 43.2 | 2.381 | 3.192 | 12.0 | 20.6 |
| 4 1 | 9 52.96 | +25 15.2 | 2.529 | 3.255 | 13.7 | 20.3 | 4 1 | 9 52.95 | +27 31.8 | 2.480 | 3.195 | 14.2 | 20.8 |
| 244730 | 2003 <i>RB</i> ₁₂ | | 2 21.8 152°35 | 2°6/19.4 | 18 | | 128978 | 2004 <i>TH</i> ₁₇₆ | | 2 21.9 178°29 | 0°3/21.6 | 18 | |
| 1 22 | 10 43.06 | +15 38.5 | 2.054 | 2.910 | 11.4 | 21.7 | 1 22 | 10 43.01 | + 9 0.1 | 1.932 | 2.777 | 12.5 | 20.8 |
| 2 1 | 10 36.39 | +16 40.9 | 1.994 | 2.920 | 8.0 | 21.5 | 2 1 | 10 36.50 | + 9 40.7 | 1.859 | 2.779 | 8.9 | 20.6 |
| 2 11 | 10 27.87 | +17 47.2 | 1.960 | 2.930 | 4.4 | 21.3 | 2 11 | 10 28.01 | +10 31.6 | 1.812 | 2.781 | 4.7 | 20.3 |
| 2 21 | 10 18.28 | +18 50.5 | 1.956 | 2.939 | 2.7 | 21.2 | 2 21 | 10 18.32 | +11 27.3 | 1.793 | 2.782 | 0.4 | 20.0 |
| 3 2 | 10 8.62 | +19 44.4 | 1.982 | 2.947 | 5.4 | 21.4 | 3 2 | 10 8.45 | +12 21.6 | 1.804 | 2.782 | 4.2 | 20.3 |
| 3 12 | 9 59.92 | +20 24.1 | 2.037 | 2.954 | 9.0 | 21.6 | 3 12 | 9 59.50 | +13 8.5 | 1.845 | 2.781 | 8.4 | 20.5 |
| 3 22 | 9 52.96 | +20 47.5 | 2.118 | 2.960 | 12.2 | 21.8 | 3 22 | 9 52.33 | +13 44.1 | 1.911 | 2.780 | 12.2 | 20.8 |
| 4 1 | 9 48.29 | +20 54.7 | 2.219 | 2.966 | 14.9 | 22.0 | 4 1 | 9 47.53 | +14 6.2 | 1.999 | 2.777 | 15.3 | 21.0 |
| 92118 | 1999 <i>XK</i> ₈₁ | | 2 21.8 57°75 | 2°9/24.9 | 18 | | 118255 | 1 | | | | | |

