| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **186763** 2004 $CC_{108}$ | | | 7 16.9 | 91°.70 | 2°.6/17.9 17 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.81 | −14 14.2 | 1.617 | 2.453 | 16.6 | 20.6 |
| 6 20 | 20 9.75 | −14 7.9 | 1.555 | 2.470 | 13.0 | 20.4 |
| 6 30 | 20 2.23 | −14 12.6 | 1.515 | 2.486 | 8.9 | 20.2 |
| 7 10 | 19 53.01 | −14 26.7 | 1.497 | 2.502 | 4.6 | 20.0 |
| 7 20 | 19 43.10 | −14 48.0 | 1.506 | 2.518 | 2.8 | 19.9 |
| 7 30 | 19 33.70 | −15 13.3 | 1.541 | 2.534 | 6.2 | 20.1 |
| 8 9 | 19 25.86 | −15 39.7 | 1.601 | 2.549 | 10.2 | 20.4 |
| 8 19 | 19 20.35 | −16 5.0 | 1.684 | 2.564 | 13.8 | 20.7 |
| **159344** 2006 $QS_{142}$ | | | 7 16.9 | 341°.84 | 1°.3/17.4 17 | |
| 6 10 | 20 12.99 | −18 18.2 | 1.369 | 2.229 | 17.8 | 19.7 |
| 6 20 | 20 9.07 | −18 7.7 | 1.296 | 2.226 | 13.9 | 19.5 |
| 6 30 | 20 2.20 | −18 5.5 | 1.242 | 2.223 | 9.3 | 19.2 |
| 7 10 | 19 53.13 | −18 9.9 | 1.211 | 2.220 | 4.2 | 18.9 |
| 7 20 | 19 43.01 | −18 18.0 | 1.203 | 2.218 | 2.0 | 18.8 |
| 7 30 | 19 33.27 | −18 27.2 | 1.221 | 2.216 | 6.9 | 19.1 |
| 8 9 | 19 25.28 | −18 35.4 | 1.261 | 2.215 | 11.8 | 19.3 |
| 8 19 | 19 20.01 | −18 41.3 | 1.323 | 2.214 | 16.1 | 19.6 |
| **128695** 2004 $RH_{97}$ | | | 7 16.9 | 227°.10 | 0°.4/16.8 18 | |
| 6 10 | 20 11.46 | −22 27.6 | 2.628 | 3.460 | 11.1 | 20.2 |
| 6 20 | 20 6.52 | −22 28.2 | 2.537 | 3.454 | 8.5 | 20.0 |
| 6 30 | 19 59.86 | −22 31.0 | 2.471 | 3.447 | 5.6 | 19.8 |
| 7 10 | 19 51.98 | −22 33.9 | 2.431 | 3.440 | 2.3 | 19.6 |
| 7 20 | 19 43.53 | −22 35.3 | 2.419 | 3.433 | 1.2 | 19.5 |
| 7 30 | 19 35.26 | −22 33.8 | 2.436 | 3.426 | 4.4 | 19.7 |
| 8 9 | 19 27.93 | −22 28.6 | 2.481 | 3.419 | 7.6 | 19.9 |
| 8 19 | 19 22.12 | −22 20.0 | 2.550 | 3.411 | 10.4 | 20.1 |
| **8836** Aquifolium | | | 7 16.9 | 70°.21 | 4°.5/19.4 18 | |
| 6 10 | 20 8.40 | − 6 53.5 | 2.210 | 3.015 | 13.8 | 17.6 |
| 6 20 | 20 4.34 | − 6 43.1 | 2.131 | 3.019 | 11.2 | 17.4 |
| 6 30 | 19 58.52 | − 6 45.8 | 2.073 | 3.022 | 8.4 | 17.3 |
| 7 10 | 19 51.43 | − 7 1.7 | 2.040 | 3.026 | 5.7 | 17.1 |
| 7 20 | 19 43.76 | − 7 29.7 | 2.032 | 3.030 | 4.5 | 17.0 |
| 7 30 | 19 36.30 | − 8 7.6 | 2.052 | 3.033 | 6.0 | 17.1 |
| 8 9 | 19 29.82 | − 8 52.2 | 2.098 | 3.037 | 8.7 | 17.3 |
| 8 19 | 19 24.93 | − 9 40.1 | 2.168 | 3.041 | 11.4 | 17.5 |
| **472959** 2015 $GK_{34}$ | | | 7 16.9 | 107°.39 | 2°.4/15.7 17 | |
| 6 10 | 20 13.74 | −23 58.9 | 1.927 | 2.773 | 13.9 | 20.8 |
| 6 20 | 20 8.88 | −25 3.6 | 1.861 | 2.785 | 10.7 | 20.6 |
| 6 30 | 20 1.68 | −26 13.1 | 1.818 | 2.797 | 7.0 | 20.4 |
| 7 10 | 19 52.81 | −27 21.9 | 1.800 | 2.808 | 3.4 | 20.3 |
| 7 20 | 19 43.17 | −28 24.3 | 1.810 | 2.819 | 3.0 | 20.2 |
| 7 30 | 19 33.83 | −29 15.8 | 1.848 | 2.831 | 6.4 | 20.5 |
| 8 9 | 19 25.86 | −29 54.3 | 1.911 | 2.841 | 9.9 | 20.7 |
| 8 19 | 19 20.02 | −30 19.8 | 1.998 | 2.852 | 13.1 | 20.9 |
| **360913** 2005 $SW_{239}$ | | | 7 16.9 | 221°.47 | 5°.7/14.1 18 | |
| 6 10 | 20 16.37 | −39 7.8 | 2.614 | 3.438 | 11.4 | 21.9 |
| 6 20 | 20 10.62 | −39 48.9 | 2.533 | 3.431 | 9.3 | 21.7 |
| 6 30 | 20 2.69 | −40 23.7 | 2.476 | 3.425 | 7.2 | 21.6 |
| 7 10 | 19 53.21 | −40 47.2 | 2.444 | 3.417 | 5.8 | 21.5 |
| 7 20 | 19 43.00 | −40 55.7 | 2.440 | 3.410 | 6.0 | 21.5 |
| 7 30 | 19 33.07 | −40 47.5 | 2.462 | 3.402 | 7.6 | 21.6 |
| 8 9 | 19 24.40 | −40 23.2 | 2.510 | 3.395 | 9.7 | 21.7 |
| 8 19 | 19 17.69 | −39 45.4 | 2.581 | 3.386 | 11.9 | 21.8 |
| **430209** 2013 $TZ_{143}$ | | | 7 17.0 | 317°.63 | 2°.0/17.7 17 | |
| 6 10 | 20 9.83 | −15 56.0 | 1.356 | 2.217 | 17.8 | 21.0 |
| 6 20 | 20 6.81 | −15 56.8 | 1.274 | 2.203 | 14.1 | 20.7 |
| 6 30 | 20 0.87 | −16 9.9 | 1.210 | 2.189 | 9.6 | 20.4 |
| 7 10 | 19 52.66 | −16 33.7 | 1.168 | 2.176 | 4.7 | 20.1 |
| 7 20 | 19 43.19 | −17 5.1 | 1.149 | 2.163 | 2.4 | 19.9 |
| 7 30 | 19 33.90 | −17 40.1 | 1.155 | 2.151 | 7.1 | 20.2 |
| 8 9 | 19 26.18 | −18 14.6 | 1.183 | 2.140 | 12.2 | 20.4 |
| 8 19 | 19 21.13 | −18 45.7 | 1.232 | 2.129 | 16.7 | 20.7 |
| **442941** 2013 $CH_{75}$ | | | 7 17.0 | 67°.31 | 4°.7/20.1 15 | |
| 6 10 | 20 8.23 | − 4 35.5 | 2.200 | 2.996 | 14.1 | 21.4 |
| 6 20 | 20 4.18 | − 4 48.6 | 2.129 | 3.009 | 11.5 | 21.2 |
| 6 30 | 19 58.38 | − 5 17.5 | 2.079 | 3.022 | 8.7 | 21.1 |
| 7 10 | 19 51.38 | − 6 1.5 | 2.053 | 3.035 | 6.0 | 20.9 |
| 7 20 | 19 43.84 | − 6 58.7 | 2.053 | 3.049 | 4.7 | 20.9 |
| 7 30 | 19 36.55 | − 8 5.4 | 2.081 | 3.062 | 5.9 | 21.0 |
| 8 9 | 19 30.25 | − 9 17.3 | 2.136 | 3.076 | 8.5 | 21.2 |
| 8 19 | 19 25.54 | −10 30.3 | 2.215 | 3.089 | 11.2 | 21.4 |
| **167410** 2003 $WB_{127}$ | | | 7 17.0 | 288°.94 | 4°.3/14.8 18 | |
| 6 10 | 20 12.59 | −28 43.8 | 1.867 | 2.720 | 14.0 | 19.8 |
| 6 20 | 20 8.53 | −29 48.8 | 1.775 | 2.701 | 11.0 | 19.6 |
| 6 30 | 20 1.84 | −30 57.1 | 1.705 | 2.681 | 7.6 | 19.3 |
| 7 10 | 19 53.05 | −32 2.6 | 1.659 | 2.661 | 4.8 | 19.1 |
| 7 20 | 19 43.07 | −32 58.7 | 1.640 | 2.641 | 4.9 | 19.1 |
| 7 30 | 19 33.10 | −33 40.3 | 1.647 | 2.621 | 7.9 | 19.2 |
| 8 9 | 19 24.42 | −34 5.1 | 1.679 | 2.601 | 11.6 | 19.4 |
| 8 19 | 19 18.05 | −34 13.5 | 1.732 | 2.581 | 15.0 | 19.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **199031** 2005 $WX_{136}$ | | | 7 17.0 | 351°.38 | 1°.8/16.5 17 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 4.18 | −22 31.1 | 0.830 | 1.739 | 21.7 | 20.2 |
| 6 20 | 20 3.83 | −22 52.0 | 0.771 | 1.729 | 16.8 | 19.9 |
| 6 30 | 19 59.58 | −23 22.7 | 0.728 | 1.721 | 11.1 | 19.6 |
| 7 10 | 19 52.28 | −23 57.7 | 0.703 | 1.715 | 4.8 | 19.2 |
| 7 20 | 19 43.42 | −24 29.8 | 0.696 | 1.711 | 3.0 | 19.1 |
| 7 30 | 19 35.05 | −24 52.6 | 0.709 | 1.708 | 9.3 | 19.4 |
| 8 9 | 19 29.15 | −25 2.6 | 0.740 | 1.708 | 15.4 | 19.8 |
| 8 19 | 19 26.96 | −24 59.7 | 0.787 | 1.710 | 20.7 | 20.1 |
| **348053** 2003 $UA_{206}$ | | | 7 17.0 | 266°.38 | 2°.8/17.9 18 | |
| 6 10 | 20 15.02 | −14 6.9 | 1.764 | 2.594 | 15.7 | 22.0 |
| 6 20 | 20 10.32 | −13 55.2 | 1.658 | 2.569 | 12.6 | 21.7 |
| 6 30 | 20 3.00 | −13 53.3 | 1.573 | 2.542 | 8.8 | 21.4 |
| 7 10 | 19 53.56 | −14 0.8 | 1.512 | 2.515 | 4.8 | 21.1 |
| 7 20 | 19 42.85 | −14 16.3 | 1.476 | 2.488 | 3.0 | 20.9 |
| 7 30 | 19 32.07 | −14 37.5 | 1.468 | 2.459 | 6.6 | 21.1 |
| 8 9 | 19 22.46 | −15 1.6 | 1.485 | 2.430 | 11.1 | 21.3 |
| 8 19 | 19 15.06 | −15 26.3 | 1.524 | 2.400 | 15.2 | 21.5 |
| **478619** 2012 $TZ_{163}$ | | | 7 17.0 | 289°.89 | 8°.8/20.3 18 | |
| 6 10 | 20 9.53 | + 0 27.5 | 1.866 | 2.647 | 16.8 | 21.4 |
| 6 20 | 20 5.87 | + 1 12.2 | 1.761 | 2.620 | 14.5 | 21.1 |
| 6 30 | 19 59.94 | + 1 39.0 | 1.674 | 2.593 | 12.0 | 20.9 |
| 7 10 | 19 52.23 | + 1 44.3 | 1.609 | 2.565 | 9.8 | 20.7 |
| 7 20 | 19 43.43 | + 1 26.0 | 1.568 | 2.537 | 8.8 | 20.6 |
| 7 30 | 19 34.55 | + 0 44.4 | 1.551 | 2.509 | 9.7 | 20.6 |
| 8 9 | 19 26.63 | − 0 16.8 | 1.557 | 2.481 | 12.2 | 20.7 |
| 8 19 | 19 20.59 | − 1 32.2 | 1.586 | 2.453 | 15.2 | 20.8 |
| **20106** Morton | | | 7 17.0 | 237°.94 | 3°.6/15.8 18 | |
| 6 10 | 20 18.18 | −31 11.4 | 2.110 | 2.947 | 13.2 | 19.7 |
| 6 20 | 20 12.30 | −31 26.1 | 2.020 | 2.936 | 10.4 | 19.5 |
| 6 30 | 20 3.96 | −31 37.7 | 1.954 | 2.925 | 7.2 | 19.3 |
| 7 10 | 19 53.82 | −31 41.8 | 1.912 | 2.913 | 4.3 | 19.1 |
| 7 20 | 19 42.81 | −31 34.8 | 1.898 | 2.901 | 4.0 | 19.1 |
| 7 30 | 19 32.09 | −31 15.2 | 1.912 | 2.889 | 6.7 | 19.2 |
| 8 9 | 19 22.78 | −30 43.5 | 1.952 | 2.876 | 10.1 | 19.4 |
| 8 19 | 19 15.69 | −30 2.4 | 2.016 | 2.863 | 13.2 | 19.6 |
| **11848** Paullouka | | | 7 17.0 | 222°.33 | 0°.2/16.9 18 | |
| 6 10 | 20 12.91 | −20 19.5 | 2.100 | 2.937 | 13.3 | 19.2 |
| 6 20 | 20 8.12 | −20 38.7 | 2.012 | 2.931 | 10.3 | 19.0 |
| 6 30 | 20 1.17 | −21 3.5 | 1.946 | 2.924 | 6.7 | 18.8 |
| 7 10 | 19 52.64 | −21 31.2 | 1.906 | 2.916 | 2.8 | 18.5 |
| 7 20 | 19 43.31 | −21 58.7 | 1.894 | 2.909 | 1.3 | 18.4 |
| 7 30 | 19 34.15 | −22 23.2 | 1.909 | 2.901 | 5.3 | 18.7 |
| 8 9 | 19 26.12 | −22 42.6 | 1.951 | 2.892 | 9.1 | 18.9 |
| 8 19 | 19 19.99 | −22 56.3 | 2.017 | 2.884 | 12.4 | 19.1 |
| **347041** 2010 $EH_{109}$ | | | 7 17.0 | 67°.92 | 4°.5/19.1 17 | |
| 6 10 | 20 10.91 | − 8 38.4 | 1.817 | 2.636 | 15.8 | 20.9 |
| 6 20 | 20 6.52 | − 8 24.9 | 1.753 | 2.652 | 12.7 | 20.7 |
| 6 30 | 20 0.04 | − 8 25.6 | 1.710 | 2.667 | 9.2 | 20.5 |
| 7 10 | 19 52.11 | − 8 40.3 | 1.690 | 2.683 | 6.0 | 20.4 |
| 7 20 | 19 43.58 | − 9 7.3 | 1.696 | 2.698 | 4.5 | 20.3 |
| 7 30 | 19 35.42 | − 9 43.8 | 1.728 | 2.714 | 6.4 | 20.4 |
| 8 9 | 19 28.56 | −10 26.2 | 1.786 | 2.730 | 9.6 | 20.7 |
| 8 19 | 19 23.65 | −11 10.7 | 1.866 | 2.745 | 12.7 | 20.9 |
| **1440** Rostia | | | 7 17.0 | 278°.00 | 1°.0/16.5 18 | |
| 6 10 | 20 10.25 | −22 49.4 | 2.408 | 3.247 | 11.7 | 17.6 |
| 6 20 | 20 5.92 | −23 11.1 | 2.309 | 3.230 | 9.0 | 17.4 |
| 6 30 | 19 59.68 | −23 36.3 | 2.234 | 3.212 | 5.9 | 17.1 |
| 7 10 | 19 52.01 | −24 2.5 | 2.184 | 3.194 | 2.6 | 16.9 |
| 7 20 | 19 43.58 | −24 26.8 | 2.162 | 3.176 | 1.6 | 16.8 |
| 7 30 | 19 35.24 | −24 46.7 | 2.169 | 3.158 | 5.0 | 17.0 |
| 8 9 | 19 27.82 | −25 0.6 | 2.202 | 3.139 | 8.4 | 17.2 |
| 8 19 | 19 22.04 | −25 8.0 | 2.259 | 3.121 | 11.5 | 17.3 |
| **85023** 2087 $P$–$L$ | | | 7 17.0 | 313°.14 | 6°.4/19.8 18 | |
| 6 10 | 20 8.40 | − 3 53.5 | 2.028 | 2.826 | 15.1 | 19.2 |
| 6 20 | 20 4.59 | − 3 19.0 | 1.942 | 2.819 | 12.6 | 19.0 |
| 6 30 | 19 58.83 | − 2 59.3 | 1.877 | 2.813 | 9.9 | 18.9 |
| 7 10 | 19 51.65 | − 2 56.0 | 1.834 | 2.807 | 7.5 | 18.7 |
| 7 20 | 19 43.75 | − 3 9.4 | 1.816 | 2.801 | 6.4 | 18.6 |
| 7 30 | 19 36.00 | − 3 38.2 | 1.824 | 2.795 | 7.5 | 18.7 |
| 8 9 | 19 29.27 | − 4 19.2 | 1.857 | 2.789 | 10.0 | 18.8 |
| 8 19 | 19 24.25 | − 5 8.3 | 1.913 | 2.784 | 12.8 | 19.0 |
| **18450** 1994 $PG_{27}$ | | | 7 17.0 | 119°.12 | 0°.2/17.1 18 | |
| 6 10 | 20 10.94 | −19 17.5 | 2.438 | 3.269 | 11.9 | 19.3 |
| 6 20 | 20 6.15 | −19 33.7 | 2.364 | 3.280 | 9.1 | 19.2 |
| 6 30 | 19 59.63 | −19 54.9 | 2.314 | 3.290 | 5.9 | 19.0 |
| 7 10 | 19 51.91 | −20 18.9 | 2.291 | 3.300 | 2.5 | 18.8 |
| 7 20 | 19 43.67 | −20 43.3 | 2.295 | 3.310 | 1.0 | 18.7 |
| 7 30 | 19 35.69 | −21 5.9 | 2.328 | 3.320 | 4.5 | 18.9 |
| 8 9 | 19 28.72 | −21 25.0 | 2.389 | 3.329 | 7.7 | 19.2 |
| 8 19 | 19 23.34 | −21 40.0 | 2.474 | 3.339 | 10.5 | 19.4 |

**284573** 2007 $TP_{60}$ 7 17.0 357.°70 4.°1/18.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 8.75 | −11 18.9 | 1.548 | 2.390 | 16.9 | 20.0 |
| 6 20 | 20 5.42 | −11 1.4 | 1.473 | 2.388 | 13.6 | 19.8 |
| 6 30 | 19 59.63 | −10 57.6 | 1.419 | 2.387 | 9.7 | 19.6 |
| 7 10 | 19 52.05 | −11 7.6 | 1.386 | 2.386 | 5.8 | 19.4 |
| 7 20 | 19 43.59 | −11 29.8 | 1.378 | 2.385 | 4.2 | 19.3 |
| 7 30 | 19 35.42 | −12 1.5 | 1.394 | 2.386 | 6.9 | 19.4 |
| 8 9 | 19 28.65 | −12 38.8 | 1.435 | 2.387 | 10.8 | 19.7 |
| 8 19 | 19 24.12 | −13 17.8 | 1.497 | 2.388 | 14.6 | 19.9 |

**394702** 2008 $DD_{12}$ 7 17.0 81.°70 1.°5/17.9 16

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|---|---|---|---|---|---|---|
| 6 10 | 20 9.71 | −14 14.8 | 2.151 | 2.979 | 13.3 | 21.5 |
| 6 20 | 20 5.42 | −14 42.2 | 2.079 | 2.990 | 10.4 | 21.3 |
| 6 30 | 19 59.27 | −15 19.6 | 2.030 | 3.001 | 7.0 | 21.1 |
| 7 10 | 19 51.79 | −16 4.7 | 2.006 | 3.012 | 3.4 | 20.9 |
| 7 20 | 19 43.72 | −16 54.4 | 2.009 | 3.022 | 1.7 | 20.8 |
| 7 30 | 19 35.91 | −17 45.1 | 2.040 | 3.033 | 4.9 | 21.1 |
| 8 9 | 19 29.17 | −18 33.8 | 2.098 | 3.044 | 8.3 | 21.3 |
| 8 19 | 19 24.13 | −19 18.1 | 2.181 | 3.055 | 11.4 | 21.5 |

**475222** 2005 $VC_{90}$ 7 17.0 298.°05 5.°5/13.9 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 12.81 | −35 2.6 | 2.232 | 3.075 | 12.4 | 20.8 |
| 6 20 | 20 8.23 | −36 5.4 | 2.157 | 3.070 | 9.9 | 20.6 |
| 6 30 | 20 1.34 | −37 5.0 | 2.104 | 3.066 | 7.4 | 20.5 |
| 7 10 | 19 52.74 | −37 55.8 | 2.076 | 3.062 | 5.7 | 20.4 |
| 7 20 | 19 43.29 | −38 32.6 | 2.075 | 3.057 | 5.9 | 20.4 |
| 7 30 | 19 34.06 | −38 52.4 | 2.101 | 3.053 | 8.0 | 20.5 |
| 8 9 | 19 26.10 | −38 54.9 | 2.151 | 3.049 | 10.5 | 20.7 |
| 8 19 | 19 20.21 | −38 41.8 | 2.223 | 3.045 | 13.0 | 20.8 |

**430066** 2013 $SM_{35}$ 7 17.0 144.°28 0.°9/16.7 17

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|---|---|---|---|---|---|---|
| 6 10 | 20 15.95 | −22 18.4 | 1.846 | 2.688 | 14.6 | 21.4 |
| 6 20 | 20 10.60 | −22 37.8 | 1.774 | 2.696 | 11.2 | 21.2 |
| 6 30 | 20 2.83 | −23 1.5 | 1.724 | 2.703 | 7.3 | 21.0 |
| 7 10 | 19 53.35 | −23 26.0 | 1.699 | 2.709 | 3.1 | 20.7 |
| 7 20 | 19 43.10 | −23 47.6 | 1.702 | 2.716 | 1.7 | 20.6 |
| 7 30 | 19 33.23 | −24 3.4 | 1.731 | 2.721 | 5.9 | 20.9 |
| 8 9 | 19 24.81 | −24 12.3 | 1.786 | 2.727 | 9.9 | 21.2 |
| 8 19 | 19 18.63 | −24 14.2 | 1.865 | 2.732 | 13.3 | 21.4 |

**39067** 2000 $VG_{3}$ 7 17.0 329.°85 6.°0/15.0 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 11.57 | −29 57.8 | 1.147 | 2.031 | 18.8 | 18.1 |
| 6 20 | 20 9.07 | −30 54.5 | 1.075 | 2.017 | 14.9 | 17.8 |
| 6 30 | 20 2.85 | −31 53.2 | 1.022 | 2.005 | 10.5 | 17.5 |
| 7 10 | 19 53.67 | −32 44.9 | 0.990 | 1.993 | 6.7 | 17.3 |
| 7 20 | 19 42.89 | −33 20.6 | 0.979 | 1.982 | 6.7 | 17.2 |
| 7 30 | 19 32.46 | −33 34.1 | 0.990 | 1.972 | 10.6 | 17.4 |
| 8 9 | 19 24.24 | −33 24.6 | 1.022 | 1.963 | 15.3 | 17.7 |
| 8 19 | 19 19.53 | −32 55.5 | 1.071 | 1.955 | 19.6 | 17.9 |

**515851** 2015 $OH_{53}$ 7 17.0 265.°45 3.°1/15.3 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 11.22 | −27 46.2 | 2.294 | 3.139 | 12.1 | 21.4 |
| 6 20 | 20 6.83 | −28 37.0 | 2.209 | 3.130 | 9.3 | 21.2 |
| 6 30 | 20 0.35 | −29 29.5 | 2.146 | 3.122 | 6.3 | 21.0 |
| 7 10 | 19 52.33 | −30 19.3 | 2.110 | 3.113 | 3.6 | 20.8 |
| 7 20 | 19 43.51 | −31 2.0 | 2.101 | 3.104 | 3.5 | 20.8 |
| 7 30 | 19 34.82 | −31 34.4 | 2.119 | 3.096 | 6.2 | 21.0 |
| 8 9 | 19 27.20 | −31 54.7 | 2.164 | 3.087 | 9.3 | 21.1 |
| 8 19 | 19 21.40 | −32 3.3 | 2.232 | 3.078 | 12.2 | 21.3 |

**277597** 2006 $AL_{34}$ 7 17.0 204.°92 5.°8/13.8 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 16.81 | −34 8.6 | 2.081 | 2.921 | 13.3 | 21.0 |
| 6 20 | 20 11.54 | −35 26.3 | 2.005 | 2.918 | 10.6 | 20.8 |
| 6 30 | 20 3.66 | −36 42.2 | 1.951 | 2.913 | 7.9 | 20.6 |
| 7 10 | 19 53.79 | −37 49.2 | 1.923 | 2.909 | 6.0 | 20.5 |
| 7 20 | 19 42.88 | −38 40.9 | 1.921 | 2.904 | 6.3 | 20.5 |
| 7 30 | 19 32.15 | −39 13.5 | 1.947 | 2.898 | 8.5 | 20.6 |
| 8 9 | 19 22.82 | −39 26.0 | 1.997 | 2.892 | 11.4 | 20.8 |
| 8 19 | 19 15.81 | −39 20.8 | 2.069 | 2.886 | 14.0 | 21.0 |

**26575** Andreapugh 7 17.0 348.°66 0.°6/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 5.99 | −17 45.2 | 1.134 | 2.016 | 19.1 | 17.5 |
| 6 20 | 20 4.29 | −18 6.7 | 1.064 | 2.006 | 15.0 | 17.2 |
| 6 30 | 19 59.43 | −18 42.1 | 1.012 | 1.998 | 9.9 | 16.9 |
| 7 10 | 19 52.14 | −19 28.2 | 0.980 | 1.991 | 4.3 | 16.5 |
| 7 20 | 19 43.58 | −20 19.4 | 0.970 | 1.986 | 1.8 | 16.3 |
| 7 30 | 19 35.32 | −21 9.6 | 0.983 | 1.981 | 7.6 | 16.7 |
| 8 9 | 19 28.91 | −21 53.4 | 1.017 | 1.979 | 13.0 | 17.0 |
| 8 19 | 19 25.44 | −22 27.9 | 1.070 | 1.977 | 17.7 | 17.3 |

**226335** 2003 $FS_{46}$ 7 17.0 126.°83 1.°8/17.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.97 | −14 52.9 | 1.959 | 2.786 | 14.5 | 21.5 |
| 6 20 | 20 8.83 | −15 1.5 | 1.889 | 2.799 | 11.3 | 21.3 |
| 6 30 | 20 1.55 | −15 19.5 | 1.841 | 2.811 | 7.6 | 21.1 |
| 7 10 | 19 52.79 | −15 45.0 | 1.817 | 2.823 | 3.8 | 20.9 |
| 7 20 | 19 43.37 | −16 15.2 | 1.821 | 2.834 | 2.0 | 20.8 |
| 7 30 | 19 34.30 | −16 47.4 | 1.853 | 2.845 | 5.4 | 21.0 |
| 8 9 | 19 26.51 | −17 18.7 | 1.911 | 2.855 | 9.0 | 21.3 |
| 8 19 | 19 20.69 | −17 47.4 | 1.993 | 2.865 | 12.3 | 21.5 |

**316679** 1995 $UD_{16}$ 7 17.0 301.°90 1.°0/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.93 | −21 50.2 | 1.991 | 2.840 | 13.5 | 20.9 |
| 6 20 | 20 6.12 | −22 17.4 | 1.894 | 2.820 | 10.4 | 20.7 |
| 6 30 | 20 0.06 | −22 50.3 | 1.820 | 2.800 | 6.9 | 20.4 |
| 7 10 | 19 52.28 | −23 26.0 | 1.770 | 2.780 | 2.9 | 20.2 |
| 7 20 | 19 43.54 | −24 0.6 | 1.747 | 2.761 | 1.7 | 20.0 |
| 7 30 | 19 34.87 | −24 30.6 | 1.751 | 2.742 | 5.8 | 20.3 |
| 8 9 | 19 27.30 | −24 53.8 | 1.780 | 2.723 | 9.7 | 20.5 |
| 8 19 | 19 21.67 | −25 9.1 | 1.832 | 2.704 | 13.3 | 20.6 |

**436875** 2012 $TA_{23}$ 7 17.0 308.°43 8.°4/20.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.50 | − 0 10.6 | 1.814 | 2.601 | 17.0 | 20.8 |
| 6 20 | 20 5.65 | + 0 35.6 | 1.734 | 2.597 | 14.5 | 20.6 |
| 6 30 | 19 59.65 | + 1 3.2 | 1.672 | 2.594 | 11.8 | 20.4 |
| 7 10 | 19 52.06 | + 1 9.4 | 1.632 | 2.590 | 9.5 | 20.3 |
| 7 20 | 19 43.66 | + 0 53.1 | 1.616 | 2.587 | 8.4 | 20.2 |
| 7 30 | 19 35.45 | + 0 15.6 | 1.624 | 2.584 | 9.3 | 20.2 |
| 8 9 | 19 28.39 | − 0 38.8 | 1.656 | 2.581 | 11.5 | 20.4 |
| 8 19 | 19 23.26 | − 1 44.8 | 1.710 | 2.578 | 14.3 | 20.5 |

**446390** 2014 $HD_{175}$ 7 17.0 315.°03 4.°6/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.10 | − 9 39.0 | 2.059 | 2.875 | 14.3 | 21.0 |
| 6 20 | 20 5.87 | − 8 59.4 | 1.973 | 2.869 | 11.6 | 20.8 |
| 6 30 | 19 59.66 | − 8 29.8 | 1.908 | 2.863 | 8.5 | 20.6 |
| 7 10 | 19 52.03 | − 8 11.2 | 1.868 | 2.858 | 5.7 | 20.4 |
| 7 20 | 19 43.69 | − 8 3.8 | 1.853 | 2.852 | 4.6 | 20.3 |
| 7 30 | 19 35.55 | − 8 6.9 | 1.865 | 2.847 | 6.4 | 20.4 |
| 8 9 | 19 28.47 | − 8 18.4 | 1.903 | 2.841 | 9.4 | 20.6 |
| 8 19 | 19 23.13 | − 8 36.1 | 1.964 | 2.836 | 12.5 | 20.8 |

**396647** 2002 $BY_{17}$ 7 17.0 135.°48 1.°6/18.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.70 | −12 45.8 | 2.688 | 3.500 | 11.4 | 21.5 |
| 6 20 | 20 5.07 | −13 17.6 | 2.609 | 3.510 | 8.9 | 21.3 |
| 6 30 | 19 58.89 | −13 58.4 | 2.555 | 3.520 | 6.1 | 21.1 |
| 7 10 | 19 51.63 | −14 46.4 | 2.526 | 3.530 | 3.1 | 21.0 |
| 7 20 | 19 43.87 | −15 39.1 | 2.527 | 3.539 | 1.7 | 20.9 |
| 7 30 | 19 36.29 | −16 33.4 | 2.557 | 3.548 | 4.2 | 21.1 |
| 8 9 | 19 29.55 | −17 26.7 | 2.615 | 3.557 | 7.1 | 21.3 |
| 8 19 | 19 24.18 | −18 16.5 | 2.699 | 3.565 | 9.7 | 21.5 |

**314323** 2005 $SP_{271}$ 7 17.0 271.°46 1.°8/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.32 | −25 6.7 | 2.297 | 3.140 | 12.1 | 21.2 |
| 6 20 | 20 6.84 | −25 31.9 | 2.205 | 3.127 | 9.3 | 21.0 |
| 6 30 | 20 0.34 | −25 59.4 | 2.136 | 3.114 | 6.2 | 20.8 |
| 7 10 | 19 52.34 | −26 25.9 | 2.093 | 3.101 | 2.9 | 20.6 |
| 7 20 | 19 43.57 | −26 48.2 | 2.077 | 3.088 | 2.3 | 20.5 |
| 7 30 | 19 34.93 | −27 3.7 | 2.089 | 3.075 | 5.5 | 20.7 |
| 8 9 | 19 27.34 | −27 11.2 | 2.128 | 3.062 | 8.8 | 20.9 |
| 8 19 | 19 21.51 | −27 10.8 | 2.190 | 3.049 | 11.9 | 21.0 |

**62024** 2000 $RF_{50}$ 7 17.0 323.°64 9.°8/12.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.42 | −39 23.5 | 1.459 | 2.319 | 16.9 | 18.0 |
| 6 20 | 20 11.06 | −40 57.6 | 1.387 | 2.305 | 14.0 | 17.8 |
| 6 30 | 20 4.08 | −42 26.1 | 1.336 | 2.291 | 11.4 | 17.6 |
| 7 10 | 19 54.19 | −43 38.0 | 1.306 | 2.278 | 9.9 | 17.5 |
| 7 20 | 19 42.73 | −44 23.7 | 1.299 | 2.265 | 10.5 | 17.5 |
| 7 30 | 19 31.54 | −44 37.5 | 1.314 | 2.253 | 12.8 | 17.6 |
| 8 9 | 19 22.48 | −44 20.1 | 1.349 | 2.242 | 15.9 | 17.8 |
| 8 19 | 19 16.80 | −43 36.9 | 1.403 | 2.231 | 18.9 | 17.9 |

**433942** 1995 $SY_{11}$ 7 17.0 282.°19 0.°2/16.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.39 | −20 32.8 | 1.774 | 2.623 | 14.8 | 21.8 |
| 6 20 | 20 8.15 | −20 44.5 | 1.688 | 2.612 | 11.5 | 21.5 |
| 6 30 | 20 1.44 | −21 2.3 | 1.623 | 2.602 | 7.6 | 21.3 |
| 7 10 | 19 52.87 | −21 23.5 | 1.582 | 2.592 | 3.2 | 21.0 |
| 7 20 | 19 43.34 | −21 44.6 | 1.567 | 2.582 | 1.4 | 20.8 |
| 7 30 | 19 34.00 | −22 2.8 | 1.578 | 2.571 | 6.0 | 21.1 |
| 8 9 | 19 25.99 | −22 16.0 | 1.615 | 2.561 | 10.3 | 21.3 |
| 8 19 | 19 20.18 | −22 23.4 | 1.674 | 2.551 | 14.0 | 21.6 |