EPHEMERIDES

2 21.9

2 21.9

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 418366 | 2008 <i>GD</i> ₁₂₃ | | 2 21.9 331°74 | 4.4/25.4 | 18 | | 201490 | 2003 <i>HX</i> ₅₁ | | 2 21.9 267°73 | 3.2/24.9 | 18 | |
| 1 22 | 10 36.64 | − 2 32.9 | 1.494 | 2.323 | 16.4 | 20.9 | 1 22 | 10 37.28 | − 1 45.0 | 1.972 | 2.788 | 13.5 | 20.4 |
| 2 1 | 10 32.51 | − 2 20.1 | 1.413 | 2.314 | 12.7 | 20.6 | 2 1 | 10 32.57 | − 1 12.3 | 1.879 | 2.775 | 10.3 | 20.1 |
| 2 11 | 10 26.09 | − 1 42.3 | 1.354 | 2.305 | 8.6 | 20.4 | 2 11 | 10 26.00 | − 0 19.3 | 1.810 | 2.761 | 6.8 | 19.9 |
| 2 21 | 10 18.19 | − 0 41.6 | 1.320 | 2.297 | 5.0 | 20.1 | 2 21 | 10 18.22 | + 0 51.3 | 1.769 | 2.747 | 3.6 | 19.7 |
| 3 2 | 10 9.93 | + 0 35.9 | 1.311 | 2.289 | 5.3 | 20.1 | 3 2 | 10 10.11 | + 2 14.0 | 1.755 | 2.734 | 4.2 | 19.7 |
| 3 12 | 10 2.61 | + 2 1.0 | 1.329 | 2.282 | 9.2 | 20.3 | 3 12 | 10 2.69 | + 3 41.2 | 1.771 | 2.720 | 7.7 | 19.9 |
| 3 22 | 9 57.27 | + 3 24.1 | 1.371 | 2.276 | 13.5 | 20.6 | 3 22 | 9 56.79 | + 5 5.5 | 1.813 | 2.706 | 11.5 | 20.1 |
| 4 1 | 9 54.62 | + 4 37.2 | 1.433 | 2.270 | 17.4 | 20.8 | 4 1 | 9 53.06 | + 6 20.3 | 1.878 | 2.691 | 14.8 | 20.2 |
| 413915 | 2006 <i>WM</i> ₉₅ | | 2 21.9 213°46 | 1.4/20.6 | 18 | | 214785 | 2006 <i>UZ</i> ₁₁₆ | | 2 21.9 231°31 | 0.2/22.0 | 17 | |
| 1 22 | 10 40.71 | +11 50.8 | 1.890 | 2.746 | 12.2 | 21.7 | 1 22 | 10 37.27 | + 8 8.4 | 2.404 | 3.246 | 10.4 | 21.1 |
| 2 1 | 10 34.98 | +12 40.3 | 1.815 | 2.742 | 8.6 | 21.5 | 2 1 | 10 32.19 | + 8 37.5 | 2.325 | 3.244 | 7.4 | 20.9 |
| 2 11 | 10 27.24 | +13 38.2 | 1.766 | 2.738 | 4.5 | 21.2 | 2 11 | 10 25.63 | + 9 15.1 | 2.274 | 3.242 | 4.0 | 20.7 |
| 2 21 | 10 18.27 | +14 38.4 | 1.746 | 2.733 | 1.4 | 21.0 | 2 21 | 10 18.19 | + 9 57.7 | 2.251 | 3.240 | 0.4 | 20.4 |
| 3 2 | 10 9.09 | +15 34.1 | 1.754 | 2.728 | 4.8 | 21.2 | 3 2 | 10 10.60 | +10 40.7 | 2.258 | 3.237 | 3.3 | 20.6 |
| 3 12 | 10 0.78 | +16 19.4 | 1.791 | 2.723 | 9.0 | 21.4 | 3 12 | 10 3.66 | +11 19.7 | 2.295 | 3.235 | 6.8 | 20.9 |
| 3 22 | 9 54.23 | +16 50.5 | 1.853 | 2.717 | 12.7 | 21.7 | 3 22 | 9 58.03 | +11 51.3 | 2.358 | 3.232 | 9.9 | 21.1 |
| 4 1 | 9 50.05 | +17 6.1 | 1.935 | 2.711 | 15.8 | 21.9 | 4 1 | 9 54.19 | +12 13.2 | 2.445 | 3.230 | 12.6 | 21.2 |
| 294595 | Shingareva | | 2 21.9 133°40 | 2.8/25.1 | 18 | | 242175 | 2003 <i>HY</i> ₁₄ | | 2 21.9 328°79 | 6.5/17.6 | 18 | |
| 1 22 | 10 36.24 | − 1 32.1 | 2.553 | 3.358 | 11.1 | 20.9 | 1 22 | 10 40.17 | +20 53.3 | 1.105 | 1.996 | 16.1 | 20.2 |
| 2 1 | 10 31.35 | − 1 10.4 | 2.475 | 3.364 | 8.5 | 20.7 | 2 1 | 10 35.84 | +22 7.2 | 1.039 | 1.979 | 11.8 | 19.9 |
| 2 11 | 10 25.12 | − 0 34.1 | 2.423 | 3.370 | 5.6 | 20.5 | 2 11 | 10 28.23 | +23 23.9 | 0.993 | 1.962 | 7.7 | 19.6 |
| 2 21 | 10 18.10 | + 0 14.2 | 2.399 | 3.376 | 3.1 | 20.4 | 2 21 | 10 18.42 | +24 30.5 | 0.972 | 1.947 | 6.9 | 19.5 |
| 3 2 | 10 10.97 | + 1 10.7 | 2.405 | 3.381 | 3.5 | 20.4 | 3 2 | 10 8.12 | +25 14.1 | 0.973 | 1.932 | 10.5 | 19.6 |
| 3 12 | 10 4.46 | + 2 10.4 | 2.441 | 3.387 | 6.1 | 20.6 | 3 12 | 9 59.27 | +25 27.2 | 0.997 | 1.918 | 15.4 | 19.9 |
| 3 22 | 9 59.15 | + 3 8.7 | 2.505 | 3.392 | 8.9 | 20.7 | 3 22 | 9 53.36 | +25 9.0 | 1.039 | 1.906 | 20.1 | 20.1 |
| 4 1 | 9 55.49 | + 4 1.2 | 2.592 | 3.397 | 11.5 | 20.9 | 4 1 | 9 51.23 | +24 22.7 | 1.096 | 1.895 | 24.1 | 20.3 |
| 253057 | 2002 <i>TK</i> ₄₈ | | 2 21.9 42°78 | 7.4/28.7 | 18 | | 177765 | 2005 <i>JM</i> ₁₂₇ | | 2 21.9 261°22 | 0.1/21.9 | 18 | |
| 1 22 | 10 37.64 | −11 28.4 | 1.683 | 2.458 | 17.1 | 20.1 | 1 22 | 10 40.14 | + 7 33.7 | 1.814 | 2.662 | 13.0 | 21.1 |
| 2 1 | 10 32.97 | −11 29.5 | 1.606 | 2.461 | 14.2 | 19.9 | 2 1 | 10 34.77 | + 8 17.0 | 1.724 | 2.646 | 9.4 | 20.8 |
| 2 11 | 10 26.23 | −11 0.8 | 1.550 | 2.463 | 11.0 | 19.7 | 2 11 | 10 27.26 | + 9 14.0 | 1.660 | 2.629 | 5.1 | 20.5 |
| 2 21 | 10 18.20 | −10 2.5 | 1.517 | 2.466 | 8.3 | 19.5 | 2 21 | 10 18.33 | +10 19.5 | 1.623 | 2.612 | 0.4 | 20.1 |
| 3 2 | 10 9.93 | − 8 38.9 | 1.511 | 2.469 | 7.5 | 19.5 | 3 2 | 10 9.02 | +11 26.6 | 1.615 | 2.594 | 4.3 | 20.4 |
| 3 12 | 10 2.58 | − 6 58.4 | 1.530 | 2.472 | 9.4 | 19.6 | 3 12 | 10 0.47 | +12 27.8 | 1.636 | 2.576 | 8.9 | 20.6 |
| 3 22 | 9 57.08 | − 5 11.3 | 1.575 | 2.475 | 12.5 | 19.8 | 3 22 | 9 53.67 | +13 17.7 | 1.681 | 2.558 | 13.1 | 20.8 |
| 4 1 | 9 54.05 | − 3 27.6 | 1.643 | 2.478 | 15.6 | 20.0 | 4 1 | 9 49.33 | +13 52.8 | 1.748 | 2.540 | 16.6 | 21.0 |
| 357176 | 2002 <i>EC</i> ₂₃ | | 2 21.9 337°07 | 0.6/21.5 | 15 | | 463632 | 2013 <i>TW</i> ₆₇ | | 2 21.9 323°59 | 5.9/25.9 | 18 | |
| 1 22 | 10 40.06 | +10 0.9 | 1.241 | 2.114 | 16.1 | 21.6 | 1 22 | 10 38.53 | − 4 16.8 | 1.544 | 2.360 | 16.5 | 20.3 |
| 2 1 | 10 35.28 | +10 28.4 | 1.172 | 2.105 | 11.5 | 21.3 | 2 1 | 10 33.87 | − 4 40.7 | 1.459 | 2.348 | 13.2 | 20.0 |
| 2 11 | 10 27.71 | +11 9.6 | 1.124 | 2.097 | 6.2 | 20.9 | 2 11 | 10 26.87 | − 4 41.4 | 1.395 | 2.336 | 9.5 | 19.8 |
| 2 21 | 10 18.33 | +11 57.7 | 1.101 | 2.090 | 0.7 | 20.5 | 2 21 | 10 18.31 | − 4 18.9 | 1.356 | 2.324 | 6.4 | 19.6 |
| 3 2 | 10 8.61 | +12 44.1 | 1.104 | 2.084 | 5.7 | 20.9 | 3 2 | 10 9.32 | − 3 36.2 | 1.342 | 2.313 | 6.4 | 19.6 |
| 3 12 | 10 0.16 | +13 20.4 | 1.131 | 2.078 | 11.3 | 21.2 | 3 12 | 10 1.23 | − 2 40.2 | 1.354 | 2.303 | 9.6 | 19.7 |
| 3 22 | 9 54.21 | +13 41.6 | 1.180 | 2.073 | 16.2 | 21.4 | 3 22 | 9 55.10 | − 1 39.0 | 1.390 | 2.293 | 13.6 | 19.9 |
| 4 1 | 9 51.52 | +13 45.3 | 1.246 | 2.069 | 20.4 | 21.7 | 4 1 | 9 51.71 | − 0 40.8 | 1.447 | 2.284 | 17.3 | 20.1 |
| 16797 | Wilkinson | | 2 21.9 58°67 | 3.0/24.6 | 18 | | 43402 | 2000 <i>WO</i> ₁₁₇ | | 2 21.9 27°85 | 2.9/23.7 | 18 | |
| 1 22 | 10 38.58 | + 0 17.5 | 2.145 | 2.963 | 12.5 | 18.0 | 1 22 | 10 42.08 | + 2 59.2 | 1.414 | 2.258 | 16.3 | 18.7 |
| 2 1 | 10 33.14 | + 0 14.9 | 2.080 | 2.976 | 9.4 | 17.8 | 2 1 | 10 36.35 | + 2 51.3 | 1.348 | 2.261 | 12.1 | 18.4 |
| 2 11 | 10 26.12 | + 0 26.7 | 2.039 | 2.990 | 6.1 | 17.6 | 2 11 | 10 28.13 | + 3 1.3 | 1.303 | 2.265 | 7.4 | 18.2 |
| 2 21 | 10 18.20 | + 0 50.7 | 2.026 | 3.005 | 3.3 | 17.4 | 2 21 | 10 18.40 | + 3 26.2 | 1.284 | 2.268 | 3.3 | 17.9 |
| 3 2 | 10 10.23 | + 1 23.2 | 2.042 | 3.019 | 3.9 | 17.5 | 3 2 | 10 8.48 | + 4 0.6 | 1.292 | 2.272 | 4.9 | 18.1 |
| 3 12 | 10 3.08 | + 1 59.6 | 2.087 | 3.033 | 6.9 | 17.7 | 3 12 | 9 59.76 | + 4 37.5 | 1.326 | 2.276 | 9.5 | 18.3 |
| 3 22 | 9 57.41 | + 2 35.0 | 2.158 | 3.048 | 10.0 | 17.9 | 3 22 | 9 53.32 | + 5 10.7 | 1.383 | 2.281 | 14.0 | 18.6 |
| 4 1 | 9 53.72 | + 3 5.8 | 2.252 | 3.062 | 12.8 | 18.1 | 4 1 | 9 49.81 | + 5 35.1 | 1.460 | 2.285 | 17.7 | 18.8 |
| 199848 | 2007 <i>EK</i> ₇₅ | | 2 21.9 267°09 | 4.1/25.9 | 18 | | 279580 | 2011 <i>DJ</i> ₂₃ | | 2 21.9 17°53 | 0.6/22.4 | 18 | |
| 1 22 | 10 36.82 | − 4 45.0 | 1.997 | 2.798 | 13.9 | 20.5 | 1 22 | 10 37.86 | + 6 21.2 | 1.743 | 2.593 | 13.4 | 20.7 |
| 2 1 | 10 32.22 | − 4 13.8 | 1.903 | 2.786 | 10.9 | 20.3 | 2 1 | 10 33.02 | + 7 0.3 | 1.673 | 2.595 | 9.6 | 20.4 |
| 2 11 | 10 25.80 | − 3 20.0 | 1.833 | 2.774 | 7.6 | 20.1 | 2 11 | 10 26.23 | + 7 53.3 | 1.628 | 2.597 | 5.3 | 20.2 |
| 2 21 | 10 18.19 | − 2 5.8 | 1.789 | 2.761 | 4.6 | 19.9 | 2 21 | 10 18.25 | + 8 55.1 | 1.610 | 2.599 | 0.9 | 19.8 |
| 3 2 | 10 10.27 | − 0 36.3 | 1.774 | 2.748 | 4.7 | 19.8 | 3 2 | 10 10.11 | + 9 58.6 | 1.621 | 2.601 | 4.1 | 20.1 |
| 3 12 | 10 3.02 | + 1 0.8 | 1.787 | 2.736 | 7.7 | 20.0 | 3 12 | 10 2.89 | +10 56.9 | 1.659 | 2.604 | 8.5 | 20.4 |
| 3 22 | 9 57.28 | + 2 37.2 | 1.828 | 2.723 | 11.3 | 20.2 | 3 22 | 9 57.45 | +11 44.7 | 1.722 | 2.607 | 12.4 | 20.6 |
| 4 1 | 9 53.66 | + 4 5.7 | 1.892 | 2.710 | 14.6 | 20.4 | 4 1 | 9 54.37 | +12 18.5 | 1.806 | 2.610 | 15.7 | 20.8 |
| 428926 | 2008 <i>WE</i> ₆₇ | | 2 21.9 71°64 | 0.4/22.2 | 18 | | 234228 | 2000 <i>SZ</i> ₂₂₇ | | 2 21.9 180°60 | 3.1/19.0 | 18 | |
| 1 22 | 10 38.85 | + 7 8.4 | 2.000 | 2.845 | 12.1 | 21.4 | 1 22 | 10 44.46 | +17 41.4 | 2.096 | 2.951 | 11.2 | 21.7 |
| 2 1 | 10 33.38 | + 7 43.5 | 1.944 | 2.863 | 8.6 | 21.2 | 2 1 | 10 37.47 | +18 38.7 | 2.028 | 2.953 | 7.9 | 21.4 |
| 2 11 | 10 26.25 | + 8 29.2 | 1.914 | 2.882 | 4.7 | 21.0 | 2 11 | 10 28.53 | +19 38.2 | 1.987 | 2.954 | 4.6 | 21.2 |
| 2 21 | 10 18.21 | + 9 20.7 | 1.912 | 2.900 | 0.6 | 20.7 | 2 21 | 10 18.44 | +20 33.2 | 1.975 | 2.955 | 3.2 | 21.2 |
| 3 2 | 10 10.17 | +10 12.3 | 1.939 | 2.919 | 3.6 | 21.0 | 3 2 | 10 8.21 | +21 17.3 | 1.994 | 2.954 | 5.8 | 21.3 |
| 3 12 | 10 3.05 | +10 58.6 | 1.995 | 2.937 | 7.5 | 21.3 | 3 12 | 9 58.89 | +21 46.4 | 2.042 | 2.952 | 9.3 | 21.5 |
| 3 22 | 9 57.54 | +11 35.7 | 2.077 | 2.955 | 10.9 | 21.5 | 3 22 | 9 51.35 | +21 58.9 | 2.115 | 2.950 | 12.5 | 21.7 |
| 4 1 | 9 54.12 | +12 1.2 | 2.181 | 2.973 | 13.7 | 21.7 | 4 1 | 9 46.14 | +21 55.2 | 2.209 | 2.947 | 15.2 | 21.9 |
| 360218 | 1999 <i>RZ</i> ₁₀₅ | | 2 21.9 235°81 | 6.0/27.3 | 17 | | 205554 | 2001 <i>SH</i> ₂₄₃ | | 2 21.9 113°87 | 2.9/25.3 | 18 | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------------|----------|---------|------|---------------|-------------------------------|-----------------|----------------|----------|---------|------|
| 106917 | 2000 <i>YT</i> ₅₂ | | 2 21.9 49°44' | 4.2/18.0 | 18 | | 216529 | 2001 <i>OH</i> ₈₄ | | 2 21.9 167°38' | 1.7/19.9 | 17 | |
| 1 22 | 10 38.96 | +18 32.4 | 1.712 | 2.585 | 12.4 | 19.2 | 1 22 | 10 40.97 | +14 7.0 | 2.580 | 3.428 | 9.6 | 21.3 |
| 2 1 | 10 33.83 | +19 54.5 | 1.661 | 2.594 | 8.7 | 19.0 | 2 1 | 10 34.72 | +15 3.1 | 2.512 | 3.435 | 6.7 | 21.1 |
| 2 11 | 10 26.65 | +21 18.6 | 1.636 | 2.604 | 5.3 | 18.8 | 2 11 | 10 26.98 | +16 3.5 | 2.471 | 3.441 | 3.6 | 20.9 |
| 2 21 | 10 18.29 | +22 35.8 | 1.638 | 2.614 | 4.4 | 18.7 | 2 21 | 10 18.38 | +17 3.0 | 2.461 | 3.446 | 1.8 | 20.8 |
| 3 2 | 10 9.87 | +23 38.1 | 1.668 | 2.624 | 7.2 | 18.9 | 3 2 | 10 9.68 | +17 56.5 | 2.482 | 3.450 | 4.2 | 20.9 |
| 3 12 | 10 2.53 | +24 20.0 | 1.724 | 2.634 | 10.7 | 19.2 | 3 12 | 10 1.67 | +18 39.9 | 2.534 | 3.453 | 7.3 | 21.1 |
| 3 22 | 9 57.14 | +24 40.2 | 1.803 | 2.644 | 14.0 | 19.4 | 3 22 | 9 55.00 | +19 10.9 | 2.613 | 3.455 | 10.2 | 21.3 |
| 4 1 | 9 54.22 | +24 39.5 | 1.902 | 2.655 | 16.8 | 19.6 | 4 1 | 9 50.15 | +19 28.6 | 2.714 | 3.457 | 12.5 | 21.5 |
| 456593 | 2007 <i>EX</i> ₁₄ | | 2 21.9 329°61' | 0°6/22.3 | 17 | | 318799 | 2005 <i>SA</i> ₁₄₂ | | 2 21.9 123°37' | 5°2/17.3 | 18 | |
| 1 22 | 10 35.99 | + 6 43.8 | 1.357 | 2.223 | 15.4 | 20.2 | 1 22 | 10 45.92 | +25 43.0 | 2.145 | 3.001 | 11.0 | 21.0 |
| 2 1 | 10 32.35 | + 7 15.9 | 1.272 | 2.201 | 11.2 | 19.9 | 2 1 | 10 38.35 | +26 34.7 | 2.099 | 3.017 | 8.1 | 20.9 |
| 2 11 | 10 26.18 | + 8 6.2 | 1.209 | 2.180 | 6.3 | 19.6 | 2 11 | 10 28.94 | +27 20.2 | 2.079 | 3.033 | 5.8 | 20.8 |
| 2 21 | 10 18.27 | + 9 9.5 | 1.171 | 2.159 | 0.9 | 19.2 | 2 21 | 10 18.55 | +27 53.2 | 2.089 | 3.048 | 5.4 | 20.8 |
| 3 2 | 10 9.86 | +10 17.5 | 1.158 | 2.140 | 5.0 | 19.4 | 3 2 | 10 8.24 | +28 8.9 | 2.128 | 3.063 | 7.4 | 20.9 |
| 3 12 | 10 2.39 | +11 20.6 | 1.170 | 2.121 | 10.5 | 19.6 | 3 12 | 9 59.07 | +28 5.3 | 2.194 | 3.077 | 10.1 | 21.1 |
| 3 22 | 9 57.07 | +12 11.2 | 1.205 | 2.104 | 15.5 | 19.9 | 3 22 | 9 51.81 | +27 43.6 | 2.285 | 3.091 | 12.7 | 21.3 |
| 4 1 | 9 54.73 | +12 44.3 | 1.258 | 2.088 | 19.8 | 20.1 | 4 1 | 9 46.92 | +27 6.4 | 2.396 | 3.104 | 14.9 | 21.5 |
| 298858 | 2004 <i>RO</i> ₂₅₀ | | 2 21.9 125°99' | 2°2/23.7 | 18 | | 376738 | 1999 <i>TG</i> ₈₃ | | 2 21.9 207°01' | 0°1/21.9 | 17 | |
| 1 22 | 10 43.66 | + 2 14.4 | 1.869 | 2.692 | 13.8 | 21.4 | 1 22 | 10 39.09 | + 8 3.3 | 2.424 | 3.263 | 10.5 | 22.4 |
| 2 1 | 10 36.88 | + 2 36.9 | 1.807 | 2.711 | 10.2 | 21.2 | 2 1 | 10 33.53 | + 8 41.6 | 2.341 | 3.258 | 7.5 | 22.2 |
| 2 11 | 10 28.19 | + 3 15.0 | 1.770 | 2.728 | 6.1 | 21.0 | 2 11 | 10 26.42 | + 9 29.0 | 2.284 | 3.252 | 4.0 | 21.9 |
| 2 21 | 10 18.42 | + 4 4.7 | 1.761 | 2.745 | 2.5 | 20.8 | 2 21 | 10 18.36 | +10 21.6 | 2.257 | 3.246 | 0.4 | 21.6 |
| 3 2 | 10 8.62 | + 5 0.3 | 1.782 | 2.761 | 3.9 | 20.9 | 3 2 | 10 10.11 | +11 14.4 | 2.261 | 3.239 | 3.4 | 21.9 |
| 3 12 | 9 59.85 | + 5 55.4 | 1.832 | 2.777 | 7.8 | 21.2 | 3 12 | 10 2.49 | +12 2.6 | 2.294 | 3.232 | 6.9 | 22.1 |
| 3 22 | 9 52.94 | + 6 44.6 | 1.908 | 2.791 | 11.5 | 21.4 | 3 22 | 9 56.19 | +12 42.5 | 2.355 | 3.224 | 10.2 | 22.3 |
| 4 1 | 9 48.41 | + 7 23.9 | 2.007 | 2.805 | 14.6 | 21.7 | 4 1 | 9 51.74 | +13 11.7 | 2.439 | 3.216 | 12.9 | 22.4 |
| 379864 | 2012 <i>HK</i> ₃ | | 2 21.9 192°64' | 3°5/17.6 | 17 | | 238473 | 2004 <i>RN</i> ₇₆ | | 2 21.9 116°42' | 1°2/22.9 | 18 | |
| 1 22 | 10 40.41 | +21 0.3 | 2.705 | 3.561 | 9.0 | 21.7 | 1 22 | 10 42.07 | + 3 35.4 | 1.735 | 2.570 | 14.2 | 20.7 |
| 2 1 | 10 34.34 | +22 6.6 | 2.635 | 3.559 | 6.4 | 21.6 | 2 1 | 10 35.91 | + 4 31.3 | 1.677 | 2.590 | 10.2 | 20.4 |
| 2 11 | 10 26.78 | +23 12.8 | 2.594 | 3.556 | 4.1 | 21.4 | 2 11 | 10 27.75 | + 5 43.9 | 1.644 | 2.608 | 5.8 | 20.2 |
| 2 21 | 10 18.32 | +24 13.1 | 2.583 | 3.552 | 3.7 | 21.4 | 2 21 | 10 18.47 | + 7 6.9 | 1.638 | 2.626 | 1.5 | 20.0 |
| 3 2 | 10 9.70 | +25 2.4 | 2.602 | 3.547 | 5.6 | 21.5 | 3 2 | 10 9.15 | + 8 32.2 | 1.663 | 2.643 | 4.0 | 20.2 |
| 3 12 | 10 1.74 | +25 37.4 | 2.651 | 3.542 | 8.2 | 21.6 | 3 12 | 10 0.92 | + 9 51.7 | 1.715 | 2.659 | 8.3 | 20.5 |
| 3 22 | 9 55.08 | +25 56.6 | 2.725 | 3.536 | 10.7 | 21.8 | 3 22 | 9 54.60 | +10 59.4 | 1.794 | 2.675 | 12.2 | 20.7 |
| 4 1 | 9 50.22 | +26 0.4 | 2.821 | 3.530 | 12.8 | 21.9 | 4 1 | 9 50.73 | +11 51.6 | 1.895 | 2.690 | 15.4 | 21.0 |
| 472846 | 2015 <i>FJ</i> ₂₈₄ | | 2 21.9 273°96' | 0°4/21.4 | 17 | | 10215 | Lavilledemirmont | | 2 21.9 135°08' | 0°3/21.6 | 18 | |
| 1 22 | 10 36.21 | + 8 53.5 | 2.418 | 3.265 | 10.3 | 21.5 | 1 22 | 10 38.87 | + 9 34.0 | 2.469 | 3.312 | 10.2 | 19.8 |
| 2 1 | 10 31.57 | + 9 47.6 | 2.326 | 3.248 | 7.3 | 21.3 | 2 1 | 10 33.26 | +10 9.0 | 2.402 | 3.322 | 7.2 | 19.6 |
| 2 11 | 10 25.38 | +10 51.7 | 2.260 | 3.230 | 3.9 | 21.1 | 2 11 | 10 26.21 | +10 51.3 | 2.362 | 3.331 | 3.8 | 19.4 |
| 2 21 | 10 18.21 | +12 1.2 | 2.224 | 3.212 | 0.5 | 20.8 | 2 21 | 10 18.36 | +11 36.6 | 2.352 | 3.340 | 0.4 | 19.2 |
| 3 2 | 10 10.77 | +13 10.4 | 2.218 | 3.195 | 3.6 | 21.0 | 3 2 | 10 10.43 | +12 20.4 | 2.372 | 3.349 | 3.4 | 19.4 |
| 3 12 | 10 3.89 | +14 13.9 | 2.242 | 3.177 | 7.2 | 21.2 | 3 12 | 10 3.22 | +12 58.6 | 2.422 | 3.358 | 6.7 | 19.7 |
| 3 22 | 9 58.25 | +15 7.2 | 2.292 | 3.159 | 10.5 | 21.4 | 3 22 | 9 57.34 | +13 28.2 | 2.499 | 3.366 | 9.7 | 19.9 |
| 4 1 | 9 54.40 | +15 47.7 | 2.365 | 3.140 | 13.3 | 21.5 | 4 1 | 9 53.23 | +13 47.5 | 2.599 | 3.374 | 12.2 | 20.0 |
| 245971 | 2006 <i>SX</i> ₁₀₇ | | 2 21.9 170°45' | 0°8/22.9 | 17 | | 472411 | 2015 <i>BE</i> ₂₅₀ | | 2 21.9 300°98' | 3°2/18.5 | 17 | |
| 1 22 | 10 35.72 | + 3 47.5 | 2.637 | 3.464 | 10.1 | 20.5 | 1 22 | 10 36.74 | +15 13.1 | 1.916 | 2.784 | 11.5 | 20.9 |
| 2 1 | 10 31.01 | + 4 50.2 | 2.557 | 3.466 | 7.3 | 20.3 | 2 1 | 10 32.30 | +16 48.2 | 1.840 | 2.773 | 8.1 | 20.7 |
| 2 11 | 10 24.99 | + 6 5.1 | 2.504 | 3.468 | 4.2 | 20.1 | 2 11 | 10 25.94 | +18 31.2 | 1.792 | 2.763 | 4.6 | 20.5 |
| 2 21 | 10 18.17 | + 7 27.9 | 2.482 | 3.469 | 1.0 | 19.8 | 2 21 | 10 18.35 | +20 13.6 | 1.772 | 2.752 | 3.3 | 20.4 |
| 3 2 | 10 11.22 | + 8 53.4 | 2.491 | 3.471 | 2.9 | 20.0 | 3 2 | 10 10.47 | +21 46.3 | 1.781 | 2.742 | 6.3 | 20.5 |
| 3 12 | 10 4.84 | +10 15.6 | 2.531 | 3.472 | 6.2 | 20.2 | 3 12 | 10 3.35 | +23 2.2 | 1.818 | 2.732 | 10.0 | 20.7 |
| 3 22 | 9 59.60 | +11 29.9 | 2.598 | 3.472 | 9.1 | 20.4 | 3 22 | 9 57.88 | +23 57.0 | 1.879 | 2.722 | 13.5 | 20.9 |
| 4 1 | 9 55.96 | +12 32.8 | 2.691 | 3.473 | 11.7 | 20.6 | 4 1 | 9 54.66 | +24 29.9 | 1.960 | 2.712 | 16.4 | 21.1 |
| 2018 | Schuster | | 2 21.9 163°82' | 0°9/22.6 | 18 | | 146342 | 2001 <i>OZ</i> ₅₉ | | 2 21.9 121°53' | 0°1/21.8 | 18 | |
| 1 22 | 10 43.70 | + 5 26.8 | 1.735 | 2.574 | 14.0 | 18.3 | 1 22 | 10 40.21 | + 7 54.3 | 1.790 | 2.640 | 13.1 | 20.3 |
| 2 1 | 10 37.16 | + 6 6.7 | 1.665 | 2.580 | 10.1 | 18.1 | 2 1 | 10 34.66 | + 8 39.6 | 1.725 | 2.647 | 9.3 | 20.1 |
| 2 11 | 10 28.46 | + 7 1.5 | 1.620 | 2.586 | 5.7 | 17.9 | 2 11 | 10 27.13 | + 9 37.0 | 1.684 | 2.653 | 5.0 | 19.9 |
| 2 21 | 10 18.46 | + 8 5.7 | 1.603 | 2.591 | 1.2 | 17.6 | 2 21 | 10 18.44 | +10 40.7 | 1.671 | 2.659 | 0.4 | 19.5 |
| 3 2 | 10 8.29 | + 9 12.2 | 1.615 | 2.595 | 4.2 | 17.8 | 3 2 | 10 9.62 | +11 43.7 | 1.687 | 2.665 | 4.2 | 19.8 |
| 3 12 | 9 59.15 | +10 13.8 | 1.656 | 2.598 | 8.7 | 18.1 | 3 12 | 10 1.77 | +12 39.3 | 1.730 | 2.671 | 8.5 | 20.1 |
| 3 22 | 9 51.98 | +11 4.8 | 1.722 | 2.600 | 12.8 | 18.3 | 3 22 | 9 55.73 | +13 22.8 | 1.799 | 2.677 | 12.4 | 20.4 |
| 4 1 | 9 47.39 | +11 41.9 | 1.810 | 2.602 | 16.1 | 18.5 | 4 1 | 9 52.06 | +13 51.8 | 1.890 | 2.682 | 15.5 | 20.6 |
| 2833 | Radishchev | | 2 21.9 186°61' | 0°1/21.8 | 18 | | 291661 | 2006 <i>HZ</i> ₆₆ | | 2 21.9 258°72' | 0°2/22.1 | 17 | |
| 1 22 | 10 39.13 | + 8 51.6 | 2.227 | 3.071 | 11.1 | 16.7 | 1 22 | 10 41.44 | + 7 26.7 | 1.689 | 2.539 | 13.8 | 21.6 |
| 2 1 | 10 33.60 | + 9 21.4 | 2.151 | 3.071 | 7.9 | 16.5 | 2 1 | 10 35.86 | + 8 3.5 | 1.602 | 2.523 | 9.9 | 21.3 |
| 2 11 | 10 26.44 | + 9 59.8 | 2.102 | 3.071 | 4.2 | 16.2 | 2 11 | 10 27.96 | + 8 54.7 | 1.539 | 2.507 | 5.5 | 21.0 |
| 2 21 | 10 18.29 | +10 42.7 | 2.082 | 3.070 | 0.3 | 15.9 | 2 21 | 10 18.53 | + 9 54.8 | 1.503 | 2.491 | 0.6 | 20.6 |
| 3 2 | 10 10.01 | +11 25.3 | 2.091 | 3.069 | 3.6 | 16.2 | 3 2 | 10 8.67 | +10 56.9 | 1.495 | 2.475 | 4.5 | 20.8 |
| 3 12 | 10 2.46 | +12 2.7 | 2.130 | 3.068 | 7.3 | 16.4 | 3 12 | 9 59.65 | +11 53.4 | 1.515 | 2.458 | 9.4 | 21.1 |
| 3 22 | 9 56.37 | +12 31.7 | 2.195 | 3.067 | 10.6 | 16.6 | 3 22 | 9 52.54 | +12 38.5 | 1.560 | 2.440 | 13.7 | 21.3 |
| 4 1 | 9 52.25 | +12 50.0 | 2.282 | 3.066 | 13.5 | 16.8 | 4 1 | 9 48.08 | +13 8.8 | 1.626 | 2.423 | 17.5 | 21.5 |
| 375279 | 2008 <i>HT</i> ₆₇ | | 2 21.9 269°84' | 5°4/26.9 | 17 | | 460056 | 2014 <i>OX</i> ₂₀₂ | | 2 21.9 103°44' | 0°9/21.2 | 18 | |
| 1 22 | 10 37.46 | - 7 18.2 | 1.910 | | | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|---------------|----------|---------|------|---------------|------------------------|-----------------|---------------|----------|---------|------|
| 229548 | 2005 YD ₁₄₁ | | 2 21.9 226°93 | 2°6/19.4 | 18 | | 1946 | Walraven | | 2 21.9 137°50 | 3°4/19.3 | 18 | R |
| 1 22 | 10 39.86 | +15 48.1 | 2.045 | 2.906 | 11.2 | 20.8 | 1 22 | 10 46.99 | +18 8.5 | 1.837 | 2.694 | 12.5 | 16.2 |
| 2 1 | 10 34.34 | +16 46.6 | 1.972 | 2.901 | 7.9 | 20.5 | 2 1 | 10 39.35 | +18 58.8 | 1.783 | 2.709 | 8.8 | 16.0 |
| 2 11 | 10 26.96 | +17 49.8 | 1.926 | 2.896 | 4.4 | 20.3 | 2 11 | 10 29.60 | +19 50.0 | 1.755 | 2.723 | 5.1 | 15.8 |
| 2 21 | 10 18.44 | +18 51.1 | 1.908 | 2.890 | 2.7 | 20.2 | 2 21 | 10 18.69 | +20 34.8 | 1.756 | 2.736 | 3.5 | 15.7 |
| 3 2 | 10 9.72 | +19 44.0 | 1.920 | 2.885 | 5.5 | 20.4 | 3 2 | 10 7.79 | +21 7.1 | 1.787 | 2.748 | 6.2 | 15.9 |
| 3 12 | 10 1.81 | +20 23.4 | 1.959 | 2.879 | 9.1 | 20.6 | 3 12 | 9 58.11 | +21 23.0 | 1.846 | 2.760 | 9.9 | 16.2 |
| 3 22 | 9 55.54 | +20 46.6 | 2.024 | 2.873 | 12.4 | 20.8 | 3 22 | 9 50.53 | +21 21.9 | 1.929 | 2.771 | 13.3 | 16.4 |
| 4 1 | 9 51.48 | +20 53.3 | 2.109 | 2.866 | 15.2 | 20.9 | 4 1 | 9 45.56 | +21 5.0 | 2.033 | 2.780 | 16.0 | 16.6 |
| 61056 | 2000 KN ₇₅ | | 2 21.9 186°70 | 1°2/20.6 | 18 | | 206341 | 2003 PO ₃ | | 2 21.9 217°92 | 0°8/22.6 | 17 | |
| 1 22 | 10 39.52 | +10 56.3 | 2.161 | 3.012 | 11.1 | 19.9 | 1 22 | 10 42.40 | + 6 3.3 | 1.989 | 2.825 | 12.6 | 21.6 |
| 2 1 | 10 33.99 | +12 1.9 | 2.087 | 3.012 | 7.8 | 19.6 | 2 1 | 10 36.22 | + 6 33.2 | 1.902 | 2.816 | 9.1 | 21.4 |
| 2 11 | 10 26.73 | +13 16.2 | 2.040 | 3.011 | 4.1 | 19.4 | 2 11 | 10 28.03 | + 7 15.8 | 1.841 | 2.806 | 5.1 | 21.1 |
| 2 21 | 10 18.42 | +14 33.3 | 2.022 | 3.010 | 1.2 | 19.2 | 2 21 | 10 18.57 | + 8 7.0 | 1.808 | 2.796 | 1.1 | 20.8 |
| 3 2 | 10 9.92 | +15 46.4 | 2.035 | 3.008 | 4.4 | 19.4 | 3 2 | 10 8.80 | + 9 1.0 | 1.805 | 2.785 | 3.8 | 21.0 |
| 3 12 | 10 2.17 | +16 49.5 | 2.077 | 3.006 | 8.1 | 19.6 | 3 12 | 9 59.80 | + 9 51.9 | 1.831 | 2.773 | 8.1 | 21.2 |
| 3 22 | 9 55.94 | +17 38.7 | 2.145 | 3.003 | 11.5 | 19.8 | 3 22 | 9 52.46 | +10 34.7 | 1.884 | 2.760 | 11.9 | 21.4 |
| 4 1 | 9 51.75 | +18 12.2 | 2.235 | 3.000 | 14.3 | 20.0 | 4 1 | 9 47.43 | +11 6.2 | 1.959 | 2.747 | 15.2 | 21.6 |
| 229158 | 2004 TF ₄ | | 2 21.9 187°40 | 0°8/21.2 | 17 | | 245063 | 2004 GD ₅ | | 2 21.9 352°95 | 5°2/16.5 | 17 | |
| 1 22 | 10 40.02 | +10 47.8 | 2.156 | 3.005 | 11.2 | 21.4 | 1 22 | 10 38.77 | +24 8.8 | 2.079 | 2.948 | 10.7 | 19.8 |
| 2 1 | 10 34.31 | +11 26.2 | 2.082 | 3.005 | 7.9 | 21.1 | 2 1 | 10 33.57 | +25 20.4 | 2.020 | 2.946 | 7.9 | 19.6 |
| 2 11 | 10 26.89 | +12 12.3 | 2.034 | 3.004 | 4.2 | 20.9 | 2 11 | 10 26.55 | +26 29.1 | 1.988 | 2.945 | 5.6 | 19.5 |
| 2 21 | 10 18.43 | +13 1.2 | 2.015 | 3.003 | 0.8 | 20.6 | 2 21 | 10 18.44 | +27 27.6 | 1.983 | 2.944 | 5.5 | 19.5 |
| 3 2 | 10 9.82 | +13 47.4 | 2.026 | 3.002 | 4.0 | 20.9 | 3 2 | 10 10.20 | +28 9.7 | 2.006 | 2.943 | 7.6 | 19.6 |
| 3 12 | 10 1.99 | +14 26.1 | 2.066 | 3.001 | 7.8 | 21.1 | 3 12 | 10 2.86 | +28 31.6 | 2.056 | 2.943 | 10.5 | 19.8 |
| 3 22 | 9 55.69 | +14 54.0 | 2.133 | 2.999 | 11.2 | 21.3 | 3 22 | 9 57.19 | +28 33.0 | 2.129 | 2.943 | 13.2 | 20.0 |
| 4 1 | 9 51.45 | +15 9.5 | 2.221 | 2.996 | 14.0 | 21.5 | 4 1 | 9 53.74 | +28 15.4 | 2.221 | 2.943 | 15.5 | 20.1 |
| 134355 | 1994 JL ₇ | | 2 21.9 181°33 | 4°0/17.5 | 18 | | 522281 | 2016 BA ₉₆ | | 2 21.9 297°17 | 2°2/23.2 | 17 | |
| 1 22 | 10 39.62 | +22 37.3 | 2.474 | 3.335 | 9.5 | 20.0 | 1 22 | 10 44.03 | + 5 27.5 | 1.700 | 2.539 | 14.2 | 20.9 |
| 2 1 | 10 33.90 | +23 33.5 | 2.411 | 3.336 | 6.9 | 19.8 | 2 1 | 10 37.65 | + 5 3.0 | 1.613 | 2.526 | 10.5 | 20.6 |
| 2 11 | 10 26.61 | +24 27.8 | 2.375 | 3.336 | 4.6 | 19.7 | 2 11 | 10 28.92 | + 4 49.9 | 1.551 | 2.513 | 6.3 | 20.3 |
| 2 21 | 10 18.41 | +25 14.5 | 2.369 | 3.336 | 4.2 | 19.7 | 2 21 | 10 18.66 | + 4 46.2 | 1.515 | 2.501 | 2.5 | 20.1 |
| 3 2 | 10 10.11 | +25 48.8 | 2.392 | 3.335 | 6.1 | 19.8 | 3 2 | 10 8.01 | + 4 48.8 | 1.508 | 2.488 | 4.4 | 20.2 |
| 3 12 | 10 2.57 | +26 7.5 | 2.443 | 3.335 | 8.8 | 20.0 | 3 12 | 9 58.28 | + 4 53.5 | 1.529 | 2.476 | 8.9 | 20.4 |
| 3 22 | 9 56.46 | +26 10.0 | 2.518 | 3.334 | 11.3 | 20.1 | 3 22 | 9 50.52 | + 4 56.4 | 1.575 | 2.463 | 13.1 | 20.6 |
| 4 1 | 9 52.27 | +25 57.1 | 2.615 | 3.333 | 13.5 | 20.3 | 4 1 | 9 45.45 | + 4 54.1 | 1.642 | 2.451 | 16.8 | 20.8 |
| 500442 | 2012 TP ₁₇₁ | | 2 21.9 126°46 | 0°2/21.6 | 17 | | 336389 | 2008 UF ₈₈ | | 2 21.9 216°32 | 2°6/19.4 | 17 | |
| 1 22 | 10 38.93 | + 9 54.3 | 2.543 | 3.386 | 9.9 | 21.9 | 1 22 | 10 39.79 | +16 15.7 | 2.187 | 3.046 | 10.7 | 21.3 |
| 2 1 | 10 33.27 | +10 20.2 | 2.476 | 3.396 | 7.0 | 21.7 | 2 1 | 10 34.20 | +17 9.3 | 2.114 | 3.042 | 7.5 | 21.1 |
| 2 11 | 10 26.22 | +10 52.5 | 2.437 | 3.406 | 3.7 | 21.5 | 2 11 | 10 26.87 | +18 6.7 | 2.068 | 3.038 | 4.2 | 20.9 |
| 2 21 | 10 18.38 | +11 27.4 | 2.426 | 3.415 | 0.3 | 21.3 | 2 21 | 10 18.47 | +19 1.8 | 2.051 | 3.033 | 2.7 | 20.8 |
| 3 2 | 10 10.49 | +12 1.1 | 2.447 | 3.424 | 3.3 | 21.5 | 3 2 | 10 9.91 | +19 48.7 | 2.064 | 3.028 | 5.2 | 20.9 |
| 3 12 | 10 3.29 | +12 29.8 | 2.497 | 3.433 | 6.5 | 21.8 | 3 12 | 10 2.11 | +20 22.9 | 2.104 | 3.023 | 8.6 | 21.1 |
| 3 22 | 9 57.40 | +12 51.0 | 2.574 | 3.442 | 9.4 | 22.0 | 3 22 | 9 55.85 | +20 42.3 | 2.171 | 3.017 | 11.8 | 21.3 |
| 4 1 | 9 53.24 | +13 2.9 | 2.675 | 3.450 | 11.9 | 22.1 | 4 1 | 9 51.67 | +20 46.2 | 2.258 | 3.011 | 14.5 | 21.5 |
| 341672 | 2007 VF ₈₇ | | 2 21.9 196°36 | 5°2/16.8 | 18 | | 384202 | 2009 BK ₁₅₆ | | 2 21.9 32°17 | 0°3/22.1 | 17 | |
| 1 22 | 10 41.91 | +26 18.5 | 2.319 | 3.179 | 10.1 | 20.3 | 1 22 | 10 40.22 | + 9 4.3 | 2.115 | 2.960 | 11.6 | 20.8 |
| 2 1 | 10 35.60 | +27 7.8 | 2.259 | 3.178 | 7.6 | 20.1 | 2 1 | 10 34.44 | + 9 10.4 | 2.044 | 2.963 | 8.2 | 20.6 |
| 2 11 | 10 27.55 | +27 51.9 | 2.225 | 3.177 | 5.6 | 20.0 | 2 11 | 10 26.96 | + 9 24.2 | 1.998 | 2.967 | 4.5 | 20.4 |