**269118** 2007 $LH_{15}$ 7 17.0 28.°97 9.°1/14.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.51 | −38 46.3 | 1.240 | 2.108 | 18.7 | 19.0 |
| 6 20 | 20 12.40 | −39 46.3 | 1.199 | 2.124 | 15.2 | 18.9 |
| 6 30 | 20 4.56 | −40 34.8 | 1.177 | 2.140 | 11.8 | 18.7 |
| 7 10 | 19 54.17 | −41 2.5 | 1.175 | 2.158 | 9.4 | 18.6 |
| 7 20 | 19 42.89 | −41 2.8 | 1.196 | 2.177 | 9.5 | 18.7 |
| 7 30 | 19 32.66 | −40 34.7 | 1.239 | 2.196 | 11.7 | 18.9 |
| 8 9 | 19 25.04 | −39 42.5 | 1.303 | 2.217 | 14.8 | 19.1 |
| 8 19 | 19 20.86 | −38 33.2 | 1.385 | 2.238 | 17.8 | 19.4 |

**384488** 2010 $CG_{65}$ 7 17.0 171.°61 0.°5/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.69 | −18 2.6 | 2.173 | 3.005 | 13.1 | 21.8 |
| 6 20 | 20 7.80 | −18 22.9 | 2.093 | 3.007 | 10.1 | 21.6 |
| 6 30 | 20 0.90 | −18 50.3 | 2.035 | 3.010 | 6.7 | 21.4 |
| 7 10 | 19 52.56 | −19 22.2 | 2.002 | 3.011 | 2.9 | 21.2 |
| 7 20 | 19 43.52 | −19 55.6 | 1.998 | 3.013 | 1.2 | 21.1 |
| 7 30 | 19 34.71 | −20 27.7 | 2.021 | 3.014 | 5.0 | 21.3 |
| 8 9 | 19 27.00 | −20 56.2 | 2.072 | 3.014 | 8.6 | 21.6 |
| 8 19 | 19 21.09 | −21 19.9 | 2.147 | 3.014 | 11.8 | 21.8 |

**313318** 2002 $EY_{64}$ 7 17.0 162.°68 2.°0/17.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.32 | −15 9.4 | 1.630 | 2.468 | 16.5 | 21.5 |
| 6 20 | 20 10.39 | −15 12.1 | 1.556 | 2.472 | 12.9 | 21.3 |
| 6 30 | 20 2.87 | −15 25.5 | 1.502 | 2.475 | 8.8 | 21.0 |
| 7 10 | 19 53.46 | −15 47.8 | 1.471 | 2.478 | 4.3 | 20.8 |
| 7 20 | 19 43.15 | −16 16.2 | 1.467 | 2.480 | 2.3 | 20.7 |
| 7 30 | 19 33.17 | −16 47.2 | 1.489 | 2.482 | 6.3 | 20.9 |
| 8 9 | 19 24.70 | −17 17.7 | 1.536 | 2.484 | 10.6 | 21.2 |
| 8 19 | 19 18.59 | −17 45.5 | 1.606 | 2.485 | 14.4 | 21.4 |

**78003** 2002 $JV_{50}$ 7 17.0 359.°36 3.°3/16.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.54 | −25 29.8 | 1.068 | 1.958 | 19.5 | 19.1 |
| 6 20 | 20 7.31 | −26 4.6 | 1.007 | 1.954 | 15.1 | 18.8 |
| 6 30 | 20 1.53 | −26 44.3 | 0.964 | 1.952 | 10.0 | 18.5 |
| 7 10 | 19 53.06 | −27 22.2 | 0.941 | 1.951 | 4.9 | 18.2 |
| 7 20 | 19 43.30 | −27 51.4 | 0.940 | 1.952 | 4.1 | 18.2 |
| 7 30 | 19 34.08 | −28 6.6 | 0.961 | 1.953 | 9.0 | 18.5 |
| 8 9 | 19 27.08 | −28 6.4 | 1.002 | 1.956 | 14.1 | 18.8 |
| 8 19 | 19 23.40 | −27 52.6 | 1.062 | 1.960 | 18.6 | 19.0 |

**98249** 2000 $SH_{169}$ 7 17.0 213.°70 1.°0/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.77 | −18 39.8 | 1.707 | 2.547 | 15.7 | 20.2 |
| 6 20 | 20 11.53 | −18 33.0 | 1.623 | 2.542 | 12.3 | 19.9 |
| 6 30 | 20 3.65 | −18 32.6 | 1.560 | 2.536 | 8.2 | 19.7 |
| 7 10 | 19 53.81 | −18 36.8 | 1.521 | 2.530 | 3.7 | 19.4 |
| 7 20 | 19 42.99 | −18 42.9 | 1.508 | 2.523 | 1.6 | 19.2 |
| 7 30 | 19 32.43 | −18 48.9 | 1.523 | 2.516 | 6.2 | 19.5 |
| 8 9 | 19 23.34 | −18 53.2 | 1.562 | 2.508 | 10.6 | 19.7 |
| 8 19 | 19 16.62 | −18 55.1 | 1.625 | 2.500 | 14.5 | 20.0 |

**386485** 2009 $AZ_{29}$ 7 17.0 141.°04 0.°7/17.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.90 | −18 13.0 | 2.272 | 3.101 | 12.7 | 21.8 |
| 6 20 | 20 7.79 | −18 18.1 | 2.197 | 3.110 | 9.8 | 21.6 |
| 6 30 | 20 0.79 | −18 28.8 | 2.144 | 3.118 | 6.5 | 21.4 |
| 7 10 | 19 52.47 | −18 43.3 | 2.117 | 3.126 | 2.9 | 21.2 |
| 7 20 | 19 43.59 | −18 59.4 | 2.118 | 3.133 | 1.2 | 21.1 |
| 7 30 | 19 34.98 | −19 15.0 | 2.148 | 3.140 | 4.8 | 21.4 |
| 8 9 | 19 27.48 | −19 28.7 | 2.204 | 3.146 | 8.2 | 21.6 |
| 8 19 | 19 21.70 | −19 39.5 | 2.285 | 3.153 | 11.2 | 21.8 |

**248077** 2004 $PD_{83}$ 7 17.0 292.°03 7.°1/14.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.39 | −41 59.7 | 2.256 | 3.080 | 12.9 | 20.1 |
| 6 20 | 20 12.62 | −42 36.6 | 2.177 | 3.071 | 10.7 | 19.9 |
| 6 30 | 20 4.25 | −43 4.2 | 2.120 | 3.062 | 8.6 | 19.8 |
| 7 10 | 19 54.02 | −43 16.7 | 2.088 | 3.053 | 7.3 | 19.7 |
| 7 20 | 19 42.95 | −43 9.8 | 2.081 | 3.043 | 7.4 | 19.6 |
| 7 30 | 19 32.31 | −42 41.9 | 2.100 | 3.034 | 9.0 | 19.7 |
| 8 9 | 19 23.24 | −41 54.7 | 2.143 | 3.026 | 11.2 | 19.9 |
| 8 19 | 19 16.58 | −40 52.2 | 2.208 | 3.017 | 13.6 | 20.0 |

**445350** 2010 $MY_{110}$ 7 17.0 334.°38 0.°8/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.82 | −23 43.5 | 1.580 | 2.444 | 15.6 | 20.4 |
| 6 20 | 20 6.54 | −23 32.8 | 1.491 | 2.424 | 12.1 | 20.1 |
| 6 30 | 20 0.58 | −23 24.0 | 1.422 | 2.406 | 8.0 | 19.8 |
| 7 10 | 19 52.58 | −23 14.6 | 1.377 | 2.388 | 3.4 | 19.5 |
| 7 20 | 19 43.52 | −23 2.1 | 1.356 | 2.371 | 1.8 | 19.4 |
| 7 30 | 19 34.67 | −22 44.8 | 1.361 | 2.355 | 6.5 | 19.6 |
| 8 9 | 19 27.30 | −22 22.5 | 1.389 | 2.340 | 11.1 | 19.9 |
| 8 19 | 19 22.34 | −21 55.9 | 1.438 | 2.327 | 15.2 | 20.1 |

**295475** 2008 $QM_{18}$ 7 17.0 266.°23 5.°7/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.47 | −35 22.5 | 1.907 | 2.747 | 14.3 | 21.6 |
| 6 20 | 20 13.85 | −35 55.1 | 1.816 | 2.729 | 11.5 | 21.4 |
| 6 30 | 20 5.32 | −36 22.6 | 1.747 | 2.711 | 8.5 | 21.2 |
| 7 10 | 19 54.58 | −36 38.6 | 1.703 | 2.693 | 6.1 | 21.0 |
| 7 20 | 19 42.71 | −36 37.8 | 1.684 | 2.674 | 6.1 | 20.9 |
| 7 30 | 19 31.09 | −36 17.6 | 1.692 | 2.656 | 8.6 | 21.1 |
| 8 9 | 19 21.10 | −35 39.1 | 1.724 | 2.637 | 11.9 | 21.2 |
| 8 19 | 19 13.74 | −34 46.0 | 1.779 | 2.617 | 15.1 | 21.4 |

**436259** 2010 $CH_{4}$ 7 17.0 167.°07 3.°0/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.66 | −10 16.8 | 2.222 | 3.032 | 13.5 | 21.6 |
| 6 20 | 20 6.92 | −10 29.9 | 2.140 | 3.036 | 10.8 | 21.4 |
| 6 30 | 20 0.30 | −10 54.9 | 2.080 | 3.040 | 7.6 | 21.3 |
| 7 10 | 19 52.32 | −11 30.7 | 2.045 | 3.043 | 4.5 | 21.1 |
| 7 20 | 19 43.69 | −12 15.1 | 2.037 | 3.045 | 3.0 | 21.0 |
| 7 30 | 19 35.24 | −13 5.0 | 2.058 | 3.047 | 5.3 | 21.1 |
| 8 9 | 19 27.82 | −13 56.9 | 2.106 | 3.049 | 8.5 | 21.3 |
| 8 19 | 19 22.06 | −14 47.9 | 2.179 | 3.050 | 11.5 | 21.5 |

**395618** 2011 $UW_{383}$ 7 17.0 279.°49 5.°2/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.69 | −34 43.6 | 2.137 | 2.979 | 12.9 | 21.2 |
| 6 20 | 20 9.72 | −35 25.9 | 2.060 | 2.975 | 10.3 | 21.0 |
| 6 30 | 20 2.34 | −36 4.2 | 2.006 | 2.970 | 7.6 | 20.8 |
| 7 10 | 19 53.23 | −36 33.0 | 1.977 | 2.966 | 5.5 | 20.7 |
| 7 20 | 19 43.30 | −36 47.9 | 1.974 | 2.962 | 5.6 | 20.7 |
| 7 30 | 19 33.68 | −36 46.6 | 1.997 | 2.958 | 7.7 | 20.8 |
| 8 9 | 19 25.45 | −36 29.5 | 2.045 | 2.954 | 10.5 | 21.0 |
| 8 19 | 19 19.40 | −35 58.9 | 2.116 | 2.950 | 13.2 | 21.1 |

**161608** 2005 $UZ_{68}$ 7 17.0 114.°43 7.°9/21.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.47 | + 4 31.2 | 2.675 | 3.402 | 13.5 | 19.8 |
| 6 20 | 20 6.32 | + 5 36.7 | 2.606 | 3.418 | 11.8 | 19.7 |
| 6 30 | 19 59.67 | + 6 27.3 | 2.557 | 3.433 | 10.0 | 19.6 |
| 7 10 | 19 51.99 | + 7 0.6 | 2.533 | 3.448 | 8.6 | 19.5 |
| 7 20 | 19 43.86 | + 7 15.3 | 2.533 | 3.463 | 8.0 | 19.5 |
| 7 30 | 19 35.96 | + 7 11.8 | 2.560 | 3.477 | 8.4 | 19.5 |
| 8 9 | 19 28.94 | + 6 52.2 | 2.611 | 3.491 | 9.6 | 19.6 |
| 8 19 | 19 23.29 | + 6 19.8 | 2.686 | 3.505 | 11.1 | 19.8 |

**380629** 2004 $TO_{356}$ 7 17.0 217.°31 4.°5/14.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.24 | −31 48.6 | 2.310 | 3.146 | 12.3 | 21.3 |
| 6 20 | 20 10.84 | −32 51.8 | 2.224 | 3.137 | 9.7 | 21.2 |
| 6 30 | 20 3.10 | −33 54.7 | 2.161 | 3.128 | 6.9 | 21.0 |
| 7 10 | 19 53.59 | −34 51.3 | 2.124 | 3.118 | 4.8 | 20.8 |
| 7 20 | 19 43.14 | −35 36.7 | 2.116 | 3.107 | 5.0 | 20.8 |
| 7 30 | 19 32.80 | −36 7.0 | 2.135 | 3.096 | 7.3 | 20.9 |
| 8 9 | 19 23.63 | −36 21.3 | 2.180 | 3.085 | 10.1 | 21.1 |
| 8 19 | 19 16.48 | −36 20.9 | 2.248 | 3.072 | 12.8 | 21.3 |

**417301** 2006 $BM_{86}$ 7 17.0 48.°17 1.°6/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.19 | −12 31.1 | 1.463 | 2.309 | 17.6 | 20.2 |
| 6 20 | 20 7.29 | −13 29.2 | 1.410 | 2.330 | 13.7 | 20.0 |
| 6 30 | 20 0.84 | −14 44.2 | 1.376 | 2.351 | 9.2 | 19.8 |
| 7 10 | 19 52.60 | −16 11.4 | 1.366 | 2.373 | 4.4 | 19.5 |
| 7 20 | 19 43.60 | −17 44.1 | 1.381 | 2.395 | 1.9 | 19.4 |
| 7 30 | 19 35.09 | −19 15.0 | 1.422 | 2.418 | 6.2 | 19.8 |
| 8 9 | 19 28.18 | −20 38.0 | 1.489 | 2.441 | 10.5 | 20.1 |
| 8 19 | 19 23.65 | −21 49.4 | 1.578 | 2.464 | 14.3 | 20.4 |

**298244** 2002 $VB_{44}$ 7 17.0 139.°99 1.°8/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.58 | −15 33.6 | 2.779 | 3.589 | 11.1 | 21.0 |
| 6 20 | 20 7.88 | −15 15.8 | 2.702 | 3.603 | 8.7 | 20.8 |
| 6 30 | 20 0.64 | −15 3.1 | 2.650 | 3.615 | 5.9 | 20.7 |
| 7 10 | 19 52.38 | −14 54.8 | 2.624 | 3.627 | 3.1 | 20.5 |
| 7 20 | 19 43.70 | −14 49.9 | 2.628 | 3.639 | 1.9 | 20.4 |
| 7 30 | 19 35.30 | −14 47.7 | 2.661 | 3.650 | 4.2 | 20.6 |
| 8 9 | 19 27.81 | −14 47.2 | 2.723 | 3.660 | 7.0 | 20.8 |
| 8 19 | 19 21.76 | −14 47.5 | 2.811 | 3.670 | 9.5 | 21.0 |

**148561** 2001 $QO_{215}$ 7 17.0 273.°44 1.°1/16.5 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.67 | −22 58.9 | 2.083 | 2.928 | 13.1 | 20.6 |
| 6 20 | 20 7.29 | −23 20.4 | 1.995 | 2.918 | 10.1 | 20.4 |
| 6 30 | 20 0.73 | −23 45.8 | 1.929 | 2.908 | 6.6 | 20.1 |
| 7 10 | 19 52.57 | −24 12.0 | 1.888 | 2.897 | 2.9 | 19.9 |
| 7 20 | 19 43.58 | −24 35.7 | 1.874 | 2.887 | 1.8 | 19.8 |
| 7 30 | 19 34.77 | −24 54.0 | 1.887 | 2.877 | 5.6 | 20.0 |
| 8 9 | 19 27.09 | −25 5.4 | 1.927 | 2.867 | 9.3 | 20.2 |
| 8 19 | 19 21.32 | −25 9.7 | 1.989 | 2.856 | 12.6 | 20.4 |

**50557** 2000 $EN_{25}$ 7 17.0 243.°39 0.°9/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.26 | −22 6.7 | 1.866 | 2.708 | 14.5 | 20.0 |
| 6 20 | 20 10.37 | −22 28.2 | 1.773 | 2.695 | 11.2 | 19.8 |
| 6 30 | 20 2.94 | −22 54.9 | 1.703 | 2.681 | 7.4 | 19.5 |
| 7 10 | 19 53.57 | −23 23.5 | 1.657 | 2.667 | 3.2 | 19.2 |
| 7 20 | 19 43.16 | −23 50.0 | 1.638 | 2.652 | 1.8 | 19.1 |
| 7 30 | 19 32.86 | −24 10.9 | 1.646 | 2.637 | 6.1 | 19.4 |
| 8 9 | 19 23.87 | −24 24.5 | 1.680 | 2.621 | 10.3 | 19.6 |
| 8 19 | 19 17.08 | −24 30.4 | 1.737 | 2.605 | 14.1 | 19.8 |

**22748** 1998 $UW_{8}$ 7 17.0 355.°32 0.°7/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.77 | −22 5.0 | 2.101 | 2.947 | 12.9 | 18.7 |
| 6 20 | 20 5.69 | −22 18.9 | 2.022 | 2.945 | 10.0 | 18.5 |
| 6 30 | 19 59.60 | −22 36.7 | 1.965 | 2.944 | 6.5 | 18.3 |
| 7 10 | 19 52.05 | −22 55.8 | 1.933 | 2.943 | 2.7 | 18.1 |
| 7 20 | 19 43.84 | −23 13.5 | 1.928 | 2.943 | 1.4 | 18.0 |
| 7 30 | 19 35.86 | −23 27.3 | 1.951 | 2.942 | 5.2 | 18.2 |
| 8 9 | 19 29.03 | −23 35.9 | 1.999 | 2.942 | 8.8 | 18.4 |
| 8 19 | 19 24.01 | −23 38.9 | 2.071 | 2.942 | 12.0 | 18.6 |

**229645** 2006 $FH_{49}$ 7 17.0 136.°35 1.°8/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.55 | −12 17.4 | 1.965 | 2.789 | 14.5 | 20.2 |
| 6 20 | 20 7.13 | −13 2.2 | 1.886 | 2.794 | 11.4 | 20.0 |
| 6 30 | 20 0.59 | −14 0.9 | 1.830 | 2.799 | 7.8 | 19.8 |
| 7 10 | 19 52.50 | −15 10.6 | 1.799 | 2.804 | 3.9 | 19.6 |
| 7 20 | 19 43.64 | −16 26.9 | 1.795 | 2.808 | 2.0 | 19.4 |
| 7 30 | 19 34.97 | −17 44.9 | 1.819 | 2.813 | 5.3 | 19.7 |
| 8 9 | 19 27.45 | −18 59.7 | 1.871 | 2.817 | 9.1 | 19.9 |
| 8 19 | 19 21.82 | −20 7.9 | 1.946 | 2.820 | 12.5 | 20.1 |

**61565** 2000 $QB_{76}$ 7 17.0 343.°30 0.°4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.56 | −21 31.2 | 1.519 | 2.378 | 16.4 | 18.8 |
| 6 20 | 20 8.59 | −21 37.1 | 1.444 | 2.375 | 12.7 | 18.5 |
| 6 30 | 20 1.87 | −21 48.7 | 1.390 | 2.371 | 8.3 | 18.3 |
| 7 10 | 19 53.12 | −22 2.6 | 1.358 | 2.369 | 3.5 | 18.0 |
| 7 20 | 19 43.38 | −22 15.5 | 1.351 | 2.366 | 1.6 | 17.8 |
| 7 30 | 19 34.00 | −22 24.5 | 1.370 | 2.364 | 6.5 | 18.1 |
| 8 9 | 19 26.22 | −22 27.8 | 1.413 | 2.362 | 11.1 | 18.4 |
| 8 19 | 19 20.97 | −22 25.5 | 1.477 | 2.361 | 15.1 | 18.7 |

**110493** 2001 $TX_{63}$ 7 17.1 120°.58 6°.8/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.64 | −35 5.3 | 1.761 | 2.608 | 15.0 | 18.8 |
| 6 20 | 20 12.53 | −36 27.4 | 1.699 | 2.615 | 12.0 | 18.7 |
| 6 30 | 20 4.47 | −37 45.9 | 1.659 | 2.621 | 9.0 | 18.5 |
| 7 10 | 19 54.22 | −38 52.3 | 1.643 | 2.628 | 7.0 | 18.4 |
| 7 20 | 19 42.93 | −39 39.8 | 1.653 | 2.634 | 7.3 | 18.4 |
| 7 30 | 19 32.05 | −40 4.2 | 1.688 | 2.640 | 9.6 | 18.6 |
| 8 9 | 19 22.94 | −40 5.9 | 1.747 | 2.646 | 12.5 | 18.8 |
| 8 19 | 19 16.56 | −39 48.5 | 1.827 | 2.651 | 15.3 | 19.0 |

**439747** 2015 $FW_{300}$ 7 17.1 74°.36 0°.9/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.35 | −15 12.4 | 1.784 | 2.623 | 15.2 | 20.3 |
| 6 20 | 20 7.14 | −15 57.2 | 1.715 | 2.633 | 11.8 | 20.1 |
| 6 30 | 20 0.66 | −16 54.0 | 1.668 | 2.643 | 7.8 | 19.9 |
| 7 10 | 19 52.54 | −17 59.4 | 1.645 | 2.653 | 3.5 | 19.6 |
| 7 20 | 19 43.65 | −19 8.5 | 1.649 | 2.664 | 1.4 | 19.5 |
| 7 30 | 19 35.06 | −20 16.2 | 1.680 | 2.674 | 5.6 | 19.8 |
| 8 9 | 19 27.78 | −21 18.1 | 1.737 | 2.684 | 9.6 | 20.1 |
| 8 19 | 19 22.58 | −22 11.5 | 1.817 | 2.694 | 13.1 | 20.3 |

**463421** 2013 $JH_{6}$ 7 17.1 86°.89 4°.2/18.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.18 | −11 28.8 | 1.350 | 2.191 | 19.0 | 21.7 |
| 6 20 | 20 10.56 | −11 12.6 | 1.290 | 2.204 | 15.1 | 21.5 |
| 6 30 | 20 3.09 | −11 11.9 | 1.248 | 2.217 | 10.7 | 21.3 |
| 7 10 | 19 53.59 | −11 26.1 | 1.229 | 2.230 | 6.2 | 21.1 |
| 7 20 | 19 43.24 | −11 52.9 | 1.234 | 2.242 | 4.3 | 21.0 |
| 7 30 | 19 33.42 | −12 28.4 | 1.263 | 2.255 | 7.4 | 21.2 |
| 8 9 | 19 25.41 | −13 8.3 | 1.316 | 2.267 | 11.7 | 21.5 |
| 8 19 | 19 20.06 | −13 48.6 | 1.391 | 2.279 | 15.6 | 21.8 |

**98603** 2000 $WU_{69}$ 7 17.1 71°.30 1°.5/16.7 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.95 | −24 29.2 | 1.365 | 2.225 | 17.8 | 18.9 |
| 6 20 | 20 12.87 | −24 29.1 | 1.303 | 2.234 | 13.7 | 18.7 |
| 6 30 | 20 4.68 | −24 31.3 | 1.260 | 2.242 | 9.0 | 18.5 |
| 7 10 | 19 54.27 | −24 31.6 | 1.241 | 2.251 | 3.9 | 18.2 |
| 7 20 | 19 42.97 | −24 26.6 | 1.246 | 2.260 | 2.3 | 18.1 |
| 7 30 | 19 32.32 | −24 14.2 | 1.276 | 2.269 | 7.2 | 18.4 |
| 8 9 | 19 23.72 | −23 54.7 | 1.330 | 2.278 | 11.9 | 18.7 |
| 8 19 | 19 18.05 | −23 29.7 | 1.405 | 2.287 | 15.9 | 19.0 |

**44173** 1998 $KH_{13}$ 7 17.1 43°.78 3°.9/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.66 | −27 36.0 | 1.216 | 2.090 | 18.7 | 18.7 |
| 6 20 | 20 11.49 | −28 12.9 | 1.165 | 2.102 | 14.4 | 18.5 |
| 6 30 | 20 3.94 | −28 50.7 | 1.133 | 2.116 | 9.6 | 18.2 |
| 7 10 | 19 53.99 | −29 22.6 | 1.123 | 2.130 | 5.2 | 18.0 |
| 7 20 | 19 43.11 | −29 42.2 | 1.135 | 2.144 | 4.6 | 18.0 |
| 7 30 | 19 32.99 | −29 46.2 | 1.172 | 2.159 | 8.6 | 18.3 |
| 8 9 | 19 25.15 | −29 35.1 | 1.231 | 2.174 | 13.0 | 18.6 |
| 8 19 | 19 20.46 | −29 11.7 | 1.310 | 2.190 | 17.0 | 18.9 |

**501770** 2014 $UO_{201}$ 7 17.1 347°.80 2°.4/16.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.65 | −21 59.0 | 1.015 | 1.906 | 20.2 | 20.2 |
| 6 20 | 20 6.84 | −22 48.2 | 0.951 | 1.899 | 15.6 | 19.9 |
| 6 30 | 20 1.42 | −23 49.5 | 0.903 | 1.893 | 10.3 | 19.6 |
| 7 10 | 19 53.15 | −24 56.0 | 0.876 | 1.888 | 4.6 | 19.3 |
| 7 20 | 19 43.39 | −25 59.0 | 0.870 | 1.884 | 3.4 | 19.2 |
| 7 30 | 19 34.00 | −26 50.3 | 0.886 | 1.881 | 9.0 | 19.5 |
| 8 9 | 19 26.80 | −27 25.4 | 0.922 | 1.879 | 14.6 | 19.8 |
| 8 19 | 19 23.02 | −27 43.6 | 0.976 | 1.879 | 19.4 | 20.1 |

**338709** 2003 $UW_{56}$ 7 17.1 246°.42 1°.5/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.19 | −23 46.3 | 2.168 | 3.009 | 12.8 | 21.3 |
| 6 20 | 20 8.44 | −24 16.3 | 2.075 | 2.996 | 9.9 | 21.1 |
| 6 30 | 20 1.52 | −24 50.0 | 2.005 | 2.983 | 6.5 | 20.9 |
| 7 10 | 19 52.95 | −25 24.0 | 1.960 | 2.969 | 3.0 | 20.6 |
| 7 20 | 19 43.50 | −25 54.6 | 1.943 | 2.955 | 2.1 | 20.5 |
| 7 30 | 19 34.17 | −26 18.6 | 1.954 | 2.941 | 5.7 | 20.8 |
| 8 9 | 19 25.93 | −26 34.4 | 1.991 | 2.926 | 9.3 | 20.9 |
| 8 19 | 19 19.59 | −26 41.8 | 2.051 | 2.911 | 12.5 | 21.1 |

**422953** 2002 $VY_{137}$ 7 17.1 160°.01 6°.0/14.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.40 | −34 49.3 | 1.942 | 2.781 | 14.1 | 21.8 |
| 6 20 | 20 13.60 | −35 57.1 | 1.875 | 2.786 | 11.3 | 21.6 |
| 6 30 | 20 5.04 | −37 1.2 | 1.830 | 2.792 | 8.4 | 21.4 |
| 7 10 | 19 54.45 | −37 54.3 | 1.810 | 2.796 | 6.3 | 21.3 |
| 7 20 | 19 42.91 | −38 30.4 | 1.816 | 2.800 | 6.5 | 21.3 |
| 7 30 | 19 31.74 | −38 46.2 | 1.849 | 2.804 | 8.7 | 21.5 |
| 8 9 | 19 22.22 | −38 42.1 | 1.907 | 2.807 | 11.6 | 21.7 |
| 8 19 | 19 15.24 | −38 21.2 | 1.986 | 2.809 | 14.3 | 21.8 |

**8641** 1987 $BM_{1}$ 7 17.1 143°.81 2°.3/15.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.89 | −25 14.7 | 2.438 | 3.276 | 11.6 | 18.2 |
| 6 20 | 20 7.13 | −26 12.0 | 2.363 | 3.282 | 8.9 | 18.1 |
| 6 30 | 20 0.47 | −27 12.3 | 2.312 | 3.288 | 5.9 | 17.9 |
| 7 10 | 19 52.44 | −28 11.3 | 2.287 | 3.294 | 3.0 | 17.7 |
| 7 20 | 19 43.75 | −29 4.9 | 2.291 | 3.299 | 2.8 | 17.7 |
| 7 30 | 19 35.24 | −29 49.5 | 2.324 | 3.304 | 5.5 | 17.9 |
| 8 9 | 19 27.75 | −30 23.5 | 2.383 | 3.308 | 8.5 | 18.1 |
| 8 19 | 19 21.94 | −30 46.6 | 2.467 | 3.313 | 11.2 | 18.3 |

**231277** 2006 $BC_{13}$ 7 17.1 224°.63 0°.9/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.87 | −17 8.5 | 2.003 | 2.837 | 14.0 | 21.8 |
| 6 20 | 20 8.22 | −17 21.7 | 1.915 | 2.831 | 10.9 | 21.6 |
| 6 30 | 20 1.37 | −17 42.9 | 1.849 | 2.824 | 7.3 | 21.3 |
| 7 10 | 19 52.89 | −18 10.2 | 1.808 | 2.816 | 3.3 | 21.1 |
| 7 20 | 19 43.56 | −18 40.6 | 1.794 | 2.808 | 1.4 | 20.9 |
| 7 30 | 19 34.39 | −19 11.2 | 1.807 | 2.800 | 5.4 | 21.2 |
| 8 9 | 19 26.37 | −19 39.4 | 1.847 | 2.792 | 9.3 | 21.4 |
| 8 19 | 19 20.28 | −20 3.6 | 1.910 | 2.783 | 12.8 | 21.6 |

**287618** 2003 $HU_{12}$ 7 17.1 326°.25 4°.1/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.50 | −29 54.2 | 2.114 | 2.963 | 12.8 | 20.2 |
| 6 20 | 20 7.29 | −30 57.4 | 2.037 | 2.959 | 10.0 | 20.0 |
| 6 30 | 20 0.81 | −32 1.2 | 1.983 | 2.956 | 7.0 | 19.9 |
| 7 10 | 19 52.66 | −33 0.3 | 1.954 | 2.953 | 4.5 | 19.7 |
| 7 20 | 19 43.66 | −33 49.3 | 1.953 | 2.950 | 4.6 | 19.7 |
| 7 30 | 19 34.84 | −34 24.6 | 1.978 | 2.948 | 7.1 | 19.9 |
| 8 9 | 19 27.24 | −34 44.6 | 2.029 | 2.945 | 10.2 | 20.0 |
| 8 19 | 19 21.65 | −34 50.4 | 2.101 | 2.943 | 13.0 | 20.2 |

**307204** 2002 $FC_{16}$ 7 17.1 88°.68 4°.1/14.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.31 | −31 36.5 | 2.333 | 3.173 | 12.0 | 21.1 |
| 6 20 | 20 8.30 | −32 31.7 | 2.271 | 3.188 | 9.4 | 20.9 |
| 6 30 | 20 1.24 | −33 24.8 | 2.234 | 3.203 | 6.6 | 20.8 |
| 7 10 | 19 52.75 | −34 11.2 | 2.222 | 3.218 | 4.4 | 20.7 |
| 7 20 | 19 43.65 | −34 46.6 | 2.238 | 3.232 | 4.5 | 20.7 |
| 7 30 | 19 34.88 | −35 8.5 | 2.281 | 3.247 | 6.6 | 20.8 |
| 8 9 | 19 27.34 | −35 16.5 | 2.351 | 3.261 | 9.2 | 21.0 |
| 8 19 | 19 21.69 | −35 12.1 | 2.443 | 3.275 | 11.7 | 21.2 |

**308610** 2005 $WK_{53}$ 7 17.1 206°.43 14°.9/ 7.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 25.50 | −41 17.3 | 1.144 | 2.003 | 20.6 | 19.7 |
| 6 20 | 20 21.66 | −44 57.0 | 1.092 | 2.001 | 17.7 | 19.5 |
| 6 30 | 20 12.50 | −48 33.0 | 1.061 | 1.999 | 15.5 | 19.4 |
| 7 10 | 19 58.40 | −51 42.6 | 1.052 | 1.996 | 15.0 | 19.3 |
| 7 20 | 19 41.05 | −54 5.2 | 1.065 | 1.993 | 16.4 | 19.4 |
| 7 30 | 19 23.50 | −55 29.6 | 1.099 | 1.989 | 19.0 | 19.6 |
| 8 9 | 19 9.14 | −55 58.7 | 1.149 | 1.985 | 21.9 | 19.7 |
| 8 19 | 19 0.25 | −55 44.0 | 1.213 | 1.981 | 24.5 | 19.9 |

**99066** 2001 $FB_{5}$ 7 17.1 21°.18 5°.3/15.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.89 | −32 1.9 | 1.436 | 2.302 | 16.7 | 18.8 |
| 6 20 | 20 9.87 | −32 37.8 | 1.378 | 2.309 | 13.1 | 18.6 |
| 6 30 | 20 2.78 | −33 10.0 | 1.340 | 2.317 | 9.2 | 18.4 |
| 7 10 | 19 53.51 | −33 32.1 | 1.325 | 2.325 | 6.0 | 18.2 |
| 7 20 | 19 43.35 | −33 38.7 | 1.334 | 2.334 | 5.8 | 18.2 |
| 7 30 | 19 33.83 | −33 27.4 | 1.367 | 2.344 | 8.8 | 18.4 |
| 8 9 | 19 26.30 | −32 59.6 | 1.422 | 2.355 | 12.5 | 18.7 |
| 8 19 | 19 21.63 | −32 18.8 | 1.499 | 2.366 | 15.9 | 18.9 |

**384486** 2010 $CP_{59}$ 7 17.1 159°.63 3°.1/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.08 | −30 6.6 | 1.932 | 2.773 | 14.1 | 20.5 |
| 6 20 | 20 13.03 | −30 7.5 | 1.856 | 2.775 | 11.0 | 20.3 |
| 6 30 | 20 4.47 | −30 5.1 | 1.803 | 2.777 | 7.5 | 20.1 |
| 7 10 | 19 54.15 | −29 55.3 | 1.774 | 2.778 | 4.1 | 19.9 |
| 7 20 | 19 43.10 | −29 35.4 | 1.772 | 2.780 | 3.5 | 19.9 |
| 7 30 | 19 32.54 | −29 4.4 | 1.799 | 2.781 | 6.6 | 20.1 |
| 8 9 | 19 23.57 | −28 23.9 | 1.851 | 2.782 | 10.1 | 20.3 |
| 8 19 | 19 16.96 | −27 36.4 | 1.926 | 2.783 | 13.4 | 20.5 |

**386107** 2007 $RF_{117}$ 7 17.1 249°.18 2°.5/16.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.39 | −27 6.4 | 1.986 | 2.832 | 13.6 | 21.1 |
| 6 20 | 20 9.49 | −27 26.8 | 1.905 | 2.827 | 10.5 | 20.9 |
| 6 30 | 20 2.23 | −27 47.7 | 1.845 | 2.822 | 7.0 | 20.7 |
| 7 10 | 19 53.26 | −28 5.2 | 1.810 | 2.817 | 3.6 | 20.5 |
| 7 20 | 19 43.45 | −28 15.6 | 1.803 | 2.812 | 3.0 | 20.4 |
| 7 30 | 19 33.93 | −28 16.7 | 1.822 | 2.807 | 6.3 | 20.6 |
| 8 9 | 19 25.74 | −28 8.0 | 1.867 | 2.801 | 9.9 | 20.8 |
| 8 19 | 19 19.69 | −27 50.7 | 1.935 | 2.796 | 13.1 | 21.0 |

**254203** 2004 $RL_{72}$ 7 17.1 293°.56 0°.5/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.53 | −18 26.8 | 2.220 | 3.057 | 12.7 | 21.0 |
| 6 20 | 20 5.54 | −18 37.6 | 2.121 | 3.039 | 9.8 | 20.8 |
| 6 30 | 19 59.58 | −18 54.9 | 2.045 | 3.022 | 6.5 | 20.6 |
| 7 10 | 19 52.14 | −19 16.7 | 1.995 | 3.004 | 2.9 | 20.3 |
| 7 20 | 19 43.90 | −19 40.7 | 1.971 | 2.986 | 1.2 | 20.1 |
| 7 30 | 19 35.74 | −20 4.4 | 1.975 | 2.969 | 5.0 | 20.4 |
| 8 9 | 19 28.54 | −20 25.7 | 2.006 | 2.951 | 8.6 | 20.6 |
| 8 19 | 19 23.02 | −20 43.3 | 2.060 | 2.934 | 11.9 | 20.7 |

**479272** 2013 $FT_{19}$ 7 17.1 167°.66 3°.5/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.01 | −31 19.0 | 2.717 | 3.551 | 10.7 | 22.0 |
| 6 20 | 20 7.87 | −32 4.0 | 2.641 | 3.554 | 8.3 | 21.8 |
| 6 30 | 20 0.90 | −32 47.5 | 2.589 | 3.557 | 5.9 | 21.7 |
| 7 10 | 19 52.63 | −33 25.5 | 2.563 | 3.560 | 3.8 | 21.6 |
| 7 20 | 19 43.75 | −33 54.5 | 2.566 | 3.562 | 3.9 | 21.6 |
| 7 30 | 19 35.08 | −34 12.5 | 2.597 | 3.564 | 5.9 | 21.7 |
| 8 9 | 19 27.41 | −34 18.7 | 2.655 | 3.565 | 8.3 | 21.9 |
| 8 19 | 19 21.38 | −34 14.2 | 2.737 | 3.566 | 10.6 | 22.0 |

**351138** 2003 $WX_{152}$ 7 17.1 265°.25 9°.4/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.16 | +10 7.2 | 2.513 | 3.209 | 15.0 | 21.0 |
| 6 20 | 20 6.61 | +10 24.2 | 2.396 | 3.181 | 13.4 | 20.8 |
| 6 30 | 20 0.24 | +10 20.4 | 2.298 | 3.152 | 11.8 | 20.6 |
| 7 10 | 19 52.44 | + 9 52.6 | 2.222 | 3.123 | 10.3 | 20.5 |
| 7 20 | 19 43.79 | + 8 59.3 | 2.169 | 3.092 | 9.4 | 20.4 |
| 7 30 | 19 35.04 | + 7 41.2 | 2.143 | 3.062 | 9.7 | 20.3 |
| 8 9 | 19 27.01 | + 6 2.2 | 2.142 | 3.030 | 11.0 | 20.3 |
| 8 19 | 19 20.40 | + 4 8.0 | 2.165 | 2.998 | 13.0 | 20.4 |

**321384** 2009 $PN_{2}$ 7 17.1 4°.73 1°.2/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.71 | −24 21.4 | 0.982 | 1.877 | 20.3 | 19.0 |
| 6 20 | 20 6.75 | −24 6.4 | 0.926 | 1.876 | 15.8 | 18.8 |
| 6 30 | 20 1.18 | −23 54.0 | 0.886 | 1.876 | 10.4 | 18.5 |
| 7 10 | 19 52.97 | −23 40.6 | 0.867 | 1.878 | 4.5 | 18.1 |
| 7 20 | 19 43.62 | −23 23.1 | 0.868 | 1.883 | 2.3 | 18.0 |
| 7 30 | 19 34.97 | −22 59.8 | 0.890 | 1.889 | 8.2 | 18.4 |
| 8 9 | 19 28.64 | −22 31.1 | 0.933 | 1.896 | 13.7 | 18.7 |
| 8 19 | 19 25.62 | −21 58.5 | 0.994 | 1.906 | 18.4 | 19.0 |

**139035** 2001 $DF_{105}$ 7 17.1 343°.44 2°.5/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.68 | −11 48.4 | 2.092 | 2.920 | 13.7 | 19.4 |
| 6 20 | 20 4.09 | −12 6.7 | 2.008 | 2.916 | 10.8 | 19.2 |
| 6 30 | 19 58.60 | −12 37.1 | 1.946 | 2.913 | 7.6 | 19.0 |
| 7 10 | 19 51.71 | −13 18.2 | 1.908 | 2.910 | 4.2 | 18.8 |
| 7 20 | 19 44.13 | −14 7.3 | 1.896 | 2.907 | 2.6 | 18.7 |
| 7 30 | 19 36.69 | −15 1.1 | 1.912 | 2.904 | 5.2 | 18.9 |
| 8 9 | 19 30.26 | −15 55.9 | 1.954 | 2.902 | 8.6 | 19.1 |
| 8 19 | 19 25.51 | −16 48.5 | 2.020 | 2.900 | 11.8 | 19.3 |

**134097** 2004 $XC_{123}$ 7 17.1 194°.26 5°.8/13.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.33 | −32 32.3 | 1.911 | 2.759 | 14.0 | 20.0 |
| 6 20 | 20 10.63 | −34 1.6 | 1.839 | 2.758 | 11.1 | 19.8 |
| 6 30 | 20 3.23 | −35 30.8 | 1.791 | 2.757 | 8.1 | 19.6 |
| 7 10 | 19 53.78 | −36 52.0 | 1.767 | 2.757 | 6.0 | 19.5 |
| 7 20 | 19 43.25 | −37 58.1 | 1.770 | 2.756 | 6.4 | 19.5 |
| 7 30 | 19 32.91 | −38 44.2 | 1.799 | 2.754 | 8.8 | 19.7 |
| 8 9 | 19 24.02 | −39 9.1 | 1.852 | 2.753 | 11.8 | 19.9 |
| 8 19 | 19 17.55 | −39 14.6 | 1.927 | 2.752 | 14.6 | 20.0 |

**217976** 2001 $VR_{44}$ 7 17.1 277°.51 0°.5/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.73 | −18 40.2 | 1.723 | 2.569 | 15.3 | 19.5 |
| 6 20 | 20 8.61 | −18 51.7 | 1.630 | 2.553 | 12.0 | 19.2 |
| 6 30 | 20 1.92 | −19 11.3 | 1.559 | 2.537 | 8.0 | 18.9 |
| 7 10 | 19 53.25 | −19 36.7 | 1.511 | 2.521 | 3.5 | 18.6 |
| 7 20 | 19 43.48 | −20 4.5 | 1.489 | 2.504 | 1.4 | 18.4 |
| 7 30 | 19 33.81 | −20 31.4 | 1.494 | 2.488 | 6.1 | 18.7 |
| 8 9 | 19 25.43 | −20 54.5 | 1.523 | 2.471 | 10.6 | 19.0 |
| 8 19 | 19 19.31 | −21 12.5 | 1.575 | 2.455 | 14.6 | 19.2 |

**522730** 2016 $LD_{63}$ 7 17.1 133°.11 4°.2/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.79 | − 9 59.2 | 2.063 | 2.873 | 14.5 | 21.9 |
| 6 20 | 20 8.61 | − 9 30.1 | 1.989 | 2.883 | 11.6 | 21.7 |
| 6 30 | 20 1.43 | − 9 11.7 | 1.937 | 2.892 | 8.4 | 21.5 |
| 7 10 | 19 52.87 | − 9 4.2 | 1.910 | 2.901 | 5.4 | 21.4 |
| 7 20 | 19 43.70 | − 9 7.0 | 1.909 | 2.910 | 4.2 | 21.3 |
| 7 30 | 19 34.84 | − 9 18.8 | 1.935 | 2.919 | 6.1 | 21.4 |
| 8 9 | 19 27.16 | − 9 37.3 | 1.988 | 2.926 | 9.1 | 21.6 |
| 8 19 | 19 21.30 | − 9 59.9 | 2.065 | 2.934 | 12.1 | 21.8 |

**102813** 1999 $VE_{177}$ 7 17.1 278°.32 3°.1/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.63 | −12 12.5 | 1.537 | 2.377 | 17.1 | 19.5 |
| 6 20 | 20 7.94 | −12 21.4 | 1.450 | 2.366 | 13.7 | 19.3 |
| 6 30 | 20 1.58 | −12 45.7 | 1.383 | 2.354 | 9.6 | 19.0 |
| 7 10 | 19 53.13 | −13 24.2 | 1.339 | 2.342 | 5.3 | 18.7 |
| 7 20 | 19 43.54 | −14 14.0 | 1.319 | 2.331 | 3.2 | 18.6 |
| 7 30 | 19 34.04 | −15 10.6 | 1.325 | 2.319 | 6.8 | 18.7 |
| 8 9 | 19 25.93 | −16 9.0 | 1.355 | 2.307 | 11.3 | 19.0 |
| 8 19 | 19 20.20 | −17 4.7 | 1.407 | 2.296 | 15.5 | 19.2 |

**446732** 2015 $OP_{74}$ 7 17.1 342°.64 0°.9/16.8 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 3.63 | −21 49.5 | 1.313 | 2.195 | 17.0 | 20.4 |
| 6 20 | 20 2.32 | −22 3.9 | 1.227 | 2.171 | 13.3 | 20.1 |
| 6 30 | 19 58.17 | −22 25.7 | 1.160 | 2.147 | 8.8 | 19.8 |
| 7 10 | 19 51.76 | −22 51.7 | 1.114 | 2.125 | 3.8 | 19.4 |
| 7 20 | 19 44.09 | −23 17.7 | 1.091 | 2.106 | 2.0 | 19.2 |
| 7 30 | 19 36.55 | −23 39.2 | 1.091 | 2.088 | 7.3 | 19.5 |
| 8 9 | 19 30.56 | −23 53.2 | 1.112 | 2.072 | 12.4 | 19.8 |
| 8 19 | 19 27.22 | −23 58.4 | 1.154 | 2.058 | 17.0 | 20.0 |

**222504** 2001 $TQ_{11}$ 7 17.1 229°.80 3°.6/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.84 | −10 55.3 | 1.955 | 2.773 | 14.8 | 21.4 |
| 6 20 | 20 8.22 | −10 43.9 | 1.864 | 2.765 | 11.9 | 21.2 |
| 6 30 | 20 1.41 | −10 44.0 | 1.795 | 2.756 | 8.5 | 21.0 |
| 7 10 | 19 52.95 | −10 55.6 | 1.749 | 2.746 | 5.2 | 20.7 |
| 7 20 | 19 43.64 | −11 17.2 | 1.730 | 2.736 | 3.7 | 20.6 |
| 7 30 | 19 34.45 | −11 46.7 | 1.738 | 2.726 | 6.1 | 20.8 |
| 8 9 | 19 26.38 | −12 21.0 | 1.772 | 2.715 | 9.7 | 20.9 |
| 8 19 | 19 20.22 | −12 57.3 | 1.829 | 2.704 | 13.1 | 21.1 |

**493605** 2015 $ME_{114}$ 7 17.1 312°.81 4°.9/18.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.28 | − 8 35.8 | 1.990 | 2.806 | 14.7 | 21.4 |
| 6 20 | 20 5.41 | − 8 4.2 | 1.902 | 2.797 | 12.0 | 21.2 |
| 6 30 | 19 59.52 | − 7 44.3 | 1.834 | 2.788 | 8.9 | 20.9 |
| 7 10 | 19 52.13 | − 7 37.0 | 1.790 | 2.779 | 6.1 | 20.8 |
| 7 20 | 19 43.99 | − 7 42.3 | 1.772 | 2.770 | 4.9 | 20.7 |
| 7 30 | 19 36.00 | − 7 58.9 | 1.780 | 2.762 | 6.6 | 20.8 |
| 8 9 | 19 29.06 | − 8 24.2 | 1.813 | 2.754 | 9.7 | 20.9 |
| 8 19 | 19 23.89 | − 8 55.3 | 1.869 | 2.746 | 12.8 | 21.1 |

**68903** 2002 $JG_{101}$ 7 17.1 16°.89 5°.2/20.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.62 | − 1 52.5 | 2.223 | 3.007 | 14.3 | 19.5 |
| 6 20 | 20 3.88 | − 2 16.4 | 2.139 | 3.008 | 11.9 | 19.4 |
| 6 30 | 19 58.38 | − 2 58.8 | 2.076 | 3.010 | 9.2 | 19.2 |
| 7 10 | 19 51.61 | − 3 59.2 | 2.037 | 3.013 | 6.6 | 19.0 |
| 7 20 | 19 44.22 | − 5 15.6 | 2.024 | 3.015 | 5.3 | 19.0 |
| 7 30 | 19 36.97 | − 6 44.0 | 2.039 | 3.018 | 6.3 | 19.0 |
| 8 9 | 19 30.65 | − 8 19.1 | 2.081 | 3.020 | 8.7 | 19.2 |
| 8 19 | 19 25.87 | − 9 55.5 | 2.148 | 3.024 | 11.4 | 19.4 |

**288421** 2004 $DH_{70}$ 7 17.1 235°.43 0°.9/16.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.82 | −21 50.3 | 1.819 | 2.662 | 14.8 | 22.8 |
| 6 20 | 20 10.87 | −22 11.3 | 1.729 | 2.651 | 11.5 | 22.5 |
| 6 30 | 20 3.34 | −22 37.9 | 1.661 | 2.639 | 7.6 | 22.3 |
| 7 10 | 19 53.83 | −23 6.5 | 1.617 | 2.627 | 3.2 | 22.0 |
| 7 20 | 19 43.28 | −23 33.2 | 1.600 | 2.614 | 1.7 | 21.8 |
| 7 30 | 19 32.87 | −23 54.5 | 1.610 | 2.601 | 6.2 | 22.1 |
| 8 9 | 19 23.81 | −24 8.5 | 1.646 | 2.587 | 10.5 | 22.3 |
| 8 19 | 19 17.01 | −24 14.9 | 1.705 | 2.573 | 14.2 | 22.5 |

**282893** 2007 $GQ_{18}$ 7 17.1 18°.77 1°.4/17.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.13 | −17 43.7 | 1.297 | 2.164 | 18.1 | 20.2 |
| 6 20 | 20 6.93 | −17 38.8 | 1.237 | 2.170 | 14.1 | 19.9 |
| 6 30 | 20 0.87 | −17 43.8 | 1.196 | 2.177 | 9.4 | 19.7 |
| 7 10 | 19 52.77 | −17 56.5 | 1.176 | 2.185 | 4.3 | 19.4 |
| 7 20 | 19 43.77 | −18 13.8 | 1.180 | 2.194 | 1.9 | 19.3 |
| 7 30 | 19 35.28 | −18 32.4 | 1.207 | 2.204 | 6.7 | 19.6 |
| 8 9 | 19 28.58 | −18 49.5 | 1.258 | 2.215 | 11.5 | 19.9 |
| 8 19 | 19 24.52 | −19 3.2 | 1.329 | 2.227 | 15.6 | 20.2 |

**160349** 2003 $UA_{28}$ 7 17.1 301°.57 4°.2/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.07 | −29 42.2 | 1.789 | 2.642 | 14.5 | 19.7 |
| 6 20 | 20 9.64 | −30 26.4 | 1.712 | 2.637 | 11.3 | 19.5 |
| 6 30 | 20 2.55 | −31 10.5 | 1.657 | 2.632 | 7.8 | 19.3 |
| 7 10 | 19 53.49 | −31 49.0 | 1.625 | 2.627 | 4.8 | 19.1 |
| 7 20 | 19 43.45 | −32 16.5 | 1.620 | 2.623 | 4.6 | 19.0 |
| 7 30 | 19 33.70 | −32 29.6 | 1.641 | 2.618 | 7.6 | 19.2 |
| 8 9 | 19 25.46 | −32 27.5 | 1.686 | 2.613 | 11.2 | 19.4 |
| 8 19 | 19 19.63 | −32 12.2 | 1.753 | 2.609 | 14.5 | 19.6 |

**163383** 2002 $PP_{118}$ 7 17.1 272°.25 3°.4/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.57 | −11 24.4 | 1.952 | 2.777 | 14.6 | 20.2 |
| 6 20 | 20 6.44 | −11 14.5 | 1.867 | 2.772 | 11.7 | 20.0 |
| 6 30 | 20 0.21 | −11 15.8 | 1.803 | 2.767 | 8.3 | 19.8 |
| 7 10 | 19 52.44 | −11 28.1 | 1.763 | 2.762 | 5.0 | 19.6 |
| 7 20 | 19 43.90 | −11 50.1 | 1.749 | 2.757 | 3.5 | 19.5 |
| 7 30 | 19 35.53 | −12 19.2 | 1.762 | 2.752 | 5.9 | 19.6 |
| 8 9 | 19 28.28 | −12 52.7 | 1.801 | 2.747 | 9.4 | 19.8 |
| 8 19 | 19 22.89 | −13 27.6 | 1.863 | 2.741 | 12.7 | 20.0 |

**328138** 2008 $BX_{35}$ 7 17.1 192°.27 0°.7/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.87 | −21 3.9 | 1.847 | 2.688 | 14.7 | 21.8 |
| 6 20 | 20 10.75 | −21 30.8 | 1.766 | 2.687 | 11.3 | 21.6 |
| 6 30 | 20 3.15 | −22 3.8 | 1.707 | 2.685 | 7.4 | 21.3 |
| 7 10 | 19 53.72 | −22 39.4 | 1.673 | 2.683 | 3.1 | 21.1 |
| 7 20 | 19 43.37 | −23 13.5 | 1.665 | 2.680 | 1.6 | 21.0 |
| 7 30 | 19 33.27 | −23 42.4 | 1.685 | 2.676 | 6.0 | 21.2 |
| 8 9 | 19 24.53 | −24 4.0 | 1.732 | 2.673 | 10.1 | 21.5 |
| 8 19 | 19 18.01 | −24 17.8 | 1.801 | 2.668 | 13.7 | 21.7 |

**154138** 2002 $EZ_{122}$ 7 17.1 350°.20 0°.9/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.31 | −23 9.2 | 1.865 | 2.718 | 14.0 | 19.4 |
| 6 20 | 20 6.42 | −23 16.2 | 1.786 | 2.713 | 10.8 | 19.2 |
| 6 30 | 20 0.27 | −23 26.3 | 1.729 | 2.709 | 7.1 | 19.0 |
| 7 10 | 19 52.47 | −23 36.8 | 1.696 | 2.706 | 3.0 | 18.7 |
| 7 20 | 19 43.90 | −23 44.9 | 1.689 | 2.703 | 1.7 | 18.6 |
| 7 30 | 19 35.62 | −23 48.3 | 1.709 | 2.701 | 5.7 | 18.9 |
| 8 9 | 19 28.63 | −23 46.0 | 1.754 | 2.699 | 9.6 | 19.1 |
| 8 19 | 19 23.69 | −23 38.1 | 1.821 | 2.698 | 13.1 | 19.3 |

**412472** 2014 $HE_{52}$ 7 17.1 8°.38 5°.1/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.55 | −32 14.1 | 1.870 | 2.724 | 14.0 | 20.3 |
| 6 20 | 20 8.38 | −33 12.4 | 1.801 | 2.724 | 11.0 | 20.1 |
| 6 30 | 20 1.67 | −34 8.8 | 1.754 | 2.725 | 7.9 | 20.0 |
| 7 10 | 19 53.10 | −34 57.4 | 1.732 | 2.727 | 5.5 | 19.8 |
| 7 20 | 19 43.64 | −35 32.5 | 1.735 | 2.728 | 5.6 | 19.8 |
| 7 30 | 19 34.51 | −35 50.8 | 1.764 | 2.731 | 8.1 | 20.0 |
| 8 9 | 19 26.86 | −35 51.9 | 1.817 | 2.733 | 11.2 | 20.2 |
| 8 19 | 19 21.53 | −35 37.8 | 1.891 | 2.736 | 14.1 | 20.4 |

**11008** Ernst 7 17.1 256°.13 7°.8/20.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.50 | − 0 46.2 | 1.938 | 2.720 | 16.2 | 18.0 |
| 6 20 | 20 6.44 | − 0 6.6 | 1.848 | 2.711 | 13.8 | 17.8 |
| 6 30 | 20 0.26 | + 0 15.7 | 1.778 | 2.701 | 11.2 | 17.6 |
| 7 10 | 19 52.50 | + 0 18.2 | 1.730 | 2.691 | 8.9 | 17.4 |
| 7 20 | 19 43.90 | − 0 0.0 | 1.707 | 2.680 | 7.8 | 17.4 |
| 7 30 | 19 35.39 | − 0 37.8 | 1.708 | 2.670 | 8.7 | 17.4 |
| 8 9 | 19 27.94 | − 1 31.4 | 1.734 | 2.659 | 11.1 | 17.5 |
| 8 19 | 19 22.31 | − 2 35.7 | 1.783 | 2.648 | 13.9 | 17.7 |

**74152** 1998 $QH_{90}$ 7 17.1 301°.71 2°.5/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.63 | −17 7.6 | 1.752 | 2.592 | 15.4 | 19.0 |
| 6 20 | 20 9.21 | −16 27.3 | 1.654 | 2.572 | 12.2 | 18.8 |
| 6 30 | 20 2.28 | −15 51.7 | 1.578 | 2.551 | 8.4 | 18.5 |
| 7 10 | 19 53.42 | −15 20.5 | 1.526 | 2.531 | 4.4 | 18.2 |
| 7 20 | 19 43.52 | −14 53.8 | 1.499 | 2.511 | 2.7 | 18.1 |
| 7 30 | 19 33.73 | −14 31.2 | 1.499 | 2.491 | 6.4 | 18.3 |
| 8 9 | 19 25.23 | −14 12.4 | 1.524 | 2.472 | 10.7 | 18.5 |
| 8 19 | 19 18.92 | −13 56.9 | 1.572 | 2.453 | 14.6 | 18.6 |

**256867** 2008 $DP_3$ 7 17.1 214°.81 0°.1/17.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.82 | −19 44.9 | 1.822 | 2.661 | 14.9 | 22.2 |
| 6 20 | 20 10.78 | −19 58.6 | 1.736 | 2.655 | 11.6 | 21.9 |
| 6 30 | 20 3.22 | −20 19.0 | 1.671 | 2.648 | 7.7 | 21.7 |
| 7 10 | 19 53.78 | −20 43.1 | 1.632 | 2.641 | 3.3 | 21.4 |
| 7 20 | 19 43.38 | −21 7.7 | 1.619 | 2.634 | 1.3 | 21.2 |
| 7 30 | 19 33.18 | −21 29.4 | 1.633 | 2.626 | 5.9 | 21.5 |
| 8 9 | 19 24.33 | −21 46.4 | 1.673 | 2.617 | 10.2 | 21.8 |
| 8 19 | 19 17.71 | −21 57.7 | 1.737 | 2.608 | 13.9 | 22.0 |

**163968** 2003 $UV_{99}$ 7 17.1 305°.98 1°.0/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.66 | −16 19.5 | 1.828 | 2.670 | 14.8 | 20.0 |
| 6 20 | 20 6.73 | −16 41.4 | 1.746 | 2.666 | 11.5 | 19.7 |
| 6 30 | 20 0.52 | −17 13.5 | 1.686 | 2.662 | 7.7 | 19.5 |
| 7 10 | 19 52.62 | −17 53.3 | 1.649 | 2.658 | 3.5 | 19.2 |
| 7 20 | 19 43.87 | −18 37.4 | 1.639 | 2.654 | 1.5 | 19.1 |
| 7 30 | 19 35.30 | −19 21.8 | 1.656 | 2.650 | 5.6 | 19.4 |
| 8 9 | 19 27.96 | −20 3.3 | 1.698 | 2.647 | 9.7 | 19.6 |
| 8 19 | 19 22.64 | −20 39.4 | 1.764 | 2.643 | 13.3 | 19.8 |

**54685** 2001 $CT_{33}$ 7 17.1 233°.37 5°.2/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.53 | −32 10.7 | 2.078 | 2.921 | 13.2 | 19.0 |
| 6 20 | 20 10.65 | −33 27.2 | 1.995 | 2.912 | 10.4 | 18.8 |
| 6 30 | 20 3.22 | −34 43.8 | 1.936 | 2.903 | 7.6 | 18.6 |
| 7 10 | 19 53.82 | −35 53.9 | 1.902 | 2.893 | 5.5 | 18.4 |
| 7 20 | 19 43.35 | −36 51.0 | 1.895 | 2.884 | 5.7 | 18.4 |
| 7 30 | 19 32.98 | −37 30.7 | 1.915 | 2.874 | 8.2 | 18.6 |
| 8 9 | 19 23.90 | −37 51.6 | 1.960 | 2.863 | 11.1 | 18.7 |
| 8 19 | 19 17.05 | −37 55.1 | 2.027 | 2.852 | 14.0 | 18.9 |

**295272** 2008 $GZ_{73}$ 7 17.1 41°.49 3°.6/19.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.33 | − 8 55.1 | 2.162 | 2.976 | 13.7 | 20.7 |
| 6 20 | 20 4.46 | − 8 58.7 | 2.084 | 2.980 | 11.0 | 20.6 |
| 6 30 | 19 58.77 | − 9 14.9 | 2.028 | 2.985 | 8.0 | 20.4 |
| 7 10 | 19 51.80 | − 9 43.3 | 1.995 | 2.989 | 5.0 | 20.2 |
| 7 20 | 19 44.23 | −10 21.9 | 1.989 | 2.994 | 3.7 | 20.1 |
| 7 30 | 19 36.86 | −11 8.1 | 2.011 | 2.998 | 5.5 | 20.2 |
| 8 9 | 19 30.48 | −11 58.3 | 2.059 | 3.003 | 8.5 | 20.4 |
| 8 19 | 19 25.72 | −12 49.2 | 2.130 | 3.008 | 11.4 | 20.6 |

**308686** 2006 $DS_{103}$ 7 17.1 218°.94 0°.7/16.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.23 | −21 5.5 | 1.481 | 2.335 | 17.0 | 21.4 |
| 6 20 | 20 11.64 | −21 27.1 | 1.404 | 2.332 | 13.2 | 21.1 |
| 6 30 | 20 4.06 | −21 56.2 | 1.347 | 2.328 | 8.7 | 20.9 |
| 7 10 | 19 54.22 | −22 28.6 | 1.313 | 2.324 | 3.7 | 20.6 |
| 7 20 | 19 43.24 | −22 59.7 | 1.304 | 2.319 | 1.8 | 20.4 |
| 7 30 | 19 32.54 | −23 25.0 | 1.321 | 2.314 | 6.9 | 20.7 |
| 8 9 | 19 23.55 | −23 42.3 | 1.362 | 2.309 | 11.7 | 21.0 |
| 8 19 | 19 17.26 | −23 51.3 | 1.425 | 2.304 | 15.9 | 21.2 |

**281450** 2008 $SS_{105}$ 7 17.1 356°.42 2°.2/16.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.28 | −24 26.7 | 1.565 | 2.427 | 15.9 | 20.6 |
| 6 20 | 20 8.43 | −24 58.7 | 1.493 | 2.425 | 12.2 | 20.3 |
| 6 30 | 20 1.85 | −25 35.1 | 1.442 | 2.424 | 8.1 | 20.1 |
| 7 10 | 19 53.24 | −26 11.0 | 1.414 | 2.423 | 3.8 | 19.8 |
| 7 20 | 19 43.66 | −26 41.4 | 1.411 | 2.423 | 2.9 | 19.8 |
| 7 30 | 19 34.41 | −27 2.4 | 1.433 | 2.423 | 7.0 | 20.0 |
| 8 9 | 19 26.77 | −27 12.5 | 1.479 | 2.423 | 11.2 | 20.3 |
| 8 19 | 19 21.62 | −27 12.0 | 1.547 | 2.424 | 15.0 | 20.5 |

**45014** 1999 $WP$ 7 17.1 227°.63 0°.5/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.14 | −18 28.8 | 1.866 | 2.702 | 14.7 | 19.7 |
| 6 20 | 20 10.24 | −18 43.9 | 1.775 | 2.693 | 11.5 | 19.5 |
| 6 30 | 20 2.88 | −19 6.8 | 1.707 | 2.683 | 7.6 | 19.3 |
| 7 10 | 19 53.67 | −19 34.9 | 1.663 | 2.672 | 3.3 | 19.0 |
| 7 20 | 19 43.46 | −20 4.9 | 1.646 | 2.661 | 1.3 | 18.8 |
| 7 30 | 19 33.39 | −20 33.5 | 1.656 | 2.649 | 5.8 | 19.1 |
| 8 9 | 19 24.58 | −20 58.1 | 1.692 | 2.636 | 10.0 | 19.3 |
| 8 19 | 19 17.91 | −21 17.5 | 1.752 | 2.623 | 13.8 | 19.5 |

**145837** 1998 $YZ_2$ 7 17.1 251°.54 1°.0/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.36 | −17 32.4 | 1.871 | 2.707 | 14.7 | 20.7 |
| 6 20 | 20 9.67 | −17 37.7 | 1.775 | 2.692 | 11.5 | 20.5 |
| 6 30 | 20 2.55 | −17 51.1 | 1.701 | 2.675 | 7.8 | 20.2 |
| 7 10 | 19 53.55 | −18 10.4 | 1.650 | 2.659 | 3.6 | 20.0 |
| 7 20 | 19 43.51 | −18 33.0 | 1.627 | 2.642 | 1.6 | 19.8 |
| 7 30 | 19 33.55 | −18 56.1 | 1.631 | 2.624 | 5.8 | 20.0 |
| 8 9 | 19 24.79 | −19 17.2 | 1.660 | 2.606 | 10.1 | 20.2 |
| 8 19 | 19 18.13 | −19 34.8 | 1.713 | 2.588 | 13.9 | 20.4 |

**200527** 2001 $CU_{39}$ 7 17.1 96°.51 3°.6/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.43 | −26 34.4 | 1.886 | 2.735 | 14.1 | 19.9 |
| 6 20 | 20 9.66 | −27 49.9 | 1.823 | 2.747 | 10.8 | 19.7 |
| 6 30 | 20 2.45 | −29 8.6 | 1.781 | 2.758 | 7.3 | 19.5 |
| 7 10 | 19 53.46 | −30 24.1 | 1.766 | 2.770 | 4.2 | 19.3 |
| 7 20 | 19 43.63 | −31 30.1 | 1.777 | 2.781 | 4.1 | 19.3 |
| 7 30 | 19 34.11 | −32 21.9 | 1.816 | 2.792 | 7.1 | 19.5 |
| 8 9 | 19 26.00 | −32 57.6 | 1.880 | 2.803 | 10.5 | 19.8 |
| 8 19 | 19 20.12 | −33 18.0 | 1.967 | 2.814 | 13.5 | 20.0 |

**503869** 2000 $GW_{23}$ 7 17.1 74°.38 0°.2/17.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.15 | −20 27.7 | 1.521 | 2.372 | 16.8 | 21.2 |
| 6 20 | 20 11.09 | −20 42.9 | 1.466 | 2.391 | 12.9 | 21.0 |
| 6 30 | 20 3.36 | −21 4.7 | 1.431 | 2.411 | 8.4 | 20.8 |
| 7 10 | 19 53.80 | −21 29.3 | 1.420 | 2.431 | 3.5 | 20.5 |
| 7 20 | 19 43.53 | −21 52.7 | 1.435 | 2.450 | 1.5 | 20.4 |
| 7 30 | 19 33.87 | −22 11.8 | 1.476 | 2.470 | 6.3 | 20.8 |
| 8 9 | 19 25.98 | −22 24.8 | 1.542 | 2.489 | 10.6 | 21.1 |
| 8 19 | 19 20.61 | −22 31.5 | 1.629 | 2.508 | 14.3 | 21.4 |

**468553** 2006 $TN_{11}$ 7 17.1 289°.40 5°.9/18.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.99 | − 8 53.8 | 1.499 | 2.331 | 17.9 | 21.7 |
| 6 20 | 20 8.27 | − 8 14.1 | 1.412 | 2.317 | 14.7 | 21.5 |
| 6 30 | 20 1.85 | − 7 48.5 | 1.343 | 2.303 | 11.0 | 21.2 |
| 7 10 | 19 53.33 | − 7 39.1 | 1.297 | 2.288 | 7.4 | 21.0 |
| 7 20 | 19 43.65 | − 7 46.2 | 1.273 | 2.274 | 5.9 | 20.9 |
| 7 30 | 19 34.08 | − 8 8.4 | 1.275 | 2.260 | 8.2 | 21.0 |
| 8 9 | 19 25.90 | − 8 42.0 | 1.300 | 2.247 | 12.2 | 21.2 |
| 8 19 | 19 20.10 | − 9 22.9 | 1.346 | 2.233 | 16.1 | 21.4 |

**424407** 2008 $AP_{27}$ 7 17.1 84°.71 3°.5/18.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.22 | −10 31.4 | 1.562 | 2.391 | 17.4 | 20.8 |
| 6 20 | 20 9.50 | −10 43.2 | 1.503 | 2.411 | 13.8 | 20.6 |
| 6 30 | 20 2.29 | −11 10.9 | 1.464 | 2.430 | 9.7 | 20.4 |
| 7 10 | 19 53.36 | −11 52.6 | 1.449 | 2.449 | 5.5 | 20.2 |
| 7 20 | 19 43.72 | −12 44.7 | 1.459 | 2.468 | 3.5 | 20.1 |
| 7 30 | 19 34.56 | −13 42.4 | 1.495 | 2.487 | 6.4 | 20.3 |
| 8 9 | 19 26.95 | −14 41.0 | 1.556 | 2.505 | 10.3 | 20.6 |
| 8 19 | 19 21.66 | −15 36.4 | 1.640 | 2.523 | 13.9 | 20.9 |

**127927** 2003 $GU_{49}$ 7 17.1 163°.25 1°.5/17.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.50 | −15 26.0 | 1.961 | 2.791 | 14.4 | 20.6 |
| 6 20 | 20 8.68 | −15 38.4 | 1.883 | 2.795 | 11.2 | 20.4 |
| 6 30 | 20 1.68 | −16 0.2 | 1.826 | 2.798 | 7.6 | 20.2 |
| 7 10 | 19 53.12 | −16 29.4 | 1.794 | 2.801 | 3.7 | 20.0 |
| 7 20 | 19 43.80 | −17 3.1 | 1.790 | 2.803 | 1.8 | 19.8 |
| 7 30 | 19 34.73 | −17 38.3 | 1.813 | 2.806 | 5.4 | 20.1 |
| 8 9 | 19 26.88 | −18 12.1 | 1.862 | 2.807 | 9.2 | 20.3 |
| 8 19 | 19 20.97 | −18 42.4 | 1.935 | 2.809 | 12.6 | 20.5 |

**146735** 2001 $XQ_{63}$ 7 17.1 207°.19 1°.0/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.20 | −17 20.9 | 2.669 | 3.491 | 11.2 | 20.9 |
| 6 20 | 20 6.40 | −17 22.7 | 2.578 | 3.486 | 8.7 | 20.8 |
| 6 30 | 19 59.95 | −17 29.6 | 2.510 | 3.481 | 5.8 | 20.6 |
| 7 10 | 19 52.33 | −17 40.5 | 2.468 | 3.475 | 2.7 | 20.4 |
| 7 20 | 19 44.13 | −17 53.6 | 2.455 | 3.470 | 1.3 | 20.2 |
| 7 30 | 19 36.08 | −18 7.3 | 2.471 | 3.463 | 4.2 | 20.4 |
| 8 9 | 19 28.88 | −18 20.3 | 2.515 | 3.457 | 7.3 | 20.6 |
| 8 19 | 19 23.11 | −18 31.5 | 2.584 | 3.450 | 10.1 | 20.8 |