| 2 21 | 10 18.50 | +28 24.7 | 2.220 | 3.177 | 5.4 | 20.0 | 2 21 | 10 18.49 | + 9 42.3 | 1.982 | 2.970 | 0.5 | 20.1 |
| 3 2 | 10 9.38 | +28 41.6 | 2.243 | 3.176 | 7.2 | 20.1 | 3 2 | 10 9.92 | +10 0.7 | 1.994 | 2.974 | 3.6 | 20.3 |
| 3 12 | 10 1.15 | +28 40.2 | 2.294 | 3.174 | 9.8 | 20.2 | 3 12 | 10 2.17 | +10 15.7 | 2.036 | 2.978 | 7.4 | 20.5 |
| 3 22 | 9 54.57 | +28 20.9 | 2.368 | 3.173 | 12.3 | 20.4 | 3 22 | 9 55.99 | +10 24.3 | 2.103 | 2.981 | 10.8 | 20.8 |
| 4 1 | 9 50.14 | +27 45.6 | 2.463 | 3.172 | 14.5 | 20.6 | 4 1 | 9 51.88 | +10 24.7 | 2.194 | 2.986 | 13.7 | 21.0 |
| 83361 | 2001 SK | | 2 21.9 115°85 | 3°4/18.3 | 18 | | 411469 | 2010 XQ ₅₇ | | 2 21.9 90°01 | 2°1/23.7 | 18 | |
| 1 22 | 10 39.07 | +19 44.5 | 2.380 | 3.241 | 9.8 | 18.7 | 1 22 | 10 41.72 | + 2 33.1 | 1.839 | 2.668 | 13.8 | 21.3 |
| 2 1 | 10 33.50 | +20 42.1 | 2.323 | 3.250 | 6.9 | 18.5 | 2 1 | 10 35.55 | + 2 54.3 | 1.784 | 2.690 | 10.1 | 21.2 |
| 2 11 | 10 26.39 | +21 39.7 | 2.293 | 3.259 | 4.3 | 18.3 | 2 11 | 10 27.55 | + 3 30.9 | 1.753 | 2.712 | 6.1 | 21.0 |
| 2 21 | 10 18.40 | +22 31.6 | 2.293 | 3.268 | 3.5 | 18.3 | 2 21 | 10 18.54 | + 4 18.5 | 1.749 | 2.734 | 2.4 | 20.8 |
| 3 2 | 10 10.37 | +23 12.6 | 2.322 | 3.276 | 5.6 | 18.5 | 3 2 | 10 9.55 | + 5 11.7 | 1.775 | 2.755 | 3.9 | 20.9 |
| 3 12 | 10 3.13 | +23 39.4 | 2.380 | 3.284 | 8.5 | 18.6 | 3 12 | 10 1.60 | + 6 4.0 | 1.829 | 2.775 | 7.7 | 21.2 |
| 3 22 | 9 57.33 | +23 50.7 | 2.462 | 3.292 | 11.1 | 18.8 | 3 22 | 9 55.46 | + 6 50.3 | 1.909 | 2.796 | 11.3 | 21.4 |
| 4 1 | 9 53.46 | +23 47.0 | 2.566 | 3.300 | 13.4 | 19.0 | 4 1 | 9 51.62 | + 7 26.9 | 2.012 | 2.816 | 14.3 | 21.7 |
| 498742 | 2008 TP ₁₆₀ | | 2 21.9 229°92 | 2°3/24.3 | 17 | | 499023 | 2009 DC ₁₈ | | 2 21.9 85°48 | 0°7/21.3 | 18 | |
| 1 22 | 10 38.57 | + 0 32.7 | 2.395 | 3.208 | 11.5 | 22.7 | 1 22 | 10 40.61 | +12 0.6 | 2.276 | 3.124 | 10.7 | 20.7 |
| 2 1 | 10 33.25 | + 0 56.6 | 2.300 | 3.197 | 8.7 | 22.5 | 2 1 | 10 34.58 | +12 15.9 | 2.211 | 3.134 | 7.5 | 20.5 |
| 2 11 | 10 26.34 | + 1 35.2 | 2.231 | 3.185 | 5.5 | 22.3 | 2 11 | 10 26.98 | +12 36.3 | 2.173 | 3.143 | 4.0 | 20.3 |
| 2 21 | 10 18.42 | + 2 25.8 | 2.191 | 3.172 | 2.7 | 22.1 | 2 21 | 10 18.49 | +12 57.9 | 2.164 | 3.152 | 0.7 | 20.1 |
| 3 2 | 10 10.25 | + 3 24.2 | 2.181 | 3.159 | 3.5 | 22.1 | 3 2 | 10 9.97 | +13 16.7 | 2.185 | 3.161 | 3.7 | 20.3 |
| 3 12 | 10 2.65 | + 4 25.2 | 2.201 | 3.146 | 6.7 | 22.3 | 3 12 | 10 2.27 | +13 29.4 | 2.235 | 3.170 | 7.2 | 20.6 |
| 3 22 | 9 56.34 | + 5 23.5 | 2.248 | 3.132 | 9.9 | 22.5 | 3 22 | 9 56.06 | +13 33.8 | 2.312 | 3.179 | 10.4 | 20.8 |
| 4 1 | 9 51.86 | + 6 14.9 | 2.319 | 3.118 | 12.8 | 22.7 | 4 1 | 9 51.82 | +13 29.0 | 2.411 | 3.188 | 13.0 | 21.0 |
| 6617 | Boethius | | 2 21.9 155°51 | 2°2/20.2 | 18 | | 265782 | 2005 WT ₁₀₉ | | 2 21.9 328°44 | 3°8/18.9 | 18 | |
| 1 22 | 10 44.68 | +13 27.5 | 1.616 | 2.475 | 13.7 | 18.2 | 1 22 | 10 38.45 | +16 53.9 | 1.460 | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|----------|--------------|---------|------|---------------|-------------------------------|-----------------|----------|-------------|---------|------|
| 304109 | 2006 <i>HA</i> ₁₀₀ | 2 21.9 334°23 | | 2°6/20.1 18 | | | 179006 | 2001 <i>RN</i> ₃₁ | 2 21.9 241°78 | | 2°8/19.8 17 | | |
| 1 22 | 10 41.86 | +14 18.7 | 1.338 | 2.213 | 15.1 | 20.7 | 1 22 | 10 45.63 | +17 38.9 | 1.948 | 2.804 | 11.9 | 20.5 |
| 2 1 | 10 36.49 | +15 3.7 | 1.273 | 2.207 | 10.6 | 20.4 | 2 1 | 10 38.57 | +18 3.4 | 1.867 | 2.793 | 8.5 | 20.3 |
| 2 11 | 10 28.41 | +15 56.7 | 1.230 | 2.203 | 5.8 | 20.1 | 2 11 | 10 29.34 | +18 29.4 | 1.813 | 2.781 | 4.8 | 20.0 |
| 2 21 | 10 18.64 | +16 49.4 | 1.212 | 2.198 | 2.7 | 19.9 | 2 21 | 10 18.76 | +18 51.0 | 1.787 | 2.769 | 2.8 | 19.9 |
| 3 2 | 10 8.61 | +17 32.8 | 1.221 | 2.194 | 6.6 | 20.1 | 3 2 | 10 7.92 | +19 3.0 | 1.791 | 2.757 | 5.7 | 20.0 |
| 3 12 | 9 59.85 | +17 59.9 | 1.255 | 2.190 | 11.6 | 20.4 | 3 12 | 9 58.03 | +19 1.8 | 1.823 | 2.744 | 9.5 | 20.2 |
| 3 22 | 9 53.54 | +18 7.9 | 1.311 | 2.187 | 16.1 | 20.7 | 3 22 | 9 50.03 | +18 46.4 | 1.880 | 2.731 | 13.1 | 20.4 |
| 4 1 | 9 50.38 | +17 56.6 | 1.385 | 2.185 | 19.9 | 20.9 | 4 1 | 9 44.56 | +18 17.4 | 1.959 | 2.718 | 16.2 | 20.6 |
| 31379 | 1998 <i>XX</i> ₅₁ | 2 21.9 309°83 | | 13°0/ 8.6 18 | | | 375734 | 2009 <i>RQ</i> ₃₄ | 2 21.9 245°99 | | 2°3/24.0 17 | | |
| 1 22 | 10 45.19 | +40 48.7 | 1.535 | 2.386 | 14.8 | 17.4 | 1 22 | 10 38.66 | + 1 25.4 | 1.925 | 2.753 | 13.3 | 21.7 |
| 2 1 | 10 39.34 | +42 51.5 | 1.482 | 2.366 | 13.4 | 17.3 | 2 1 | 10 33.60 | + 1 51.4 | 1.842 | 2.747 | 9.9 | 21.5 |
| 2 11 | 10 30.17 | +44 34.9 | 1.452 | 2.346 | 13.0 | 17.2 | 2 11 | 10 26.66 | + 2 34.5 | 1.784 | 2.742 | 6.1 | 21.2 |
| 2 21 | 10 18.81 | +45 45.3 | 1.445 | 2.326 | 14.1 | 17.2 | 2 21 | 10 18.53 | + 3 31.2 | 1.753 | 2.736 | 2.7 | 21.0 |
| 3 2 | 10 7.03 | +46 13.4 | 1.459 | 2.307 | 16.1 | 17.3 | 3 2 | 10 10.15 | + 4 36.1 | 1.750 | 2.730 | 3.9 | 21.1 |
| 3 12 | 9 56.80 | +45 57.4 | 1.493 | 2.288 | 18.6 | 17.4 | 3 12 | 10 2.54 | + 5 42.3 | 1.776 | 2.724 | 7.8 | 21.3 |
| 3 22 | 9 49.56 | +45 2.0 | 1.543 | 2.270 | 21.0 | 17.6 | 3 22 | 9 56.54 | + 6 43.6 | 1.828 | 2.718 | 11.5 | 21.5 |
| 4 1 | 9 46.11 | +43 34.8 | 1.606 | 2.252 | 23.1 | 17.7 | 4 1 | 9 52.75 | + 7 35.1 | 1.903 | 2.712 | 14.8 | 21.7 |
| 423216 | 2004 <i>RU</i> ₁₅₄ | 2 21.9 104°70 | | 1°1/22.9 18 | | | 219735 | 2001 <i>XX</i> ₁₇₀ | 2 21.9 65°50 | | 2°3/23.8 18 | | |
| 1 22 | 10 42.00 | + 5 31.9 | 2.171 | 3.001 | 11.9 | 21.7 | 1 22 | 10 39.89 | + 2 37.0 | 1.735 | 2.570 | 14.2 | 20.4 |
| 2 1 | 10 35.55 | + 5 47.3 | 2.112 | 3.022 | 8.6 | 21.5 | 2 1 | 10 34.49 | + 2 52.7 | 1.669 | 2.578 | 10.5 | 20.1 |
| 2 11 | 10 27.50 | + 6 13.3 | 2.079 | 3.043 | 4.9 | 21.3 | 2 11 | 10 27.11 | + 3 24.8 | 1.626 | 2.587 | 6.3 | 19.9 |
| 2 21 | 10 18.57 | + 6 46.1 | 2.076 | 3.062 | 1.4 | 21.1 | 2 21 | 10 18.56 | + 4 9.4 | 1.610 | 2.595 | 2.6 | 19.7 |
| 3 2 | 10 9.66 | + 7 21.6 | 2.102 | 3.082 | 3.4 | 21.3 | 3 2 | 10 9.90 | + 5 1.0 | 1.623 | 2.603 | 4.1 | 19.8 |
| 3 12 | 10 1.64 | + 7 55.0 | 2.158 | 3.101 | 7.0 | 21.5 | 3 12 | 10 2.21 | + 5 52.8 | 1.663 | 2.611 | 8.1 | 20.1 |
| 3 22 | 9 55.21 | + 8 22.8 | 2.241 | 3.120 | 10.2 | 21.8 | 3 22 | 9 56.35 | + 6 39.2 | 1.728 | 2.620 | 12.0 | 20.3 |
| 4 1 | 9 50.81 | + 8 42.5 | 2.348 | 3.138 | 12.9 | 22.0 | 4 1 | 9 52.88 | + 7 15.7 | 1.815 | 2.628 | 15.3 | 20.5 |
| 41978 | 2000 <i>YX</i> ₁₅ | 2 21.9 19°32 | | 2°7/19.9 18 | | | 206920 | 2004 <i>PE</i> ₉₅ | 2 21.9 89°96 | | 2°5/23.9 17 | | |
| 1 22 | 10 39.88 | +15 19.4 | 1.495 | 2.369 | 13.8 | 17.8 | 1 22 | 10 43.77 | + 1 9.1 | 1.554 | 2.384 | 15.8 | 20.9 |
| 2 1 | 10 34.73 | +16 1.0 | 1.440 | 2.374 | 9.7 | 17.6 | 2 1 | 10 37.21 | + 1 44.9 | 1.505 | 2.411 | 11.6 | 20.7 |
| 2 11 | 10 27.30 | +16 47.7 | 1.408 | 2.381 | 5.3 | 17.4 | 2 11 | 10 28.52 | + 2 40.2 | 1.480 | 2.439 | 7.0 | 20.5 |
| 2 21 | 10 18.56 | +17 32.0 | 1.403 | 2.388 | 2.8 | 17.2 | 2 21 | 10 18.68 | + 3 49.4 | 1.481 | 2.465 | 2.9 | 20.3 |
| 3 2 | 10 9.76 | +18 6.6 | 1.425 | 2.396 | 6.1 | 17.4 | 3 2 | 10 8.93 | + 5 4.9 | 1.511 | 2.491 | 4.3 | 20.5 |
| 3 12 | 10 2.18 | +18 26.2 | 1.472 | 2.404 | 10.5 | 17.7 | 3 12 | 10 0.48 | + 6 18.0 | 1.569 | 2.517 | 8.6 | 20.8 |
| 3 22 | 9 56.75 | +18 28.9 | 1.542 | 2.414 | 14.4 | 18.0 | 3 22 | 9 54.18 | + 7 21.9 | 1.652 | 2.541 | 12.6 | 21.1 |
| 4 1 | 9 54.05 | +18 14.8 | 1.632 | 2.424 | 17.6 | 18.2 | 4 1 | 9 50.52 | + 8 12.4 | 1.757 | 2.566 | 15.9 | 21.3 |
| 325203 | 2008 <i>FP</i> ₁₃₄ | 2 21.9 332°93 | | 1°8/23.2 18 | | | 494747 | 2005 <i>WG</i> ₆₅ | 2 21.9 22°45 | | 6°8/26.4 18 | | |
| 1 22 | 10 38.25 | + 4 21.5 | 1.446 | 2.299 | 15.5 | 21.1 | 1 22 | 10 40.35 | - 4 58.5 | 1.202 | 2.030 | 19.6 | 20.6 |
| 2 1 | 10 33.80 | + 4 40.3 | 1.369 | 2.289 | 11.4 | 20.8 | 2 1 | 10 35.53 | - 5 23.3 | 1.139 | 2.033 | 15.6 | 20.4 |
| 2 11 | 10 26.95 | + 5 17.5 | 1.314 | 2.280 | 6.7 | 20.5 | 2 11 | 10 27.96 | - 5 18.3 | 1.095 | 2.037 | 11.2 | 20.1 |
| 2 21 | 10 18.54 | + 6 8.6 | 1.284 | 2.271 | 2.1 | 20.2 | 2 21 | 10 18.65 | - 4 43.9 | 1.073 | 2.042 | 7.5 | 19.9 |
| 3 2 | 10 9.79 | + 7 6.8 | 1.281 | 2.263 | 4.6 | 20.3 | 3 2 | 10 9.07 | - 3 45.2 | 1.075 | 2.048 | 7.4 | 19.9 |
| 3 12 | 10 2.03 | + 8 3.8 | 1.304 | 2.256 | 9.6 | 20.6 | 3 12 | 10 0.81 | - 2 31.9 | 1.101 | 2.053 | 10.8 | 20.2 |
| 3 22 | 9 56.37 | + 8 52.5 | 1.350 | 2.249 | 14.2 | 20.8 | 3 22 | 9 55.07 | - 1 15.5 | 1.150 | 2.060 | 15.1 | 20.4 |
| 4 1 | 9 53.51 | + 9 27.9 | 1.416 | 2.243 | 18.1 | 21.0 | 4 1 | 9 52.55 | - 0 5.6 | 1.217 | 2.067 | 19.1 | 20.7 |
| 22140 | Suzyamamoto | 2 21.9 87°51 | | 1°4/23.2 18 | | | 293771 | 2007 <i>RO</i> ₁₀₃ | 2 21.9 128°95 | | 0°8/21.3 18 | | |
| 1 22 | 10 39.36 | + 4 9.7 | 1.899 | 2.736 | 13.0 | 19.1 | 1 22 | 10 43.84 | +10 40.9 | 1.735 | 2.587 | 13.3 | 21.5 |
| 2 1 | 10 33.97 | + 4 38.5 | 1.833 | 2.746 | 9.5 | 18.9 | 2 1 | 10 37.26 | +11 17.6 | 1.674 | 2.598 | 9.4 | 21.3 |
| 2 11 | 10 26.77 | + 5 21.3 | 1.793 | 2.756 | 5.5 | 18.7 | 2 11 | 10 28.59 | +12 3.2 | 1.639 | 2.609 | 4.9 | 21.1 |
| 2 21 | 10 18.52 | + 6 13.9 | 1.780 | 2.767 | 1.7 | 18.5 | 2 21 | 10 18.70 | +12 51.6 | 1.631 | 2.620 | 0.8 | 20.8 |
| 3 2 | 10 10.18 | + 7 10.5 | 1.796 | 2.777 | 3.7 | 18.6 | 3 2 | 10 8.75 | +13 36.2 | 1.653 | 2.629 | 4.6 | 21.1 |
| 3 12 | 10 2.75 | + 8 4.9 | 1.841 | 2.787 | 7.7 | 18.9 | 3 12 | 9 59.91 | +14 11.4 | 1.702 | 2.639 | 9.0 | 21.4 |
| 3 22 | 9 57.00 | + 8 51.8 | 1.911 | 2.797 | 11.3 | 19.1 | 3 22 | 9 53.07 | +14 34.0 | 1.777 | 2.648 | 12.8 | 21.6 |
| 4 1 | 9 53.45 | + 9 27.9 | 2.004 | 2.807 | 14.4 | 19.4 | 4 1 | 9 48.79 | +14 42.6 | 1.873 | 2.656 | 16.0 | 21.9 |
| 56380 | 2000 <i>EJ</i> ₄₃ | 2 21.9 253°06 | | 1°9/23.4 18 | | | 379595 | 2011 <i>CY</i> ₁₈ | 2 21.9 261°54 | | 1°8/23.4 17 | | |
| 1 22 | 10 40.76 | + 2 45.4 | 1.568 | 2.408 | 15.2 | 19.4 | 1 22 | 10 39.97 | + 3 58.3 | 1.985 | 2.818 | 12.7 | 20.8 |
| 2 1 | 10 35.52 | + 3 23.9 | 1.483 | 2.396 | 11.3 | 19.1 | 2 1 | 10 34.53 | + 4 11.5 | 1.897 | 2.807 | 9.4 | 20.6 |
| 2 11 | 10 27.88 | + 4 23.1 | 1.420 | 2.383 | 6.7 | 18.9 | 2 11 | 10 27.17 | + 4 38.4 | 1.834 | 2.795 | 5.6 | 20.3 |
| 2 21 | 10 18.64 | + 5 38.4 | 1.384 | 2.370 | 2.3 | 18.5 | 2 21 | 10 18.59 | + 5 15.8 | 1.798 | 2.784 | 2.0 | 20.0 |
| 3 2 | 10 8.95 | + 7 2.1 | 1.376 | 2.357 | 4.5 | 18.6 | 3 2 | 10 9.70 | + 5 59.1 | 1.792 | 2.772 | 3.8 | 20.1 |
| 3 12 | 10 0.15 | + 8 24.7 | 1.395 | 2.343 | 9.4 | 18.9 | 3 12 | 10 1.56 | + 6 42.8 | 1.814 | 2.760 | 7.8 | 20.4 |
| 3 22 | 9 53.35 | + 9 38.1 | 1.438 | 2.329 | 14.0 | 19.1 | 3 22 | 9 55.00 | + 7 21.8 | 1.862 | 2.748 | 11.6 | 20.6 |
| 4 1 | 9 49.32 | +10 36.4 | 1.502 | 2.314 | 18.0 | 19.3 | 4 1 | 9 50.66 | + 7 52.3 | 1.932 | 2.736 | 14.8 | 20.7 |
| 309393 | 2007 <i>TG</i> ₁₈₆ | 2 21.9 78°42 | | 0°1/21.9 18 | | | 295967 | 2008 <i>YF</i> ₂₅ | 2 21.9 291°08 | | 2°0/23.2 18 | | |
| 1 22 | 10 41.71 | + 6 59.5 | 1.502 | 2.355 | 15.0 | 20.6 | 1 22 | 10 41.95 | + 4 31.1 | 1.438 | 2.286 | 15.8 | 20.5 |
| 2 1 | 10 35.86 | + 7 59.7 | 1.454 | 2.378 | 10.6 | 20.4 | 2 1 | 10 36.50 | + 4 37.3 | 1.358 | 2.276 | 11.7 | 20.3 |
| 2 11 | 10 27.83 | + 9 14.4 | 1.430 | 2.400 | 5.6 | 20.1 | 2 11 | 10 28.46 | + 5 0.7 | 1.301 | 2.265 | 6.9 | 20.0 |
| 2 21 | 10 18.61 | +10 35.7 | 1.433 | 2.422 | 0.5 | 19.8 | 2 21 | 10 18.70 | + 5 37.6 | 1.269 | 2.255 | 2.4 | 19.6 |
| 3 2 | 10 9.43 | +11 54.5 | 1.464 | 2.443 | 4.6 | 20.2 | 3 2 | 10 8.53 | + 6 22.0 | 1.264 | 2.245 | 4.8 | 19.8 |
| 3 12 | 10 1.53 | +13 2.7 | 1.523 | 2.465 | 9.3 | 20.5 | 3 12 | 9 59.40 | + 7 6.4 | 1.285 | 2.235 | 9.9 | 20.0 |
| 3 22 | 9 55.78 | +13 55.3 | 1.605 | 2.486 | 13.4 | 20.8 | 3 22 | 9 52.49 | + 7 44.1 | 1.329 | 2.225 | 14.6 | 20.3 |
| 4 1 | 9 52.69 | +14 29.8 | 1.709 | 2.507 | 16.7 | 21.1 | 4 1 | 9 48.57 | + 8 10.4 | 1.393 | 2.215 | 18.6 | 20.5 |
| 130830 | 2000 <i>UJ</i> ₄₀ | 2 21.9 108°61 | | 4°4/18.7 18 | | | 203073 | 2000 <i>QM</i> ₃₉ | 2 21.9 150°87 | | 0°5/22.3 18 | | |
| 1 22 | 10 45.27 | +19 35.0 | 1.594 | 2.462 | 13.5 | 19.6 | | | | | | | |