**411627** 2011 $UV_{79}$ 7 17.1 170°.67 1°.3/17.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.96 | −17 43.5 | 1.503 | 2.348 | 17.2 | 21.6 |
| 6 20 | 20 11.99 | −17 42.0 | 1.429 | 2.351 | 13.4 | 21.4 |
| 6 30 | 20 4.18 | −17 49.2 | 1.375 | 2.352 | 9.0 | 21.2 |
| 7 10 | 19 54.26 | −18 2.9 | 1.345 | 2.354 | 4.1 | 20.9 |
| 7 20 | 19 43.35 | −18 20.0 | 1.340 | 2.355 | 1.8 | 20.7 |
| 7 30 | 19 32.80 | −18 37.5 | 1.361 | 2.355 | 6.6 | 21.0 |
| 8 9 | 19 23.94 | −18 52.9 | 1.406 | 2.356 | 11.2 | 21.3 |
| 8 19 | 19 17.69 | −19 5.1 | 1.474 | 2.355 | 15.3 | 21.5 |

**285087** 1993 $HN_4$ 7 17.1 333°.96 5°.3/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.12 | −29 53.9 | 1.493 | 2.356 | 16.4 | 20.4 |
| 6 20 | 20 11.02 | −31 1.1 | 1.424 | 2.354 | 12.9 | 20.2 |
| 6 30 | 20 3.79 | −32 9.6 | 1.375 | 2.352 | 9.0 | 20.0 |
| 7 10 | 19 54.18 | −33 11.6 | 1.350 | 2.350 | 5.8 | 19.8 |
| 7 20 | 19 43.37 | −33 59.4 | 1.349 | 2.349 | 5.9 | 19.8 |
| 7 30 | 19 32.90 | −34 27.8 | 1.373 | 2.347 | 9.1 | 20.0 |
| 8 9 | 19 24.27 | −34 36.0 | 1.420 | 2.346 | 13.0 | 20.2 |
| 8 19 | 19 18.51 | −34 26.3 | 1.487 | 2.345 | 16.5 | 20.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **441710** 2009 $AT_{46}$ | | | 7 17.1 259.°59 | | 0.°8/17.5 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.14 | −17 2.1 | 1.984 | 2.821 | 13.9 | 21.5 |
| 6 20 | 20 6.98 | −17 23.4 | 1.897 | 2.815 | 10.9 | 21.3 |
| 6 30 | 20 0.65 | −17 53.6 | 1.833 | 2.809 | 7.2 | 21.1 |
| 7 10 | 19 52.73 | −18 30.2 | 1.793 | 2.802 | 3.3 | 20.8 |
| 7 20 | 19 43.97 | −19 10.2 | 1.781 | 2.796 | 1.3 | 20.7 |
| 7 30 | 19 35.36 | −19 50.0 | 1.795 | 2.789 | 5.3 | 20.9 |
| 8 9 | 19 27.89 | −20 26.7 | 1.836 | 2.782 | 9.2 | 21.2 |
| 8 19 | 19 22.30 | −20 58.4 | 1.900 | 2.776 | 12.7 | 21.4 |
| **434711** 2006 $DO_{12}$ | | | 7 17.1 100.°82 | | 4.°1/15.7 17 | |
| 6 10 | 20 18.43 | −31 16.7 | 1.919 | 2.761 | 14.2 | 21.4 |
| 6 20 | 20 12.57 | −31 46.3 | 1.858 | 2.776 | 11.0 | 21.2 |
| 6 30 | 20 4.21 | −32 12.9 | 1.820 | 2.791 | 7.6 | 21.1 |
| 7 10 | 19 54.15 | −32 31.3 | 1.806 | 2.806 | 4.7 | 20.9 |
| 7 20 | 19 43.44 | −32 37.8 | 1.820 | 2.821 | 4.4 | 20.9 |
| 7 30 | 19 33.28 | −32 30.4 | 1.860 | 2.835 | 7.1 | 21.1 |
| 8 9 | 19 24.74 | −32 10.1 | 1.926 | 2.849 | 10.3 | 21.4 |
| 8 19 | 19 18.58 | −31 39.4 | 2.014 | 2.862 | 13.2 | 21.6 |
| **106139** 2000 $TQ_{43}$ | | | 7 17.1 347.°21 | | 3.°3/18.9 18 | |
| 6 10 | 20 7.93 | − 9 40.4 | 1.886 | 2.712 | 15.0 | 19.3 |
| 6 20 | 20 4.54 | −10 0.7 | 1.804 | 2.709 | 12.0 | 19.1 |
| 6 30 | 19 59.07 | −10 36.2 | 1.742 | 2.705 | 8.6 | 18.9 |
| 7 10 | 19 52.06 | −11 25.8 | 1.704 | 2.703 | 5.1 | 18.6 |
| 7 20 | 19 44.26 | −12 26.5 | 1.691 | 2.700 | 3.3 | 18.5 |
| 7 30 | 19 36.62 | −13 34.3 | 1.706 | 2.698 | 5.8 | 18.7 |
| 8 9 | 19 30.07 | −14 44.1 | 1.746 | 2.696 | 9.3 | 18.9 |
| 8 19 | 19 25.37 | −15 51.8 | 1.810 | 2.695 | 12.8 | 19.1 |
| **159653** 2002 $CK_{301}$ | | | 7 17.1 339.°68 | | 3.°0/18.3 18 | |
| 6 10 | 20 9.44 | −13 24.4 | 1.500 | 2.349 | 17.0 | 19.3 |
| 6 20 | 20 6.24 | −13 20.8 | 1.422 | 2.342 | 13.5 | 19.1 |
| 6 30 | 20 0.45 | −13 30.4 | 1.363 | 2.336 | 9.4 | 18.8 |
| 7 10 | 19 52.72 | −13 52.4 | 1.326 | 2.331 | 5.1 | 18.6 |
| 7 20 | 19 43.98 | −14 24.2 | 1.314 | 2.326 | 3.1 | 18.4 |
| 7 30 | 19 35.48 | −15 2.3 | 1.326 | 2.321 | 6.6 | 18.6 |
| 8 9 | 19 28.40 | −15 42.6 | 1.363 | 2.317 | 11.0 | 18.9 |
| 8 19 | 19 23.67 | −16 21.7 | 1.420 | 2.314 | 15.1 | 19.1 |
| **146937** 2002 $DO_{9}$ | | | 7 17.1 61.°70 | | 5.°3/13.8 17 | |
| 6 10 | 20 13.53 | −32 6.6 | 2.069 | 2.915 | 13.1 | 19.1 |
| 6 20 | 20 8.92 | −33 37.0 | 2.011 | 2.930 | 10.3 | 18.9 |
| 6 30 | 20 1.95 | −35 6.0 | 1.978 | 2.945 | 7.5 | 18.8 |
| 7 10 | 19 53.27 | −36 26.9 | 1.970 | 2.960 | 5.5 | 18.7 |
| 7 20 | 19 43.78 | −37 33.4 | 1.989 | 2.975 | 5.8 | 18.7 |
| 7 30 | 19 34.58 | −38 21.6 | 2.034 | 2.990 | 8.0 | 18.9 |
| 8 9 | 19 26.75 | −38 50.6 | 2.105 | 3.005 | 10.6 | 19.1 |
| 8 19 | 19 21.05 | −39 2.1 | 2.198 | 3.020 | 13.1 | 19.3 |
| **29477** Zdíkšíma | | | 7 17.1 110.°46 | | 6.°2/19.5 18 | |
| 6 10 | 20 13.26 | − 6 3.4 | 1.783 | 2.589 | 16.5 | 19.1 |
| 6 20 | 20 8.55 | − 5 22.7 | 1.712 | 2.597 | 13.6 | 18.9 |
| 6 30 | 20 1.61 | − 4 56.8 | 1.661 | 2.606 | 10.4 | 18.7 |
| 7 10 | 19 53.10 | − 4 47.4 | 1.633 | 2.614 | 7.4 | 18.6 |
| 7 20 | 19 43.87 | − 4 54.3 | 1.631 | 2.622 | 6.2 | 18.5 |
| 7 30 | 19 34.98 | − 5 16.0 | 1.654 | 2.630 | 7.7 | 18.6 |
| 8 9 | 19 27.39 | − 5 49.0 | 1.702 | 2.638 | 10.6 | 18.8 |
| 8 19 | 19 21.83 | − 6 29.3 | 1.773 | 2.645 | 13.6 | 19.0 |
| **429415** 2010 $TY_{176}$ | | | 7 17.1 285.°19 | | 16.°9/20.0 18 | |
| 6 10 | 20 12.22 | +13 1.8 | 1.618 | 2.335 | 21.3 | 21.2 |
| 6 20 | 20 8.47 | +15 16.7 | 1.532 | 2.315 | 19.8 | 21.0 |
| 6 30 | 20 2.06 | +17 9.3 | 1.463 | 2.294 | 18.4 | 20.9 |
| 7 10 | 19 53.50 | +18 30.5 | 1.411 | 2.273 | 17.3 | 20.7 |
| 7 20 | 19 43.63 | +19 13.1 | 1.377 | 2.252 | 16.9 | 20.7 |
| 7 30 | 19 33.63 | +19 13.0 | 1.362 | 2.231 | 17.3 | 20.6 |
| 8 9 | 19 24.80 | +18 32.0 | 1.365 | 2.209 | 18.6 | 20.7 |
| 8 19 | 19 18.21 | +17 16.3 | 1.385 | 2.188 | 20.4 | 20.7 |
| **191688** 2004 $RC_{107}$ | | | 7 17.1 353.°24 | | 2.°2/17.9 18 | |
| 6 10 | 20 10.10 | −15 35.3 | 1.408 | 2.265 | 17.5 | 20.2 |
| 6 20 | 20 6.88 | −15 29.4 | 1.335 | 2.262 | 13.8 | 20.0 |
| 6 30 | 20 0.92 | −15 35.0 | 1.281 | 2.259 | 9.4 | 19.7 |
| 7 10 | 19 52.93 | −15 50.7 | 1.249 | 2.257 | 4.7 | 19.5 |
| 7 20 | 19 43.93 | −16 13.9 | 1.241 | 2.255 | 2.5 | 19.3 |
| 7 30 | 19 35.24 | −16 41.1 | 1.258 | 2.254 | 6.7 | 19.6 |
| 8 9 | 19 28.13 | −17 8.8 | 1.298 | 2.254 | 11.3 | 19.8 |
| 8 19 | 19 23.52 | −17 34.4 | 1.359 | 2.254 | 15.5 | 20.1 |
| **254325** 2004 $ST_{3}$ | | | 7 17.1 241.°54 | | 5.°3/20.5 18 | |
| 6 10 | 20 8.09 | − 1 35.9 | 2.843 | 3.608 | 12.0 | 21.5 |
| 6 20 | 20 3.96 | − 1 24.2 | 2.741 | 3.595 | 10.1 | 21.3 |
| 6 30 | 19 58.36 | − 1 25.3 | 2.661 | 3.582 | 8.0 | 21.2 |
| 7 10 | 19 51.68 | − 1 40.1 | 2.606 | 3.568 | 6.2 | 21.0 |
| 7 20 | 19 44.44 | − 2 8.4 | 2.577 | 3.554 | 5.3 | 20.9 |
| 7 30 | 19 37.25 | − 2 48.8 | 2.576 | 3.540 | 6.1 | 21.0 |
| 8 9 | 19 30.74 | − 3 38.7 | 2.602 | 3.525 | 7.9 | 21.1 |
| 8 19 | 19 25.43 | − 4 34.9 | 2.653 | 3.510 | 10.1 | 21.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **523054** 2016 $QS_{90}$ | | | 7 17.1 332.°76 | | 2.°0/16.2 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.57 | −23 11.1 | 1.596 | 2.459 | 15.5 | 20.7 |
| 6 20 | 20 6.43 | −23 52.1 | 1.514 | 2.448 | 12.0 | 20.5 |
| 6 30 | 20 0.65 | −24 39.8 | 1.454 | 2.437 | 7.9 | 20.2 |
| 7 10 | 19 52.84 | −25 29.5 | 1.417 | 2.427 | 3.6 | 19.9 |
| 7 20 | 19 43.95 | −26 15.8 | 1.405 | 2.417 | 2.7 | 19.8 |
| 7 30 | 19 35.24 | −26 53.9 | 1.418 | 2.408 | 6.9 | 20.1 |
| 8 9 | 19 27.96 | −27 20.8 | 1.455 | 2.400 | 11.3 | 20.3 |
| 8 19 | 19 23.07 | −27 35.9 | 1.513 | 2.392 | 15.1 | 20.5 |
| **152853** 1999 $VM_{199}$ | | | 7 17.1 190.°32 | | 0.°3/16.9 18 | |
| 6 10 | 20 9.89 | −19 42.5 | 3.043 | 3.867 | 9.9 | 21.0 |
| 6 20 | 20 5.27 | −20 22.1 | 2.953 | 3.865 | 7.6 | 20.8 |
| 6 30 | 19 59.18 | −21 6.7 | 2.889 | 3.863 | 5.0 | 20.7 |
| 7 10 | 19 52.02 | −21 53.7 | 2.851 | 3.861 | 2.1 | 20.5 |
| 7 20 | 19 44.33 | −22 40.6 | 2.844 | 3.858 | 1.0 | 20.4 |
| 7 30 | 19 36.72 | −23 24.8 | 2.866 | 3.855 | 3.9 | 20.6 |
| 8 9 | 19 29.83 | −24 4.2 | 2.916 | 3.852 | 6.7 | 20.8 |
| 8 19 | 19 24.19 | −24 37.7 | 2.993 | 3.848 | 9.1 | 20.9 |
| **186950** 2004 $RC_{51}$ | | | 7 17.1 23.°37 | | 3.°5/19.2 18 | |
| 6 10 | 20 8.17 | − 8 52.6 | 2.143 | 2.958 | 13.8 | 19.9 |
| 6 20 | 20 4.42 | − 9 4.4 | 2.063 | 2.960 | 11.1 | 19.7 |
| 6 30 | 19 58.82 | − 9 29.7 | 2.005 | 2.963 | 8.0 | 19.5 |
| 7 10 | 19 51.92 | −10 7.4 | 1.970 | 2.965 | 5.0 | 19.4 |
| 7 20 | 19 44.37 | −10 55.5 | 1.962 | 2.968 | 3.5 | 19.3 |
| 7 30 | 19 37.00 | −11 50.8 | 1.982 | 2.971 | 5.4 | 19.4 |
| 8 9 | 19 30.63 | −12 49.3 | 2.028 | 2.974 | 8.5 | 19.6 |
| 8 19 | 19 25.87 | −13 47.6 | 2.098 | 2.977 | 11.5 | 19.8 |
| **509513** 2007 $VW_{162}$ | | | 7 17.1 222.°00 | | 0.°8/16.8 18 | |
| 6 10 | 20 12.51 | −22 11.7 | 2.079 | 2.921 | 13.2 | 21.6 |
| 6 20 | 20 7.92 | −22 29.3 | 1.998 | 2.919 | 10.2 | 21.4 |
| 6 30 | 20 1.21 | −22 51.1 | 1.938 | 2.917 | 6.7 | 21.2 |
| 7 10 | 19 52.95 | −23 14.0 | 1.905 | 2.915 | 2.8 | 20.9 |
| 7 20 | 19 43.95 | −23 35.0 | 1.898 | 2.912 | 1.5 | 20.8 |
| 7 30 | 19 35.18 | −23 51.5 | 1.919 | 2.910 | 5.4 | 21.1 |
| 8 9 | 19 27.59 | −24 2.0 | 1.966 | 2.907 | 9.0 | 21.3 |
| 8 19 | 19 21.90 | −24 6.3 | 2.037 | 2.905 | 12.3 | 21.5 |
| **273904** 2007 $HT_{51}$ | | | 7 17.1 128.°45 | | 1.°4/17.8 17 | |
| 6 10 | 20 13.73 | −15 39.3 | 1.937 | 2.767 | 14.5 | 21.4 |
| 6 20 | 20 8.83 | −15 52.7 | 1.865 | 2.777 | 11.3 | 21.2 |
| 6 30 | 20 1.76 | −16 15.3 | 1.814 | 2.787 | 7.6 | 21.0 |
| 7 10 | 19 53.17 | −16 44.9 | 1.789 | 2.796 | 3.6 | 20.7 |
| 7 20 | 19 43.88 | −17 18.7 | 1.791 | 2.805 | 1.7 | 20.6 |
| 7 30 | 19 34.90 | −17 53.3 | 1.820 | 2.813 | 5.3 | 20.9 |
| 8 9 | 19 27.18 | −18 26.2 | 1.876 | 2.821 | 9.1 | 21.1 |
| 8 19 | 19 21.44 | −18 55.4 | 1.955 | 2.829 | 12.5 | 21.4 |
| **61370** 2000 $PU_{22}$ | | | 7 17.1 306.°49 | | 1.°8/16.4 18 | |
| 6 10 | 20 11.70 | −22 59.7 | 1.515 | 2.378 | 16.2 | 19.3 |
| 6 20 | 20 8.33 | −23 32.2 | 1.427 | 2.359 | 12.6 | 19.0 |
| 6 30 | 20 2.07 | −24 11.9 | 1.358 | 2.341 | 8.4 | 18.7 |
| 7 10 | 19 53.52 | −24 54.1 | 1.313 | 2.323 | 3.8 | 18.4 |
| 7 20 | 19 43.67 | −25 33.3 | 1.292 | 2.305 | 2.6 | 18.2 |
| 7 30 | 19 33.91 | −26 4.8 | 1.296 | 2.287 | 7.3 | 18.5 |
| 8 9 | 19 25.63 | −26 25.6 | 1.324 | 2.270 | 12.0 | 18.7 |
| 8 19 | 19 19.95 | −26 35.1 | 1.372 | 2.254 | 16.3 | 18.9 |
| **312735** 2010 $SL_{36}$ | | | 7 17.1 325.°82 | | 5.°2/14.8 18 | |
| 6 10 | 20 13.48 | −33 50.7 | 2.003 | 2.851 | 13.4 | 20.4 |
| 6 20 | 20 9.05 | −34 34.0 | 1.926 | 2.844 | 10.7 | 20.2 |
| 6 30 | 20 2.14 | −35 13.9 | 1.870 | 2.837 | 7.8 | 20.0 |
| 7 10 | 19 53.40 | −35 45.0 | 1.839 | 2.831 | 5.5 | 19.8 |
| 7 20 | 19 43.78 | −36 2.5 | 1.833 | 2.825 | 5.6 | 19.8 |
| 7 30 | 19 34.45 | −36 3.7 | 1.854 | 2.819 | 7.9 | 19.9 |
| 8 9 | 19 26.53 | −35 48.7 | 1.899 | 2.813 | 10.9 | 20.1 |
| 8 19 | 19 20.85 | −35 19.8 | 1.966 | 2.808 | 13.7 | 20.3 |
| **185360** 2006 $VZ_{88}$ | | | 7 17.1 322.°51 | | 0.°3/17.2 18 | R |
| 6 10 | 20 9.88 | −17 6.8 | 1.338 | 2.203 | 17.9 | 19.7 |
| 6 20 | 20 7.08 | −17 46.3 | 1.259 | 2.191 | 14.0 | 19.4 |
| 6 30 | 20 1.32 | −18 40.6 | 1.198 | 2.181 | 9.3 | 19.1 |
| 7 10 | 19 53.22 | −19 46.0 | 1.160 | 2.170 | 4.0 | 18.8 |
| 7 20 | 19 43.82 | −20 56.5 | 1.145 | 2.160 | 1.6 | 18.6 |
| 7 30 | 19 34.55 | −22 5.0 | 1.155 | 2.151 | 7.1 | 18.9 |
| 8 9 | 19 26.88 | −23 5.7 | 1.188 | 2.143 | 12.3 | 19.2 |
| 8 19 | 19 21.92 | −23 55.4 | 1.241 | 2.135 | 16.8 | 19.4 |
| **88009** 2000 $UE_{54}$ | | | 7 17.1 160.°16 | | 2.°9/15.3 18 | |
| 6 10 | 20 12.21 | −28 11.1 | 2.566 | 3.403 | 11.1 | 19.4 |
| 6 20 | 20 7.40 | −29 2.2 | 2.489 | 3.407 | 8.6 | 19.2 |
| 6 30 | 20 0.73 | −29 54.2 | 2.437 | 3.410 | 5.8 | 19.1 |
| 7 10 | 19 52.72 | −30 42.8 | 2.411 | 3.413 | 3.4 | 18.9 |
| 7 20 | 19 44.07 | −31 24.3 | 2.414 | 3.416 | 3.3 | 18.9 |
| 7 30 | 19 35.60 | −31 55.8 | 2.444 | 3.419 | 5.7 | 19.1 |
| 8 9 | 19 28.12 | −32 16.2 | 2.502 | 3.421 | 8.4 | 19.2 |
| 8 19 | 19 22.29 | −32 25.8 | 2.583 | 3.423 | 10.9 | 19.4 |

**93405** 2000 $SV_{293}$ 7 17.1 334°.73 3°.9/16.4 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.88 | −29 42.8 | 1.271 | 2.147 | 17.9 | 18.6 |
| 6 20 | 20 9.77 | −29 43.2 | 1.191 | 2.129 | 14.1 | 18.3 |
| 6 30 | 20 3.24 | −29 40.3 | 1.130 | 2.113 | 9.7 | 18.0 |
| 7 10 | 19 54.06 | −29 28.8 | 1.090 | 2.097 | 5.3 | 17.7 |
| 7 20 | 19 43.52 | −29 4.1 | 1.073 | 2.083 | 4.4 | 17.6 |
| 7 30 | 19 33.35 | −28 24.5 | 1.079 | 2.070 | 8.6 | 17.8 |
| 8 9 | 19 25.21 | −27 31.8 | 1.108 | 2.058 | 13.5 | 18.1 |
| 8 19 | 19 20.23 | −26 30.0 | 1.155 | 2.047 | 17.9 | 18.3 |

**39103** 2000 $WQ_{17}$ 7 17.1 228°.20 1°.0/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.05 | −16 43.8 | 2.439 | 3.267 | 12.0 | 19.4 |
| 6 20 | 20 5.72 | −16 56.4 | 2.350 | 3.262 | 9.3 | 19.2 |
| 6 30 | 19 59.64 | −17 15.9 | 2.284 | 3.257 | 6.2 | 19.0 |
| 7 10 | 19 52.28 | −17 40.6 | 2.244 | 3.252 | 2.9 | 18.8 |
| 7 20 | 19 44.28 | −18 8.2 | 2.232 | 3.246 | 1.3 | 18.7 |
| 7 30 | 19 36.43 | −18 36.5 | 2.248 | 3.241 | 4.5 | 18.9 |
| 8 9 | 19 29.48 | −19 3.4 | 2.291 | 3.235 | 7.8 | 19.1 |
| 8 19 | 19 24.05 | −19 27.3 | 2.359 | 3.229 | 10.7 | 19.3 |

**424289** 2007 $TT_{159}$ 7 17.1 290°.50 2°.9/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.72 | −15 12.2 | 1.406 | 2.256 | 17.9 | 21.1 |
| 6 20 | 20 10.12 | −14 53.7 | 1.306 | 2.229 | 14.4 | 20.8 |
| 6 30 | 20 3.44 | −14 45.8 | 1.226 | 2.202 | 10.0 | 20.5 |
| 7 10 | 19 54.21 | −14 48.1 | 1.168 | 2.174 | 5.3 | 20.2 |
| 7 20 | 19 43.42 | −14 59.2 | 1.134 | 2.146 | 3.2 | 19.9 |
| 7 30 | 19 32.49 | −15 16.6 | 1.124 | 2.118 | 7.6 | 20.1 |
| 8 9 | 19 23.00 | −15 37.3 | 1.137 | 2.090 | 12.8 | 20.3 |
| 8 19 | 19 16.19 | −15 58.7 | 1.170 | 2.063 | 17.7 | 20.5 |

**377602** 2005 $QJ_{158}$ 7 17.1 276°.78 3°.8/15.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.59 | −27 59.0 | 1.704 | 2.557 | 15.1 | 21.4 |
| 6 20 | 20 11.21 | −28 43.7 | 1.611 | 2.537 | 11.9 | 21.2 |
| 6 30 | 20 3.93 | −29 31.1 | 1.539 | 2.516 | 8.1 | 20.9 |
| 7 10 | 19 54.33 | −30 15.4 | 1.491 | 2.495 | 4.6 | 20.7 |
| 7 20 | 19 43.40 | −30 50.5 | 1.469 | 2.474 | 4.4 | 20.6 |
| 7 30 | 19 32.52 | −31 11.6 | 1.472 | 2.453 | 7.9 | 20.7 |
| 8 9 | 19 23.10 | −31 17.2 | 1.500 | 2.431 | 12.0 | 20.9 |
| 8 19 | 19 16.23 | −31 8.3 | 1.549 | 2.410 | 15.9 | 21.1 |

**209299** 2003 $YE_{119}$ 7 17.1 237°.94 1°.4/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.21 | −22 32.7 | 2.046 | 2.890 | 13.3 | 20.4 |
| 6 20 | 20 7.82 | −23 9.9 | 1.963 | 2.885 | 10.3 | 20.2 |
| 6 30 | 20 1.23 | −23 52.3 | 1.902 | 2.881 | 6.7 | 20.0 |
| 7 10 | 19 53.02 | −24 36.1 | 1.867 | 2.877 | 3.0 | 19.8 |
| 7 20 | 19 43.98 | −25 17.2 | 1.859 | 2.872 | 2.0 | 19.7 |
| 7 30 | 19 35.12 | −25 52.0 | 1.878 | 2.867 | 5.7 | 19.9 |
| 8 9 | 19 27.42 | −26 18.5 | 1.924 | 2.863 | 9.4 | 20.1 |
| 8 19 | 19 21.65 | −26 35.9 | 1.993 | 2.858 | 12.6 | 20.3 |

**409332** 2004 $VP_{3}$ 7 17.1 194°.87 2°.5/16.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.34 | −25 3.7 | 1.788 | 2.632 | 15.0 | 22.2 |
| 6 20 | 20 12.92 | −25 46.6 | 1.708 | 2.630 | 11.6 | 22.0 |
| 6 30 | 20 4.77 | −26 33.5 | 1.650 | 2.627 | 7.7 | 21.7 |
| 7 10 | 19 54.58 | −27 19.1 | 1.616 | 2.624 | 3.8 | 21.5 |
| 7 20 | 19 43.35 | −27 58.0 | 1.609 | 2.620 | 3.1 | 21.4 |
| 7 30 | 19 32.35 | −28 26.0 | 1.630 | 2.615 | 6.9 | 21.7 |
| 8 9 | 19 22.86 | −28 41.6 | 1.676 | 2.609 | 10.9 | 21.9 |
| 8 19 | 19 15.80 | −28 45.4 | 1.745 | 2.603 | 14.5 | 22.1 |

**286591** 2002 $CD_{265}$ 7 17.1 257°.33 1°.0/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.69 | −22 43.3 | 1.885 | 2.729 | 14.3 | 21.7 |
| 6 20 | 20 9.98 | −22 58.0 | 1.793 | 2.716 | 11.1 | 21.4 |
| 6 30 | 20 2.80 | −23 17.0 | 1.723 | 2.702 | 7.3 | 21.2 |
| 7 10 | 19 53.74 | −23 36.9 | 1.678 | 2.688 | 3.2 | 20.9 |
| 7 20 | 19 43.68 | −23 54.3 | 1.660 | 2.674 | 1.8 | 20.8 |
| 7 30 | 19 33.76 | −24 6.2 | 1.668 | 2.659 | 6.0 | 21.0 |
| 8 9 | 19 25.13 | −24 11.3 | 1.702 | 2.644 | 10.1 | 21.2 |
| 8 19 | 19 18.66 | −24 9.4 | 1.759 | 2.629 | 13.8 | 21.4 |

**191649** 2004 $PX_{46}$ 7 17.1 325°.36 2°.0/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.00 | −26 14.0 | 1.560 | 2.417 | 16.1 | 20.0 |
| 6 20 | 20 11.36 | −26 10.5 | 1.482 | 2.411 | 12.5 | 19.7 |
| 6 30 | 20 3.83 | −26 7.0 | 1.425 | 2.406 | 8.3 | 19.5 |
| 7 10 | 19 54.18 | −25 59.8 | 1.391 | 2.400 | 3.9 | 19.2 |
| 7 20 | 19 43.55 | −25 45.8 | 1.383 | 2.396 | 2.6 | 19.1 |
| 7 30 | 19 33.31 | −25 23.3 | 1.400 | 2.391 | 6.9 | 19.3 |
| 8 9 | 19 24.79 | −24 53.0 | 1.441 | 2.387 | 11.3 | 19.6 |
| 8 19 | 19 18.92 | −24 16.9 | 1.504 | 2.383 | 15.3 | 19.8 |

**355711** 2008 $FD_{122}$ 7 17.1 73°.15 6°.9/21.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.39 | + 0 38.3 | 2.302 | 3.067 | 14.4 | 21.5 |
| 6 20 | 20 5.05 | + 1 8.9 | 2.238 | 3.086 | 12.2 | 21.3 |
| 6 30 | 19 59.08 | + 1 23.1 | 2.194 | 3.106 | 9.9 | 21.2 |
| 7 10 | 19 51.99 | + 1 19.6 | 2.174 | 3.125 | 7.9 | 21.1 |
| 7 20 | 19 44.45 | + 0 58.7 | 2.179 | 3.144 | 6.9 | 21.1 |
| 7 30 | 19 37.19 | + 0 22.1 | 2.209 | 3.164 | 7.5 | 21.2 |
| 8 9 | 19 30.92 | − 0 26.7 | 2.266 | 3.183 | 9.2 | 21.3 |
| 8 19 | 19 26.15 | − 1 23.5 | 2.346 | 3.202 | 11.3 | 21.5 |

**397109** 2005 $VM_{9}$ 7 17.1 1°.63 4°.6/19.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.20 | − 7 58.8 | 2.181 | 2.989 | 13.8 | 20.6 |
| 6 20 | 20 5.17 | − 7 33.2 | 2.099 | 2.989 | 11.2 | 20.4 |
| 6 30 | 19 59.31 | − 7 19.3 | 2.039 | 2.989 | 8.4 | 20.2 |
| 7 10 | 19 52.16 | − 7 17.4 | 2.002 | 2.989 | 5.7 | 20.0 |
| 7 20 | 19 44.38 | − 7 27.4 | 1.992 | 2.989 | 4.6 | 20.0 |
| 7 30 | 19 36.80 | − 7 47.6 | 2.008 | 2.989 | 6.1 | 20.1 |
| 8 9 | 19 30.20 | − 8 15.6 | 2.051 | 2.990 | 8.8 | 20.2 |
| 8 19 | 19 25.22 | − 8 48.4 | 2.117 | 2.990 | 11.7 | 20.4 |

**34391** 2000 $RX_{67}$ 7 17.1 18°.04 1°.0/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.63 | −18 47.3 | 0.929 | 1.823 | 21.3 | 16.6 |
| 6 20 | 20 6.07 | −19 40.3 | 0.879 | 1.828 | 16.5 | 16.3 |
| 6 30 | 20 0.91 | −20 49.1 | 0.846 | 1.836 | 10.7 | 16.0 |
| 7 10 | 19 53.08 | −22 7.0 | 0.833 | 1.845 | 4.5 | 15.7 |
| 7 20 | 19 44.01 | −23 24.4 | 0.840 | 1.855 | 2.3 | 15.6 |
| 7 30 | 19 35.57 | −24 32.3 | 0.869 | 1.867 | 8.4 | 16.0 |
| 8 9 | 19 29.42 | −25 25.0 | 0.918 | 1.880 | 14.0 | 16.4 |
| 8 19 | 19 26.62 | −26 0.7 | 0.985 | 1.894 | 18.7 | 16.7 |

**398012** 2009 $CC_{32}$ 7 17.1 210°.28 2°.5/16.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.16 | −27 58.9 | 2.368 | 3.204 | 12.0 | 21.9 |
| 6 20 | 20 9.82 | −28 22.2 | 2.282 | 3.199 | 9.3 | 21.7 |
| 6 30 | 20 2.40 | −28 45.2 | 2.219 | 3.193 | 6.3 | 21.5 |
| 7 10 | 19 53.49 | −29 4.6 | 2.182 | 3.187 | 3.4 | 21.3 |
| 7 20 | 19 43.85 | −29 16.9 | 2.174 | 3.181 | 2.9 | 21.3 |
| 7 30 | 19 34.43 | −29 20.2 | 2.193 | 3.174 | 5.7 | 21.5 |
| 8 9 | 19 26.14 | −29 14.0 | 2.239 | 3.167 | 8.8 | 21.7 |
| 8 19 | 19 19.68 | −28 59.2 | 2.310 | 3.159 | 11.7 | 21.8 |

**65412** 2002 $SS_{47}$ 7 17.1 263°.45 1°.3/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.15 | −16 13.5 | 2.027 | 2.861 | 13.8 | 20.2 |
| 6 20 | 20 6.96 | −16 23.6 | 1.939 | 2.854 | 10.8 | 20.0 |
| 6 30 | 20 0.66 | −16 42.3 | 1.872 | 2.846 | 7.3 | 19.8 |
| 7 10 | 19 52.79 | −17 7.8 | 1.831 | 2.838 | 3.5 | 19.5 |
| 7 20 | 19 44.12 | −17 37.6 | 1.816 | 2.830 | 1.6 | 19.4 |
| 7 30 | 19 35.59 | −18 8.8 | 1.828 | 2.822 | 5.2 | 19.6 |
| 8 9 | 19 28.16 | −18 38.8 | 1.867 | 2.814 | 9.1 | 19.8 |
| 8 19 | 19 22.57 | −19 5.6 | 1.929 | 2.806 | 12.5 | 20.0 |

**239865** 2000 $CY_{26}$ 7 17.1 119°.40 2°.9/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.83 | − 9 59.8 | 2.298 | 3.104 | 13.2 | 20.6 |
| 6 20 | 20 7.00 | −10 14.0 | 2.226 | 3.120 | 10.5 | 20.5 |
| 6 30 | 20 0.40 | −10 39.8 | 2.176 | 3.135 | 7.5 | 20.3 |
| 7 10 | 19 52.59 | −11 15.9 | 2.153 | 3.149 | 4.4 | 20.1 |
| 7 20 | 19 44.23 | −11 59.9 | 2.156 | 3.163 | 3.0 | 20.1 |
| 7 30 | 19 36.14 | −12 48.9 | 2.188 | 3.177 | 5.0 | 20.2 |
| 8 9 | 19 29.06 | −13 39.7 | 2.248 | 3.190 | 8.0 | 20.4 |
| 8 19 | 19 23.58 | −14 29.3 | 2.332 | 3.203 | 10.8 | 20.6 |

**394220** 2006 $SO_{293}$ 7 17.1 218°.51 4°.2/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.18 | − 8 7.4 | 2.304 | 3.107 | 13.3 | 22.1 |
| 6 20 | 20 5.87 | − 7 53.0 | 2.215 | 3.103 | 10.8 | 22.0 |
| 6 30 | 19 59.76 | − 7 50.0 | 2.148 | 3.099 | 8.0 | 21.8 |
| 7 10 | 19 52.36 | − 7 58.8 | 2.106 | 3.094 | 5.4 | 21.6 |
| 7 20 | 19 44.31 | − 8 18.4 | 2.091 | 3.090 | 4.2 | 21.5 |
| 7 30 | 19 36.41 | − 8 47.2 | 2.103 | 3.085 | 5.8 | 21.6 |
| 8 9 | 19 29.42 | − 9 22.5 | 2.141 | 3.080 | 8.5 | 21.8 |
| 8 19 | 19 23.99 | −10 1.3 | 2.204 | 3.075 | 11.4 | 22.0 |

**372787** 2010 $OK_{61}$ 7 17.1 87°.95 0°.8/16.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.11 | −23 7.0 | 1.503 | 2.353 | 16.9 | 20.6 |
| 6 20 | 20 13.48 | −23 4.5 | 1.444 | 2.369 | 13.0 | 20.4 |
| 6 30 | 20 5.01 | −23 5.1 | 1.405 | 2.385 | 8.5 | 20.2 |
| 7 10 | 19 54.60 | −23 5.4 | 1.391 | 2.401 | 3.6 | 20.0 |
| 7 20 | 19 43.46 | −23 2.3 | 1.401 | 2.416 | 1.7 | 19.9 |
| 7 30 | 19 32.97 | −22 54.1 | 1.439 | 2.431 | 6.5 | 20.2 |
| 8 9 | 19 24.38 | −22 40.5 | 1.500 | 2.446 | 10.9 | 20.5 |
| 8 19 | 19 18.47 | −22 22.6 | 1.584 | 2.461 | 14.7 | 20.8 |

**332674** 2009 $BC_{44}$ 7 17.1 225°.57 1°.4/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.90 | −24 55.1 | 2.231 | 3.068 | 12.6 | 21.4 |
| 6 20 | 20 9.69 | −25 4.0 | 2.143 | 3.061 | 9.7 | 21.2 |
| 6 30 | 20 2.36 | −25 14.2 | 2.077 | 3.054 | 6.4 | 21.0 |
| 7 10 | 19 53.49 | −25 22.8 | 2.038 | 3.046 | 2.9 | 20.8 |
| 7 20 | 19 43.87 | −25 27.1 | 2.026 | 3.038 | 1.9 | 20.7 |
| 7 30 | 19 34.47 | −25 25.2 | 2.042 | 3.030 | 5.4 | 20.9 |
| 8 9 | 19 26.23 | −25 16.7 | 2.085 | 3.021 | 8.9 | 21.1 |
| 8 19 | 19 19.86 | −25 2.1 | 2.152 | 3.013 | 12.0 | 21.3 |

**438750** 2008 $UB_{36}$ 7 17.1 250°.87 7°.5/20.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.27 | − 0 44.6 | 2.099 | 2.874 | 15.4 | 21.7 |
| 6 20 | 20 6.96 | − 0 2.7 | 2.003 | 2.860 | 13.1 | 21.6 |
| 6 30 | 20 0.65 | + 0 23.4 | 1.927 | 2.846 | 10.7 | 21.4 |
| 7 10 | 19 52.81 | + 0 31.4 | 1.874 | 2.831 | 8.5 | 21.2 |
| 7 20 | 19 44.13 | + 0 20.1 | 1.845 | 2.816 | 7.5 | 21.1 |
| 7 30 | 19 35.49 | − 0 9.7 | 1.842 | 2.801 | 8.4 | 21.1 |
| 8 9 | 19 27.81 | − 0 55.0 | 1.864 | 2.785 | 10.7 | 21.3 |
| 8 19 | 19 21.82 | − 1 51.4 | 1.910 | 2.769 | 13.3 | 21.4 |

**207685** 2007 $QX_{12}$ 7 17.1 268°.34 3°.2/18.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.03 | −11 44.3 | 1.986 | 2.810 | 14.4 | 21.1 |
| 6 20 | 20 6.91 | −11 37.1 | 1.894 | 2.798 | 11.6 | 20.9 |
| 6 30 | 20 0.67 | −11 41.0 | 1.822 | 2.786 | 8.2 | 20.7 |
| 7 10 | 19 52.84 | −11 55.6 | 1.775 | 2.774 | 4.8 | 20.5 |
| 7 20 | 19 44.16 | −12 19.5 | 1.754 | 2.762 | 3.3 | 20.4 |
| 7 30 | 19 35.58 | −12 50.3 | 1.760 | 2.750 | 5.8 | 20.5 |
| 8 9 | 19 28.06 | −13 25.1 | 1.792 | 2.738 | 9.4 | 20.7 |
| 8 19 | 19 22.37 | −14 1.0 | 1.847 | 2.725 | 12.9 | 20.9 |

**26943** 1997 $GZ_{16}$ 7 17.1 318°.02 8°.2/19.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.64 | − 7 11.9 | 1.128 | 1.981 | 21.2 | 17.7 |
| 6 20 | 20 6.53 | − 6 14.4 | 1.047 | 1.962 | 17.7 | 17.4 |
| 6 30 | 20 1.22 | − 5 35.3 | 0.982 | 1.944 | 13.7 | 17.1 |
| 7 10 | 19 53.33 | − 5 19.0 | 0.936 | 1.926 | 9.9 | 16.8 |
| 7 20 | 19 43.91 | − 5 27.6 | 0.911 | 1.909 | 8.2 | 16.7 |
| 7 30 | 19 34.54 | − 6 0.3 | 0.907 | 1.893 | 10.5 | 16.7 |
| 8 9 | 19 26.84 | − 6 51.8 | 0.923 | 1.878 | 14.8 | 16.9 |
| 8 19 | 19 22.08 | − 7 55.1 | 0.957 | 1.864 | 19.3 | 17.1 |

**352449** 2008 $AM_{54}$ 7 17.1 220°.60 0°.7/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.22 | −23 29.8 | 2.254 | 3.090 | 12.5 | 21.2 |
| 6 20 | 20 9.08 | −23 27.5 | 2.168 | 3.086 | 9.7 | 21.0 |
| 6 30 | 20 1.91 | −23 26.8 | 2.106 | 3.082 | 6.3 | 20.7 |
| 7 10 | 19 53.29 | −23 25.4 | 2.069 | 3.078 | 2.7 | 20.5 |
| 7 20 | 19 44.01 | −23 21.3 | 2.060 | 3.074 | 1.4 | 20.4 |
| 7 30 | 19 34.97 | −23 13.2 | 2.079 | 3.070 | 5.0 | 20.6 |
| 8 9 | 19 27.08 | −23 0.5 | 2.125 | 3.065 | 8.5 | 20.9 |
| 8 19 | 19 21.00 | −22 43.8 | 2.196 | 3.061 | 11.6 | 21.0 |

**298193** 2002 $TL_{239}$ 7 17.1 279°.44 0°.2/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.68 | −20 11.8 | 2.003 | 2.843 | 13.7 | 21.0 |
| 6 20 | 20 8.29 | −20 14.2 | 1.906 | 2.826 | 10.7 | 20.7 |
| 6 30 | 20 1.63 | −20 21.8 | 1.832 | 2.809 | 7.1 | 20.5 |
| 7 10 | 19 53.27 | −20 32.3 | 1.783 | 2.792 | 3.1 | 20.2 |
| 7 20 | 19 44.00 | −20 43.3 | 1.760 | 2.775 | 1.2 | 20.0 |
| 7 30 | 19 34.82 | −20 52.5 | 1.765 | 2.758 | 5.5 | 20.3 |
| 8 9 | 19 26.78 | −20 58.5 | 1.795 | 2.741 | 9.5 | 20.5 |
| 8 19 | 19 20.69 | −21 0.6 | 1.849 | 2.723 | 13.1 | 20.7 |

**504048** 2005 $WG_{21}$ 7 17.1 197°.22 1°.5/16.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.22 | −23 39.7 | 1.912 | 2.755 | 14.1 | 22.3 |
| 6 20 | 20 10.27 | −24 5.7 | 1.831 | 2.754 | 10.9 | 22.1 |
| 6 30 | 20 2.92 | −24 35.5 | 1.773 | 2.752 | 7.2 | 21.9 |
| 7 10 | 19 53.79 | −25 5.2 | 1.740 | 2.749 | 3.2 | 21.6 |
| 7 20 | 19 43.81 | −25 30.9 | 1.734 | 2.747 | 2.2 | 21.5 |
| 7 30 | 19 34.07 | −25 49.5 | 1.755 | 2.744 | 6.0 | 21.8 |
| 8 9 | 19 25.68 | −25 59.5 | 1.802 | 2.741 | 9.9 | 22.0 |
| 8 19 | 19 19.44 | −26 1.1 | 1.872 | 2.737 | 13.3 | 22.2 |

**265387** 2004 $RW_{319}$ 7 17.1 223°.46 3°.8/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.42 | −33 26.4 | 2.757 | 3.587 | 10.7 | 20.9 |
| 6 20 | 20 9.06 | −33 53.8 | 2.671 | 3.580 | 8.4 | 20.8 |
| 6 30 | 20 1.83 | −34 17.9 | 2.608 | 3.572 | 6.0 | 20.6 |
| 7 10 | 19 53.25 | −34 35.0 | 2.572 | 3.565 | 4.1 | 20.5 |
| 7 20 | 19 44.04 | −34 42.3 | 2.563 | 3.557 | 4.1 | 20.5 |
| 7 30 | 19 35.04 | −34 38.0 | 2.583 | 3.548 | 6.0 | 20.6 |
| 8 9 | 19 27.06 | −34 22.2 | 2.630 | 3.540 | 8.4 | 20.7 |
| 8 19 | 19 20.75 | −33 56.4 | 2.700 | 3.531 | 10.8 | 20.9 |

**236734** 2007 $HZ_{88}$ 7 17.1 39°.16 4°.6/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.27 | −11 50.8 | 0.988 | 1.858 | 22.3 | 20.5 |
| 6 20 | 20 9.15 | −11 31.0 | 0.942 | 1.873 | 17.7 | 20.3 |
| 6 30 | 20 2.63 | −11 30.7 | 0.912 | 1.888 | 12.4 | 20.0 |
| 7 10 | 19 53.73 | −11 49.3 | 0.901 | 1.905 | 7.2 | 19.8 |
| 7 20 | 19 43.88 | −12 23.4 | 0.912 | 1.922 | 4.7 | 19.7 |
| 7 30 | 19 34.78 | −13 7.6 | 0.944 | 1.940 | 8.3 | 20.0 |
| 8 9 | 19 27.92 | −13 55.7 | 0.998 | 1.959 | 13.2 | 20.3 |
| 8 19 | 19 24.20 | −14 42.5 | 1.070 | 1.979 | 17.6 | 20.7 |

**264355** 2000 $AN_{28}$ 7 17.2 305°.93 1°.4/16.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.70 | −22 51.2 | 1.357 | 2.224 | 17.5 | 21.1 |
| 6 20 | 20 9.57 | −23 5.8 | 1.263 | 2.198 | 13.7 | 20.8 |
| 6 30 | 20 3.21 | −23 26.9 | 1.188 | 2.172 | 9.2 | 20.5 |
| 7 10 | 19 54.19 | −23 50.4 | 1.135 | 2.146 | 4.0 | 20.1 |
| 7 20 | 19 43.59 | −24 11.5 | 1.106 | 2.120 | 2.3 | 19.9 |
| 7 30 | 19 32.94 | −24 25.5 | 1.101 | 2.095 | 7.8 | 20.2 |
| 8 9 | 19 23.92 | −24 30.2 | 1.118 | 2.071 | 13.1 | 20.4 |
| 8 19 | 19 17.79 | −24 25.5 | 1.155 | 2.046 | 18.0 | 20.6 |

**149189** 2002 $KU_{7}$ 7 17.2 5°.42 1°.5/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.20 | −12 49.9 | 1.985 | 2.817 | 14.1 | 18.8 |
| 6 20 | 20 4.71 | −13 39.2 | 1.905 | 2.817 | 11.1 | 18.6 |
| 6 30 | 19 59.21 | −14 42.3 | 1.846 | 2.818 | 7.5 | 18.4 |
| 7 10 | 19 52.21 | −15 56.2 | 1.813 | 2.819 | 3.7 | 18.2 |
| 7 20 | 19 44.46 | −17 16.6 | 1.807 | 2.821 | 1.7 | 18.0 |
| 7 30 | 19 36.85 | −18 38.4 | 1.828 | 2.823 | 5.1 | 18.3 |
| 8 9 | 19 30.31 | −19 56.5 | 1.876 | 2.825 | 8.9 | 18.5 |
| 8 19 | 19 25.54 | −21 7.4 | 1.948 | 2.828 | 12.2 | 18.7 |

**302230** 2001 $VR_{128}$ 7 17.2 280°.07 1°.6/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.07 | −14 37.4 | 2.135 | 2.965 | 13.4 | 21.4 |
| 6 20 | 20 6.14 | −14 57.4 | 2.036 | 2.947 | 10.5 | 21.2 |
| 6 30 | 20 0.17 | −15 27.8 | 1.958 | 2.930 | 7.2 | 20.9 |
| 7 10 | 19 52.65 | −16 6.8 | 1.906 | 2.912 | 3.6 | 20.7 |
| 7 20 | 19 44.26 | −16 51.8 | 1.880 | 2.894 | 1.8 | 20.5 |
| 7 30 | 19 35.90 | −17 39.4 | 1.883 | 2.876 | 5.1 | 20.7 |
| 8 9 | 19 28.48 | −18 26.3 | 1.911 | 2.858 | 8.9 | 20.9 |
| 8 19 | 19 22.78 | −19 9.9 | 1.964 | 2.840 | 12.3 | 21.1 |

**482667** 2013 $CQ_{10}$ 7 17.2 188°.65 3°.7/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.01 | −31 42.7 | 2.346 | 3.183 | 12.1 | 21.6 |
| 6 20 | 20 9.76 | −32 11.5 | 2.268 | 3.183 | 9.4 | 21.4 |
| 6 30 | 20 2.39 | −32 37.9 | 2.212 | 3.182 | 6.6 | 21.2 |
| 7 10 | 19 53.53 | −32 57.6 | 2.183 | 3.181 | 4.2 | 21.1 |
| 7 20 | 19 43.98 | −33 7.2 | 2.181 | 3.180 | 4.1 | 21.1 |
| 7 30 | 19 34.71 | −33 4.8 | 2.207 | 3.179 | 6.4 | 21.2 |
| 8 9 | 19 26.67 | −32 50.5 | 2.259 | 3.178 | 9.2 | 21.4 |
| 8 19 | 19 20.54 | −32 26.0 | 2.335 | 3.176 | 11.9 | 21.6 |

**158375** 2001 $XA_{198}$ 7 17.2 187°.38 0°.5/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.21 | −16 0.4 | 2.056 | 2.885 | 13.8 | 20.8 |
| 6 20 | 20 8.54 | −16 46.5 | 1.972 | 2.885 | 10.7 | 20.6 |
| 6 30 | 20 1.73 | −17 43.4 | 1.910 | 2.884 | 7.1 | 20.3 |
| 7 10 | 19 53.31 | −18 47.8 | 1.875 | 2.883 | 3.2 | 20.1 |
| 7 20 | 19 44.05 | −19 55.3 | 1.866 | 2.882 | 1.2 | 19.9 |
| 7 30 | 19 34.93 | −21 1.4 | 1.887 | 2.880 | 5.2 | 20.2 |
| 8 9 | 19 26.92 | −22 2.0 | 1.934 | 2.877 | 9.1 | 20.4 |
| 8 19 | 19 20.77 | −22 54.7 | 2.006 | 2.874 | 12.4 | 20.6 |

**193785** 2001 $OX_{44}$ 7 17.2 29°.75 4°.2/18.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.49 | −14 57.1 | 1.003 | 1.877 | 21.7 | 19.1 |
| 6 20 | 20 10.17 | −14 9.9 | 0.951 | 1.886 | 17.2 | 18.9 |
| 6 30 | 20 3.38 | −13 35.7 | 0.916 | 1.895 | 11.9 | 18.6 |
| 7 10 | 19 54.11 | −13 15.3 | 0.900 | 1.905 | 6.6 | 18.4 |
| 7 20 | 19 43.80 | −13 7.9 | 0.905 | 1.917 | 4.4 | 18.3 |
| 7 30 | 19 34.22 | −13 11.1 | 0.933 | 1.929 | 8.4 | 18.6 |
| 8 9 | 19 26.91 | −13 21.7 | 0.981 | 1.942 | 13.5 | 18.9 |
| 8 19 | 19 22.81 | −13 36.2 | 1.048 | 1.955 | 18.0 | 19.2 |

**513791** 2013 $BB_{83}$ 7 17.2 191°.40 2°.7/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.49 | −10 47.8 | 2.355 | 3.168 | 12.8 | 21.8 |
| 6 20 | 20 5.34 | −11 0.1 | 2.269 | 3.168 | 10.2 | 21.6 |
| 6 30 | 19 59.44 | −11 23.3 | 2.206 | 3.167 | 7.2 | 21.4 |
| 7 10 | 19 52.28 | −11 56.4 | 2.168 | 3.166 | 4.2 | 21.3 |
| 7 20 | 19 44.50 | −12 37.6 | 2.157 | 3.165 | 2.8 | 21.2 |
| 7 30 | 19 36.87 | −13 23.9 | 2.174 | 3.164 | 4.9 | 21.3 |
| 8 9 | 19 30.14 | −14 12.4 | 2.219 | 3.163 | 8.0 | 21.5 |
| 8 19 | 19 24.92 | −15 0.1 | 2.288 | 3.162 | 10.9 | 21.7 |

**262720** 2006 $XV_{20}$ 7 17.2 223°.14 3°.8/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.71 | −11 2.7 | 1.822 | 2.643 | 15.6 | 21.0 |
| 6 20 | 20 9.14 | −10 50.3 | 1.735 | 2.637 | 12.5 | 20.7 |
| 6 30 | 20 2.22 | −10 50.0 | 1.668 | 2.630 | 9.0 | 20.5 |
| 7 10 | 19 53.56 | −11 1.7 | 1.626 | 2.623 | 5.4 | 20.3 |
| 7 20 | 19 43.98 | −11 24.1 | 1.609 | 2.616 | 3.8 | 20.2 |
| 7 30 | 19 34.55 | −11 54.8 | 1.619 | 2.608 | 6.4 | 20.3 |
| 8 9 | 19 26.35 | −12 30.4 | 1.654 | 2.600 | 10.1 | 20.5 |
| 8 19 | 19 20.19 | −13 7.7 | 1.713 | 2.591 | 13.7 | 20.7 |

**60117** 1999 $TZ_{222}$ 7 17.2 34°.18 1°.2/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.49 | −24 53.1 | 2.056 | 2.899 | 13.3 | 18.6 |
| 6 20 | 20 8.65 | −24 51.3 | 1.981 | 2.904 | 10.2 | 18.5 |
| 6 30 | 20 1.68 | −24 50.4 | 1.930 | 2.908 | 6.7 | 18.2 |
| 7 10 | 19 53.23 | −24 47.8 | 1.903 | 2.912 | 3.0 | 18.0 |
| 7 20 | 19 44.14 | −24 41.2 | 1.904 | 2.917 | 1.8 | 17.9 |
| 7 30 | 19 35.42 | −24 29.4 | 1.932 | 2.922 | 5.4 | 18.2 |
| 8 9 | 19 27.98 | −24 12.2 | 1.986 | 2.927 | 8.9 | 18.4 |
| 8 19 | 19 22.50 | −23 50.4 | 2.064 | 2.933 | 12.1 | 18.6 |

**396843** 2004 $RL_{214}$ 7 17.2 325°.05 4°.4/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.89 | −10 53.5 | 1.965 | 2.788 | 14.6 | 19.8 |
| 6 20 | 20 6.02 | −10 10.2 | 1.874 | 2.776 | 11.8 | 19.6 |
| 6 30 | 20 0.09 | − 9 36.0 | 1.804 | 2.764 | 8.7 | 19.4 |
| 7 10 | 19 52.62 | − 9 12.1 | 1.759 | 2.752 | 5.7 | 19.2 |
| 7 20 | 19 44.36 | − 8 58.7 | 1.739 | 2.741 | 4.5 | 19.1 |
| 7 30 | 19 36.25 | − 8 55.5 | 1.745 | 2.730 | 6.5 | 19.2 |
| 8 9 | 19 29.21 | − 9 0.8 | 1.777 | 2.719 | 9.7 | 19.4 |
| 8 19 | 19 23.98 | − 9 12.4 | 1.831 | 2.709 | 13.0 | 19.5 |

**86186** 1999 $RX_{234}$ 7 17.2 197°.16 2°.9/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.02 | −10 5.8 | 2.443 | 3.252 | 12.5 | 19.4 |
| 6 20 | 20 4.92 | −10 18.9 | 2.356 | 3.251 | 10.0 | 19.3 |
| 6 30 | 19 59.14 | −10 43.1 | 2.292 | 3.250 | 7.1 | 19.1 |
| 7 10 | 19 52.15 | −11 17.5 | 2.253 | 3.249 | 4.2 | 18.9 |
| 7 20 | 19 44.57 | −12 0.1 | 2.241 | 3.248 | 2.9 | 18.8 |
| 7 30 | 19 37.11 | −12 48.3 | 2.257 | 3.247 | 4.8 | 18.9 |
| 8 9 | 19 30.52 | −13 38.9 | 2.301 | 3.245 | 7.8 | 19.1 |
| 8 19 | 19 25.38 | −14 29.2 | 2.370 | 3.243 | 10.6 | 19.3 |

**325801** 2010 $RE_{81}$ 7 17.2 311°.02 2°.7/16.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.78 | −23 31.7 | 1.253 | 2.128 | 18.2 | 20.3 |
| 6 20 | 20 9.04 | −24 15.9 | 1.171 | 2.110 | 14.2 | 20.0 |
| 6 30 | 20 2.94 | −25 9.2 | 1.108 | 2.093 | 9.5 | 19.7 |
| 7 10 | 19 54.12 | −26 5.6 | 1.066 | 2.076 | 4.5 | 19.3 |
| 7 20 | 19 43.73 | −26 57.6 | 1.048 | 2.060 | 3.5 | 19.2 |
| 7 30 | 19 33.41 | −27 38.6 | 1.053 | 2.044 | 8.5 | 19.4 |
| 8 9 | 19 24.90 | −28 4.6 | 1.079 | 2.029 | 13.8 | 19.7 |
| 8 19 | 19 19.49 | −28 15.4 | 1.125 | 2.015 | 18.5 | 19.9 |

**258906** 2002 $QQ_{112}$ 7 17.2 87°.86 0°.2/17.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.37 | −21 37.7 | 1.505 | 2.357 | 16.9 | 20.6 |
| 6 20 | 20 12.27 | −21 33.3 | 1.440 | 2.366 | 13.0 | 20.4 |
| 6 30 | 20 4.35 | −21 33.4 | 1.395 | 2.375 | 8.6 | 20.2 |
| 7 10 | 19 54.44 | −21 35.1 | 1.374 | 2.384 | 3.6 | 19.9 |
| 7 20 | 19 43.70 | −21 35.5 | 1.378 | 2.393 | 1.5 | 19.8 |
| 7 30 | 19 33.50 | −21 32.5 | 1.408 | 2.402 | 6.4 | 20.1 |
| 8 9 | 19 25.07 | −21 25.3 | 1.463 | 2.411 | 11.0 | 20.4 |
| 8 19 | 19 19.27 | −21 14.3 | 1.539 | 2.420 | 14.8 | 20.7 |

**346773** 2009 $BP_{93}$ 7 17.2 273°.02 1°.6/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.09 | −15 22.9 | 1.977 | 2.811 | 14.1 | 21.3 |
| 6 20 | 20 7.03 | −15 33.6 | 1.886 | 2.800 | 11.1 | 21.1 |
| 6 30 | 20 0.81 | −15 53.9 | 1.817 | 2.789 | 7.5 | 20.9 |
| 7 10 | 19 52.96 | −16 22.1 | 1.772 | 2.779 | 3.7 | 20.6 |
| 7 20 | 19 44.25 | −16 55.7 | 1.754 | 2.768 | 1.8 | 20.5 |
| 7 30 | 19 35.66 | −17 31.7 | 1.763 | 2.757 | 5.4 | 20.7 |
| 8 9 | 19 28.15 | −18 6.9 | 1.798 | 2.746 | 9.3 | 20.9 |
| 8 19 | 19 22.52 | −18 39.3 | 1.856 | 2.735 | 12.8 | 21.1 |

**59533** 1999 $JT_{26}$ 7 17.2 70°.87 0°.9/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.03 | −21 36.7 | 1.646 | 2.498 | 15.7 | 19.2 |
| 6 20 | 20 9.59 | −21 59.9 | 1.578 | 2.504 | 12.1 | 19.0 |
| 6 30 | 20 2.57 | −22 29.1 | 1.530 | 2.510 | 7.9 | 18.8 |
| 7 10 | 19 53.70 | −23 0.4 | 1.506 | 2.517 | 3.4 | 18.5 |
| 7 20 | 19 43.99 | −23 29.5 | 1.508 | 2.523 | 1.7 | 18.4 |
| 7 30 | 19 34.65 | −23 52.9 | 1.537 | 2.529 | 6.2 | 18.7 |
| 8 9 | 19 26.85 | −24 8.9 | 1.590 | 2.536 | 10.4 | 19.0 |
| 8 19 | 19 21.41 | −24 17.0 | 1.665 | 2.542 | 14.1 | 19.2 |

**185355** 2006 $VK_{74}$ 7 17.2 327°.12 4°.4/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.71 | −26 4.7 | 1.328 | 2.201 | 17.4 | 19.2 |
| 6 20 | 20 8.81 | −27 19.8 | 1.254 | 2.192 | 13.6 | 19.0 |
| 6 30 | 20 2.67 | −28 42.4 | 1.199 | 2.182 | 9.2 | 18.7 |
| 7 10 | 19 53.96 | −30 4.6 | 1.167 | 2.173 | 5.3 | 18.5 |
| 7 20 | 19 43.83 | −31 17.2 | 1.159 | 2.165 | 5.2 | 18.4 |
| 7 30 | 19 33.87 | −32 12.6 | 1.175 | 2.157 | 9.2 | 18.6 |
| 8 9 | 19 25.72 | −32 47.3 | 1.213 | 2.150 | 13.7 | 18.9 |
| 8 19 | 19 20.56 | −33 2.1 | 1.270 | 2.144 | 17.8 | 19.1 |

**285812** 2000 $YM_{102}$ 7 17.2 186°.83 6°.1/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 28.50 | −15 36.2 | 1.206 | 2.043 | 21.1 | 20.3 |
| 6 20 | 20 21.51 | −13 41.7 | 1.131 | 2.043 | 17.0 | 20.0 |
| 6 30 | 20 10.80 | −11 49.2 | 1.076 | 2.043 | 12.2 | 19.7 |
| 7 10 | 19 57.31 | −10 2.8 | 1.044 | 2.042 | 7.6 | 19.5 |
| 7 20 | 19 42.56 | − 8 27.9 | 1.037 | 2.041 | 6.3 | 19.4 |
| 7 30 | 19 28.44 | − 7 9.3 | 1.056 | 2.039 | 10.0 | 19.6 |
| 8 9 | 19 16.67 | − 6 9.7 | 1.099 | 2.037 | 14.8 | 19.9 |
| 8 19 | 19 8.38 | − 5 28.4 | 1.161 | 2.034 | 19.2 | 20.1 |

**92127** 1999 $XE_{107}$ 7 17.2 61°.53 5°.5/14.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.77 | −35 21.7 | 2.254 | 3.094 | 12.4 | 19.0 |
| 6 20 | 20 9.07 | −36 24.4 | 2.186 | 3.098 | 9.9 | 18.8 |
| 6 30 | 20 2.10 | −37 23.3 | 2.141 | 3.101 | 7.4 | 18.6 |
| 7 10 | 19 53.48 | −38 12.7 | 2.121 | 3.105 | 5.7 | 18.6 |
| 7 20 | 19 44.08 | −38 48.0 | 2.128 | 3.109 | 5.9 | 18.6 |
| 7 30 | 19 34.95 | −39 6.2 | 2.161 | 3.113 | 7.8 | 18.7 |
| 8 9 | 19 27.12 | −39 7.3 | 2.219 | 3.116 | 10.3 | 18.9 |
| 8 19 | 19 21.33 | −38 53.3 | 2.299 | 3.120 | 12.7 | 19.0 |

**181163** 2005 $SP_{13}$ 7 17.2 286°.50 5°.1/19.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.79 | − 5 52.1 | 2.202 | 3.002 | 14.0 | 20.4 |
| 6 20 | 20 4.97 | − 5 35.1 | 2.109 | 2.991 | 11.5 | 20.2 |
| 6 30 | 19 59.32 | − 5 31.5 | 2.036 | 2.980 | 8.8 | 20.0 |
| 7 10 | 19 52.29 | − 5 42.0 | 1.988 | 2.970 | 6.2 | 19.8 |
| 7 20 | 19 44.55 | − 6 6.2 | 1.965 | 2.959 | 5.1 | 19.7 |
| 7 30 | 19 36.90 | − 6 42.3 | 1.970 | 2.948 | 6.4 | 19.8 |
| 8 9 | 19 30.16 | − 7 27.2 | 2.000 | 2.938 | 9.1 | 20.0 |
| 8 19 | 19 24.99 | − 8 17.4 | 2.054 | 2.927 | 12.0 | 20.1 |

**516290** 2016 $WM_{38}$ 7 17.2 249°.72 3°.0/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.38 | −11 48.4 | 2.407 | 3.221 | 12.5 | 21.4 |
| 6 20 | 20 6.01 | −11 31.5 | 2.315 | 3.213 | 10.0 | 21.2 |
| 6 30 | 19 59.89 | −11 22.9 | 2.245 | 3.205 | 7.1 | 21.0 |
| 7 10 | 19 52.50 | −11 22.6 | 2.200 | 3.197 | 4.3 | 20.8 |
| 7 20 | 19 44.48 | −11 29.8 | 2.182 | 3.188 | 3.1 | 20.7 |
| 7 30 | 19 36.58 | −11 43.2 | 2.192 | 3.180 | 5.1 | 20.8 |
| 8 9 | 19 29.58 | −12 1.0 | 2.230 | 3.171 | 8.1 | 21.0 |
| 8 19 | 19 24.08 | −12 21.1 | 2.291 | 3.163 | 11.0 | 21.2 |

**355560** 2008 $CU_{22}$ 7 17.2 243°.95 1°.7/18.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.47 | −14 48.3 | 2.457 | 3.276 | 12.1 | 22.0 |
| 6 20 | 20 6.91 | −14 53.3 | 2.357 | 3.262 | 9.6 | 21.8 |
| 6 30 | 20 0.53 | −15 5.9 | 2.279 | 3.247 | 6.6 | 21.5 |
| 7 10 | 19 52.80 | −15 25.1 | 2.227 | 3.231 | 3.4 | 21.3 |
| 7 20 | 19 44.35 | −15 49.0 | 2.203 | 3.216 | 1.8 | 21.2 |
| 7 30 | 19 35.95 | −16 15.7 | 2.208 | 3.199 | 4.7 | 21.3 |
| 8 9 | 19 28.41 | −16 42.8 | 2.239 | 3.183 | 8.0 | 21.5 |
| 8 19 | 19 22.38 | −17 8.8 | 2.296 | 3.166 | 11.0 | 21.7 |

**192374** 1996 $BP_{6}$ 7 17.2 209°.87 4°.7/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.68 | −32 14.9 | 2.386 | 3.219 | 12.0 | 21.0 |
| 6 20 | 20 11.28 | −33 25.9 | 2.301 | 3.212 | 9.5 | 20.8 |
| 6 30 | 20 3.60 | −34 36.5 | 2.240 | 3.205 | 6.9 | 20.6 |
| 7 10 | 19 54.17 | −35 40.8 | 2.206 | 3.197 | 4.9 | 20.5 |
| 7 20 | 19 43.80 | −36 33.5 | 2.200 | 3.189 | 5.1 | 20.5 |
| 7 30 | 19 33.51 | −37 10.9 | 2.222 | 3.179 | 7.3 | 20.6 |
| 8 9 | 19 24.34 | −37 31.6 | 2.270 | 3.170 | 10.0 | 20.7 |
| 8 19 | 19 17.12 | −37 36.9 | 2.341 | 3.159 | 12.6 | 20.9 |

**472121** 2014 $BD_{23}$ 7 17.2 85°.12 2°.3/18.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.57 | −13 25.7 | 1.948 | 2.776 | 14.5 | 21.1 |
| 6 20 | 20 7.20 | −13 33.4 | 1.877 | 2.786 | 11.4 | 20.9 |
| 6 30 | 20 0.77 | −13 51.6 | 1.827 | 2.796 | 7.8 | 20.7 |
| 7 10 | 19 52.89 | −14 19.0 | 1.802 | 2.806 | 4.1 | 20.5 |
| 7 20 | 19 44.35 | −14 52.9 | 1.804 | 2.815 | 2.4 | 20.4 |
| 7 30 | 19 36.10 | −15 30.4 | 1.832 | 2.825 | 5.3 | 20.6 |
| 8 9 | 19 29.05 | −16 8.2 | 1.887 | 2.835 | 8.9 | 20.8 |
| 8 19 | 19 23.87 | −16 44.0 | 1.965 | 2.844 | 12.2 | 21.1 |

**161210** 2002 $UG_{6}$ 7 17.2 272°.21 0°.1/17.1 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.93 | −18 9.4 | 1.612 | 2.462 | 16.1 | 19.9 |
| 6 20 | 20 9.08 | −18 49.1 | 1.524 | 2.449 | 12.5 | 19.6 |
| 6 30 | 20 2.52 | −19 40.6 | 1.456 | 2.436 | 8.3 | 19.3 |
| 7 10 | 19 53.82 | −20 40.2 | 1.412 | 2.422 | 3.6 | 19.0 |
| 7 20 | 19 43.92 | −21 42.6 | 1.394 | 2.409 | 1.5 | 18.8 |
| 7 30 | 19 34.08 | −22 42.2 | 1.402 | 2.396 | 6.5 | 19.1 |
| 8 9 | 19 25.60 | −23 34.4 | 1.435 | 2.382 | 11.2 | 19.4 |
| 8 19 | 19 19.50 | −24 16.7 | 1.489 | 2.369 | 15.3 | 19.6 |

**431401** 2007 $GX_{38}$ 7 17.2 64°.81 5°.9/19.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.70 | − 6 16.8 | 1.638 | 2.455 | 17.3 | 21.6 |
| 6 20 | 20 7.59 | − 5 54.1 | 1.572 | 2.465 | 14.2 | 21.4 |
| 6 30 | 20 1.16 | − 5 48.6 | 1.526 | 2.476 | 10.7 | 21.3 |
| 7 10 | 19 53.09 | − 6 0.9 | 1.501 | 2.487 | 7.4 | 21.1 |
| 7 20 | 19 44.28 | − 6 30.1 | 1.501 | 2.498 | 5.9 | 21.0 |
| 7 30 | 19 35.82 | − 7 13.0 | 1.526 | 2.509 | 7.5 | 21.2 |
| 8 9 | 19 28.74 | − 8 5.0 | 1.576 | 2.520 | 10.7 | 21.4 |
| 8 19 | 19 23.78 | − 9 1.3 | 1.648 | 2.531 | 13.9 | 21.6 |