EPHEMERIDES

2 21.9

2 21.9

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 367338 | 2008 <i>CY</i> ₁₉₁ | | 2 21.9 304°96 | 0°6/22.3 | 17 | | 84379 | 2002 <i>TB</i> ₁₃₈ | | 2 21.9 86°66 | 1°4/22.9 | 18 | |
| 1 22 | 10 41.87 | + 8 0.2 | 1.579 | 2.432 | 14.4 | 21.2 | 1 22 | 10 43.84 | + 5 55.9 | 1.697 | 2.538 | 14.2 | 19.2 |
| 2 1 | 10 36.23 | + 8 8.4 | 1.499 | 2.422 | 10.4 | 21.0 | 2 1 | 10 37.23 | + 6 2.1 | 1.639 | 2.554 | 10.2 | 19.0 |
| 2 11 | 10 28.22 | + 8 28.5 | 1.444 | 2.412 | 5.8 | 20.7 | 2 11 | 10 28.56 | + 6 20.9 | 1.606 | 2.571 | 5.8 | 18.7 |
| 2 21 | 10 18.68 | + 8 56.4 | 1.414 | 2.403 | 0.9 | 20.3 | 2 21 | 10 18.74 | + 6 48.2 | 1.600 | 2.588 | 1.6 | 18.5 |
| 3 2 | 10 8.81 | + 9 26.4 | 1.413 | 2.393 | 4.5 | 20.5 | 3 2 | 10 8.92 | + 7 18.9 | 1.624 | 2.604 | 4.1 | 18.7 |
| 3 12 | 9 59.92 | + 9 52.5 | 1.438 | 2.384 | 9.4 | 20.8 | 3 12 | 10 0.26 | + 7 47.5 | 1.675 | 2.620 | 8.4 | 19.0 |
| 3 22 | 9 53.10 | +10 10.2 | 1.487 | 2.375 | 13.8 | 21.0 | 3 22 | 9 53.61 | + 8 9.8 | 1.751 | 2.636 | 12.2 | 19.3 |
| 4 1 | 9 49.04 | +10 16.6 | 1.557 | 2.367 | 17.5 | 21.3 | 4 1 | 9 49.50 | + 8 23.0 | 1.849 | 2.652 | 15.4 | 19.5 |
| 236932 | 2007 <i>TM</i> ₂₁₀ | | 2 21.9 20°36 | 8°5/13.5 | 18 | | 83681 | 2001 <i>TC</i> ₅₀ | | 2 21.9 65°25 | 5°9/16.4 | 18 | |
| 1 22 | 10 44.64 | +36 14.4 | 2.119 | 2.966 | 11.5 | 19.4 | 1 22 | 10 42.32 | +27 36.3 | 2.107 | 2.968 | 10.9 | 18.8 |
| 2 1 | 10 37.80 | +37 19.2 | 2.074 | 2.967 | 9.6 | 19.3 | 2 1 | 10 35.97 | +28 32.7 | 2.064 | 2.982 | 8.2 | 18.6 |
| 2 11 | 10 28.85 | +38 10.2 | 2.053 | 2.969 | 8.6 | 19.2 | 2 11 | 10 27.80 | +29 21.9 | 2.047 | 2.996 | 6.2 | 18.5 |
| 2 21 | 10 18.73 | +38 39.7 | 2.059 | 2.970 | 8.9 | 19.2 | 2 21 | 10 18.67 | +29 57.1 | 2.059 | 3.011 | 6.2 | 18.5 |
| 3 2 | 10 8.63 | +38 43.3 | 2.091 | 2.972 | 10.5 | 19.3 | 3 2 | 10 9.61 | +30 13.6 | 2.098 | 3.025 | 8.0 | 18.7 |
| 3 12 | 9 59.73 | +38 20.1 | 2.148 | 2.974 | 12.5 | 19.5 | 3 12 | 10 1.62 | +30 9.6 | 2.163 | 3.039 | 10.5 | 18.9 |
| 3 22 | 9 52.92 | +37 33.0 | 2.225 | 2.976 | 14.6 | 19.6 | 3 22 | 9 55.47 | +29 46.3 | 2.252 | 3.053 | 13.0 | 19.0 |
| 4 1 | 9 48.69 | +36 26.5 | 2.320 | 2.978 | 16.5 | 19.8 | 4 1 | 9 51.60 | +29 6.3 | 2.360 | 3.068 | 15.1 | 19.2 |
| 221374 | 2005 <i>XH</i> ₅₄ | | 2 21.9 110°18 | 0°6/22.4 | 18 | | 455747 | 2005 <i>JL</i> ₁₁₂ | | 2 21.9 260°01 | 4°7/26.2 | 17 | |
| 1 22 | 10 40.69 | + 6 59.2 | 1.928 | 2.771 | 12.6 | 21.3 | 1 22 | 10 39.21 | - 5 23.1 | 1.927 | 2.723 | 14.5 | 21.5 |
| 2 1 | 10 34.91 | + 7 25.5 | 1.862 | 2.779 | 9.0 | 21.1 | 2 1 | 10 34.16 | - 5 5.8 | 1.826 | 2.705 | 11.5 | 21.3 |
| 2 11 | 10 27.29 | + 8 3.1 | 1.821 | 2.788 | 5.0 | 20.8 | 2 11 | 10 27.08 | - 4 25.1 | 1.748 | 2.685 | 8.2 | 21.0 |
| 2 21 | 10 18.60 | + 8 47.4 | 1.808 | 2.797 | 0.8 | 20.6 | 2 21 | 10 18.64 | - 3 22.4 | 1.696 | 2.665 | 5.3 | 20.8 |
| 3 2 | 10 9.83 | + 9 32.9 | 1.825 | 2.805 | 3.8 | 20.8 | 3 2 | 10 9.74 | - 2 1.9 | 1.673 | 2.645 | 5.2 | 20.8 |
| 3 12 | 10 1.97 | +10 14.1 | 1.870 | 2.813 | 7.8 | 21.1 | 3 12 | 10 1.49 | - 0 31.1 | 1.678 | 2.624 | 8.2 | 20.9 |
| 3 22 | 9 55.81 | +10 47.0 | 1.941 | 2.821 | 11.5 | 21.3 | 3 22 | 9 54.82 | + 1 1.6 | 1.709 | 2.603 | 12.0 | 21.1 |
| 4 1 | 9 51.89 | +11 8.8 | 2.034 | 2.829 | 14.5 | 21.5 | 4 1 | 9 50.44 | + 2 28.5 | 1.763 | 2.582 | 15.4 | 21.2 |
| 411643 | 2011 <i>UV</i> ₂₉₂ | | 2 21.9 265°71 | 3°7/19.1 | 18 | | 371963 | 2008 <i>FX</i> ₉₇ | | 2 21.9 216°70 | 2°8/19.3 | 17 | |
| 1 22 | 10 42.76 | +16 45.8 | 1.562 | 2.431 | 13.6 | 21.3 | 1 22 | 10 41.01 | +16 6.9 | 2.080 | 2.939 | 11.1 | 21.3 |
| 2 1 | 10 37.00 | +17 49.0 | 1.486 | 2.418 | 9.6 | 21.0 | 2 1 | 10 35.21 | +17 8.0 | 2.005 | 2.933 | 7.8 | 21.1 |
| 2 11 | 10 28.70 | +18 58.1 | 1.435 | 2.405 | 5.5 | 20.7 | 2 11 | 10 27.52 | +18 13.7 | 1.957 | 2.926 | 4.4 | 20.9 |
| 2 21 | 10 18.74 | +20 4.3 | 1.411 | 2.392 | 3.8 | 20.6 | 2 21 | 10 18.66 | +19 17.2 | 1.937 | 2.919 | 2.8 | 20.8 |
| 3 2 | 10 8.40 | +20 58.5 | 1.414 | 2.378 | 7.1 | 20.8 | 3 2 | 10 9.58 | +20 11.9 | 1.948 | 2.911 | 5.6 | 20.9 |
| 3 12 | 9 59.10 | +21 34.0 | 1.443 | 2.365 | 11.6 | 21.0 | 3 12 | 10 1.29 | +20 52.7 | 1.986 | 2.903 | 9.1 | 21.1 |
| 3 22 | 9 51.99 | +21 47.9 | 1.495 | 2.351 | 15.7 | 21.2 | 3 22 | 9 54.64 | +21 17.1 | 2.050 | 2.895 | 12.5 | 21.3 |
| 4 1 | 9 47.81 | +21 40.8 | 1.566 | 2.337 | 19.1 | 21.4 | 4 1 | 9 50.20 | +21 24.6 | 2.134 | 2.886 | 15.3 | 21.5 |
| 463843 | 2014 <i>TP</i> ₈₁ | | 2 21.9 54°46 | 8°3/16.4 | 18 | | 164533 | 2006 <i>HK</i> ₉₉ | | 2 21.9 101°46 | 0°4/21.6 | 18 | |
| 1 22 | 10 48.52 | +31 0.3 | 1.552 | 2.415 | 14.0 | 19.9 | 1 22 | 10 43.61 | + 8 57.2 | 1.702 | 2.551 | 13.7 | 20.7 |
| 2 1 | 10 40.66 | +31 56.2 | 1.523 | 2.437 | 10.9 | 19.7 | 2 1 | 10 37.04 | + 9 43.6 | 1.651 | 2.573 | 9.6 | 20.5 |
| 2 11 | 10 30.34 | +32 37.9 | 1.519 | 2.461 | 8.7 | 19.7 | 2 11 | 10 28.44 | +10 40.5 | 1.625 | 2.595 | 5.1 | 20.2 |
| 2 21 | 10 18.85 | +32 56.9 | 1.540 | 2.484 | 8.6 | 19.7 | 2 21 | 10 18.73 | +11 41.5 | 1.627 | 2.615 | 0.5 | 19.9 |
| 3 2 | 10 7.73 | +32 48.3 | 1.587 | 2.508 | 10.5 | 19.9 | 3 2 | 10 9.07 | +12 39.3 | 1.658 | 2.636 | 4.4 | 20.3 |
| 3 12 | 9 58.39 | +32 12.6 | 1.659 | 2.532 | 13.3 | 20.1 | 3 12 | 10 0.58 | +13 27.7 | 1.717 | 2.655 | 8.8 | 20.6 |
| 3 22 | 9 51.71 | +31 14.2 | 1.752 | 2.556 | 16.0 | 20.3 | 3 22 | 9 54.11 | +14 2.9 | 1.801 | 2.674 | 12.6 | 20.9 |
| 4 1 | 9 48.10 | +29 58.5 | 1.863 | 2.580 | 18.3 | 20.6 | 4 1 | 9 50.17 | +14 23.3 | 1.907 | 2.693 | 15.6 | 21.1 |
| 465936 | 2010 <i>XJ</i> ₈₃ | | 2 21.9 48°01 | 6°1/17.0 | 18 | | 413086 | 2001 <i>TG</i> ₁₆₆ | | 2 21.9 102°18 | 5°3/26.8 | 18 | |
| 1 22 | 10 41.39 | +21 46.1 | 1.388 | 2.269 | 14.2 | 20.8 | 1 22 | 10 41.53 | - 6 28.1 | 1.992 | 2.776 | 14.5 | 21.3 |
| 2 1 | 10 35.84 | +23 23.9 | 1.358 | 2.291 | 10.2 | 20.6 | 2 1 | 10 35.43 | - 6 38.1 | 1.927 | 2.795 | 11.5 | 21.2 |
| 2 11 | 10 27.88 | +24 58.4 | 1.351 | 2.315 | 6.9 | 20.5 | 2 11 | 10 27.56 | - 6 27.2 | 1.885 | 2.813 | 8.4 | 21.0 |
| 2 21 | 10 18.65 | +26 17.9 | 1.371 | 2.339 | 6.4 | 20.5 | 2 21 | 10 18.67 | - 5 56.8 | 1.870 | 2.831 | 5.8 | 20.9 |
| 3 2 | 10 9.57 | +27 13.8 | 1.417 | 2.363 | 9.2 | 20.7 | 3 2 | 10 9.72 | - 5 10.4 | 1.883 | 2.848 | 5.6 | 20.9 |
| 3 12 | 10 2.00 | +27 41.9 | 1.487 | 2.388 | 12.7 | 21.0 | 3 12 | 10 1.68 | - 4 13.9 | 1.925 | 2.865 | 7.8 | 21.1 |
| 3 22 | 9 56.84 | +27 43.2 | 1.578 | 2.413 | 16.0 | 21.3 | 3 22 | 9 55.32 | - 3 14.1 | 1.992 | 2.882 | 10.8 | 21.3 |
| 4 1 | 9 54.56 | +27 21.3 | 1.687 | 2.438 | 18.7 | 21.5 | 4 1 | 9 51.14 | - 2 16.9 | 2.083 | 2.898 | 13.5 | 21.5 |
| 372567 | 2009 <i>UF</i> ₄₆ | | 2 21.9 138°42 | 1°9/23.8 | 18 | | 400268 | 2007 <i>RO</i> ₁₄₉ | | 2 21.9 186°80 | 1°6/20.4 | 17 | |
| 1 22 | 10 39.76 | + 2 24.1 | 2.160 | 2.984 | 12.2 | 21.7 | 1 22 | 10 42.58 | +12 18.7 | 2.084 | 2.934 | 11.5 | 22.4 |
| 2 1 | 10 34.11 | + 2 46.4 | 2.088 | 2.992 | 9.0 | 21.5 | 2 1 | 10 36.27 | +13 20.2 | 2.010 | 2.934 | 8.1 | 22.2 |
| 2 11 | 10 26.82 | + 3 22.5 | 2.042 | 3.000 | 5.5 | 21.3 | 2 11 | 10 28.08 | +14 29.4 | 1.962 | 2.933 | 4.3 | 22.0 |
| 2 21 | 10 18.57 | + 4 9.1 | 2.024 | 3.008 | 2.3 | 21.1 | 2 21 | 10 18.73 | +15 39.8 | 1.945 | 2.931 | 1.6 | 21.8 |
| 3 2 | 10 10.21 | + 5 1.3 | 2.035 | 3.015 | 3.5 | 21.2 | 3 2 | 10 9.17 | +16 44.8 | 1.958 | 2.929 | 4.8 | 22.0 |
| 3 12 | 10 2.62 | + 5 53.6 | 2.076 | 3.022 | 7.0 | 21.4 | 3 12 | 10 0.44 | +17 38.4 | 2.000 | 2.925 | 8.6 | 22.2 |
| 3 22 | 9 56.53 | + 6 41.3 | 2.144 | 3.029 | 10.3 | 21.6 | 3 22 | 9 53.35 | +18 17.4 | 2.068 | 2.921 | 12.0 | 22.4 |
| 4 1 | 9 52.44 | + 7 20.7 | 2.235 | 3.035 | 13.2 | 21.8 | 4 1 | 9 48.49 | +18 40.3 | 2.157 | 2.916 | 14.9 | 22.6 |
| 203762 | 2002 <i>RM</i> ₁₇₂ | | 2 21.9 132°69 | 2°7/18.9 | 18 | | 350288 | 2012 <i>TX</i> ₂₉₀ | | 2 21.9 154°69 | 0°3/22.3 | 18 | |
| 1 22 | 10 38.88 | +17 0.2 | 2.421 | 3.279 | 9.8 | 20.5 | 1 22 | 10 37.51 | + 7 23.1 | 2.741 | 3.576 | 9.5 | 21.7 |
| 2 1 | 10 33.39 | +18 5.2 | 2.362 | 3.289 | 6.8 | 20.4 | 2 1 | 10 32.28 | + 7 57.0 | 2.667 | 3.581 | 6.8 | 21.5 |
| 2 11 | 10 26.39 | +19 12.5 | 2.330 | 3.299 | 3.9 | 20.2 | 2 11 | 10 25.78 | + 8 38.8 | 2.621 | 3.587 | 3.7 | 21.3 |
| 2 21 | 10 18.54 | +20 16.4 | 2.329 | 3.308 | 2.8 | 20.1 | 2 21 | 10 18.52 | + 9 25.3 | 2.604 | 3.592 | 0.5 | 21.1 |
| 3 2 | 10 10.62 | +21 11.2 | 2.358 | 3.317 | 5.1 | 20.3 | 3 2 | 10 11.17 | +10 12.3 | 2.618 | 3.597 | 2.9 | 21.3 |
| 3 12 | 10 3.44 | +21 53.0 | 2.415 | 3.326 | 8.0 | 20.5 | 3 12 | 10 4.42 | +10 55.7 | 2.663 | 3.602 | 6.0 | 21.5 |
| 3 22 | 9 57.65 | +22 19.9 | 2.498 | 3.334 | 10.8 | 20.7 | 3 22 | 9 58.82 | +11 32.5 | 2.735 | 3.606 | 8.8 | 21.7 |
| 4 1 | 9 53.72 | +22 31.6 | 2.603 | 3.342 | 13.1 | 20.9 | 4 1 | 9 54.79 | +12 0.5 | 2.831 | 3.610 | 11.2 | 21.8 |
| 26387 | 1999 <i>TG</i> ₂ | | 2 21.9 333°51 | 2°6/20.0 | 18 | | 348953 | 2006 <i>TY</i> ₁₂₄ | | 2 21.9 137°57 | 3°2/18.6 | 17 | |

EPHEMERIDES

2 21.9

2 21.9

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|------------------------|-----------------|----------|--------|----------|------|---------------|------------------------|-----------------|----------|--------|----------|------|
| 5329 | Decaro | | 2 21.9 | 82°78 | 1°3/20.7 | 18 R | 424735 | 2008 SZ ₂₅₀ | | 2 21.9 | 107°06 | 0°4/22.3 | 17 |
| 1 22 | 10 40.98 | + 9 31.9 | 1.769 | 2.622 | 13.1 | 17.1 | 1 22 | 10 39.03 | + 7 4.0 | 2.072 | 2.915 | 11.9 | 22.2 |
| 2 1 | 10 35.12 | +10 59.9 | 1.725 | 2.651 | 9.1 | 16.9 | 2 1 | 10 33.69 | + 7 38.1 | 2.004 | 2.922 | 8.5 | 22.0 |
| 2 11 | 10 27.39 | +12 38.0 | 1.708 | 2.679 | 4.7 | 16.7 | 2 11 | 10 26.66 | + 8 23.1 | 1.961 | 2.929 | 4.7 | 21.8 |
| 2 21 | 10 18.66 | +14 17.5 | 1.719 | 2.706 | 1.3 | 16.5 | 2 21 | 10 18.63 | + 9 14.4 | 1.947 | 2.936 | 0.7 | 21.5 |
| 3 2 | 10 9.99 | +15 49.6 | 1.760 | 2.734 | 4.8 | 16.8 | 3 2 | 10 10.51 | +10 6.6 | 1.963 | 2.942 | 3.6 | 21.7 |
| 3 12 | 10 2.42 | +17 7.2 | 1.829 | 2.760 | 8.9 | 17.1 | 3 12 | 10 3.19 | +10 54.1 | 2.007 | 2.949 | 7.4 | 22.0 |
| 3 22 | 9 56.71 | +18 6.4 | 1.924 | 2.787 | 12.4 | 17.4 | 3 22 | 9 57.42 | +11 32.8 | 2.077 | 2.955 | 10.9 | 22.2 |
| 4 1 | 9 53.35 | +18 46.0 | 2.040 | 2.812 | 15.2 | 17.6 | 4 1 | 9 53.71 | +12 0.3 | 2.170 | 2.962 | 13.8 | 22.4 |
| 16090 | Lukaszewski | | 2 21.9 | 109°89 | 0°6/21.4 | 18 | 289919 | 2005 NR ₂₃ | | 2 21.9 | 184°31 | 0°4/21.5 | 17 |
| 1 22 | 10 41.20 | + 8 49.4 | 1.674 | 2.528 | 13.7 | 19.4 | 1 22 | 10 36.03 | + 8 12.3 | 2.582 | 3.424 | 9.8 | 21.5 |
| 2 1 | 10 35.49 | + 9 47.2 | 1.615 | 2.540 | 9.6 | 19.2 | 2 1 | 10 31.38 | + 9 16.6 | 2.505 | 3.424 | 6.9 | 21.3 |
| 2 11 | 10 27.70 | +10 57.1 | 1.580 | 2.551 | 5.1 | 19.0 | 2 11 | 10 25.36 | +10 30.4 | 2.455 | 3.424 | 3.7 | 21.1 |
| 2 21 | 10 18.70 | +12 12.0 | 1.573 | 2.561 | 0.6 | 18.6 | 2 21 | 10 18.52 | +11 48.8 | 2.435 | 3.424 | 0.4 | 20.8 |
| 3 2 | 10 9.61 | +13 23.8 | 1.595 | 2.572 | 4.6 | 19.0 | 3 2 | 10 11.54 | +13 6.2 | 2.446 | 3.423 | 3.3 | 21.0 |
| 3 12 | 10 1.59 | +14 25.2 | 1.644 | 2.582 | 9.1 | 19.2 | 3 12 | 10 5.13 | +14 17.3 | 2.488 | 3.422 | 6.6 | 21.3 |
| 3 22 | 9 55.52 | +15 11.7 | 1.718 | 2.592 | 13.0 | 19.5 | 3 22 | 9 59.89 | +15 18.0 | 2.556 | 3.421 | 9.6 | 21.4 |
| 4 1 | 9 51.97 | +15 41.2 | 1.813 | 2.602 | 16.2 | 19.7 | 4 1 | 9 56.30 | +16 5.8 | 2.649 | 3.420 | 12.1 | 21.6 |
| 33375 | 1999 CD ₄ | | 2 21.9 | 309°54 | 1°4/22.8 | 18 | 153072 | 2000 QK ₂₁₀ | | 2 21.9 | 205°07 | 0°5/21.5 | 17 |
| 1 22 | 10 41.26 | + 6 17.6 | 1.285 | 2.145 | 16.5 | 18.9 | 1 22 | 10 40.88 | +10 8.0 | 2.312 | 3.156 | 10.8 | 21.4 |
| 2 1 | 10 36.39 | + 6 22.5 | 1.200 | 2.125 | 12.2 | 18.6 | 2 1 | 10 34.94 | +10 43.2 | 2.231 | 3.151 | 7.6 | 21.2 |
| 2 11 | 10 28.61 | + 6 44.3 | 1.136 | 2.105 | 7.0 | 18.2 | 2 11 | 10 27.33 | +11 26.1 | 2.176 | 3.145 | 4.1 | 20.9 |
| 2 21 | 10 18.81 | + 7 19.1 | 1.097 | 2.085 | 1.8 | 17.8 | 2 21 | 10 18.70 | +12 12.4 | 2.151 | 3.139 | 0.5 | 20.7 |
| 3 2 | 10 8.38 | + 8 0.2 | 1.084 | 2.065 | 5.2 | 18.0 | 3 2 | 10 9.87 | +12 57.1 | 2.156 | 3.133 | 3.7 | 20.9 |
| 3 12 | 9 58.97 | + 8 39.4 | 1.095 | 2.047 | 10.9 | 18.2 | 3 12 | 10 1.74 | +13 35.5 | 2.191 | 3.126 | 7.4 | 21.1 |
| 3 22 | 9 51.98 | + 9 9.9 | 1.128 | 2.028 | 16.2 | 18.5 | 3 22 | 9 55.03 | +14 4.4 | 2.253 | 3.118 | 10.7 | 21.3 |
| 4 1 | 9 48.31 | + 9 27.0 | 1.180 | 2.011 | 20.8 | 18.7 | 4 1 | 9 50.30 | +14 21.9 | 2.337 | 3.110 | 13.5 | 21.5 |
| 269057 | 2007 GW ₂₄ | | 2 21.9 | 293°60 | 6°7/27.9 | 17 | 299350 | 2005 SK ₁₉₆ | | 2 21.9 | 264°23 | 2°5/19.3 | 17 |
| 1 22 | 10 37.43 | - 9 39.9 | 1.877 | 2.655 | 15.5 | 20.3 | 1 22 | 10 39.47 | +17 49.1 | 2.532 | 3.389 | 9.5 | 21.3 |
| 2 1 | 10 32.92 | - 9 47.1 | 1.782 | 2.641 | 12.8 | 20.1 | 2 1 | 10 33.89 | +18 25.6 | 2.449 | 3.375 | 6.7 | 21.1 |
| 2 11 | 10 26.42 | - 9 29.0 | 1.709 | 2.627 | 9.8 | 19.9 | 2 11 | 10 26.75 | +19 3.7 | 2.393 | 3.361 | 3.8 | 20.9 |
| 2 21 | 10 18.60 | - 8 45.3 | 1.660 | 2.613 | 7.3 | 19.7 | 2 21 | 10 18.65 | +19 38.8 | 2.366 | 3.347 | 2.6 | 20.8 |
| 3 2 | 10 10.41 | - 7 38.8 | 1.638 | 2.599 | 6.8 | 19.7 | 3 2 | 10 10.35 | +20 6.4 | 2.370 | 3.332 | 4.8 | 20.9 |
| 3 12 | 10 2.90 | - 6 16.0 | 1.643 | 2.585 | 8.8 | 19.7 | 3 12 | 10 2.69 | +20 23.1 | 2.402 | 3.318 | 7.8 | 21.1 |
| 3 22 | 9 56.99 | - 4 45.4 | 1.673 | 2.571 | 12.0 | 19.9 | 3 22 | 9 56.34 | +20 27.3 | 2.461 | 3.303 | 10.7 | 21.2 |
| 4 1 | 9 53.38 | - 3 15.7 | 1.726 | 2.557 | 15.2 | 20.1 | 4 1 | 9 51.84 | +20 18.6 | 2.541 | 3.289 | 13.2 | 21.4 |
| 146398 | 2001 QL ₁₅₆ | | 2 21.9 | 82°66 | 1°7/23.3 | 18 | 105700 | 2000 SK ₆₇ | | 2 21.9 | 86°33 | 2°6/20.0 | 18 |
| 1 22 | 10 42.59 | + 4 18.0 | 1.744 | 2.580 | 14.0 | 19.9 | 1 22 | 10 45.04 | +14 18.5 | 1.520 | 2.384 | 14.2 | 20.1 |
| 2 1 | 10 36.30 | + 4 30.9 | 1.688 | 2.600 | 10.2 | 19.7 | 2 1 | 10 38.22 | +15 17.4 | 1.478 | 2.408 | 9.9 | 19.9 |
| 2 11 | 10 28.06 | + 4 57.9 | 1.657 | 2.620 | 6.0 | 19.5 | 2 11 | 10 29.13 | +16 21.7 | 1.461 | 2.432 | 5.3 | 19.7 |
| 2 21 | 10 18.74 | + 5 34.8 | 1.653 | 2.639 | 2.0 | 19.2 | 2 21 | 10 18.85 | +17 22.8 | 1.471 | 2.456 | 2.6 | 19.6 |
| 3 2 | 10 9.42 | + 6 16.3 | 1.678 | 2.658 | 3.9 | 19.4 | 3 2 | 10 8.70 | +18 12.9 | 1.509 | 2.479 | 6.0 | 19.8 |
| 3 12 | 10 1.21 | + 6 56.3 | 1.731 | 2.677 | 8.1 | 19.7 | 3 12 | 9 59.96 | +18 46.5 | 1.574 | 2.502 | 10.3 | 20.1 |
| 3 22 | 9 54.92 | + 7 30.2 | 1.809 | 2.696 | 11.8 | 20.0 | 3 22 | 9 53.52 | +19 2.0 | 1.662 | 2.524 | 14.0 | 20.4 |
| 4 1 | 9 51.06 | + 7 54.5 | 1.909 | 2.714 | 14.9 | 20.2 | 4 1 | 9 49.88 | +18 59.9 | 1.771 | 2.546 | 17.1 | 20.7 |
| 266335 | 2007 DF ₅₉ | | 2 21.9 | 55°28 | 1°3/22.7 | 18 | 466944 | 2016 AU ₁₂₆ | | 2 21.9 | 22°86 | 5°8/17.5 | 18 |
| 1 22 | 10 46.98 | + 7 42.9 | 1.486 | 2.334 | 15.4 | 20.2 | 1 22 | 10 39.58 | +20 25.8 | 1.318 | 2.203 | 14.6 | 20.4 |
| 2 1 | 10 39.51 | + 7 25.8 | 1.441 | 2.360 | 11.1 | 20.0 | 2 1 | 10 34.85 | +21 54.3 | 1.272 | 2.209 | 10.4 | 20.2 |
| 2 11 | 10 29.77 | + 7 19.8 | 1.419 | 2.386 | 6.2 | 19.8 | 2 11 | 10 27.53 | +23 23.3 | 1.249 | 2.217 | 6.7 | 20.0 |
| 2 21 | 10 18.88 | + 7 21.4 | 1.425 | 2.412 | 1.5 | 19.6 | 2 21 | 10 18.72 | +24 41.0 | 1.252 | 2.225 | 6.1 | 20.0 |
| 3 2 | 10 8.18 | + 7 26.3 | 1.458 | 2.439 | 4.4 | 19.8 | 3 2 | 10 9.84 | +25 37.3 | 1.280 | 2.234 | 9.1 | 20.2 |
| 3 12 | 9 58.97 | + 7 29.8 | 1.519 | 2.466 | 9.0 | 20.2 | 3 12 | 10 2.37 | +26 6.7 | 1.332 | 2.243 | 13.1 | 20.4 |
| 3 22 | 9 52.12 | + 7 28.8 | 1.605 | 2.492 | 13.0 | 20.5 | 3 22 | 9 57.35 | +26 8.9 | 1.404 | 2.254 | 16.8 | 20.7 |
| 4 1 | 9 48.12 | + 7 21.0 | 1.711 | 2.519 | 16.3 | 20.8 | 4 1 | 9 55.34 | +25 46.5 | 1.494 | 2.265 | 19.9 | 20.9 |
| 221319 | 2005 VG ₆₁ | | 2 21.9 | 195°05 | 3°8/25.9 | 18 | 287631 | 2003 HY ₃₄ | | 2 21.9 | 233°55 | 4°1/26.1 | 17 |
| 1 22 | 10 38.68 | - 4 22.1 | 2.217 | 3.011 | 12.9 | 20.4 | 1 22 | 10 38.01 | - 4 45.0 | 2.122 | 2.918 | 13.4 | 21.1 |
| 2 1 | 10 33.44 | - 3 58.4 | 2.131 | 3.009 | 10.1 | 20.2 | 2 1 | 10 33.08 | - 4 20.2 | 2.030 | 2.909 | 10.5 | 20.9 |
| 2 11 | 10 26.55 | - 3 15.4 | 2.068 | 3.007 | 7.0 | 20.0 | 2 11 | 10 26.41 | - 3 34.6 | 1.962 | 2.901 | 7.3 | 20.7 |
| 2 21 | 10 18.62 | - 2 15.2 | 2.033 | 3.004 | 4.3 | 19.8 | 2 21 | 10 18.63 | - 2 30.2 | 1.921 | 2.892 | 4.6 | 20.5 |
| 3 2 | 10 10.48 | - 1 2.4 | 2.028 | 3.001 | 4.3 | 19.8 | 3 2 | 10 10.57 | - 1 11.7 | 1.909 | 2.883 | 4.6 | 20.5 |
| 3 12 | 10 3.01 | + 0 16.8 | 2.051 | 2.997 | 7.1 | 20.0 | 3 12 | 10 3.16 | + 0 14.1 | 1.926 | 2.873 | 7.3 | 20.6 |
| 3 22 | 9 56.94 | + 1 35.7 | 2.103 | 2.993 | 10.2 | 20.2 | 3 22 | 9 57.19 | + 1 40.0 | 1.970 | 2.863 | 10.7 | 20.8 |
| 4 1 | 9 52.83 | + 2 48.4 | 2.178 | 2.988 | 13.2 | 20.3 | 4 1 | 9 53.25 | + 2 59.5 | 2.038 | 2.853 | 13.8 | 21.0 |
| 235947 | 2005 ET ₁₄₇ | | 2 21.9 | 64°81 | 1°9/20.2 | 18 | 169496 | 2002 CX ₂₁₄ | | 2 21.9 | 291°04 | 2°0/20.6 | 18 |
| 1 22 | 10 39.63 | +14 14.1 | 1.992 | 2.853 | 11.5 | 20.2 | 1 22 | 10 42.16 | +12 56.5 | 1.456 | 2.323 | 14.5 | 20.3 |
| 2 1 | 10 34.14 | +14 57.8 | 1.933 | 2.862 | 8.0 | 20.0 | 2 1 | 10 36.70 | +13 39.4 | 1.379 | 2.311 | 10.3 | 20.0 |
| 2 11 | 10 26.89 | +15 46.2 | 1.900 | 2.872 | 4.3 | 19.8 | 2 11 | 10 28.63 | +14 31.9 | 1.326 | 2.298 | 5.5 | 19.7 |
| 2 21 | 10 18.65 | +16 33.7 | 1.896 | 2.881 | 2.0 | 19.6 | 2 21 | 10 18.84 | +15 26.7 | 1.299 | 2.286 | 2.0 | 19.4 |
| 3 2 | 10 10.35 | +17 14.3 | 1.920 | 2.891 | 4.9 | 19.8 | 3 2 | 10 8.66 | +16 15.1 | 1.299 | 2.274 | 6.0 | 19.6 |
| 3 12 | 10 2.96 | +17 43.8 | 1.972 | 2.901 | 8.5 | 20.1 | 3 12 | 9 59.56 | +16 50.0 | 1.325 | 2.262 | 11.0 | 19.9 |
| 3 22 | 9 57.24 | +17 59.7 | 2.050 | 2.910 | 11.8 | 20.3 | 3 22 | 9 52.71 | +17 7.5 | 1.374 | 2.250 | 15.5 | 20.1 |
| 4 1 | 9 53.68 | +18 1.4 | 2.148 | 2.920 | 14.6 | 20.5 | 4 1 | 9 48.89 | +17 6.4 | 1.442 | 2.238 | 19.4 | 20.3 |
| 334156 | 2001 ST ₇ | | 2 21.9 | 106°93 | 0°8/21.0 | 18 | 113794 | 2002 TV ₁₉₇ | | 2 21.9 | 137°09 | 4°5/26.8 | 18 |
| 1 22 | 10 39.73 | +11 50.2 | 2.529 | 3.375 | 9.9 | 21.6 | 1 22 | 10 37.29</ | | | | | |