**416715** 2005 $CX_{18}$ 7 17.2 145°.80 1°.1/17.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.66 | −16 25.7 | 1.790 | 2.622 | 15.4 | 21.8 |
| 6 20 | 20 11.35 | −16 44.9 | 1.719 | 2.632 | 12.0 | 21.6 |
| 6 30 | 20 3.61 | −17 13.7 | 1.668 | 2.641 | 8.0 | 21.4 |
| 7 10 | 19 54.14 | −17 49.3 | 1.642 | 2.650 | 3.7 | 21.1 |
| 7 20 | 19 43.87 | −18 28.2 | 1.643 | 2.658 | 1.5 | 21.0 |
| 7 30 | 19 33.93 | −19 6.6 | 1.672 | 2.665 | 5.7 | 21.3 |
| 8 9 | 19 25.40 | −19 41.4 | 1.727 | 2.672 | 9.8 | 21.6 |
| 8 19 | 19 19.08 | −20 11.1 | 1.805 | 2.678 | 13.4 | 21.8 |

**440489** 2005 $TT_{85}$ 7 17.2 333°.74 11°.2/21.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 5.65 | + 3 29.2 | 1.649 | 2.433 | 18.5 | 21.1 |
| 6 20 | 20 3.23 | + 4 42.0 | 1.561 | 2.413 | 16.4 | 20.9 |
| 6 30 | 19 58.53 | + 5 34.4 | 1.490 | 2.395 | 14.1 | 20.7 |
| 7 10 | 19 52.08 | + 6 1.1 | 1.438 | 2.377 | 12.2 | 20.5 |
| 7 20 | 19 44.64 | + 5 58.7 | 1.408 | 2.360 | 11.2 | 20.4 |
| 7 30 | 19 37.24 | + 5 26.8 | 1.400 | 2.344 | 11.8 | 20.4 |
| 8 9 | 19 30.95 | + 4 29.0 | 1.412 | 2.329 | 13.7 | 20.5 |
| 8 19 | 19 26.65 | + 3 11.5 | 1.446 | 2.315 | 16.3 | 20.6 |

**498183** 2007 $TN_{255}$ 7 17.2 225°.31 3°.7/18.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.20 | −13 5.3 | 1.531 | 2.368 | 17.4 | 21.6 |
| 6 20 | 20 10.68 | −12 41.6 | 1.452 | 2.364 | 13.9 | 21.4 |
| 6 30 | 20 3.45 | −12 29.4 | 1.392 | 2.360 | 9.8 | 21.1 |
| 7 10 | 19 54.16 | −12 28.6 | 1.355 | 2.356 | 5.6 | 20.9 |
| 7 20 | 19 43.85 | −12 38.0 | 1.343 | 2.352 | 3.8 | 20.7 |
| 7 30 | 19 33.79 | −12 55.3 | 1.356 | 2.348 | 7.0 | 20.9 |
| 8 9 | 19 25.24 | −13 17.6 | 1.394 | 2.343 | 11.3 | 21.2 |
| 8 19 | 19 19.15 | −13 42.0 | 1.453 | 2.338 | 15.3 | 21.4 |

**176970** 2002 $XK_{57}$ 7 17.2 187°.62 0°.2/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.60 | −19 25.8 | 2.246 | 3.080 | 12.6 | 20.5 |
| 6 20 | 20 7.14 | −19 57.7 | 2.163 | 3.080 | 9.7 | 20.4 |
| 6 30 | 20 0.73 | −20 36.1 | 2.103 | 3.079 | 6.4 | 20.1 |
| 7 10 | 19 52.90 | −21 18.2 | 2.069 | 3.079 | 2.7 | 19.9 |
| 7 20 | 19 44.37 | −22 0.5 | 2.063 | 3.078 | 1.1 | 19.8 |
| 7 30 | 19 36.00 | −22 39.8 | 2.085 | 3.077 | 4.9 | 20.1 |
| 8 9 | 19 28.66 | −23 13.8 | 2.134 | 3.075 | 8.4 | 20.3 |
| 8 19 | 19 23.03 | −23 41.2 | 2.207 | 3.074 | 11.5 | 20.5 |

**172479** 2003 $SL_{95}$ 7 17.2 294°.72 2°.2/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.78 | −25 15.6 | 1.387 | 2.251 | 17.4 | 20.4 |
| 6 20 | 20 11.89 | −25 26.2 | 1.298 | 2.230 | 13.6 | 20.1 |
| 6 30 | 20 4.71 | −25 39.6 | 1.227 | 2.210 | 9.1 | 19.8 |
| 7 10 | 19 54.87 | −25 51.4 | 1.180 | 2.189 | 4.3 | 19.4 |
| 7 20 | 19 43.54 | −25 56.5 | 1.156 | 2.169 | 2.9 | 19.3 |
| 7 30 | 19 32.32 | −25 51.4 | 1.157 | 2.149 | 7.8 | 19.5 |
| 8 9 | 19 22.86 | −25 35.4 | 1.181 | 2.129 | 13.0 | 19.8 |
| 8 19 | 19 16.36 | −25 10.2 | 1.224 | 2.109 | 17.6 | 20.0 |

**424026** 2006 $XK_{53}$ 7 17.2 215°.39 0°.3/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.34 | −19 53.7 | 1.967 | 2.801 | 14.2 | 22.1 |
| 6 20 | 20 11.09 | −19 55.6 | 1.878 | 2.794 | 11.0 | 21.9 |
| 6 30 | 20 3.48 | −20 2.6 | 1.811 | 2.787 | 7.3 | 21.6 |
| 7 10 | 19 54.13 | −20 12.5 | 1.770 | 2.779 | 3.2 | 21.4 |
| 7 20 | 19 43.90 | −20 22.8 | 1.756 | 2.771 | 1.2 | 21.2 |
| 7 30 | 19 33.87 | −20 31.2 | 1.770 | 2.762 | 5.5 | 21.5 |
| 8 9 | 19 25.09 | −20 36.3 | 1.810 | 2.753 | 9.5 | 21.7 |
| 8 19 | 19 18.37 | −20 37.7 | 1.873 | 2.743 | 13.1 | 21.9 |

**49119** 1998 $SX_{11}$ 7 17.2 79°.54 4°.7/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.51 | −29 8.8 | 1.526 | 2.385 | 16.3 | 19.2 |
| 6 20 | 20 11.96 | −30 9.5 | 1.463 | 2.391 | 12.7 | 19.0 |
| 6 30 | 20 4.38 | −31 11.2 | 1.421 | 2.398 | 8.8 | 18.8 |
| 7 10 | 19 54.58 | −32 6.6 | 1.402 | 2.404 | 5.4 | 18.6 |
| 7 20 | 19 43.75 | −32 48.6 | 1.409 | 2.411 | 5.3 | 18.6 |
| 7 30 | 19 33.37 | −33 13.0 | 1.440 | 2.417 | 8.5 | 18.8 |
| 8 9 | 19 24.82 | −33 19.1 | 1.495 | 2.424 | 12.3 | 19.0 |
| 8 19 | 19 19.06 | −33 9.3 | 1.571 | 2.430 | 15.8 | 19.3 |

**94238** 2001 $CM_{6}$ 7 17.2 147°.92 0°.4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.97 | −21 18.8 | 2.757 | 3.586 | 10.7 | 21.0 |
| 6 20 | 20 6.24 | −21 39.0 | 2.678 | 3.593 | 8.2 | 20.8 |
| 6 30 | 19 59.92 | −22 2.6 | 2.623 | 3.599 | 5.3 | 20.6 |
| 7 10 | 19 52.51 | −22 27.4 | 2.595 | 3.605 | 2.3 | 20.4 |
| 7 20 | 19 44.59 | −22 51.1 | 2.596 | 3.610 | 1.1 | 20.3 |
| 7 30 | 19 36.86 | −23 11.7 | 2.625 | 3.616 | 4.2 | 20.6 |
| 8 9 | 19 30.01 | −23 28.0 | 2.683 | 3.621 | 7.1 | 20.8 |
| 8 19 | 19 24.56 | −23 39.3 | 2.765 | 3.626 | 9.7 | 20.9 |

**261725** 2006 $AX_{41}$ 7 17.2 306°.04 2°.0/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.46 | −12 43.5 | 2.314 | 3.136 | 12.7 | 20.8 |
| 6 20 | 20 4.67 | −13 3.8 | 2.225 | 3.131 | 10.0 | 20.6 |
| 6 30 | 19 59.10 | −13 34.7 | 2.159 | 3.126 | 6.9 | 20.4 |
| 7 10 | 19 52.22 | −14 14.6 | 2.118 | 3.121 | 3.7 | 20.2 |
| 7 20 | 19 44.69 | −15 1.1 | 2.104 | 3.116 | 2.1 | 20.0 |
| 7 30 | 19 37.27 | −15 51.1 | 2.119 | 3.112 | 4.7 | 20.2 |
| 8 9 | 19 30.74 | −16 41.4 | 2.160 | 3.107 | 8.0 | 20.4 |
| 8 19 | 19 25.75 | −17 29.3 | 2.226 | 3.102 | 11.0 | 20.6 |

**185072** 2006 $RV_{57}$ 7 17.2 260°.58 5°.9/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.26 | −33 19.4 | 1.661 | 2.511 | 15.7 | 20.8 |
| 6 20 | 20 14.28 | −34 9.6 | 1.576 | 2.496 | 12.5 | 20.5 |
| 6 30 | 20 6.11 | −34 57.6 | 1.512 | 2.481 | 9.1 | 20.3 |
| 7 10 | 19 55.43 | −35 36.0 | 1.471 | 2.466 | 6.4 | 20.1 |
| 7 20 | 19 43.39 | −35 57.7 | 1.456 | 2.450 | 6.4 | 20.1 |
| 7 30 | 19 31.57 | −35 58.7 | 1.466 | 2.434 | 9.3 | 20.2 |
| 8 9 | 19 21.49 | −35 39.1 | 1.499 | 2.418 | 13.0 | 20.4 |
| 8 19 | 19 14.29 | −35 2.4 | 1.554 | 2.401 | 16.5 | 20.5 |

**93231** 2000 $SK_{146}$ 7 17.2 230°.47 1°.9/18.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.87 | −14 45.7 | 2.307 | 3.124 | 12.9 | 20.8 |
| 6 20 | 20 8.88 | −14 45.9 | 2.207 | 3.111 | 10.2 | 20.6 |
| 6 30 | 20 1.91 | −14 54.0 | 2.130 | 3.097 | 7.0 | 20.4 |
| 7 10 | 19 53.46 | −15 8.8 | 2.079 | 3.083 | 3.6 | 20.2 |
| 7 20 | 19 44.20 | −15 28.7 | 2.055 | 3.068 | 2.0 | 20.0 |
| 7 30 | 19 35.01 | −15 51.5 | 2.060 | 3.052 | 5.0 | 20.2 |
| 8 9 | 19 26.77 | −16 15.1 | 2.093 | 3.035 | 8.5 | 20.4 |
| 8 19 | 19 20.19 | −16 37.8 | 2.150 | 3.018 | 11.7 | 20.6 |

**313140** 2001 $CE_{27}$ 7 17.2 259°.69 2°.5/15.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.49 | −27 13.8 | 2.655 | 3.490 | 10.9 | 21.1 |
| 6 20 | 20 7.78 | −27 52.7 | 2.553 | 3.469 | 8.5 | 20.9 |
| 6 30 | 20 1.18 | −28 33.2 | 2.475 | 3.449 | 5.7 | 20.7 |
| 7 10 | 19 53.15 | −29 11.8 | 2.424 | 3.428 | 3.1 | 20.5 |
| 7 20 | 19 44.33 | −29 45.1 | 2.400 | 3.407 | 2.9 | 20.5 |
| 7 30 | 19 35.54 | −30 10.0 | 2.406 | 3.385 | 5.4 | 20.6 |
| 8 9 | 19 27.60 | −30 25.4 | 2.439 | 3.363 | 8.3 | 20.7 |
| 8 19 | 19 21.22 | −30 31.2 | 2.496 | 3.340 | 11.1 | 20.9 |

**159058** 2004 $TW_{144}$ 7 17.2 207°.96 5°.0/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.01 | − 4 17.0 | 2.762 | 3.540 | 12.0 | 20.6 |
| 6 20 | 20 4.71 | − 3 48.6 | 2.672 | 3.537 | 9.9 | 20.4 |
| 6 30 | 19 58.94 | − 3 31.1 | 2.604 | 3.534 | 7.8 | 20.3 |
| 7 10 | 19 52.12 | − 3 25.4 | 2.560 | 3.530 | 5.8 | 20.1 |
| 7 20 | 19 44.78 | − 3 31.6 | 2.544 | 3.526 | 5.0 | 20.1 |
| 7 30 | 19 37.56 | − 3 48.6 | 2.555 | 3.522 | 5.9 | 20.1 |
| 8 9 | 19 31.08 | − 4 14.6 | 2.593 | 3.518 | 7.9 | 20.3 |
| 8 19 | 19 25.87 | − 4 47.1 | 2.655 | 3.514 | 10.1 | 20.4 |

**9675** 1998 $QK_{36}$ 7 17.2 5°.07 5°.9/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 7.28 | − 3 14.4 | 1.995 | 2.793 | 15.3 | 17.5 |
| 6 20 | 20 3.95 | − 3 8.4 | 1.915 | 2.793 | 12.7 | 17.3 |
| 6 30 | 19 58.70 | − 3 19.7 | 1.856 | 2.794 | 9.9 | 17.1 |
| 7 10 | 19 52.08 | − 3 49.2 | 1.819 | 2.795 | 7.2 | 17.0 |
| 7 20 | 19 44.78 | − 4 35.6 | 1.807 | 2.796 | 5.9 | 16.9 |
| 7 30 | 19 37.66 | − 5 36.0 | 1.821 | 2.798 | 7.0 | 17.0 |
| 8 9 | 19 31.56 | − 6 45.7 | 1.860 | 2.801 | 9.5 | 17.1 |
| 8 19 | 19 27.14 | − 7 59.8 | 1.923 | 2.803 | 12.4 | 17.3 |

**477004** 2008 $YG_{133}$ 7 17.2 248°.06 4°.2/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.25 | −10 4.6 | 2.166 | 2.974 | 13.9 | 21.6 |
| 6 20 | 20 8.50 | − 9 34.5 | 2.067 | 2.959 | 11.3 | 21.4 |
| 6 30 | 20 1.71 | − 9 13.9 | 1.989 | 2.944 | 8.3 | 21.2 |
| 7 10 | 19 53.40 | − 9 3.5 | 1.937 | 2.928 | 5.4 | 21.0 |
| 7 20 | 19 44.27 | − 9 3.2 | 1.911 | 2.912 | 4.2 | 20.9 |
| 7 30 | 19 35.20 | − 9 12.0 | 1.913 | 2.896 | 6.1 | 21.0 |
| 8 9 | 19 27.11 | − 9 28.0 | 1.941 | 2.879 | 9.3 | 21.2 |
| 8 19 | 19 20.73 | − 9 49.0 | 1.993 | 2.862 | 12.5 | 21.3 |

**479242** 2013 $DO_{12}$ 7 17.2 152°.23 0°.3/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.92 | −22 13.1 | 2.625 | 3.454 | 11.2 | 21.6 |
| 6 20 | 20 7.78 | −22 12.8 | 2.545 | 3.458 | 8.6 | 21.4 |
| 6 30 | 20 0.96 | −22 14.6 | 2.488 | 3.463 | 5.6 | 21.2 |
| 7 10 | 19 52.97 | −22 16.7 | 2.458 | 3.468 | 2.4 | 21.0 |
| 7 20 | 19 44.47 | −22 17.4 | 2.457 | 3.472 | 1.0 | 20.9 |
| 7 30 | 19 36.22 | −22 15.4 | 2.485 | 3.476 | 4.3 | 21.2 |
| 8 9 | 19 28.94 | −22 10.2 | 2.540 | 3.479 | 7.4 | 21.4 |
| 8 19 | 19 23.19 | −22 1.6 | 2.620 | 3.483 | 10.1 | 21.6 |

**338678** 2003 $TZ_{4}$ 7 17.2 242°.87 1°.1/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.39 | −23 24.1 | 2.048 | 2.889 | 13.4 | 21.5 |
| 6 20 | 20 9.57 | −23 37.2 | 1.960 | 2.881 | 10.4 | 21.3 |
| 6 30 | 20 2.49 | −23 53.4 | 1.894 | 2.872 | 6.9 | 21.1 |
| 7 10 | 19 53.74 | −24 9.6 | 1.854 | 2.863 | 3.0 | 20.8 |
| 7 20 | 19 44.15 | −24 22.7 | 1.840 | 2.854 | 1.8 | 20.7 |
| 7 30 | 19 34.75 | −24 30.4 | 1.855 | 2.845 | 5.6 | 21.0 |
| 8 9 | 19 26.55 | −24 31.4 | 1.895 | 2.836 | 9.4 | 21.2 |
| 8 19 | 19 20.34 | −24 26.1 | 1.959 | 2.826 | 12.7 | 21.4 |

**510495** 2011 $YA_{26}$ 7 17.2 205°.19 0°.5/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.66 | −17 8.6 | 2.490 | 3.318 | 11.7 | 21.6 |
| 6 20 | 20 5.48 | −17 37.9 | 2.404 | 3.316 | 9.1 | 21.4 |
| 6 30 | 19 59.58 | −18 14.6 | 2.341 | 3.315 | 6.0 | 21.2 |
| 7 10 | 19 52.44 | −18 56.3 | 2.305 | 3.313 | 2.7 | 21.0 |
| 7 20 | 19 44.68 | −19 40.2 | 2.296 | 3.311 | 1.0 | 20.9 |
| 7 30 | 19 37.05 | −20 23.4 | 2.317 | 3.309 | 4.4 | 21.1 |
| 8 9 | 19 30.29 | −21 3.4 | 2.364 | 3.308 | 7.6 | 21.3 |
| 8 19 | 19 25.02 | −21 38.5 | 2.437 | 3.305 | 10.5 | 21.5 |

**135281** 2001 $SZ_{138}$ 7 17.2 323°.22 0°.1/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.13 | −20 20.9 | 1.669 | 2.525 | 15.3 | 19.8 |
| 6 20 | 20 6.81 | −20 26.2 | 1.579 | 2.508 | 11.9 | 19.5 |
| 6 30 | 20 0.97 | −20 37.8 | 1.510 | 2.491 | 7.9 | 19.2 |
| 7 10 | 19 53.19 | −20 53.5 | 1.464 | 2.474 | 3.4 | 18.9 |
| 7 20 | 19 44.35 | −21 10.1 | 1.443 | 2.458 | 1.3 | 18.7 |
| 7 30 | 19 35.65 | −21 24.6 | 1.448 | 2.443 | 6.1 | 19.0 |
| 8 9 | 19 28.25 | −21 35.1 | 1.477 | 2.428 | 10.6 | 19.2 |
| 8 19 | 19 23.09 | −21 40.4 | 1.528 | 2.415 | 14.6 | 19.5 |

**65980** 1998 $HB_{107}$ 7 17.2 35°.00 4°.1/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.25 | −29 2.5 | 1.983 | 2.834 | 13.4 | 19.2 |
| 6 20 | 20 8.08 | −30 8.4 | 1.915 | 2.839 | 10.4 | 19.0 |
| 6 30 | 20 1.58 | −31 15.4 | 1.868 | 2.843 | 7.2 | 18.9 |
| 7 10 | 19 53.36 | −32 17.6 | 1.848 | 2.848 | 4.5 | 18.7 |
| 7 20 | 19 44.31 | −33 9.7 | 1.853 | 2.853 | 4.6 | 18.7 |
| 7 30 | 19 35.52 | −33 47.6 | 1.886 | 2.858 | 7.2 | 18.9 |
| 8 9 | 19 28.03 | −34 10.0 | 1.943 | 2.864 | 10.3 | 19.1 |
| 8 19 | 19 22.65 | −34 17.7 | 2.022 | 2.869 | 13.2 | 19.3 |

**288627** 2004 $PX_{5}$ 7 17.2 292°.13 4°.4/16.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 21.27 | −35 5.9 | 2.264 | 3.091 | 12.8 | 21.0 |
| 6 20 | 20 14.94 | −35 5.3 | 2.157 | 3.063 | 10.3 | 20.8 |
| 6 30 | 20 6.06 | −34 57.9 | 2.072 | 3.036 | 7.4 | 20.5 |
| 7 10 | 19 55.29 | −34 39.2 | 2.014 | 3.008 | 5.0 | 20.3 |
| 7 20 | 19 43.56 | −34 5.7 | 1.983 | 2.980 | 4.7 | 20.3 |
| 7 30 | 19 32.04 | −33 16.5 | 1.980 | 2.951 | 7.0 | 20.4 |
| 8 9 | 19 21.90 | −32 13.3 | 2.005 | 2.923 | 10.2 | 20.5 |
| 8 19 | 19 14.00 | −30 59.9 | 2.053 | 2.894 | 13.3 | 20.6 |

**312414** 2008 $FH_{125}$ 7 17.2 166°.23 5°.0/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.23 | − 4 15.5 | 2.513 | 3.297 | 12.9 | 21.4 |
| 6 20 | 20 5.02 | − 4 1.3 | 2.429 | 3.299 | 10.7 | 21.3 |
| 6 30 | 19 59.20 | − 3 59.9 | 2.366 | 3.300 | 8.2 | 21.1 |
| 7 10 | 19 52.26 | − 4 11.9 | 2.328 | 3.302 | 6.0 | 21.0 |
| 7 20 | 19 44.77 | − 4 36.7 | 2.316 | 3.304 | 5.0 | 20.9 |
| 7 30 | 19 37.43 | − 5 12.5 | 2.332 | 3.305 | 6.0 | 21.0 |
| 8 9 | 19 30.92 | − 5 56.5 | 2.374 | 3.306 | 8.2 | 21.1 |
| 8 19 | 19 25.81 | − 6 45.5 | 2.441 | 3.307 | 10.6 | 21.3 |

**79806** 1998 $VQ_{21}$ 7 17.2 338.°74 4.°9/18.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.75 | −13 18.0 | 1.257 | 2.115 | 19.1 | 18.2 |
| 6 20 | 20 7.81 | −12 25.6 | 1.181 | 2.105 | 15.4 | 17.9 |
| 6 30 | 20 1.86 | −11 44.1 | 1.123 | 2.096 | 11.1 | 17.6 |
| 7 10 | 19 53.63 | −11 15.1 | 1.086 | 2.087 | 6.7 | 17.4 |
| 7 20 | 19 44.20 | −10 59.3 | 1.071 | 2.079 | 5.0 | 17.3 |
| 7 30 | 19 35.05 | −10 56.0 | 1.080 | 2.072 | 8.2 | 17.4 |
| 8 9 | 19 27.60 | −11 2.8 | 1.111 | 2.067 | 12.8 | 17.7 |
| 8 19 | 19 22.87 | −11 16.4 | 1.161 | 2.062 | 17.1 | 17.9 |

**230067** 2000 $TG_{72}$ 7 17.2 251.°56 0.°8/16.8 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.82 | −20 50.7 | 2.001 | 2.840 | 13.8 | 21.2 |
| 6 20 | 20 9.30 | −21 23.8 | 1.906 | 2.826 | 10.7 | 20.9 |
| 6 30 | 20 2.45 | −22 3.9 | 1.833 | 2.810 | 7.1 | 20.7 |
| 7 10 | 19 53.80 | −22 47.6 | 1.785 | 2.795 | 3.0 | 20.4 |
| 7 20 | 19 44.14 | −23 30.7 | 1.764 | 2.779 | 1.6 | 20.3 |
| 7 30 | 19 34.53 | −24 9.2 | 1.771 | 2.762 | 5.7 | 20.5 |
| 8 9 | 19 26.05 | −24 40.6 | 1.805 | 2.746 | 9.7 | 20.7 |
| 8 19 | 19 19.55 | −25 3.7 | 1.861 | 2.729 | 13.3 | 20.9 |

**441328** 2008 $CE_{61}$ 7 17.2 238.°90 4.°5/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.49 | −33 29.4 | 2.265 | 3.102 | 12.4 | 21.5 |
| 6 20 | 20 10.35 | −34 3.8 | 2.184 | 3.098 | 9.8 | 21.3 |
| 6 30 | 20 2.95 | −34 34.8 | 2.127 | 3.093 | 7.1 | 21.1 |
| 7 10 | 19 53.93 | −34 57.6 | 2.095 | 3.088 | 4.9 | 21.0 |
| 7 20 | 19 44.13 | −35 8.5 | 2.090 | 3.084 | 4.8 | 21.0 |
| 7 30 | 19 34.61 | −35 5.2 | 2.112 | 3.079 | 7.0 | 21.1 |
| 8 9 | 19 26.37 | −34 48.0 | 2.160 | 3.074 | 9.8 | 21.2 |
| 8 19 | 19 20.15 | −34 19.0 | 2.231 | 3.068 | 12.5 | 21.4 |

**488263** 2016 $QX_{26}$ 7 17.2 300.°33 5.°3/19.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.89 | − 7 59.9 | 1.712 | 2.535 | 16.4 | 21.2 |
| 6 20 | 20 6.54 | − 7 40.2 | 1.613 | 2.513 | 13.5 | 20.9 |
| 6 30 | 20 0.78 | − 7 35.5 | 1.534 | 2.491 | 10.1 | 20.7 |
| 7 10 | 19 53.14 | − 7 47.1 | 1.478 | 2.469 | 6.8 | 20.4 |
| 7 20 | 19 44.40 | − 8 14.6 | 1.446 | 2.447 | 5.3 | 20.3 |
| 7 30 | 19 35.63 | − 8 55.9 | 1.439 | 2.425 | 7.4 | 20.3 |
| 8 9 | 19 27.97 | − 9 46.9 | 1.456 | 2.404 | 11.1 | 20.5 |
| 8 19 | 19 22.36 | −10 43.1 | 1.495 | 2.382 | 14.8 | 20.7 |

**216509** 2000 $SA_{87}$ 7 17.2 291.°19 6.°5/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.79 | −31 5.7 | 1.375 | 2.242 | 17.3 | 20.1 |
| 6 20 | 20 12.25 | −32 23.1 | 1.294 | 2.225 | 13.8 | 19.8 |
| 6 30 | 20 5.18 | −33 43.4 | 1.233 | 2.208 | 10.0 | 19.5 |
| 7 10 | 19 55.22 | −34 57.3 | 1.194 | 2.191 | 7.0 | 19.3 |
| 7 20 | 19 43.56 | −35 55.0 | 1.179 | 2.175 | 7.2 | 19.3 |
| 7 30 | 19 31.98 | −36 29.2 | 1.187 | 2.158 | 10.6 | 19.4 |
| 8 9 | 19 22.30 | −36 38.2 | 1.217 | 2.142 | 14.8 | 19.6 |
| 8 19 | 19 15.86 | −36 24.7 | 1.266 | 2.125 | 18.8 | 19.8 |

**65642** 1981 $ES_{2}$ 7 17.2 129.°17 1.°8/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.53 | −17 53.7 | 1.508 | 2.353 | 17.2 | 19.5 |
| 6 20 | 20 12.45 | −17 31.0 | 1.437 | 2.357 | 13.4 | 19.2 |
| 6 30 | 20 4.58 | −17 15.3 | 1.386 | 2.361 | 9.1 | 19.0 |
| 7 10 | 19 54.68 | −17 5.4 | 1.358 | 2.365 | 4.3 | 18.7 |
| 7 20 | 19 43.86 | −16 59.4 | 1.355 | 2.369 | 2.1 | 18.6 |
| 7 30 | 19 33.49 | −16 55.8 | 1.378 | 2.373 | 6.5 | 18.9 |
| 8 9 | 19 24.82 | −16 53.2 | 1.426 | 2.376 | 11.1 | 19.1 |
| 8 19 | 19 18.72 | −16 50.6 | 1.496 | 2.379 | 15.1 | 19.4 |

**346745** 2009 $BD_{15}$ 7 17.2 232.°77 0.°4/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.66 | −18 46.8 | 2.066 | 2.902 | 13.5 | 22.2 |
| 6 20 | 20 8.16 | −18 58.6 | 1.980 | 2.897 | 10.5 | 22.0 |
| 6 30 | 20 1.53 | −19 16.9 | 1.916 | 2.891 | 7.0 | 21.7 |
| 7 10 | 19 53.34 | −19 39.4 | 1.877 | 2.886 | 3.1 | 21.5 |
| 7 20 | 19 44.37 | −20 3.5 | 1.865 | 2.880 | 1.2 | 21.3 |
| 7 30 | 19 35.57 | −20 26.4 | 1.881 | 2.874 | 5.2 | 21.6 |
| 8 9 | 19 27.89 | −20 46.2 | 1.923 | 2.868 | 9.0 | 21.8 |
| 8 19 | 19 22.07 | −21 1.6 | 1.988 | 2.861 | 12.3 | 22.0 |

**122961** 2000 $SW_{214}$ 7 17.2 316.°24 0.°5/17.4 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.21 | −18 32.9 | 1.524 | 2.381 | 16.5 | 20.6 |
| 6 20 | 20 7.84 | −18 45.4 | 1.440 | 2.369 | 12.9 | 20.3 |
| 6 30 | 20 1.75 | −19 7.4 | 1.376 | 2.357 | 8.6 | 20.0 |
| 7 10 | 19 53.57 | −19 36.2 | 1.335 | 2.345 | 3.8 | 19.7 |
| 7 20 | 19 44.27 | −20 8.0 | 1.319 | 2.334 | 1.4 | 19.5 |
| 7 30 | 19 35.12 | −20 38.9 | 1.327 | 2.323 | 6.4 | 19.8 |
| 8 9 | 19 27.41 | −21 5.6 | 1.360 | 2.313 | 11.2 | 20.1 |
| 8 19 | 19 22.14 | −21 26.4 | 1.414 | 2.303 | 15.4 | 20.3 |

**370677** 2004 $EK_{62}$ 7 17.2 196.°77 0.°3/17.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.17 | −20 27.3 | 1.947 | 2.783 | 14.2 | 22.0 |
| 6 20 | 20 11.00 | −20 48.0 | 1.863 | 2.781 | 11.0 | 21.8 |
| 6 30 | 20 3.48 | −21 14.7 | 1.801 | 2.778 | 7.3 | 21.5 |
| 7 10 | 19 54.20 | −21 44.3 | 1.765 | 2.774 | 3.1 | 21.3 |
| 7 20 | 19 44.05 | −22 13.2 | 1.755 | 2.770 | 1.3 | 21.1 |
| 7 30 | 19 34.09 | −22 38.3 | 1.774 | 2.766 | 5.6 | 21.4 |
| 8 9 | 19 25.42 | −22 57.5 | 1.818 | 2.760 | 9.6 | 21.6 |
| 8 19 | 19 18.82 | −23 10.2 | 1.887 | 2.754 | 13.1 | 21.8 |

**251681** 1995 $UW_{17}$ 7 17.2 181.°74 0.°1/17.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.77 | −20 9.1 | 1.884 | 2.720 | 14.6 | 21.8 |
| 6 20 | 20 11.48 | −20 21.5 | 1.804 | 2.721 | 11.3 | 21.6 |
| 6 30 | 20 3.78 | −20 39.7 | 1.745 | 2.722 | 7.5 | 21.3 |
| 7 10 | 19 54.32 | −21 0.9 | 1.712 | 2.722 | 3.2 | 21.1 |
| 7 20 | 19 44.01 | −21 21.9 | 1.706 | 2.721 | 1.3 | 20.9 |
| 7 30 | 19 33.97 | −21 39.7 | 1.727 | 2.720 | 5.6 | 21.2 |
| 8 9 | 19 25.28 | −21 52.7 | 1.775 | 2.718 | 9.7 | 21.5 |
| 8 19 | 19 18.75 | −22 0.4 | 1.846 | 2.716 | 13.3 | 21.7 |

**15597** 2000 $GM_{96}$ 7 17.2 237.°08 1.°2/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.84 | −23 9.3 | 2.082 | 2.924 | 13.2 | 18.5 |
| 6 20 | 20 8.32 | −23 33.0 | 1.999 | 2.921 | 10.2 | 18.3 |
| 6 30 | 20 1.65 | −24 0.4 | 1.939 | 2.918 | 6.7 | 18.1 |
| 7 10 | 19 53.40 | −24 28.3 | 1.905 | 2.914 | 3.0 | 17.8 |
| 7 20 | 19 44.38 | −24 53.2 | 1.897 | 2.911 | 1.8 | 17.7 |
| 7 30 | 19 35.57 | −25 12.4 | 1.918 | 2.907 | 5.5 | 18.0 |
| 8 9 | 19 27.92 | −25 24.4 | 1.964 | 2.904 | 9.1 | 18.2 |
| 8 19 | 19 22.19 | −25 29.0 | 2.033 | 2.900 | 12.4 | 18.4 |

**425281** 2009 $WB_{181}$ 7 17.2 81.°72 5.°9/13.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.73 | −31 13.3 | 1.731 | 2.580 | 15.1 | 21.0 |
| 6 20 | 20 12.64 | −32 55.3 | 1.679 | 2.600 | 11.8 | 20.8 |
| 6 30 | 20 4.73 | −34 36.6 | 1.650 | 2.619 | 8.5 | 20.7 |
| 7 10 | 19 54.77 | −36 8.5 | 1.647 | 2.639 | 6.1 | 20.6 |
| 7 20 | 19 43.86 | −37 23.0 | 1.669 | 2.658 | 6.4 | 20.6 |
| 7 30 | 19 33.37 | −38 15.3 | 1.718 | 2.677 | 8.9 | 20.8 |
| 8 9 | 19 24.60 | −38 44.8 | 1.791 | 2.696 | 12.0 | 21.0 |
| 8 19 | 19 18.43 | −38 54.2 | 1.886 | 2.714 | 14.8 | 21.3 |

**389868** 2012 $ST_{3}$ 7 17.2 201.°69 6.°3/14.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.87 | −38 11.0 | 2.300 | 3.127 | 12.6 | 21.8 |
| 6 20 | 20 13.13 | −39 9.0 | 2.223 | 3.124 | 10.2 | 21.7 |
| 6 30 | 20 4.90 | −40 1.4 | 2.170 | 3.120 | 8.0 | 21.5 |
| 7 10 | 19 54.82 | −40 42.1 | 2.141 | 3.116 | 6.4 | 21.4 |
| 7 20 | 19 43.83 | −41 6.1 | 2.140 | 3.111 | 6.6 | 21.4 |
| 7 30 | 19 33.11 | −41 10.7 | 2.164 | 3.106 | 8.4 | 21.5 |
| 8 9 | 19 23.79 | −40 56.5 | 2.214 | 3.100 | 10.8 | 21.7 |
| 8 19 | 19 16.70 | −40 26.4 | 2.286 | 3.094 | 13.2 | 21.8 |

**19404** 1998 $FO_{5}$ 7 17.2 82.°63 1.°0/17.7 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.63 | −16 35.2 | 1.749 | 2.590 | 15.3 | 18.3 |
| 6 20 | 20 8.39 | −16 56.4 | 1.677 | 2.596 | 11.9 | 18.1 |
| 6 30 | 20 1.78 | −17 27.6 | 1.626 | 2.602 | 8.0 | 17.9 |
| 7 10 | 19 53.48 | −18 6.0 | 1.599 | 2.608 | 3.6 | 17.6 |
| 7 20 | 19 44.36 | −18 48.0 | 1.599 | 2.614 | 1.5 | 17.5 |
| 7 30 | 19 35.55 | −19 29.7 | 1.625 | 2.619 | 5.6 | 17.8 |
| 8 9 | 19 28.08 | −20 7.7 | 1.676 | 2.625 | 9.8 | 18.1 |
| 8 19 | 19 22.74 | −20 40.1 | 1.751 | 2.631 | 13.4 | 18.3 |

**345881** 2007 $RT_{30}$ 7 17.2 252.°11 1.°8/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.56 | −26 5.4 | 2.278 | 3.112 | 12.5 | 21.1 |
| 6 20 | 20 11.14 | −26 13.5 | 2.178 | 3.094 | 9.7 | 20.9 |
| 6 30 | 20 3.51 | −26 22.0 | 2.100 | 3.075 | 6.5 | 20.6 |
| 7 10 | 19 54.22 | −26 27.8 | 2.049 | 3.056 | 3.1 | 20.4 |
| 7 20 | 19 44.06 | −26 28.2 | 2.025 | 3.037 | 2.2 | 20.3 |
| 7 30 | 19 34.01 | −26 21.2 | 2.030 | 3.017 | 5.5 | 20.5 |
| 8 9 | 19 25.07 | −26 6.4 | 2.062 | 2.996 | 9.1 | 20.7 |
| 8 19 | 19 18.03 | −25 44.9 | 2.118 | 2.975 | 12.3 | 20.8 |

**183287** Deisenstein 7 17.2 145.°05 0.°7/17.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.45 | −18 28.8 | 1.778 | 2.615 | 15.3 | 21.5 |
| 6 20 | 20 11.26 | −18 34.4 | 1.705 | 2.622 | 11.9 | 21.3 |
| 6 30 | 20 3.63 | −18 47.1 | 1.654 | 2.629 | 7.9 | 21.0 |
| 7 10 | 19 54.25 | −19 4.5 | 1.627 | 2.635 | 3.5 | 20.8 |
| 7 20 | 19 44.08 | −19 23.6 | 1.626 | 2.641 | 1.4 | 20.7 |
| 7 30 | 19 34.26 | −19 41.6 | 1.653 | 2.647 | 5.7 | 21.0 |
| 8 9 | 19 25.87 | −19 56.6 | 1.705 | 2.652 | 9.8 | 21.2 |
| 8 19 | 19 19.71 | −20 7.7 | 1.781 | 2.656 | 13.4 | 21.5 |

**320655** 2008 $CM_{145}$ 7 17.2 359.°37 2.°5/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.64 | −26 34.2 | 0.995 | 1.890 | 20.2 | 19.5 |
| 6 20 | 20 7.75 | −26 24.8 | 0.935 | 1.885 | 15.7 | 19.2 |
| 6 30 | 20 2.16 | −26 15.2 | 0.893 | 1.881 | 10.5 | 18.9 |
| 7 10 | 19 53.82 | −26 1.1 | 0.869 | 1.880 | 4.9 | 18.6 |
| 7 20 | 19 44.24 | −25 38.6 | 0.867 | 1.881 | 3.2 | 18.5 |
| 7 30 | 19 35.30 | −25 6.3 | 0.886 | 1.883 | 8.5 | 18.8 |
| 8 9 | 19 28.70 | −24 25.6 | 0.925 | 1.887 | 13.9 | 19.1 |
| 8 19 | 19 25.47 | −23 39.3 | 0.982 | 1.893 | 18.6 | 19.4 |

**12692** 1989 $BV_{1}$ 7 17.2 120.°28 0.°8/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.44 | −21 56.1 | 1.733 | 2.576 | 15.4 | 18.7 |
| 6 20 | 20 12.06 | −22 14.3 | 1.667 | 2.588 | 11.8 | 18.5 |
| 6 30 | 20 4.16 | −22 37.3 | 1.622 | 2.600 | 7.7 | 18.3 |
| 7 10 | 19 54.47 | −23 1.4 | 1.602 | 2.611 | 3.3 | 18.0 |
| 7 20 | 19 44.01 | −23 22.8 | 1.608 | 2.622 | 1.6 | 17.9 |
| 7 30 | 19 33.99 | −23 38.6 | 1.641 | 2.633 | 6.0 | 18.2 |
| 8 9 | 19 25.54 | −23 47.4 | 1.700 | 2.643 | 10.1 | 18.5 |
| 8 19 | 19 19.44 | −23 49.4 | 1.782 | 2.653 | 13.6 | 18.8 |

**234334** 2001 $EJ_{25}$ 7 17.2 141°.85 3°.5/18.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.20 | −10 3.0 | 2.489 | 3.286 | 12.6 | 21.7 |
| 6 20 | 20 8.73 | − 9 43.6 | 2.413 | 3.299 | 10.1 | 21.6 |
| 6 30 | 20 1.58 | − 9 33.4 | 2.359 | 3.312 | 7.3 | 21.4 |
| 7 10 | 19 53.28 | − 9 32.1 | 2.332 | 3.324 | 4.6 | 21.2 |
| 7 20 | 19 44.48 | − 9 39.1 | 2.333 | 3.335 | 3.5 | 21.2 |
| 7 30 | 19 35.93 | − 9 53.0 | 2.362 | 3.345 | 5.2 | 21.3 |
| 8 9 | 19 28.37 | −10 11.9 | 2.419 | 3.355 | 7.8 | 21.5 |
| 8 19 | 19 22.33 | −10 33.6 | 2.501 | 3.364 | 10.5 | 21.7 |

**335536** 2006 $AJ_{100}$ 7 17.2 330°.13 2°.6/16.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.42 | −27 50.7 | 1.506 | 2.365 | 16.5 | 20.2 |
| 6 20 | 20 11.94 | −27 44.2 | 1.427 | 2.357 | 12.9 | 20.0 |
| 6 30 | 20 4.44 | −27 35.8 | 1.368 | 2.349 | 8.6 | 19.7 |
| 7 10 | 19 54.70 | −27 21.6 | 1.333 | 2.341 | 4.3 | 19.5 |
| 7 20 | 19 43.91 | −26 58.4 | 1.322 | 2.334 | 3.1 | 19.4 |
| 7 30 | 19 33.53 | −26 24.9 | 1.337 | 2.327 | 7.2 | 19.6 |
| 8 9 | 19 24.95 | −25 42.5 | 1.375 | 2.321 | 11.7 | 19.8 |
| 8 19 | 19 19.12 | −24 53.9 | 1.435 | 2.316 | 15.7 | 20.1 |

**198532** 2004 $XS_{106}$ 7 17.2 111°.91 1°.8/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.61 | −24 16.8 | 1.871 | 2.718 | 14.3 | 20.3 |
| 6 20 | 20 9.85 | −24 43.3 | 1.799 | 2.723 | 11.0 | 20.1 |
| 6 30 | 20 2.72 | −25 13.0 | 1.749 | 2.728 | 7.2 | 19.9 |
| 7 10 | 19 53.87 | −25 41.8 | 1.724 | 2.733 | 3.3 | 19.7 |
| 7 20 | 19 44.25 | −26 5.9 | 1.725 | 2.737 | 2.3 | 19.6 |
| 7 30 | 19 34.95 | −26 22.3 | 1.753 | 2.742 | 6.0 | 19.9 |
| 8 9 | 19 27.04 | −26 29.7 | 1.807 | 2.746 | 9.8 | 20.1 |
| 8 19 | 19 21.30 | −26 28.7 | 1.883 | 2.751 | 13.2 | 20.3 |

**207402** 2006 $BR_{80}$ 7 17.2 108°.83 0°.3/17.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.81 | −18 52.3 | 1.400 | 2.254 | 17.8 | 20.7 |
| 6 20 | 20 11.45 | −19 30.8 | 1.334 | 2.261 | 13.7 | 20.5 |
| 6 30 | 20 4.11 | −20 20.3 | 1.287 | 2.268 | 9.0 | 20.2 |
| 7 10 | 19 54.57 | −21 16.0 | 1.264 | 2.274 | 3.8 | 20.0 |
| 7 20 | 19 43.98 | −22 12.0 | 1.266 | 2.281 | 1.6 | 19.8 |
| 7 30 | 19 33.78 | −23 2.4 | 1.293 | 2.287 | 6.9 | 20.2 |
| 8 9 | 19 25.35 | −23 43.6 | 1.344 | 2.293 | 11.6 | 20.5 |
| 8 19 | 19 19.65 | −24 14.1 | 1.417 | 2.299 | 15.8 | 20.7 |

**443616** 2014 $LG_{25}$ 7 17.2 312°.80 6°.6/19.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.00 | − 4 33.9 | 2.097 | 2.893 | 14.7 | 20.4 |
| 6 20 | 20 6.02 | − 3 37.7 | 2.007 | 2.881 | 12.3 | 20.2 |
| 6 30 | 20 0.11 | − 2 53.7 | 1.937 | 2.871 | 9.8 | 20.1 |
| 7 10 | 19 52.77 | − 2 24.1 | 1.890 | 2.860 | 7.5 | 19.9 |
| 7 20 | 19 44.68 | − 2 10.4 | 1.869 | 2.849 | 6.6 | 19.8 |
| 7 30 | 19 36.70 | − 2 12.3 | 1.873 | 2.839 | 7.7 | 19.9 |
| 8 9 | 19 29.69 | − 2 27.9 | 1.902 | 2.829 | 10.1 | 20.0 |
| 8 19 | 19 24.35 | − 2 54.1 | 1.954 | 2.820 | 12.8 | 20.2 |

**122711** 2000 $SM_{32}$ 7 17.2 249°.37 3°.9/19.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.03 | − 9 24.1 | 1.976 | 2.790 | 14.9 | 20.7 |
| 6 20 | 20 7.81 | − 9 23.3 | 1.881 | 2.777 | 12.0 | 20.5 |
| 6 30 | 20 1.42 | − 9 35.9 | 1.806 | 2.764 | 8.7 | 20.3 |
| 7 10 | 19 53.38 | −10 1.9 | 1.756 | 2.751 | 5.5 | 20.1 |
| 7 20 | 19 44.43 | −10 39.6 | 1.732 | 2.738 | 3.9 | 19.9 |
| 7 30 | 19 35.54 | −11 26.2 | 1.736 | 2.724 | 6.1 | 20.0 |
| 8 9 | 19 27.70 | −12 18.0 | 1.765 | 2.710 | 9.6 | 20.2 |
| 8 19 | 19 21.68 | −13 11.1 | 1.818 | 2.696 | 13.1 | 20.4 |

**241652** 2000 $GZ_{175}$ 7 17.2 126°.98 4°.4/19.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.20 | − 7 20.0 | 2.161 | 2.963 | 14.1 | 21.2 |
| 6 20 | 20 6.76 | − 7 11.0 | 2.084 | 2.971 | 11.5 | 21.1 |
| 6 30 | 20 0.48 | − 7 15.1 | 2.029 | 2.978 | 8.5 | 20.9 |
| 7 10 | 19 52.88 | − 7 32.3 | 1.998 | 2.985 | 5.7 | 20.7 |
| 7 20 | 19 44.67 | − 8 1.4 | 1.993 | 2.991 | 4.4 | 20.7 |
| 7 30 | 19 36.68 | − 8 39.8 | 2.015 | 2.998 | 5.9 | 20.8 |
| 8 9 | 19 29.72 | − 9 24.5 | 2.064 | 3.004 | 8.7 | 21.0 |
| 8 19 | 19 24.41 | −10 12.0 | 2.137 | 3.010 | 11.6 | 21.2 |

**34422** 2000 $SX_{14}$ 7 17.2 348°.68 3°.0/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 6.82 | − 9 29.4 | 1.299 | 2.152 | 19.0 | 17.2 |
| 6 20 | 20 4.76 | −10 21.0 | 1.223 | 2.144 | 15.2 | 16.9 |
| 6 30 | 19 59.91 | −11 37.5 | 1.164 | 2.138 | 10.7 | 16.7 |
| 7 10 | 19 52.87 | −13 16.4 | 1.128 | 2.132 | 5.8 | 16.4 |
| 7 20 | 19 44.62 | −15 11.3 | 1.115 | 2.128 | 3.0 | 16.2 |
| 7 30 | 19 36.51 | −17 12.7 | 1.126 | 2.124 | 6.9 | 16.4 |
| 8 9 | 19 29.89 | −19 10.7 | 1.161 | 2.122 | 11.9 | 16.7 |
| 8 19 | 19 25.84 | −20 57.5 | 1.218 | 2.120 | 16.4 | 16.9 |

**59543** 1999 $JU_{31}$ 7 17.2 45°.51 1°.9/16.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.79 | −23 20.8 | 1.514 | 2.374 | 16.4 | 18.9 |
| 6 20 | 20 9.70 | −23 55.6 | 1.451 | 2.382 | 12.6 | 18.6 |
| 6 30 | 20 2.84 | −24 35.7 | 1.409 | 2.390 | 8.3 | 18.4 |
| 7 10 | 19 53.99 | −25 16.0 | 1.389 | 2.399 | 3.7 | 18.2 |
| 7 20 | 19 44.24 | −25 51.5 | 1.395 | 2.408 | 2.6 | 18.1 |
| 7 30 | 19 34.94 | −26 18.0 | 1.426 | 2.417 | 6.8 | 18.4 |
| 8 9 | 19 27.31 | −26 33.8 | 1.482 | 2.427 | 11.1 | 18.7 |
| 8 19 | 19 22.22 | −26 39.1 | 1.559 | 2.437 | 14.8 | 18.9 |

**53478** 2000 $AK_{54}$ 7 17.2 23°.29 0°.7/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 19.04 | −27 4.5 | 1.021 | 1.901 | 20.9 | 17.4 |
| 6 20 | 20 14.44 | −25 58.4 | 0.972 | 1.913 | 16.2 | 17.1 |
| 6 30 | 20 6.12 | −24 48.0 | 0.941 | 1.927 | 10.6 | 16.9 |
| 7 10 | 19 55.33 | −23 32.2 | 0.931 | 1.942 | 4.6 | 16.6 |
| 7 20 | 19 43.80 | −22 12.0 | 0.944 | 1.959 | 1.9 | 16.5 |
| 7 30 | 19 33.41 | −20 51.0 | 0.980 | 1.978 | 7.8 | 16.9 |
| 8 9 | 19 25.67 | −19 33.2 | 1.038 | 1.997 | 13.1 | 17.2 |
| 8 19 | 19 21.36 | −18 22.1 | 1.116 | 2.018 | 17.6 | 17.6 |

**475576** 2006 $UO_{27}$ 7 17.2 240°.29 0°.3/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.17 | −20 51.3 | 2.348 | 3.181 | 12.2 | 22.3 |
| 6 20 | 20 7.60 | −21 7.6 | 2.256 | 3.172 | 9.4 | 22.1 |
| 6 30 | 20 1.10 | −21 28.5 | 2.187 | 3.163 | 6.2 | 21.9 |
| 7 10 | 19 53.19 | −21 51.5 | 2.144 | 3.153 | 2.6 | 21.6 |
| 7 20 | 19 44.55 | −22 14.1 | 2.129 | 3.143 | 1.1 | 21.5 |
| 7 30 | 19 36.03 | −22 33.8 | 2.142 | 3.133 | 4.8 | 21.7 |
| 8 9 | 19 28.49 | −22 49.1 | 2.182 | 3.123 | 8.3 | 21.9 |
| 8 19 | 19 22.61 | −22 59.2 | 2.246 | 3.113 | 11.4 | 22.1 |

**469694** 2005 $BH_{24}$ 7 17.2 229°.45 0°.8/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.00 | −23 7.5 | 2.543 | 3.369 | 11.6 | 22.2 |
| 6 20 | 20 10.44 | −23 17.3 | 2.442 | 3.354 | 9.0 | 22.0 |
| 6 30 | 20 2.93 | −23 29.5 | 2.364 | 3.339 | 5.9 | 21.8 |
| 7 10 | 19 53.97 | −23 41.4 | 2.314 | 3.323 | 2.6 | 21.5 |
| 7 20 | 19 44.26 | −23 50.8 | 2.292 | 3.306 | 1.4 | 21.4 |
| 7 30 | 19 34.63 | −23 55.7 | 2.299 | 3.288 | 4.8 | 21.6 |
| 8 9 | 19 25.96 | −23 55.2 | 2.335 | 3.270 | 8.1 | 21.8 |
| 8 19 | 19 18.93 | −23 49.4 | 2.395 | 3.251 | 11.1 | 21.9 |

**282919** 2007 $NW_{6}$ 7 17.2 328°.08 3°.0/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.84 | −20 4.0 | 1.365 | 2.236 | 17.2 | 19.2 |
| 6 20 | 20 5.90 | −21 51.0 | 1.275 | 2.213 | 13.3 | 18.9 |
| 6 30 | 20 0.96 | −23 57.9 | 1.205 | 2.190 | 8.8 | 18.6 |
| 7 10 | 19 53.49 | −26 17.3 | 1.159 | 2.169 | 4.3 | 18.3 |
| 7 20 | 19 44.38 | −28 38.1 | 1.138 | 2.148 | 4.0 | 18.2 |
| 7 30 | 19 35.06 | −30 48.0 | 1.142 | 2.128 | 8.8 | 18.4 |
| 8 9 | 19 27.15 | −32 37.7 | 1.169 | 2.110 | 13.8 | 18.7 |
| 8 19 | 19 21.99 | −34 2.6 | 1.216 | 2.092 | 18.3 | 18.9 |

**397111** 2005 $VN_{35}$ 7 17.2 343°.66 2°.5/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.35 | −14 24.8 | 1.997 | 2.829 | 14.1 | 21.1 |
| 6 20 | 20 6.39 | −14 9.6 | 1.915 | 2.826 | 11.1 | 20.9 |
| 6 30 | 20 0.38 | −14 2.9 | 1.854 | 2.823 | 7.7 | 20.6 |
| 7 10 | 19 52.90 | −14 3.9 | 1.817 | 2.820 | 4.2 | 20.4 |
| 7 20 | 19 44.71 | −14 11.5 | 1.806 | 2.817 | 2.6 | 20.3 |
| 7 30 | 19 36.73 | −14 23.9 | 1.823 | 2.815 | 5.4 | 20.5 |
| 8 9 | 19 29.85 | −14 39.1 | 1.865 | 2.813 | 9.0 | 20.7 |
| 8 19 | 19 24.78 | −14 55.1 | 1.931 | 2.812 | 12.3 | 20.9 |

**180411** 2004 $BY_{43}$ 7 17.2 190°.22 4°.2/15.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.97 | −30 43.2 | 1.743 | 2.588 | 15.2 | 20.7 |
| 6 20 | 20 14.37 | −31 11.2 | 1.668 | 2.588 | 11.9 | 20.5 |
| 6 30 | 20 5.90 | −31 37.1 | 1.614 | 2.587 | 8.3 | 20.3 |
| 7 10 | 19 55.34 | −31 55.1 | 1.585 | 2.586 | 5.0 | 20.1 |
| 7 20 | 19 43.80 | −32 0.4 | 1.581 | 2.584 | 4.6 | 20.1 |
| 7 30 | 19 32.68 | −31 50.7 | 1.604 | 2.583 | 7.7 | 20.2 |
| 8 9 | 19 23.28 | −31 26.6 | 1.652 | 2.580 | 11.3 | 20.4 |
| 8 19 | 19 16.50 | −30 51.0 | 1.722 | 2.578 | 14.8 | 20.7 |

**478716** 2012 $UU_{48}$ 7 17.2 343°.33 2°.1/16.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.81 | −23 50.3 | 1.287 | 2.165 | 17.6 | 20.8 |
| 6 20 | 20 6.53 | −24 13.8 | 1.211 | 2.152 | 13.7 | 20.6 |
| 6 30 | 20 1.18 | −24 43.1 | 1.155 | 2.141 | 9.1 | 20.3 |
| 7 10 | 19 53.46 | −25 13.5 | 1.120 | 2.131 | 4.1 | 20.0 |
| 7 20 | 19 44.49 | −25 39.7 | 1.108 | 2.122 | 2.8 | 19.9 |
| 7 30 | 19 35.79 | −25 57.1 | 1.120 | 2.114 | 7.7 | 20.1 |
| 8 9 | 19 28.84 | −26 3.7 | 1.153 | 2.107 | 12.6 | 20.4 |
| 8 19 | 19 24.70 | −25 59.4 | 1.206 | 2.102 | 17.0 | 20.6 |

**10414** 1998 $QJ_{37}$ 7 17.2 48°.94 4°.1/19.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.95 | − 7 44.3 | 2.268 | 3.073 | 13.4 | 18.1 |
| 6 20 | 20 5.01 | − 7 35.8 | 2.188 | 3.077 | 10.9 | 17.9 |
| 6 30 | 19 59.34 | − 7 39.5 | 2.129 | 3.080 | 8.1 | 17.8 |
| 7 10 | 19 52.43 | − 7 55.5 | 2.095 | 3.083 | 5.4 | 17.6 |
| 7 20 | 19 44.94 | − 8 22.5 | 2.087 | 3.087 | 4.1 | 17.5 |
| 7 30 | 19 37.63 | − 8 58.6 | 2.107 | 3.090 | 5.6 | 17.6 |
| 8 9 | 19 31.25 | − 9 40.6 | 2.152 | 3.094 | 8.3 | 17.8 |
| 8 19 | 19 26.41 | −10 25.4 | 2.222 | 3.098 | 11.1 | 18.0 |

**504956** 2011 $FA_{59}$ 7 17.2 112°.97 8°.7/21.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.64 | + 1 26.1 | 1.824 | 2.598 | 17.4 | 22.0 |
| 6 20 | 20 7.46 | + 2 9.6 | 1.751 | 2.603 | 14.9 | 21.8 |
| 6 30 | 20 1.13 | + 2 32.9 | 1.696 | 2.609 | 12.2 | 21.7 |
| 7 10 | 19 53.25 | + 2 33.4 | 1.663 | 2.614 | 9.9 | 21.5 |
| 7 20 | 19 44.63 | + 2 10.4 | 1.653 | 2.619 | 8.7 | 21.5 |
| 7 30 | 19 36.24 | + 1 25.6 | 1.668 | 2.623 | 9.4 | 21.5 |
| 8 9 | 19 29.04 | + 0 23.7 | 1.707 | 2.628 | 11.5 | 21.7 |
| 8 19 | 19 23.76 | − 0 49.4 | 1.768 | 2.633 | 14.0 | 21.8 |

**55994** 1998 $SR_{105}$ 7 17.2 345°.51 0°.9/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.71 | −21 57.1 | 1.977 | 2.827 | 13.5 | 18.9 |
| 6 20 | 20 6.06 | −22 22.5 | 1.897 | 2.822 | 10.4 | 18.7 |
| 6 30 | 20 0.27 | −22 53.2 | 1.838 | 2.817 | 6.8 | 18.5 |
| 7 10 | 19 52.90 | −23 25.8 | 1.803 | 2.813 | 3.0 | 18.2 |
| 7 20 | 19 44.76 | −23 56.9 | 1.796 | 2.810 | 1.6 | 18.1 |
| 7 30 | 19 36.81 | −24 23.3 | 1.815 | 2.807 | 5.5 | 18.4 |
| 8 9 | 19 30.01 | −24 43.0 | 1.859 | 2.804 | 9.2 | 18.6 |
| 8 19 | 19 25.12 | −24 55.3 | 1.927 | 2.802 | 12.6 | 18.8 |

**312416** 2008 $GT_6$ 7 17.2 144°.20 2°.3/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.69 | −26 48.6 | 2.505 | 3.342 | 11.4 | 21.7 |
| 6 20 | 20 7.87 | −27 23.9 | 2.430 | 3.347 | 8.8 | 21.5 |
| 6 30 | 20 1.21 | −28 0.3 | 2.378 | 3.353 | 5.9 | 21.4 |
| 7 10 | 19 53.23 | −28 34.1 | 2.352 | 3.357 | 3.1 | 21.2 |
| 7 20 | 19 44.65 | −29 2.0 | 2.354 | 3.362 | 2.7 | 21.2 |
| 7 30 | 19 36.29 | −29 21.8 | 2.385 | 3.367 | 5.3 | 21.4 |
| 8 9 | 19 28.96 | −29 32.5 | 2.443 | 3.371 | 8.2 | 21.5 |
| 8 19 | 19 23.27 | −29 34.3 | 2.525 | 3.375 | 10.8 | 21.7 |

**164637** 1995 $CC_{10}$ 7 17.2 3°.10 1°.9/16.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.67 | −23 13.5 | 1.375 | 2.237 | 17.6 | 20.4 |
| 6 20 | 20 11.57 | −23 43.3 | 1.305 | 2.237 | 13.6 | 20.1 |
| 6 30 | 20 4.34 | −24 19.3 | 1.255 | 2.237 | 9.0 | 19.8 |
| 7 10 | 19 54.77 | −24 56.2 | 1.227 | 2.237 | 4.0 | 19.6 |
| 7 20 | 19 44.05 | −25 28.5 | 1.224 | 2.237 | 2.6 | 19.5 |
| 7 30 | 19 33.70 | −25 51.5 | 1.245 | 2.237 | 7.4 | 19.8 |
| 8 9 | 19 25.20 | −26 3.4 | 1.290 | 2.238 | 12.2 | 20.0 |
| 8 19 | 19 19.56 | −26 4.5 | 1.356 | 2.238 | 16.4 | 20.3 |

**396976** 2005 $SX_{97}$ 7 17.2 284°.94 5°.8/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.85 | − 4 40.9 | 2.236 | 3.028 | 14.0 | 21.0 |
| 6 20 | 20 5.78 | − 4 4.0 | 2.149 | 3.023 | 11.7 | 20.8 |
| 6 30 | 19 59.89 | − 3 39.8 | 2.083 | 3.018 | 9.1 | 20.6 |
| 7 10 | 19 52.70 | − 3 29.8 | 2.040 | 3.013 | 6.8 | 20.5 |
| 7 20 | 19 44.85 | − 3 34.3 | 2.023 | 3.008 | 5.8 | 20.4 |
| 7 30 | 19 37.14 | − 3 52.3 | 2.033 | 3.004 | 6.9 | 20.4 |
| 8 9 | 19 30.35 | − 4 21.3 | 2.068 | 2.999 | 9.3 | 20.6 |
| 8 19 | 19 25.13 | − 4 58.0 | 2.127 | 2.995 | 11.9 | 20.7 |

**229519** 2005 $WM_{178}$ 7 17.2 176°.74 2°.1/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.96 | −16 26.3 | 2.123 | 2.943 | 13.7 | 20.2 |
| 6 20 | 20 11.27 | −15 57.7 | 2.039 | 2.945 | 10.8 | 20.0 |
| 6 30 | 20 3.49 | −15 34.5 | 1.978 | 2.946 | 7.4 | 19.8 |
| 7 10 | 19 54.23 | −15 16.1 | 1.943 | 2.947 | 3.8 | 19.5 |
| 7 20 | 19 44.28 | −15 1.9 | 1.936 | 2.948 | 2.2 | 19.4 |
| 7 30 | 19 34.62 | −14 50.9 | 1.957 | 2.948 | 5.3 | 19.6 |
| 8 9 | 19 26.14 | −14 42.4 | 2.005 | 2.947 | 8.8 | 19.9 |
| 8 19 | 19 19.56 | −14 35.7 | 2.078 | 2.946 | 12.1 | 20.1 |

**178563** 1999 $VK_{167}$ 7 17.2 241°.29 0°.5/17.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.26 | −21 1.1 | 1.785 | 2.627 | 15.1 | 21.3 |
| 6 20 | 20 11.45 | −21 18.1 | 1.694 | 2.615 | 11.7 | 21.0 |
| 6 30 | 20 4.04 | −21 41.3 | 1.624 | 2.602 | 7.8 | 20.8 |
| 7 10 | 19 54.61 | −22 7.4 | 1.579 | 2.589 | 3.3 | 20.5 |
| 7 20 | 19 44.10 | −22 32.7 | 1.561 | 2.576 | 1.5 | 20.3 |
| 7 30 | 19 33.69 | −22 53.7 | 1.569 | 2.562 | 6.1 | 20.6 |
| 8 9 | 19 24.63 | −23 8.4 | 1.603 | 2.547 | 10.5 | 20.8 |
| 8 19 | 19 17.84 | −23 16.1 | 1.660 | 2.532 | 14.4 | 21.0 |

**39192** 2000 $WL_{186}$ 7 17.2 12°.95 1°.3/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.92 | −15 3.8 | 1.969 | 2.806 | 14.0 | 18.3 |
| 6 20 | 20 5.35 | −15 31.5 | 1.892 | 2.808 | 10.9 | 18.1 |
| 6 30 | 19 59.75 | −16 9.9 | 1.836 | 2.810 | 7.4 | 17.9 |
| 7 10 | 19 52.67 | −16 56.5 | 1.806 | 2.813 | 3.5 | 17.7 |
| 7 20 | 19 44.87 | −17 47.9 | 1.802 | 2.816 | 1.5 | 17.5 |
| 7 30 | 19 37.28 | −18 40.3 | 1.825 | 2.819 | 5.1 | 17.8 |
| 8 9 | 19 30.78 | −19 30.1 | 1.874 | 2.823 | 8.8 | 18.0 |
| 8 19 | 19 26.09 | −20 14.7 | 1.946 | 2.828 | 12.2 | 18.2 |

**142229** 2002 $RE_{81}$ 7 17.2 358°.58 2°.6/16.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.96 | −24 24.9 | 1.051 | 1.942 | 19.7 | 19.4 |
| 6 20 | 20 7.13 | −24 50.1 | 0.990 | 1.937 | 15.3 | 19.2 |
| 6 30 | 20 1.78 | −25 21.0 | 0.946 | 1.934 | 10.1 | 18.9 |
| 7 10 | 19 53.76 | −25 52.0 | 0.922 | 1.933 | 4.7 | 18.6 |
| 7 20 | 19 44.45 | −26 16.6 | 0.920 | 1.933 | 3.4 | 18.5 |
| 7 30 | 19 35.62 | −26 29.9 | 0.939 | 1.934 | 8.5 | 18.8 |
| 8 9 | 19 28.96 | −26 30.2 | 0.979 | 1.937 | 13.8 | 19.1 |
| 8 19 | 19 25.54 | −26 18.6 | 1.037 | 1.941 | 18.4 | 19.4 |

**106923** 2000 $YM_{57}$ 7 17.2 163°.14 0°.8/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.59 | −17 27.1 | 1.815 | 2.649 | 15.2 | 20.8 |
| 6 20 | 20 11.41 | −17 44.2 | 1.739 | 2.654 | 11.8 | 20.5 |
| 6 30 | 20 3.80 | −18 10.0 | 1.684 | 2.659 | 7.9 | 20.3 |
| 7 10 | 19 54.43 | −18 41.6 | 1.654 | 2.663 | 3.5 | 20.1 |
| 7 20 | 19 44.21 | −19 15.6 | 1.651 | 2.666 | 1.4 | 19.9 |
| 7 30 | 19 34.28 | −19 48.6 | 1.675 | 2.669 | 5.7 | 20.2 |
| 8 9 | 19 25.71 | −20 17.8 | 1.726 | 2.671 | 9.8 | 20.5 |
| 8 19 | 19 19.33 | −20 41.8 | 1.799 | 2.673 | 13.4 | 20.7 |

**3424** Nušl 7 17.2 266°.87 2°.5/18.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.92 | −12 58.6 | 1.761 | 2.594 | 15.6 | 16.9 |
| 6 20 | 20 7.99 | −13 10.4 | 1.675 | 2.587 | 12.4 | 16.6 |
| 6 30 | 20 1.68 | −13 35.1 | 1.610 | 2.580 | 8.6 | 16.4 |
| 7 10 | 19 53.58 | −14 11.3 | 1.568 | 2.572 | 4.6 | 16.1 |
| 7 20 | 19 44.52 | −14 56.2 | 1.552 | 2.564 | 2.6 | 16.0 |
| 7 30 | 19 35.59 | −15 45.8 | 1.563 | 2.557 | 5.9 | 16.2 |
| 8 9 | 19 27.88 | −16 36.1 | 1.599 | 2.549 | 10.0 | 16.4 |
| 8 19 | 19 22.24 | −17 23.7 | 1.657 | 2.541 | 13.8 | 16.6 |

**147020** 2002 $QM_{90}$ 7 17.2 276°.42 1°.9/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.56 | −22 33.3 | 1.616 | 2.469 | 15.8 | 20.8 |
| 6 20 | 20 10.61 | −23 18.4 | 1.522 | 2.449 | 12.4 | 20.5 |
| 6 30 | 20 3.77 | −24 12.1 | 1.449 | 2.429 | 8.2 | 20.2 |
| 7 10 | 19 54.62 | −25 9.4 | 1.399 | 2.409 | 3.8 | 19.9 |
| 7 20 | 19 44.08 | −26 4.2 | 1.376 | 2.388 | 2.7 | 19.8 |
| 7 30 | 19 33.51 | −26 50.8 | 1.378 | 2.367 | 7.2 | 20.0 |
| 8 9 | 19 24.31 | −27 25.6 | 1.404 | 2.346 | 11.8 | 20.2 |
| 8 19 | 19 17.62 | −27 47.7 | 1.452 | 2.325 | 16.0 | 20.4 |

**216055** 2006 $PB_{20}$ 7 17.2 314°.48 3°.2/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.99 | −12 10.4 | 1.310 | 2.164 | 18.8 | 20.0 |
| 6 20 | 20 7.32 | −12 20.3 | 1.227 | 2.150 | 15.0 | 19.7 |
| 6 30 | 20 1.71 | −12 48.2 | 1.162 | 2.136 | 10.6 | 19.4 |
| 7 10 | 19 53.74 | −13 33.3 | 1.118 | 2.123 | 5.8 | 19.1 |
| 7 20 | 19 44.44 | −14 32.0 | 1.098 | 2.110 | 3.3 | 19.0 |
| 7 30 | 19 35.21 | −15 38.9 | 1.101 | 2.098 | 7.3 | 19.1 |
| 8 9 | 19 27.51 | −16 47.3 | 1.127 | 2.086 | 12.3 | 19.4 |
| 8 19 | 19 22.47 | −17 51.9 | 1.174 | 2.075 | 17.0 | 19.6 |

**123888** 2001 $DJ_{49}$ 7 17.2 149°.26 1°.6/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.01 | −23 32.1 | 2.446 | 3.283 | 11.6 | 20.0 |
| 6 20 | 20 6.66 | −24 16.5 | 2.366 | 3.285 | 8.9 | 19.9 |
| 6 30 | 20 0.47 | −25 4.6 | 2.310 | 3.287 | 5.8 | 19.7 |
| 7 10 | 19 52.96 | −25 53.0 | 2.281 | 3.289 | 2.7 | 19.5 |
| 7 20 | 19 44.80 | −26 38.1 | 2.279 | 3.291 | 2.1 | 19.4 |
| 7 30 | 19 36.80 | −27 16.6 | 2.306 | 3.292 | 5.0 | 19.6 |
| 8 9 | 19 29.76 | −27 46.8 | 2.360 | 3.294 | 8.1 | 19.8 |
| 8 19 | 19 24.32 | −28 8.1 | 2.438 | 3.295 | 10.9 | 20.0 |