EPHEMERIDES

2 21.9

2 21.9

| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|-------------|---------|------|---------------|-------------------------------|-----------------|---------------|-------------|---------|------|
| 415613 | 2014 <i>QW</i> ₃₅₇ | | 2 21.9 187°19 | 0°0/21.9 17 | | | 296379 | 2009 <i>FW</i> ₄₈ | | 2 21.9 247°27 | 1°1/22.8 16 | | |
| 1 22 | 10 42.68 | + 8 16.1 | 2.045 | 2.885 | 12.1 | 22.8 | 1 22 | 10 43.23 | + 6 11.0 | 1.750 | 2.591 | 13.8 | 21.2 |
| 2 1 | 10 36.36 | + 8 51.3 | 1.967 | 2.885 | 8.6 | 22.6 | 2 1 | 10 37.13 | + 6 23.4 | 1.664 | 2.579 | 10.1 | 20.9 |
| 2 11 | 10 28.16 | + 9 36.7 | 1.916 | 2.884 | 4.7 | 22.3 | 2 11 | 10 28.77 | + 6 48.9 | 1.601 | 2.567 | 5.8 | 20.6 |
| 2 21 | 10 18.81 | +10 27.6 | 1.894 | 2.883 | 0.4 | 22.0 | 2 21 | 10 18.92 | + 7 23.8 | 1.567 | 2.554 | 1.4 | 20.3 |
| 3 2 | 10 9.25 | +11 18.3 | 1.902 | 2.880 | 3.9 | 22.3 | 3 2 | 10 8.69 | + 8 2.7 | 1.561 | 2.541 | 4.2 | 20.5 |
| 3 12 | 10 0.52 | +12 3.3 | 1.939 | 2.877 | 7.9 | 22.5 | 3 12 | 9 59.32 | + 8 39.5 | 1.583 | 2.527 | 8.8 | 20.7 |
| 3 22 | 9 53.44 | +12 38.5 | 2.003 | 2.874 | 11.6 | 22.7 | 3 22 | 9 51.83 | + 9 9.3 | 1.630 | 2.514 | 13.1 | 20.9 |
| 4 1 | 9 48.60 | +13 1.6 | 2.089 | 2.869 | 14.6 | 22.9 | 4 1 | 9 46.95 | + 9 28.6 | 1.698 | 2.499 | 16.7 | 21.1 |
| 133548 | 2003 <i>TN</i> ₁₉ | | 2 21.9 197°63 | 0°5/22.5 18 | | | 271117 | 2003 <i>SP</i> ₅ | | 2 21.9 218°54 | 1°0/21.1 17 | | |
| 1 22 | 10 39.03 | + 6 46.5 | 2.156 | 2.996 | 11.6 | 20.6 | 1 22 | 10 40.64 | +11 53.5 | 2.115 | 2.967 | 11.3 | 21.3 |
| 2 1 | 10 33.71 | + 7 16.4 | 2.078 | 2.995 | 8.3 | 20.3 | 2 1 | 10 34.90 | +12 24.0 | 2.040 | 2.964 | 8.0 | 21.1 |
| 2 11 | 10 26.70 | + 7 57.2 | 2.027 | 2.994 | 4.6 | 20.1 | 2 11 | 10 27.39 | +13 1.2 | 1.990 | 2.960 | 4.2 | 20.8 |
| 2 21 | 10 18.68 | + 8 44.7 | 2.004 | 2.992 | 0.8 | 19.8 | 2 21 | 10 18.80 | +13 40.2 | 1.969 | 2.957 | 1.0 | 20.6 |
| 3 2 | 10 10.48 | + 9 33.9 | 2.011 | 2.991 | 3.5 | 20.0 | 3 2 | 10 10.04 | +14 16.0 | 1.978 | 2.953 | 4.2 | 20.8 |
| 3 12 | 10 3.02 | +10 19.5 | 2.046 | 2.989 | 7.3 | 20.3 | 3 12 | 10 2.06 | +14 43.9 | 2.015 | 2.950 | 8.0 | 21.0 |
| 3 22 | 9 57.04 | +10 57.4 | 2.109 | 2.987 | 10.8 | 20.5 | 3 22 | 9 55.65 | +15 1.2 | 2.079 | 2.946 | 11.4 | 21.2 |
| 4 1 | 9 53.05 | +11 24.7 | 2.193 | 2.985 | 13.7 | 20.7 | 4 1 | 9 51.36 | +15 6.5 | 2.164 | 2.941 | 14.3 | 21.4 |
| 75185 | 1999 <i>VQ</i> ₁₆₀ | | 2 21.9 256°38 | 3°4/19.5 18 | | | 461816 | 2006 <i>AP</i> ₃₉ | | 2 21.9 96°45 | 2°4/19.7 18 | | |
| 1 22 | 10 44.00 | +17 19.2 | 1.637 | 2.503 | 13.3 | 19.6 | 1 22 | 10 40.99 | +14 51.7 | 1.971 | 2.830 | 11.6 | 21.3 |
| 2 1 | 10 37.74 | +18 2.9 | 1.566 | 2.497 | 9.4 | 19.4 | 2 1 | 10 35.11 | +15 53.2 | 1.920 | 2.848 | 8.1 | 21.2 |
| 2 11 | 10 29.07 | +18 49.9 | 1.520 | 2.490 | 5.4 | 19.1 | 2 11 | 10 27.44 | +16 58.9 | 1.895 | 2.865 | 4.4 | 21.0 |
| 2 21 | 10 18.91 | +19 32.6 | 1.501 | 2.483 | 3.4 | 19.0 | 2 21 | 10 18.80 | +18 2.2 | 1.899 | 2.882 | 2.5 | 20.9 |
| 3 2 | 10 8.49 | +20 3.9 | 1.510 | 2.476 | 6.6 | 19.2 | 3 2 | 10 10.14 | +18 56.5 | 1.932 | 2.899 | 5.3 | 21.1 |
| 3 12 | 9 59.18 | +20 18.6 | 1.546 | 2.469 | 10.8 | 19.4 | 3 12 | 10 2.47 | +19 37.0 | 1.993 | 2.915 | 8.8 | 21.3 |
| 3 22 | 9 52.02 | +20 15.1 | 1.605 | 2.462 | 14.7 | 19.6 | 3 22 | 9 56.52 | +20 1.5 | 2.080 | 2.932 | 12.0 | 21.6 |
| 4 1 | 9 47.67 | +19 54.3 | 1.683 | 2.454 | 18.0 | 19.8 | 4 1 | 9 52.79 | +20 9.9 | 2.187 | 2.947 | 14.7 | 21.8 |
| 43603 | 2001 <i>UQ</i> ₁₃ | | 2 21.9 179°12 | 2°0/20.2 18 | | | 45890 | 2000 <i>WS</i> ₁₆₉ | | 2 21.9 2°10 | 0°2/22.1 18 | | |
| 1 22 | 10 41.36 | +14 1.3 | 1.959 | 2.817 | 11.8 | 19.0 | 1 22 | 10 42.72 | + 7 48.3 | 1.200 | 2.065 | 17.1 | 18.1 |
| 2 1 | 10 35.49 | +14 48.3 | 1.890 | 2.818 | 8.3 | 18.8 | 2 1 | 10 37.34 | + 8 18.6 | 1.136 | 2.065 | 12.3 | 17.8 |
| 2 11 | 10 27.71 | +15 41.0 | 1.847 | 2.818 | 4.4 | 18.6 | 2 11 | 10 29.06 | + 9 5.9 | 1.094 | 2.065 | 6.7 | 17.5 |
| 2 21 | 10 18.78 | +16 33.2 | 1.833 | 2.818 | 2.0 | 18.4 | 2 21 | 10 18.96 | +10 3.2 | 1.076 | 2.065 | 0.7 | 17.1 |
| 3 2 | 10 9.70 | +17 18.8 | 1.848 | 2.818 | 5.0 | 18.6 | 3 2 | 10 8.58 | +11 1.3 | 1.084 | 2.065 | 5.4 | 17.4 |
| 3 12 | 10 1.51 | +17 52.6 | 1.891 | 2.818 | 8.9 | 18.8 | 3 12 | 9 59.58 | +11 50.8 | 1.117 | 2.066 | 11.2 | 17.7 |
| 3 22 | 9 55.05 | +18 12.1 | 1.959 | 2.818 | 12.4 | 19.0 | 3 22 | 9 53.22 | +12 25.6 | 1.172 | 2.066 | 16.2 | 18.0 |
| 4 1 | 9 50.88 | +18 16.5 | 2.048 | 2.817 | 15.3 | 19.2 | 4 1 | 9 50.22 | +12 42.6 | 1.245 | 2.067 | 20.4 | 18.3 |
| 495516 | 2014 <i>VA</i> ₅ | | 2 21.9 103°18 | 3°9/25.6 18 | | | 403274 | 2009 <i>AY</i> ₂₂ | | 2 21.9 295°26 | 2°0/23.1 18 | | |
| 1 22 | 10 40.26 | - 3 12.0 | 1.869 | 2.676 | 14.5 | 21.4 | 1 22 | 10 43.54 | + 5 25.3 | 1.449 | 2.297 | 15.7 | 20.9 |
| 2 1 | 10 34.67 | - 2 54.2 | 1.803 | 2.691 | 11.1 | 21.2 | 2 1 | 10 37.66 | + 5 19.0 | 1.370 | 2.288 | 11.6 | 20.6 |
| 2 11 | 10 27.23 | - 2 15.9 | 1.761 | 2.705 | 7.5 | 21.0 | 2 11 | 10 29.17 | + 5 27.7 | 1.315 | 2.280 | 6.8 | 20.3 |
| 2 21 | 10 18.74 | - 1 20.1 | 1.746 | 2.720 | 4.4 | 20.9 | 2 21 | 10 18.98 | + 5 48.0 | 1.285 | 2.271 | 2.3 | 20.0 |
| 3 2 | 10 10.16 | - 0 12.0 | 1.759 | 2.734 | 4.6 | 20.9 | 3 2 | 10 8.39 | + 6 14.9 | 1.282 | 2.263 | 4.7 | 20.1 |
| 3 12 | 10 2.51 | + 1 1.0 | 1.800 | 2.748 | 7.7 | 21.1 | 3 12 | 9 58.88 | + 6 42.0 | 1.305 | 2.254 | 9.8 | 20.4 |
| 3 22 | 9 56.58 | + 2 11.8 | 1.868 | 2.761 | 11.1 | 21.4 | 3 22 | 9 51.62 | + 7 3.7 | 1.352 | 2.246 | 14.5 | 20.6 |
| 4 1 | 9 52.89 | + 3 14.8 | 1.959 | 2.775 | 14.2 | 21.6 | 4 1 | 9 47.38 | + 7 16.0 | 1.418 | 2.238 | 18.5 | 20.9 |
| 310054 | 2010 <i>JW</i> ₃₂ | | 2 21.9 175°80 | 4°2/26.9 17 | | | 280653 | 2005 <i>CC</i> ₂₃ | | 2 21.9 35°84 | 5°7/15.4 17 | | |
| 1 22 | 10 37.18 | - 6 36.6 | 2.769 | 3.542 | 11.2 | 21.5 | 1 22 | 10 37.14 | +18 56.3 | 1.632 | 2.510 | 12.6 | 19.0 |
| 2 1 | 10 32.12 | - 6 34.2 | 2.683 | 3.543 | 8.9 | 21.3 | 2 1 | 10 32.87 | +21 48.4 | 1.587 | 2.522 | 8.9 | 18.8 |
| 2 11 | 10 25.76 | - 6 15.9 | 2.621 | 3.544 | 6.5 | 21.1 | 2 11 | 10 26.45 | +24 43.6 | 1.571 | 2.535 | 6.1 | 18.7 |
| 2 21 | 10 18.61 | - 5 42.9 | 2.587 | 3.545 | 4.6 | 21.0 | 2 21 | 10 18.72 | +27 27.3 | 1.585 | 2.548 | 6.3 | 18.7 |
| 3 2 | 10 11.32 | - 4 57.7 | 2.582 | 3.546 | 4.4 | 21.0 | 3 2 | 10 10.81 | +29 46.6 | 1.628 | 2.562 | 9.3 | 18.9 |
| 3 12 | 10 4.56 | - 4 4.6 | 2.607 | 3.546 | 6.1 | 21.1 | 3 12 | 10 3.93 | +31 33.7 | 1.697 | 2.577 | 12.7 | 19.2 |
| 3 22 | 9 58.92 | - 3 8.1 | 2.660 | 3.546 | 8.5 | 21.3 | 3 22 | 9 59.01 | +32 46.6 | 1.788 | 2.592 | 15.7 | 19.4 |
| 4 1 | 9 54.84 | - 2 12.9 | 2.738 | 3.546 | 10.8 | 21.4 | 4 1 | 9 56.65 | +33 27.4 | 1.897 | 2.607 | 18.2 | 19.6 |
| 29929 | 1999 <i>JR</i> ₃₉ | | 2 21.9 145°54 | 2°5/19.1 18 | | | 496376 | 2013 <i>SY</i> ₄₅ | | 2 21.9 154°85 | 2°7/24.8 16 | | |
| 1 22 | 10 39.31 | +18 1.9 | 2.674 | 3.529 | 9.1 | 18.6 | 1 22 | 10 39.84 | - 0 30.0 | 2.396 | 3.202 | 11.7 | 22.5 |
| 2 1 | 10 33.62 | +18 46.3 | 2.611 | 3.537 | 6.4 | 18.4 | 2 1 | 10 34.11 | - 0 12.5 | 2.319 | 3.210 | 8.8 | 22.4 |
| 2 11 | 10 26.55 | +19 31.6 | 2.576 | 3.544 | 3.7 | 18.2 | 2 11 | 10 26.88 | + 0 19.6 | 2.268 | 3.217 | 5.7 | 22.2 |
| 2 21 | 10 18.70 | +20 13.3 | 2.571 | 3.550 | 2.6 | 18.2 | 2 21 | 10 18.76 | + 1 3.7 | 2.245 | 3.224 | 3.0 | 22.0 |
| 3 2 | 10 10.78 | +20 47.1 | 2.596 | 3.557 | 4.6 | 18.3 | 3 2 | 10 10.51 | + 1 55.6 | 2.253 | 3.230 | 3.5 | 22.0 |
| 3 12 | 10 3.55 | +21 9.8 | 2.651 | 3.563 | 7.4 | 18.5 | 3 12 | 10 2.95 | + 2 50.5 | 2.291 | 3.235 | 6.5 | 22.2 |
| 3 22 | 9 57.61 | +21 20.1 | 2.732 | 3.568 | 9.9 | 18.7 | 3 22 | 9 56.74 | + 3 43.3 | 2.356 | 3.241 | 9.5 | 22.4 |
| 4 1 | 9 53.38 | +21 18.0 | 2.835 | 3.573 | 12.1 | 18.9 | 4 1 | 9 52.36 | + 4 30.0 | 2.445 | 3.245 | 12.2 | 22.6 |
| 84986 | 2003 <i>YC</i> ₈₃ | | 2 21.9 166°94 | 5°2/17.5 18 | | | 462082 | 2007 <i>FC</i> ₄₀ | | 2 21.9 301°37 | 1°4/23.2 17 | | |
| 1 22 | 10 42.02 | +20 58.2 | 1.662 | 2.533 | 12.8 | 19.1 | 1 22 | 10 36.75 | + 2 45.7 | 1.725 | 2.567 | 13.9 | 20.8 |
| 2 1 | 10 36.30 | +22 21.7 | 1.604 | 2.534 | 9.2 | 18.9 | 2 1 | 10 32.65 | + 3 43.4 | 1.628 | 2.543 | 10.3 | 20.5 |
| 2 11 | 10 28.28 | +23 45.5 | 1.571 | 2.535 | 6.0 | 18.7 | 2 11 | 10 26.43 | + 5 2.6 | 1.554 | 2.519 | 6.1 | 20.2 |
| 2 21 | 10 18.86 | +25 0.1 | 1.565 | 2.535 | 5.5 | 18.6 | 2 21 | 10 18.73 | + 6 38.5 | 1.508 | 2.495 | 1.8 | 19.9 |
| 3 2 | 10 9.27 | +25 56.7 | 1.587 | 2.536 | 8.2 | 18.8 | 3 2 | 10 10.56 | + 8 23.0 | 1.489 | 2.471 | 4.1 | 20.0 |
| 3 12 | 10 0.80 | +26 30.1 | 1.635 | 2.536 | 11.8 | 19.0 | 3 12 | 10 3.06 | +10 6.3 | 1.499 | 2.447 | 8.9 | 20.2 |
| 3 22 | 9 54.45 | +26 39.4 | 1.705 | 2.537 | 15.2 | 19.2 | 3 22 | 9 57.24 | +11 39.6 | 1.534 | 2.424 | 13.4 | 20.4 |
| 4 1 | 9 50.82 | +26 26.6 | 1.793 | 2.537 | 18.0 | 19.4 | 4 1 | 9 53.88 | +12 56.4 | 1.590 | 2.401 | 17.2 | 20.6 |
| 152534 | 2007 <i>BZ</i> ₇ | | 2 21.9 64°59 | 2°0/20.7 18 | | | 201196 | 2002 <i>PP</i> ₁₀₅ | | 2 21.9 81°04 | 3°3/25.3 18 | | |
| 1 2 | | | | | | | | | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|-------------------------|---------|------|---------------|-------------------------------|-----------------|---------------|-------------------------|---------|------|
| 425120 | 2009 <i>SG</i> ₁₈₆ | | 2 21.9 237°96 | 4 ¹ /26.2 17 | | | 80069 | 1999 <i>JV</i> ₉₆ | | 2 21.9 284°41 | 3 ⁷ /17.9 18 | | |
| 1 22 | 10 38.05 | - 5 8.2 | 2.070 | 2.866 | 13.7 | 22.1 | 1 22 | 10 38.20 | +19 35.8 | 2.249 | 3.114 | 10.2 | 19.2 |
| 2 1 | 10 33.19 | - 4 38.1 | 1.978 | 2.856 | 10.8 | 21.8 | 2 1 | 10 33.28 | +20 46.5 | 2.168 | 3.096 | 7.3 | 19.0 |
| 2 11 | 10 26.54 | - 3 46.0 | 1.909 | 2.847 | 7.5 | 21.6 | 2 11 | 10 26.60 | +21 59.6 | 2.113 | 3.079 | 4.6 | 18.8 |
| 2 21 | 10 18.74 | - 2 34.0 | 1.866 | 2.837 | 4.7 | 21.4 | 2 21 | 10 18.79 | +23 8.3 | 2.088 | 3.061 | 3.9 | 18.7 |
| 3 2 | 10 10.65 | - 1 7.1 | 1.853 | 2.827 | 4.6 | 21.4 | 3 2 | 10 10.70 | +24 6.1 | 2.092 | 3.044 | 6.3 | 18.8 |
| 3 12 | 10 3.22 | + 0 27.4 | 1.869 | 2.816 | 7.5 | 21.5 | 3 12 | 10 3.26 | +24 48.1 | 2.123 | 3.026 | 9.4 | 19.0 |
| 3 22 | 9 57.25 | + 2 1.6 | 1.912 | 2.805 | 10.9 | 21.7 | 3 22 | 9 57.28 | +25 12.0 | 2.179 | 3.008 | 12.4 | 19.1 |
| 4 1 | 9 53.36 | + 3 28.6 | 1.978 | 2.794 | 14.1 | 21.9 | 4 1 | 9 53.34 | +25 17.7 | 2.256 | 2.991 | 15.0 | 19.3 |
| 171867 | 2001 <i>QA</i> ₉₇ | | 2 21.9 145°19 | 0 ⁵ /22.6 17 | | | 508755 | 2017 <i>UD</i> ₃₇ | | 2 21.9 199°70 | 3 ⁴ /26.1 17 | | |
| 1 22 | 10 39.59 | + 7 19.5 | 2.923 | 3.752 | 9.2 | 20.6 | 1 22 | 10 37.36 | - 4 10.1 | 2.895 | 3.679 | 10.5 | 22.1 |
| 2 1 | 10 33.69 | + 7 36.0 | 2.852 | 3.763 | 6.6 | 20.5 | 2 1 | 10 32.25 | - 4 4.0 | 2.804 | 3.675 | 8.2 | 21.9 |
| 2 11 | 10 26.56 | + 7 59.5 | 2.808 | 3.773 | 3.7 | 20.3 | 2 11 | 10 25.87 | - 3 43.9 | 2.738 | 3.671 | 5.8 | 21.8 |
| 2 21 | 10 18.74 | + 8 27.1 | 2.795 | 3.783 | 0.7 | 20.0 | 2 21 | 10 18.72 | - 3 11.2 | 2.700 | 3.667 | 3.8 | 21.6 |
| 3 2 | 10 10.86 | + 8 55.7 | 2.813 | 3.792 | 2.7 | 20.2 | 3 2 | 10 11.40 | - 2 28.5 | 2.693 | 3.663 | 3.8 | 21.6 |
| 3 12 | 10 3.58 | + 9 22.0 | 2.862 | 3.801 | 5.6 | 20.4 | 3 12 | 10 4.57 | - 1 39.7 | 2.716 | 3.658 | 5.8 | 21.7 |
| 3 22 | 9 57.44 | + 9 43.5 | 2.939 | 3.810 | 8.3 | 20.6 | 3 22 | 9 58.80 | - 0 49.0 | 2.767 | 3.652 | 8.2 | 21.9 |
| 4 1 | 9 52.84 | + 9 58.4 | 3.041 | 3.818 | 10.6 | 20.8 | 4 1 | 9 54.53 | - 0 0.5 | 2.843 | 3.646 | 10.6 | 22.0 |
| 468504 | 2005 <i>LC</i> ₃₈ | | 2 21.9 196°21 | 4 ⁷ /27.9 17 | | | 105310 | 2000 <i>QM</i> ₆₇ | | 2 21.9 187°55 | 1 ¹ /20.5 18 | | |
| 1 22 | 10 36.80 | - 9 27.0 | 2.919 | 3.673 | 11.1 | 22.1 | 1 22 | 10 36.66 | +11 21.5 | 2.917 | 3.762 | 8.7 | 20.4 |
| 2 1 | 10 31.85 | - 9 22.1 | 2.826 | 3.670 | 9.1 | 22.0 | 2 1 | 10 31.75 | +12 27.1 | 2.839 | 3.761 | 6.1 | 20.2 |
| 2 11 | 10 25.64 | - 9 0.3 | 2.757 | 3.667 | 6.9 | 21.8 | 2 11 | 10 25.60 | +13 39.2 | 2.790 | 3.760 | 3.2 | 20.0 |
| 2 21 | 10 18.66 | - 8 22.5 | 2.716 | 3.664 | 5.1 | 21.7 | 2 21 | 10 18.70 | +14 52.9 | 2.772 | 3.759 | 1.1 | 19.9 |
| 3 2 | 10 11.52 | - 7 30.9 | 2.704 | 3.660 | 4.8 | 21.7 | 3 2 | 10 11.65 | +16 3.6 | 2.785 | 3.757 | 3.5 | 20.0 |
| 3 12 | 10 4.86 | - 6 29.7 | 2.721 | 3.655 | 6.2 | 21.8 | 3 12 | 10 5.11 | +17 6.5 | 2.829 | 3.754 | 6.4 | 20.2 |
| 3 22 | 9 59.24 | - 5 23.7 | 2.767 | 3.651 | 8.3 | 21.9 | 3 22 | 9 59.63 | +17 58.8 | 2.901 | 3.751 | 9.0 | 20.4 |
| 4 1 | 9 55.12 | - 4 17.7 | 2.838 | 3.645 | 10.5 | 22.0 | 4 1 | 9 55.64 | +18 38.6 | 2.996 | 3.748 | 11.3 | 20.5 |
| 374553 | 2006 <i>BG</i> ₁₂₇ | | 2 21.9 159°49 | 0 ⁵ /22.4 17 | | | 97064 | 1999 <i>VF</i> ₁₆ | | 2 21.9 144°56 | 0 ² /22.1 18 | | |
| 1 22 | 10 40.75 | + 7 34.5 | 2.017 | 2.859 | 12.2 | 21.2 | 1 22 | 10 40.45 | + 8 17.6 | 2.126 | 2.968 | 11.6 | 20.1 |
| 2 1 | 10 35.01 | + 7 51.0 | 1.943 | 2.860 | 8.7 | 21.0 | 2 1 | 10 34.72 | + 8 43.7 | 2.054 | 2.973 | 8.3 | 19.9 |
| 2 11 | 10 27.46 | + 8 17.6 | 1.894 | 2.861 | 4.8 | 20.8 | 2 11 | 10 27.29 | + 9 19.1 | 2.009 | 2.977 | 4.5 | 19.7 |
| 2 21 | 10 18.83 | + 8 50.3 | 1.874 | 2.862 | 0.8 | 20.5 | 2 21 | 10 18.85 | + 9 59.5 | 1.993 | 2.981 | 0.5 | 19.4 |
| 3 2 | 10 10.04 | + 9 24.4 | 1.883 | 2.863 | 3.7 | 20.7 | 3 2 | 10 10.30 | +10 40.1 | 2.006 | 2.985 | 3.6 | 19.6 |
| 3 12 | 10 2.08 | + 9 55.1 | 1.921 | 2.864 | 7.7 | 20.9 | 3 12 | 10 2.54 | +11 15.9 | 2.049 | 2.989 | 7.4 | 19.9 |
| 3 22 | 9 55.74 | +10 18.6 | 1.984 | 2.864 | 11.3 | 21.2 | 3 22 | 9 56.33 | +11 43.5 | 2.117 | 2.993 | 10.8 | 20.1 |
| 4 1 | 9 51.57 | +10 32.5 | 2.070 | 2.865 | 14.3 | 21.4 | 4 1 | 9 52.17 | +12 0.6 | 2.208 | 2.996 | 13.7 | 20.3 |
| 459304 | 2012 <i>GC</i> ₂₆ | | 2 21.9 302°87 | 6 ³ /17.6 17 | | | 151967 | 2004 <i>GT</i> ₃₆ | | 2 21.9 4°46 | 9 ³ /28.5 18 | | |
| 1 22 | 10 45.78 | +25 15.1 | 1.606 | 2.475 | 13.3 | 20.8 | 1 22 | 10 35.10 | - 9 9.4 | 1.145 | 1.965 | 20.9 | 19.1 |
| 2 1 | 10 39.22 | +26 1.7 | 1.534 | 2.459 | 10.0 | 20.5 | 2 1 | 10 32.00 | - 9 56.1 | 1.082 | 1.964 | 17.3 | 18.8 |
| 2 11 | 10 29.99 | +26 43.3 | 1.486 | 2.444 | 7.1 | 20.3 | 2 11 | 10 26.24 | -10 8.2 | 1.036 | 1.965 | 13.4 | 18.6 |
| 2 21 | 10 19.07 | +27 10.7 | 1.464 | 2.429 | 6.6 | 20.3 | 2 21 | 10 18.77 | - 9 43.9 | 1.011 | 1.967 | 10.2 | 18.4 |
| 3 2 | 10 7.86 | +27 16.7 | 1.469 | 2.414 | 9.1 | 20.4 | 3 2 | 10 10.99 | - 8 46.4 | 1.007 | 1.971 | 9.4 | 18.4 |
| 3 12 | 9 57.87 | +26 58.1 | 1.499 | 2.399 | 12.7 | 20.5 | 3 12 | 10 4.44 | - 7 25.3 | 1.027 | 1.977 | 11.7 | 18.5 |
| 3 22 | 9 50.24 | +26 16.1 | 1.552 | 2.385 | 16.3 | 20.7 | 3 22 | 10 0.31 | - 5 53.6 | 1.067 | 1.985 | 15.3 | 18.8 |
| 4 1 | 9 45.70 | +25 14.3 | 1.622 | 2.371 | 19.4 | 20.9 | 4 1 | 9 59.32 | - 4 23.6 | 1.126 | 1.994 | 19.0 | 19.0 |
| 226721 | 2004 <i>PA</i> ₄₀ | | 2 21.9 147°07 | 0 ⁶ /22.6 18 | | | 197236 | 2003 <i>WA</i> ₅₇ | | 2 21.9 72°47 | 3 ⁴ /25.3 18 | | |
| 1 22 | 10 39.57 | + 6 5.2 | 2.132 | 2.969 | 11.8 | 20.7 | 1 22 | 10 37.94 | - 1 45.4 | 2.042 | 2.854 | 13.2 | 20.6 |
| 2 1 | 10 34.09 | + 6 44.5 | 2.061 | 2.976 | 8.5 | 20.5 | 2 1 | 10 33.02 | - 1 29.9 | 1.967 | 2.859 | 10.1 | 20.4 |
| 2 11 | 10 26.94 | + 7 35.5 | 2.016 | 2.982 | 4.7 | 20.3 | 2 11 | 10 26.41 | - 0 56.5 | 1.915 | 2.863 | 6.7 | 20.2 |
| 2 21 | 10 18.80 | + 8 33.6 | 1.999 | 2.987 | 0.9 | 20.0 | 2 21 | 10 18.78 | - 0 7.9 | 1.891 | 2.868 | 3.8 | 20.0 |
| 3 2 | 10 10.53 | + 9 33.3 | 2.012 | 2.992 | 3.5 | 20.2 | 3 2 | 10 10.99 | + 0 51.5 | 1.895 | 2.872 | 4.1 | 20.1 |
| 3 12 | 10 3.03 | +10 28.8 | 2.055 | 2.997 | 7.3 | 20.5 | 3 12 | 10 3.96 | + 1 55.2 | 1.928 | 2.877 | 7.2 | 20.2 |
| 3 22 | 9 57.05 | +11 15.7 | 2.124 | 3.002 | 10.7 | 20.7 | 3 22 | 9 58.45 | + 2 57.3 | 1.988 | 2.881 | 10.6 | 20.5 |
| 4 1 | 9 53.08 | +11 51.1 | 2.216 | 3.006 | 13.6 | 20.9 | 4 1 | 9 54.96 | + 3 52.5 | 2.070 | 2.886 | 13.6 | 20.7 |
| 319729 | 2006 <i>UK</i> ₁₀₄ | | 2 21.9 246°46 | 2 ⁶ /24.2 16 | | | 197610 | 2004 <i>JR</i> ₁₈ | | 2 21.9 230°41 | 1 ⁹ /20.5 18 | | |
| 1 22 | 10 39.56 | + 0 56.0 | 1.774 | 2.602 | 14.2 | 21.0 | 1 22 | 10 43.37 | +12 13.7 | 1.565 | 2.426 | 14.0 | 20.6 |
| 2 1 | 10 34.46 | + 1 20.9 | 1.692 | 2.597 | 10.7 | 20.8 | 2 1 | 10 37.46 | +13 12.2 | 1.489 | 2.418 | 9.9 | 20.3 |
| 2 11 | 10 27.30 | + 2 4.8 | 1.634 | 2.592 | 6.7 | 20.5 | 2 11 | 10 29.06 | +14 21.3 | 1.438 | 2.409 | 5.3 | 20.0 |
| 2 21 | 10 18.84 | + 3 4.0 | 1.603 | 2.586 | 3.0 | 20.3 | 2 21 | 10 19.04 | +15 33.3 | 1.414 | 2.400 | 2.0 | 19.8 |
| 3 2 | 10 10.10 | + 4 12.7 | 1.600 | 2.580 | 4.2 | 20.4 | 3 2 | 10 8.66 | +16 39.1 | 1.418 | 2.391 | 5.8 | 20.0 |
| 3 12 | 10 2.18 | + 5 23.2 | 1.625 | 2.575 | 8.2 | 20.6 | 3 12 | 9 59.32 | +17 30.9 | 1.449 | 2.381 | 10.6 | 20.3 |
| 3 22 | 9 56.02 | + 6 28.6 | 1.676 | 2.569 | 12.2 | 20.8 | 3 22 | 9 52.11 | +18 4.5 | 1.504 | 2.371 | 14.9 | 20.5 |
| 4 1 | 9 52.25 | + 7 23.4 | 1.748 | 2.563 | 15.7 | 21.0 | 4 1 | 9 47.79 | +18 18.5 | 1.578 | 2.361 | 18.5 | 20.7 |
| 231567 | 2008 <i>TT</i> ₁₆₃ | | 2 21.9 182°10 | 0 ⁴ /22.3 17 | | | 84208 | 2002 <i>RA</i> ₁₃₉ | | 2 21.9 69°43 | 3 ⁹ /18.7 18 | | |
| 1 22 | 10 39.46 | + 7 27.4 | 2.193 | 3.034 | 11.4 | 21.2 | 1 22 | 10 41.33 | +16 24.6 | 1.524 | 2.396 | 13.7 | 19.2 |
| 2 1 | 10 34.01 | + 7 55.7 | 2.117 | 3.034 | 8.2 | 21.0 | 2 1 | 10 35.77 | +17 52.9 | 1.480 | 2.413 | 9.6 | 19.0 |
| 2 11 | 10 26.91 | + 8 33.9 | 2.067 | 3.034 | 4.5 | 20.8 | 2 11 | 10 27.98 | +19 25.3 | 1.461 | 2.431 | 5.5 | 18.8 |
| 2 21 | 10 18.80 | + 9 18.1 | 2.046 | 3.034 | 0.6 | 20.5 | 2 21 | 10 18.93 | +20 51.8 | 1.468 | 2.448 | 4.0 | 18.7 |
| 3 2 | 10 10.54 | +10 3.3 | 2.054 | 3.034 | 3.5 | 20.7 | 3 2 | 10 9.88 | +22 2.9 | 1.504 | 2.466 | 7.1 | 19.0 |
| 3 12 | 10 3.01 | +10 44.5 | 2.092 | 3.034 | 7.2 | 20.9 | 3 12 | 10 2.11 | +22 52.5 | 1.566 | 2.483 | 11.1 | 19.2 |
| 3 22 | 9 56.95 | +11 17.9 | 2.156 | 3.033 | 10.6 | 21.1 | 3 22 | 9 56.50 | +23 19.0 | 1.650 | 2.501 | 14.7 | 19.5 |
| 4 1 | 9 52.87 | +11 41.1 | 2.243 | 3.032 | 13.5 | 21.3 | 4 1 | 9 53.60 | +23 23.3 | 1.753 | 2.518 | 17.6 | 19.7 |
| 469134 | 2015 <i>EJ</i> ₆₂ | | 2 21.9 263°63 | 1 ² /20.9 17 | | | 366406 | 2 | | | | | |

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| 2020 | α_{2000} | δ_{2000} | Δ | r | β | V | 2020 | α_{2000} | δ_{2000} | Δ | r | β | V |
|---------------|-------------------------------|-----------------|---------------|----------|---------|------|---------------|-------------------------------|-----------------|---------------|----------|---------|------|
| 66334 | 1999 <i>JC</i> ₆₁ | | 2 21.9 330°27 | 3°2/19.4 | 18 | | 324672 | 2007 <i>DE</i> ₆₁ | | 2 22.0 199°37 | 1°6/23.5 | 17 | |
| 1 22 | 10 40.43 | +14 13.9 | 1.390 | 2.264 | 14.6 | 18.2 | 1 22 | 10 38.96 | + 3 2.0 | 2.012 | 2.843 | 12.7 | 21.3 |
| 2 1 | 10 35.53 | +15 32.8 | 1.326 | 2.261 | 10.3 | 17.9 | 2 1 | 10 33.84 | + 3 39.6 | 1.932 | 2.841 | 9.3 | 21.1 |
| 2 11 | 10 28.06 | +17 1.6 | 1.285 | 2.258 | 5.6 | 17.7 | 2 11 | 10 26.92 | + 4 32.6 | 1.878 | 2.839 | 5.5 | 20.9 |
| 2 21 | 10 18.98 | +18 30.0 | 1.271 | 2.255 | 3.4 | 17.5 | 2 21 | 10 18.90 | + 5 37.0 | 1.852 | 2.838 | 1.9 | 20.6 |
| 3 2 | 10 9.61 | +19 47.1 | 1.283 | 2.252 | 7.1 | 17.7 | 3 2 | 10 10.67 | + 6 46.8 | 1.855 | 2.835 | 3.6 | 20.7 |
| 3 12 | 10 1.42 | +20 44.5 | 1.321 | 2.249 | 11.8 | 18.0 | 3 12 | 10 3.19 | + 7 55.2 | 1.887 | 2.833 | 7.5 | 21.0 |
| 3 22 | 9 55.54 | +21 18.2 | 1.381 | 2.247 | 16.1 | 18.2 | 3 22 | 9 57.26 | + 8 56.5 | 1.945 | 2.830 | 11.2 | 21.2 |
| 4 1 | 9 52.65 | +21 28.1 | 1.459 | 2.245 | 19.6 | 18.5 | 4 1 | 9 53.44 | + 9 46.6 | 2.026 | 2.828 | 14.3 | 21.4 |
| 381268 | 2007 <i>TL</i> ₂₁₃ | | 2 21.9 125°22 | 2°6/19.4 | 15 | | 207326 | 2005 <i>GK</i> ₁₃₅ | | 2 22.0 150°56 | 2°9/18.6 | 17 | |
| 1 22 | 10 41.13 | +18 0.3 | 2.475 | 3.330 | 9.7 | 21.5 | 1 22 | 10 39.48 | +19 12.3 | 2.717 | 3.573 | 8.9 | 21.2 |
| 2 1 | 10 34.99 | +18 36.5 | 2.415 | 3.341 | 6.8 | 21.3 | 2 1 | 10 33.79 | +20 4.9 | 2.655 | 3.580 | 6.3 | 21.1 |
| 2 11 | 10 27.36 | +19 13.4 | 2.383 | 3.351 | 3.9 | 21.2 | 2 11 | 10 26.73 | +20 57.8 | 2.622 | 3.588 | 3.8 | 20.9 |
| 2 21 | 10 18.90 | +19 46.3 | 2.380 | 3.361 | 2.6 | 21.1 | 2 21 | 10 18.88 | +21 46.2 | 2.619 | 3.594 | 3.0 | 20.9 |
| 3 2 | 10 10.42 | +20 10.9 | 2.408 | 3.370 | 4.8 | 21.3 | 3 2 | 10 10.96 | +22 25.4 | 2.646 | 3.601 | 4.9 | 21.0 |
| 3 12 | 10 2.72 | +20 24.4 | 2.465 | 3.380 | 7.7 | 21.5 | 3 12 | 10 3.71 | +22 52.6 | 2.702 | 3.607 | 7.5 | 21.2 |
| 3 22 | 9 56.45 | +20 25.5 | 2.547 | 3.389 | 10.4 | 21.6 | 3 22 | 9 57.73 | +23 6.3 | 2.784 | 3.613 | 10.0 | 21.4 |
| 4 1 | 9 52.05 | +20 14.5 | 2.652 | 3.397 | 12.7 | 21.8 | 4 1 | 9 53.46 | +23 6.6 | 2.889 | 3.618 | 12.1 | 21.5 |
| 423188 | 2004 <i>NO</i> ₈ | | 2 21.9 155°05 | 2°3/19.4 | 17 | | 250206 | 2002 <i>VS</i> ₆ | | 2 22.0 100°36 | 0°8/22.7 | 18 | |
| 1 22 | 10 40.72 | +15 53.3 | 2.554 | 3.406 | 9.6 | 22.3 | 1 22 | 10 44.22 | + 5 55.1 | 2.037 | 2.868 | 12.5 | 22.0 |
| 2 1 | 10 34.71 | +16 53.9 | 2.491 | 3.416 | 6.7 | 22.2 | 2 1 | 10 37.25 | + 6 26.0 | 1.987 | 2.898 | 9.0 | 21.8 |
| 2 11 | 10 27.23 | +17 57.6 | 2.456 | 3.424 | 3.7 | 22.0 | 2 11 | 10 28.59 | + 7 7.8 | 1.963 | 2.928 | 5.0 | 21.6 |
| 2 21 | 10 18.89 | +18 58.8 | 2.451 | 3.433 | 2.3 | 21.9 | 2 21 | 10 19.04 | + 7 55.9 | 1.969 | 2.956 | 1.1 | 21.4 |
| 3 2 | 10 10.47 | +19 52.3 | 2.477 | 3.440 | 4.6 | 22.1 | 3 2 | 10 9.59 | + 8 44.9 | 2.004 | 2.984 | 3.5 | 21.6 |
| 3 12 | 10 2.76 | +20 34.3 | 2.533 | 3.447 | 7.6 | 22.2 | 3 12 | 10 1.16 | + 9 29.5 | 2.070 | 3.011 | 7.3 | 21.9 |
| 3 22 | 9 56.40 | +21 2.6 | 2.615 | 3.453 | 10.3 | 22.4 | 3 22 | 9 54.47 | +10 5.9 | 2.162 | 3.037 | 10.7 | 22.2 |
| 4 1 | 9 51.85 | +21 16.8 | 2.720 | 3.458 | 12.6 | 22.6 | 4 1 | 9 49.96 | +10 31.8 | 2.277 | 3.062 | 13.4 | 22.4 |
| 92555 | 2000 <i>OZ</i> ₃₈ | | 2 21.9 286°46 | 7°0/26.8 | 17 | | 330884 | 2009 <i>RG</i> ₄₀ | | 2 22.0 293°25 | 0°2/21.9 | 17 | |
| 1 22 | 10 41.67 | - 7 57.0 | 1.865 | 2.646 | 15.5 | 19.5 | 1 22 | 10 43.68 | +10 28.8 | 1.729 | 2.581 | 13.4 | 20.6 |
| 2 1 | 10 36.17 | - 8 37.5 | 1.758 | 2.620 | 12.8 | 19.3 | 2 1 | 10 37.49 | +10 31.4 | 1.647 | 2.570 | 9.6 | 20.4 |
| 2 11 | 10 28.41 | - 8 57.0 | 1.674 | 2.593 | 9.9 | 19.0 | 2 11 | 10 29.02 | +10 41.9 | 1.590 | 2.560 | 5.2 | 20.1 |
| 2 21 | 10 19.03 | - 8 53.7 | 1.614 | 2.566 | 7.5 | 18.8 | 2 21 | 10 19.11 | +10 56.4 | 1.560 | 2.549 | 0.5 | 19.7 |
| 3 2 | 10 9.02 | - 8 28.1 | 1.582 | 2.539 | 7.3 | 18.8 | 3 2 | 10 8.88 | +11 9.9 | 1.559 | 2.538 | 4.4 | 20.0 |
| 3 12 | 9 59.58 | - 7 44.6 | 1.576 | 2.512 | 9.6 | 18.8 | 3 12 | 9 59.59 | +11 17.9 | 1.586 | 2.528 | 9.0 | 20.2 |
| 3 22 | 9 51.79 | - 6 49.8 | 1.595 | 2.485 | 12.9 | 19.0 | 3 22 | 9 52.25 | +11 17.5 | 1.637 | 2.518 | 13.2 | 20.4 |
| 4 1 | 9 46.47 | - 5 51.4 | 1.636 | 2.457 | 16.3 | 19.1 | 4 1 | 9 47.55 | +11 6.8 | 1.710 | 2.507 | 16.7 | 20.7 |
| 264041 | 2009 <i>RB</i> ₃ | | 2 22.0 176°22 | 2°5/24.1 | 18 | | 288902 | 2004 <i>RR</i> ₃₂₀ | | 2 22.0 84°36 | 0°5/22.3 | 18 | |
| 1 22 | 10 42.01 | + 1 59.4 | 2.080 | 2.900 | 12.7 | 20.9 | 1 22 | 10 45.91 | + 8 31.9 | 1.434 | 2.287 | 15.6 | 20.0 |
| 2 1 | 10 35.91 | + 2 0.3 | 2.001 | 2.901 | 9.5 | 20.6 | 2 1 | 10 39.18 | + 8 35.5 | 1.373 | 2.296 | 11.2 | 19.8 |
| 2 11 | 10 28.00 | + 2 15.0 | 1.947 | 2.902 | 6.0 | 20.4 | 2 11 | 10 29.92 | + 8 50.7 | 1.336 | 2.304 | 6.1 | 19.5 |
| 2 21 | 10 18.98 | + 2 41.1 | 1.921 | 2.903 | 2.8 | 20.2 | 2 21 | 10 19.18 | + 9 12.8 | 1.325 | 2.313 | 0.9 | 19.2 |
| 3 2 | 10 9.78 | + 3 14.7 | 1.925 | 2.903 | 3.8 | 20.3 | 3 2 | 10 8.36 | + 9 35.8 | 1.341 | 2.322 | 4.7 | 19.5 |
| 3 12 | 10 1.37 | + 3 50.9 | 1.958 | 2.904 | 7.3 | 20.5 | 3 12 | 9 58.87 | + 9 53.9 | 1.385 | 2.330 | 9.7 | 19.8 |
| 3 22 | 9 54.54 | + 4 25.0 | 2.017 | 2.903 | 10.8 | 20.7 | 3 22 | 9 51.77 | +10 3.4 | 1.452 | 2.339 | 14.1 | 20.1 |
| 4 1 | 9 49.85 | + 4 53.1 | 2.100 | 2.902 | 13.8 | 20.9 | 4 1 | 9 47.67 | +10 2.0 | 1.539 | 2.348 | 17.8 | 20.3 |
| 27481 | 2000 <i>GS</i> ₉₁ | | 2 22.0 186°46 | 1°2/20.6 | 18 | | 190392 | 1999 <i>TL</i> ₈₂ | | 2 22.0 130°19 | 2°4/24.6 | 18 | |
| 1 22 | 10 37.58 | +11 23.1 | 2.404 | 3.254 | 10.2 | 19.0 | 1 22 | 10 38.77 | - 0 17.8 | 2.284 | 3.096 | 12.0 | 20.7 |
| 2 1 | 10 32.63 | +12 24.8 | 2.330 | 3.254 | 7.1 | 18.8 | 2 1 | 10 33.45 | + 0 14.6 | 2.212 | 3.107 | 9.0 | 20.5 |
| 2 11 | 10 26.18 | +13 34.0 | 2.283 | 3.254 | 3.7 | 18.6 | 2 11 | 10 26.61 | + 1 2.5 | 2.166 | 3.118 | 5.7 | 20.3 |
| 2 21 | 10 18.82 | +14 45.2 | 2.266 | 3.253 | 1.2 | 18.4 | 2 21 | 10 18.88 | + 2 2.6 | 2.148 | 3.128 | 2.8 | 20.1 |
| 3 2 | 10 11.30 | +15 52.7 | 2.279 | 3.252 | 4.0 | 18.6 | 3 2 | 10 11.05 | + 3 9.9 | 2.160 | 3.139 | 3.5 | 20.2 |
| 3 12 | 10 4.42 | +16 51.4 | 2.322 | 3.251 | 7.4 | 18.8 | 3 12 | 10 3.95 | + 4 18.6 | 2.202 | 3.148 | 6.6 | 20.4 |
| 3 22 | 9 58.86 | +17 37.7 | 2.391 | 3.250 | 10.4 | 19.0 | 3 22 | 9 58.22 | + 5 23.3 | 2.271 | 3.158 | 9.7 | 20.6 |
| 4 1 | 9 55.09 | +18 9.8 | 2.483 | 3.248 | 13.0 | 19.2 | 4 1 | 9 54.36 | + 6 19.6 | 2.364 | 3.167 | 12.5 | 20.8 |
| 378300 | 2007 <i>EG</i> ₁₉₁ | | 2 22.0 197°79 | 3°4/25.9 | 17 | | 240740 | 2005 <i>JZ</i> ₈₉ | | 2 22.0 300°72 | 3°9/17.9 | 18 | |
| 1 22 | 10 38.28 | - 3 59.8 | 2.508 | 3.298 | 11.7 | 21.7 | 1 22 | 10 38.32 | +19 30.2 | 2.103 | 2.970 | 10.7 | 20.3 |
| 2 1 | 10 33.09 | - 3 32.6 | 2.418 | 3.295 | 9.1 | 21.5 | 2 1 | 10 33.40 | +20 44.3 | 2.035 | 2.965 | 7.6 | 20.0 |
| 2 11 | 10 26.42 | - 2 48.3 | 2.353 | 3.291 | 6.3 | 21.3 | 2 11 | 10 26.70 | +22 0.3 | 1.993 | 2.959 | 4.8 | 19.9 |
| 2 21 | 10 18.84 | - 1 49.0 | 2.315 | 3.287 | 3.8 | 21.2 | 2 21 | 10 18.89 | +23 10.9 | 1.980 | 2.954 | 4.1 | 19.8 |
| 3 2 | 10 11.06 | - 0 38.8 | 2.309 | 3.282 | 3.9 | 21.2 | 3 2 | 10 10.90 | +24 9.4 | 1.996 | 2.949 | 6.5 | 19.9 |
| 3 12 | 10 3.86 | - 0 36.8 | 2.332 | 3.277 | 6.4 | 21.3 | 3 12 | 10 3.68 | +24 50.8 | 2.040 | 2.944 | 9.6 | 20.1 |
| 3 22 | 9 57.89 | + 1 52.1 | 2.383 | 3.271 | 9.3 | 21.5 | 3 22 | 9 58.02 | +25 13.2 | 2.107 | 2.939 | 12.7 | 20.3 |
| 4 1 | 9 53.64 | + 3 1.8 | 2.460 | 3.264 | 12.0 | 21.6 | 4 1 | 9 54.50 | +25 16.9 | 2.194 | 2.934 | 15.2 | 20.5 |
| 358504 | 2007 <i>RN</i> ₁₇₃ | | 2 22.0 256°29 | 0°4/22.4 | 18 | | 132167 | 2002 <i>EH</i> ₁₇ | | 2 22.0 198°55 | 0°1/22.1 | 18 | |
| 1 22 | 10 40.25 | + 5 44.9 | 1.603 | 2.452 | 14.4 | 20.6 | 1 22 | 10 42.30 | + 7 22.0 | 2.113 | 2.950 | 11.9 | 21.3 |
| 2 1 | 10 35.21 | + 6 39.1 | 1.522 | 2.442 | 10.4 | 20.3 | 2 1 | 10 36.17 | + 8 6.3 | 2.031 | 2.947 | 8.5 | 21.1 |
| 2 11 | 10 27.86 | + 7 51.2 | 1.464 | 2.432 | 5.8 | 20.0 | 2 11 | 10 28.18 | + 9 2.2 | 1.975 | 2.942 | 4.7 | 20.8 |
| 2 21 | 10 18.99 | + 9 15.0 | 1.433 | 2.422 | 0.8 | 19.6 | 2 21 | 10 19.04 | +10 4.6 | 1.948 | 2.937 | 0.5 | 20.5 |
| 3 2 | 10 9.73 | +10 42.0 | 1.431 | 2.411 | 4.5 | 19.9 | 3 2 | 10 9.65 | +11 7.6 | 1.952 | 2.931 | 3.8 | 20.7 |
| 3 12 | 10 1.37 | +12 2.9 | 1.455 | 2.400 | 9.5 | 20.1 | 3 12 | 10 1.01 | +12 5.1 | 1.986 | 2.924 | 7.8 | 21.0 |
| 3 22 | 9 54.96 | +13 10.4 | 1.505 | 2.389 | 13.9 | 20.4 | 3 22 | 9 53.93 | +12 52.6 | 2.046 | 2.916 | 11.4 | 21.2 |
| 4 1 | 9 51.21 | +14 0.3 | 1.574 | 2.378 | 17.7 | 20.6 | 4 1 | 9 49.01 | +13 27.3 | 2.128 | 2.907 | 14.5 | 21.4 |
| 8285 | 1991 <i>UK</i> ₃ | | 2 22.0 15°04 | 8°4/29.8 | 18 | | 516657 | 2008 <i>OW</i> ₂₅ | | 2 22.0 155°43 | 2°0/24.2 | 16 | |
| 1 22 | | | | | | | | | | | | | |