**102548** 1999 $UF_{16}$ 7 17.2 183°.72 5°.0/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.84 | −31 0.5 | 1.659 | 2.509 | 15.6 | 19.4 |
| 6 20 | 20 13.73 | −31 51.4 | 1.587 | 2.509 | 12.3 | 19.1 |
| 6 30 | 20 5.64 | −32 41.4 | 1.537 | 2.509 | 8.7 | 18.9 |
| 7 10 | 19 55.31 | −33 23.5 | 1.510 | 2.509 | 5.6 | 18.7 |
| 7 20 | 19 43.90 | −33 51.5 | 1.509 | 2.508 | 5.5 | 18.7 |
| 7 30 | 19 32.87 | −34 1.7 | 1.534 | 2.508 | 8.4 | 18.9 |
| 8 9 | 19 23.59 | −33 54.0 | 1.583 | 2.506 | 12.1 | 19.1 |
| 8 19 | 19 17.04 | −33 31.3 | 1.653 | 2.505 | 15.4 | 19.3 |

**321193** 2008 $XC_{52}$ 7 17.2 316°.04 1°.3/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.14 | −17 45.0 | 1.727 | 2.572 | 15.3 | 20.8 |
| 6 20 | 20 8.20 | −17 38.1 | 1.643 | 2.564 | 12.0 | 20.5 |
| 6 30 | 20 1.82 | −17 38.5 | 1.580 | 2.556 | 8.1 | 20.3 |
| 7 10 | 19 53.64 | −17 44.9 | 1.540 | 2.548 | 3.8 | 20.0 |
| 7 20 | 19 44.54 | −17 54.9 | 1.526 | 2.541 | 1.7 | 19.9 |
| 7 30 | 19 35.63 | −18 6.3 | 1.538 | 2.533 | 5.8 | 20.1 |
| 8 9 | 19 28.05 | −18 17.1 | 1.575 | 2.526 | 10.1 | 20.4 |
| 8 19 | 19 22.61 | −18 25.9 | 1.635 | 2.520 | 13.9 | 20.6 |

**417893** 2007 $RX_{38}$ 7 17.2 338°.31 3°.5/16.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.75 | −26 16.8 | 0.946 | 1.846 | 20.5 | 20.1 |
| 6 20 | 20 6.80 | −26 34.6 | 0.876 | 1.828 | 16.1 | 19.8 |
| 6 30 | 20 1.98 | −26 55.9 | 0.822 | 1.812 | 10.9 | 19.4 |
| 7 10 | 19 54.03 | −27 14.6 | 0.786 | 1.797 | 5.4 | 19.1 |
| 7 20 | 19 44.35 | −27 23.9 | 0.771 | 1.784 | 4.2 | 19.0 |
| 7 30 | 19 34.98 | −27 18.8 | 0.776 | 1.772 | 9.6 | 19.2 |
| 8 9 | 19 27.92 | −26 58.4 | 0.800 | 1.763 | 15.4 | 19.5 |
| 8 19 | 19 24.52 | −26 25.1 | 0.841 | 1.755 | 20.6 | 19.8 |

**203394** 2001 $XT_{141}$ 7 17.2 303°.69 1°.2/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.11 | −16 8.3 | 2.716 | 3.540 | 11.0 | 20.9 |
| 6 20 | 20 4.20 | −16 12.0 | 2.625 | 3.534 | 8.6 | 20.7 |
| 6 30 | 19 58.75 | −16 21.7 | 2.557 | 3.528 | 5.8 | 20.5 |
| 7 10 | 19 52.21 | −16 36.3 | 2.515 | 3.521 | 2.8 | 20.3 |
| 7 20 | 19 45.12 | −16 54.3 | 2.501 | 3.515 | 1.4 | 20.2 |
| 7 30 | 19 38.16 | −17 13.9 | 2.516 | 3.509 | 4.1 | 20.4 |
| 8 9 | 19 31.97 | −17 33.4 | 2.557 | 3.503 | 7.0 | 20.6 |
| 8 19 | 19 27.09 | −17 51.6 | 2.624 | 3.497 | 9.7 | 20.7 |

**283117** 2008 $VU$ 7 17.3 211°.60 9°.3/21.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.15 | + 3 20.1 | 2.085 | 2.837 | 16.1 | 20.6 |
| 6 20 | 20 7.69 | + 4 26.7 | 2.002 | 2.834 | 14.1 | 20.5 |
| 6 30 | 20 1.25 | + 5 16.0 | 1.938 | 2.830 | 11.9 | 20.3 |
| 7 10 | 19 53.34 | + 5 44.6 | 1.896 | 2.827 | 10.1 | 20.2 |
| 7 20 | 19 44.69 | + 5 50.3 | 1.878 | 2.823 | 9.3 | 20.1 |
| 7 30 | 19 36.17 | + 5 33.2 | 1.885 | 2.819 | 9.9 | 20.2 |
| 8 9 | 19 28.66 | + 4 56.4 | 1.915 | 2.815 | 11.5 | 20.3 |
| 8 19 | 19 22.87 | + 4 4.3 | 1.968 | 2.811 | 13.7 | 20.4 |

**121491** 1999 $TV_{256}$ 7 17.3 295°.61 0°.8/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.19 | −22 20.5 | 2.190 | 3.031 | 12.7 | 20.3 |
| 6 20 | 20 7.04 | −22 39.0 | 2.101 | 3.022 | 9.8 | 20.1 |
| 6 30 | 20 0.85 | −23 1.7 | 2.036 | 3.014 | 6.4 | 19.8 |
| 7 10 | 19 53.18 | −23 25.6 | 1.995 | 3.005 | 2.8 | 19.6 |
| 7 20 | 19 44.75 | −23 47.8 | 1.982 | 2.996 | 1.5 | 19.5 |
| 7 30 | 19 36.47 | −24 5.7 | 1.997 | 2.988 | 5.1 | 19.7 |
| 8 9 | 19 29.25 | −24 17.8 | 2.037 | 2.979 | 8.7 | 19.9 |
| 8 19 | 19 23.78 | −24 23.7 | 2.102 | 2.971 | 11.9 | 20.1 |

**480002** 2014 $KS_{82}$ 7 17.3 57°.70 7°.5/12.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.18 | −38 13.5 | 2.036 | 2.875 | 13.6 | 20.5 |
| 6 20 | 20 11.39 | −39 58.7 | 1.987 | 2.892 | 11.1 | 20.4 |
| 6 30 | 20 3.96 | −41 38.0 | 1.960 | 2.908 | 8.8 | 20.3 |
| 7 10 | 19 54.56 | −43 3.2 | 1.959 | 2.925 | 7.5 | 20.2 |
| 7 20 | 19 44.23 | −44 7.8 | 1.983 | 2.942 | 8.0 | 20.3 |
| 7 30 | 19 34.23 | −44 48.3 | 2.033 | 2.959 | 9.7 | 20.4 |
| 8 9 | 19 25.76 | −45 5.0 | 2.106 | 2.977 | 11.9 | 20.6 |
| 8 19 | 19 19.71 | −45 1.0 | 2.200 | 2.994 | 14.0 | 20.8 |

**48366** 3284 $T\text{-}_2$ 7 17.3 199°.56 1°.1/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.52 | −16 10.5 | 1.994 | 2.820 | 14.3 | 20.0 |
| 6 20 | 20 10.50 | −16 31.4 | 1.907 | 2.817 | 11.2 | 19.7 |
| 6 30 | 20 3.21 | −17 1.6 | 1.841 | 2.813 | 7.5 | 19.5 |
| 7 10 | 19 54.22 | −17 39.0 | 1.801 | 2.808 | 3.5 | 19.3 |
| 7 20 | 19 44.36 | −18 20.1 | 1.788 | 2.803 | 1.4 | 19.1 |
| 7 30 | 19 34.63 | −19 1.4 | 1.804 | 2.797 | 5.4 | 19.4 |
| 8 9 | 19 26.07 | −19 39.9 | 1.846 | 2.790 | 9.3 | 19.6 |
| 8 19 | 19 19.47 | −20 13.6 | 1.912 | 2.783 | 12.8 | 19.8 |

**246289** 2007 $TC_{73}$ 7 17.3 91°.23 4°.0/15.6 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.93 | −30 26.0 | 1.950 | 2.795 | 13.8 | 21.1 |
| 6 20 | 20 10.91 | −31 5.6 | 1.883 | 2.804 | 10.8 | 20.9 |
| 6 30 | 20 3.46 | −31 43.8 | 1.839 | 2.812 | 7.5 | 20.7 |
| 7 10 | 19 54.29 | −32 15.3 | 1.820 | 2.820 | 4.6 | 20.6 |
| 7 20 | 19 44.36 | −32 35.7 | 1.827 | 2.828 | 4.4 | 20.6 |
| 7 30 | 19 34.83 | −32 42.5 | 1.861 | 2.836 | 7.0 | 20.7 |
| 8 9 | 19 26.76 | −32 35.7 | 1.920 | 2.844 | 10.2 | 20.9 |
| 8 19 | 19 20.92 | −32 17.2 | 2.002 | 2.852 | 13.2 | 21.2 |

**97869** 2000 $QS_{32}$ 7 17.3 15°.72 6°.4/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.58 | −28 26.4 | 0.920 | 1.820 | 20.9 | 17.6 |
| 6 20 | 20 8.10 | −29 47.1 | 0.874 | 1.824 | 16.3 | 17.4 |
| 6 30 | 20 2.64 | −31 11.0 | 0.844 | 1.831 | 11.3 | 17.1 |
| 7 10 | 19 54.20 | −32 27.0 | 0.834 | 1.839 | 7.2 | 17.0 |
| 7 20 | 19 44.39 | −33 24.1 | 0.845 | 1.849 | 7.2 | 17.0 |
| 7 30 | 19 35.31 | −33 55.2 | 0.875 | 1.860 | 11.2 | 17.3 |
| 8 9 | 19 28.81 | −33 59.9 | 0.925 | 1.872 | 15.8 | 17.6 |
| 8 19 | 19 25.98 | −33 42.2 | 0.992 | 1.886 | 20.0 | 17.9 |

**445793** 2012 $AO_{21}$ 7 17.3 136°.04 0°.7/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.44 | −19 36.2 | 2.705 | 3.527 | 11.1 | 20.8 |
| 6 20 | 20 8.13 | −19 20.8 | 2.625 | 3.534 | 8.6 | 20.6 |
| 6 30 | 20 1.23 | −19 8.3 | 2.570 | 3.542 | 5.7 | 20.5 |
| 7 10 | 19 53.24 | −18 57.7 | 2.541 | 3.549 | 2.6 | 20.3 |
| 7 20 | 19 44.79 | −18 47.9 | 2.541 | 3.556 | 1.0 | 20.1 |
| 7 30 | 19 36.59 | −18 38.1 | 2.571 | 3.563 | 4.1 | 20.4 |
| 8 9 | 19 29.33 | −18 27.8 | 2.628 | 3.569 | 7.1 | 20.6 |
| 8 19 | 19 23.54 | −18 16.7 | 2.711 | 3.576 | 9.7 | 20.8 |

**475440** 2006 $QC_{185}$ 7 17.3 325°.22 1°.3/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.18 | −23 13.2 | 1.867 | 2.717 | 14.2 | 21.1 |
| 6 20 | 20 8.13 | −23 34.8 | 1.786 | 2.712 | 10.9 | 20.9 |
| 6 30 | 20 1.74 | −24 0.4 | 1.727 | 2.707 | 7.2 | 20.7 |
| 7 10 | 19 53.61 | −24 26.8 | 1.692 | 2.702 | 3.2 | 20.4 |
| 7 20 | 19 44.62 | −24 50.1 | 1.683 | 2.697 | 2.0 | 20.3 |
| 7 30 | 19 35.85 | −25 7.5 | 1.701 | 2.693 | 5.9 | 20.6 |
| 8 9 | 19 28.37 | −25 17.1 | 1.745 | 2.688 | 9.8 | 20.8 |
| 8 19 | 19 22.97 | −25 19.1 | 1.811 | 2.684 | 13.3 | 21.0 |

**364152** 2006 $GW_9$ 7 17.3 16°.62 0°.3/17.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.76 | −17 58.1 | 1.083 | 1.961 | 20.1 | 20.8 |
| 6 20 | 20 8.25 | −18 26.1 | 1.024 | 1.964 | 15.7 | 20.6 |
| 6 30 | 20 2.39 | −19 8.2 | 0.983 | 1.969 | 10.4 | 20.3 |
| 7 10 | 19 54.03 | −19 59.9 | 0.963 | 1.974 | 4.5 | 20.0 |
| 7 20 | 19 44.46 | −20 54.8 | 0.964 | 1.980 | 1.6 | 19.8 |
| 7 30 | 19 35.38 | −21 46.0 | 0.989 | 1.987 | 7.6 | 20.2 |
| 8 9 | 19 28.36 | −22 28.7 | 1.034 | 1.995 | 13.0 | 20.5 |
| 8 19 | 19 24.43 | −23 0.5 | 1.099 | 2.003 | 17.6 | 20.8 |

**222740** 2002 $BK_4$ 7 17.3 180°.86 6°.2/13.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.08 | −35 56.7 | 2.100 | 2.934 | 13.4 | 20.1 |
| 6 20 | 20 13.54 | −37 10.1 | 2.028 | 2.936 | 10.8 | 20.0 |
| 6 30 | 20 5.36 | −38 19.9 | 1.979 | 2.936 | 8.2 | 19.8 |
| 7 10 | 19 55.19 | −39 18.9 | 1.956 | 2.936 | 6.4 | 19.7 |
| 7 20 | 19 44.02 | −40 1.1 | 1.959 | 2.936 | 6.7 | 19.7 |
| 7 30 | 19 33.10 | −40 23.1 | 1.988 | 2.935 | 8.7 | 19.8 |
| 8 9 | 19 23.64 | −40 24.8 | 2.042 | 2.933 | 11.3 | 20.0 |
| 8 19 | 19 16.55 | −40 8.9 | 2.118 | 2.932 | 13.9 | 20.2 |

**42637** 1998 $FZ_{61}$ 7 17.3 213°.05 1°.4/17.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.62 | −17 3.4 | 1.761 | 2.595 | 15.5 | 19.2 |
| 6 20 | 20 11.63 | −17 1.6 | 1.675 | 2.590 | 12.2 | 18.9 |
| 6 30 | 20 4.09 | −17 8.0 | 1.611 | 2.584 | 8.2 | 18.7 |
| 7 10 | 19 54.65 | −17 20.7 | 1.571 | 2.578 | 3.9 | 18.4 |
| 7 20 | 19 44.22 | −17 37.3 | 1.557 | 2.571 | 1.8 | 18.2 |
| 7 30 | 19 34.00 | −17 55.0 | 1.570 | 2.564 | 5.9 | 18.5 |
| 8 9 | 19 25.13 | −18 11.7 | 1.609 | 2.556 | 10.2 | 18.7 |
| 8 19 | 19 18.50 | −18 25.9 | 1.671 | 2.548 | 14.1 | 18.9 |

**272238** 2005 $QQ_{116}$ 7 17.3 252°.64 1°.0/17.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.36 | −16 56.2 | 1.867 | 2.702 | 14.8 | 21.9 |
| 6 20 | 20 9.89 | −17 9.1 | 1.771 | 2.687 | 11.6 | 21.7 |
| 6 30 | 20 2.99 | −17 31.1 | 1.697 | 2.671 | 7.8 | 21.4 |
| 7 10 | 19 54.21 | −18 0.2 | 1.647 | 2.655 | 3.6 | 21.1 |
| 7 20 | 19 44.37 | −18 33.3 | 1.623 | 2.638 | 1.5 | 21.0 |
| 7 30 | 19 34.58 | −19 7.1 | 1.627 | 2.621 | 5.7 | 21.2 |
| 8 9 | 19 25.95 | −19 38.6 | 1.657 | 2.604 | 10.0 | 21.4 |
| 8 19 | 19 19.40 | −20 5.7 | 1.709 | 2.586 | 13.8 | 21.6 |

**483353** 2016 $RQ$ 7 17.3 325°.04 10°.3/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.37 | −41 30.3 | 1.316 | 2.173 | 18.5 | 20.0 |
| 6 20 | 20 16.00 | −42 6.2 | 1.216 | 2.132 | 15.7 | 19.7 |
| 6 30 | 20 8.30 | −42 30.6 | 1.134 | 2.091 | 12.8 | 19.4 |
| 7 10 | 19 56.91 | −42 32.1 | 1.072 | 2.051 | 10.6 | 19.2 |
| 7 20 | 19 43.28 | −42 0.3 | 1.032 | 2.012 | 10.7 | 19.1 |
| 7 30 | 19 29.67 | −40 49.7 | 1.013 | 1.973 | 13.3 | 19.1 |
| 8 9 | 19 18.45 | −39 3.2 | 1.014 | 1.936 | 17.3 | 19.2 |
| 8 19 | 19 11.25 | −36 50.4 | 1.034 | 1.901 | 21.5 | 19.3 |

**130066** Timhaltigin 7 17.3 244°.62 5°.4/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.67 | −32 24.5 | 1.954 | 2.800 | 13.8 | 19.9 |
| 6 20 | 20 11.06 | −33 36.0 | 1.876 | 2.794 | 10.9 | 19.7 |
| 6 30 | 20 3.82 | −34 47.1 | 1.820 | 2.788 | 7.9 | 19.5 |
| 7 10 | 19 54.58 | −35 50.8 | 1.789 | 2.782 | 5.7 | 19.3 |
| 7 20 | 19 44.26 | −36 40.9 | 1.785 | 2.775 | 5.9 | 19.3 |
| 7 30 | 19 34.11 | −37 13.0 | 1.807 | 2.769 | 8.3 | 19.5 |
| 8 9 | 19 25.35 | −37 26.1 | 1.854 | 2.762 | 11.4 | 19.6 |
| 8 19 | 19 18.92 | −37 21.9 | 1.922 | 2.755 | 14.3 | 19.8 |

**102120** 1999 $RO_{172}$ 7 17.3 236°.75 7°.2/14.5 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 22.25 | −37 9.3 | 1.756 | 2.595 | 15.4 | 18.3 |
| 6 20 | 20 16.63 | −38 7.1 | 1.676 | 2.585 | 12.5 | 18.1 |
| 6 30 | 20 7.74 | −38 59.6 | 1.616 | 2.574 | 9.6 | 17.9 |
| 7 10 | 19 56.33 | −39 38.6 | 1.580 | 2.562 | 7.5 | 17.8 |
| 7 20 | 19 43.61 | −39 57.0 | 1.570 | 2.550 | 7.7 | 17.8 |
| 7 30 | 19 31.18 | −39 51.0 | 1.584 | 2.538 | 10.0 | 17.9 |
| 8 9 | 19 20.61 | −39 21.8 | 1.623 | 2.525 | 13.1 | 18.0 |
| 8 19 | 19 12.99 | −38 34.0 | 1.682 | 2.511 | 16.2 | 18.2 |

**236438** 2006 $DC_{174}$ 7 17.3 140°.32 0°.8/17.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.25 | −17 17.7 | 1.905 | 2.742 | 14.5 | 21.5 |
| 6 20 | 20 8.76 | −17 34.4 | 1.829 | 2.745 | 11.2 | 21.3 |
| 6 30 | 20 2.05 | −17 59.6 | 1.774 | 2.748 | 7.5 | 21.1 |
| 7 10 | 19 53.73 | −18 30.7 | 1.743 | 2.752 | 3.4 | 20.8 |
| 7 20 | 19 44.63 | −19 4.6 | 1.740 | 2.755 | 1.3 | 20.7 |
| 7 30 | 19 35.78 | −19 38.0 | 1.763 | 2.758 | 5.3 | 21.0 |
| 8 9 | 19 28.17 | −20 8.2 | 1.813 | 2.760 | 9.3 | 21.2 |
| 8 19 | 19 22.54 | −20 33.7 | 1.886 | 2.763 | 12.7 | 21.4 |

**48742** 1997 $EE_{47}$ 7 17.3 123°.85 0°.1/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.24 | −19 46.4 | 1.646 | 2.491 | 16.0 | 19.9 |
| 6 20 | 20 11.37 | −19 58.6 | 1.576 | 2.498 | 12.4 | 19.7 |
| 6 30 | 20 3.90 | −20 17.8 | 1.527 | 2.504 | 8.2 | 19.5 |
| 7 10 | 19 54.54 | −20 40.9 | 1.501 | 2.511 | 3.5 | 19.2 |
| 7 20 | 19 44.33 | −21 4.1 | 1.502 | 2.517 | 1.3 | 19.1 |
| 7 30 | 19 34.50 | −21 24.4 | 1.529 | 2.523 | 6.0 | 19.4 |
| 8 9 | 19 26.22 | −21 39.7 | 1.582 | 2.529 | 10.3 | 19.7 |
| 8 19 | 19 20.31 | −21 49.3 | 1.657 | 2.535 | 14.1 | 19.9 |

**34201** 2000 $QX_{54}$ 7 17.3 247°.35 4°.1/15.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.41 | −32 18.2 | 2.310 | 3.147 | 12.2 | 19.2 |
| 6 20 | 20 10.35 | −32 50.8 | 2.225 | 3.139 | 9.6 | 19.1 |
| 6 30 | 20 3.07 | −33 20.8 | 2.162 | 3.130 | 6.8 | 18.9 |
| 7 10 | 19 54.19 | −33 44.0 | 2.126 | 3.122 | 4.5 | 18.7 |
| 7 20 | 19 44.50 | −33 56.3 | 2.116 | 3.113 | 4.4 | 18.7 |
| 7 30 | 19 35.04 | −33 55.7 | 2.134 | 3.104 | 6.7 | 18.8 |
| 8 9 | 19 26.77 | −33 42.0 | 2.178 | 3.095 | 9.5 | 19.0 |
| 8 19 | 19 20.45 | −33 16.9 | 2.245 | 3.086 | 12.3 | 19.1 |

**469080** 2015 $BR_{185}$ 7 17.3 349°.94 1°.8/16.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 5.77 | −19 14.2 | 1.094 | 1.981 | 19.3 | 20.0 |
| 6 20 | 20 4.62 | −20 24.4 | 1.026 | 1.972 | 15.0 | 19.7 |
| 6 30 | 20 0.22 | −21 52.0 | 0.975 | 1.963 | 9.9 | 19.4 |
| 7 10 | 19 53.24 | −23 30.2 | 0.945 | 1.957 | 4.3 | 19.0 |
| 7 20 | 19 44.82 | −25 9.4 | 0.937 | 1.951 | 2.8 | 18.9 |
| 7 30 | 19 36.60 | −26 39.2 | 0.952 | 1.948 | 8.4 | 19.2 |
| 8 9 | 19 30.26 | −27 52.2 | 0.988 | 1.946 | 13.8 | 19.5 |
| 8 19 | 19 26.97 | −28 45.1 | 1.043 | 1.945 | 18.5 | 19.8 |

**382085** 2011 $FU_{96}$ 7 17.3 142°.52 1°.4/17.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.75 | −16 41.0 | 1.841 | 2.676 | 15.0 | 21.9 |
| 6 20 | 20 9.95 | −16 43.0 | 1.766 | 2.681 | 11.7 | 21.7 |
| 6 30 | 20 2.85 | −16 53.2 | 1.712 | 2.685 | 7.9 | 21.5 |
| 7 10 | 19 54.09 | −17 9.8 | 1.683 | 2.690 | 3.7 | 21.2 |
| 7 20 | 19 44.56 | −17 30.2 | 1.680 | 2.694 | 1.7 | 21.1 |
| 7 30 | 19 35.32 | −17 51.8 | 1.704 | 2.698 | 5.5 | 21.4 |
| 8 9 | 19 27.40 | −18 12.2 | 1.754 | 2.702 | 9.5 | 21.6 |
| 8 19 | 19 21.56 | −18 30.0 | 1.828 | 2.705 | 13.0 | 21.8 |

**433711** 2014 $XH_{37}$ 7 17.3 159°.98 2°.1/16.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.04 | −23 9.9 | 1.726 | 2.574 | 15.2 | 21.2 |
| 6 20 | 20 11.31 | −24 1.4 | 1.653 | 2.577 | 11.8 | 21.0 |
| 6 30 | 20 3.96 | −24 59.0 | 1.601 | 2.580 | 7.7 | 20.7 |
| 7 10 | 19 54.64 | −25 57.5 | 1.574 | 2.583 | 3.6 | 20.5 |
| 7 20 | 19 44.34 | −26 51.0 | 1.573 | 2.585 | 2.7 | 20.4 |
| 7 30 | 19 34.30 | −27 34.8 | 1.600 | 2.587 | 6.6 | 20.7 |
| 8 9 | 19 25.74 | −28 6.3 | 1.651 | 2.589 | 10.7 | 20.9 |
| 8 19 | 19 19.54 | −28 25.5 | 1.725 | 2.590 | 14.3 | 21.2 |

**145283** 2005 $JF_{163}$ 7 17.3 292°.19 1°.1/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.29 | −17 22.1 | 1.482 | 2.334 | 17.1 | 20.7 |
| 6 20 | 20 9.58 | −17 30.4 | 1.399 | 2.324 | 13.4 | 20.4 |
| 6 30 | 20 3.05 | −17 49.2 | 1.335 | 2.314 | 9.0 | 20.2 |
| 7 10 | 19 54.33 | −18 16.2 | 1.295 | 2.304 | 4.2 | 19.8 |
| 7 20 | 19 44.43 | −18 47.7 | 1.279 | 2.294 | 1.7 | 19.6 |
| 7 30 | 19 34.69 | −19 19.8 | 1.288 | 2.284 | 6.6 | 19.9 |
| 8 9 | 19 26.46 | −19 49.1 | 1.321 | 2.274 | 11.4 | 20.2 |
| 8 19 | 19 20.74 | −20 13.3 | 1.375 | 2.265 | 15.7 | 20.4 |

**55494** 2001 $UG_{50}$ 7 17.3 203°.31 3°.8/15.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.79 | −30 9.3 | 2.349 | 3.188 | 12.0 | 19.5 |
| 6 20 | 20 9.07 | −31 6.0 | 2.269 | 3.186 | 9.4 | 19.3 |
| 6 30 | 20 2.23 | −32 2.8 | 2.213 | 3.184 | 6.5 | 19.1 |
| 7 10 | 19 53.84 | −32 54.8 | 2.184 | 3.181 | 4.2 | 19.0 |
| 7 20 | 19 44.65 | −33 37.5 | 2.181 | 3.179 | 4.2 | 19.0 |
| 7 30 | 19 35.62 | −34 7.5 | 2.206 | 3.176 | 6.5 | 19.1 |
| 8 9 | 19 27.69 | −34 23.9 | 2.258 | 3.173 | 9.4 | 19.3 |
| 8 19 | 19 21.60 | −34 27.4 | 2.332 | 3.169 | 12.0 | 19.5 |

**395480** 2011 $UD_{49}$ 7 17.3 162°.10 4°.4/19.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.65 | − 8 19.2 | 2.202 | 3.007 | 13.8 | 21.5 |
| 6 20 | 20 6.43 | − 7 57.1 | 2.119 | 3.008 | 11.2 | 21.3 |
| 6 30 | 20 0.37 | − 7 46.4 | 2.058 | 3.008 | 8.3 | 21.1 |
| 7 10 | 19 53.00 | − 7 47.5 | 2.021 | 3.009 | 5.6 | 21.0 |
| 7 20 | 19 44.99 | − 7 59.9 | 2.010 | 3.009 | 4.4 | 20.9 |
| 7 30 | 19 37.16 | − 8 22.0 | 2.027 | 3.009 | 5.9 | 21.0 |
| 8 9 | 19 30.31 | − 8 51.2 | 2.070 | 3.010 | 8.7 | 21.2 |
| 8 19 | 19 25.07 | − 9 24.7 | 2.136 | 3.010 | 11.6 | 21.3 |

**445991** 2013 $CZ_{1}$ 7 17.3 45°.69 1°.9/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.45 | −16 16.6 | 2.086 | 2.917 | 13.6 | 20.8 |
| 6 20 | 20 7.89 | −15 57.4 | 2.008 | 2.920 | 10.7 | 20.6 |
| 6 30 | 20 1.36 | −15 44.6 | 1.952 | 2.923 | 7.3 | 20.4 |
| 7 10 | 19 53.42 | −15 37.5 | 1.921 | 2.926 | 3.7 | 20.2 |
| 7 20 | 19 44.84 | −15 34.9 | 1.917 | 2.930 | 2.1 | 20.1 |
| 7 30 | 19 36.54 | −15 35.4 | 1.941 | 2.934 | 5.1 | 20.3 |
| 8 9 | 19 29.37 | −15 37.7 | 1.991 | 2.937 | 8.6 | 20.5 |
| 8 19 | 19 23.98 | −15 40.8 | 2.064 | 2.941 | 11.8 | 20.7 |

**433022** 2012 $RZ_{40}$ 7 17.3 337°.13 0°.5/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 5.78 | −17 44.6 | 1.207 | 2.086 | 18.5 | 20.2 |
| 6 20 | 20 4.40 | −18 6.1 | 1.126 | 2.066 | 14.5 | 19.8 |
| 6 30 | 19 59.98 | −18 41.6 | 1.062 | 2.047 | 9.8 | 19.5 |
| 7 10 | 19 53.13 | −19 28.3 | 1.019 | 2.030 | 4.4 | 19.2 |
| 7 20 | 19 44.89 | −20 21.3 | 0.999 | 2.014 | 1.6 | 18.9 |
| 7 30 | 19 36.72 | −21 14.3 | 1.001 | 2.000 | 7.3 | 19.2 |
| 8 9 | 19 30.18 | −22 1.8 | 1.024 | 1.987 | 12.8 | 19.5 |
| 8 19 | 19 26.45 | −22 40.1 | 1.067 | 1.976 | 17.7 | 19.7 |

**198396** 2004 $VV_{51}$ 7 17.3 320°.14 2°.9/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.63 | −13 20.8 | 1.581 | 2.425 | 16.6 | 20.2 |
| 6 20 | 20 7.29 | −13 16.8 | 1.497 | 2.415 | 13.2 | 20.0 |
| 6 30 | 20 1.41 | −13 25.5 | 1.433 | 2.405 | 9.2 | 19.7 |
| 7 10 | 19 53.60 | −13 46.0 | 1.392 | 2.396 | 5.1 | 19.4 |
| 7 20 | 19 44.75 | −14 16.3 | 1.375 | 2.387 | 3.0 | 19.3 |
| 7 30 | 19 36.06 | −14 52.8 | 1.383 | 2.378 | 6.4 | 19.5 |
| 8 9 | 19 28.70 | −15 31.9 | 1.416 | 2.370 | 10.8 | 19.7 |
| 8 19 | 19 23.58 | −16 10.1 | 1.470 | 2.362 | 14.8 | 19.9 |

**152459** 2005 $VG_{15}$ 7 17.3 104°.84 4°.5/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.25 | −35 42.2 | 2.477 | 3.304 | 11.8 | 19.9 |
| 6 20 | 20 12.17 | −36 2.5 | 2.412 | 3.317 | 9.4 | 19.7 |
| 6 30 | 20 4.03 | −36 17.1 | 2.370 | 3.329 | 6.8 | 19.6 |
| 7 10 | 19 54.51 | −36 22.0 | 2.353 | 3.342 | 4.9 | 19.5 |
| 7 20 | 19 44.48 | −36 14.3 | 2.365 | 3.354 | 4.7 | 19.5 |
| 7 30 | 19 34.89 | −35 53.2 | 2.404 | 3.366 | 6.5 | 19.6 |
| 8 9 | 19 26.65 | −35 19.7 | 2.469 | 3.377 | 9.0 | 19.8 |
| 8 19 | 19 20.36 | −34 36.5 | 2.559 | 3.389 | 11.3 | 20.0 |

**291664** 2006 $HE_{69}$ 7 17.3 270°.17 7°.7/13.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.08 | −37 49.6 | 1.892 | 2.734 | 14.3 | 20.4 |
| 6 20 | 20 12.49 | −39 17.5 | 1.820 | 2.729 | 11.7 | 20.2 |
| 6 30 | 20 4.96 | −40 41.2 | 1.771 | 2.723 | 9.3 | 20.0 |
| 7 10 | 19 55.17 | −41 52.2 | 1.745 | 2.718 | 7.8 | 19.9 |
| 7 20 | 19 44.16 | −42 43.3 | 1.745 | 2.713 | 8.2 | 19.9 |
| 7 30 | 19 33.36 | −43 10.0 | 1.769 | 2.707 | 10.2 | 20.1 |
| 8 9 | 19 24.15 | −43 12.4 | 1.817 | 2.702 | 12.8 | 20.2 |
| 8 19 | 19 17.57 | −42 53.7 | 1.885 | 2.696 | 15.4 | 20.4 |

**516233** 2016 $UC_{34}$ 7 17.3 264°.55 4°.7/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.19 | −33 2.1 | 2.261 | 3.101 | 12.4 | 21.3 |
| 6 20 | 20 9.56 | −33 54.9 | 2.178 | 3.093 | 9.8 | 21.1 |
| 6 30 | 20 2.66 | −34 46.0 | 2.119 | 3.085 | 7.1 | 20.9 |
| 7 10 | 19 54.07 | −35 29.9 | 2.085 | 3.076 | 5.1 | 20.8 |
| 7 20 | 19 44.60 | −36 2.1 | 2.077 | 3.068 | 5.1 | 20.7 |
| 7 30 | 19 35.30 | −36 19.3 | 2.097 | 3.059 | 7.3 | 20.9 |
| 8 9 | 19 27.19 | −36 21.1 | 2.141 | 3.051 | 10.1 | 21.0 |
| 8 19 | 19 21.06 | −36 8.9 | 2.209 | 3.042 | 12.7 | 21.2 |

**149525** 2003 $FB_{111}$ 7 17.3 23°.48 10°.2/13.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.93 | −40 33.4 | 1.354 | 2.213 | 18.0 | 18.8 |
| 6 20 | 20 14.01 | −41 59.6 | 1.304 | 2.219 | 14.9 | 18.6 |
| 6 30 | 20 6.30 | −43 15.5 | 1.272 | 2.225 | 12.1 | 18.5 |
| 7 10 | 19 55.77 | −44 10.2 | 1.262 | 2.232 | 10.4 | 18.4 |
| 7 20 | 19 44.00 | −44 35.5 | 1.274 | 2.240 | 10.7 | 18.5 |
| 7 30 | 19 32.95 | −44 28.0 | 1.308 | 2.249 | 12.7 | 18.6 |
| 8 9 | 19 24.36 | −43 50.9 | 1.362 | 2.258 | 15.6 | 18.8 |
| 8 19 | 19 19.30 | −42 51.2 | 1.435 | 2.268 | 18.3 | 19.0 |

**308657** 2006 $BY_{119}$ 7 17.3 55°.46 1°.8/17.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.67 | −16 52.3 | 1.217 | 2.077 | 19.5 | 20.7 |
| 6 20 | 20 11.58 | −16 46.0 | 1.159 | 2.088 | 15.2 | 20.5 |
| 6 30 | 20 4.34 | −16 51.1 | 1.120 | 2.099 | 10.2 | 20.2 |
| 7 10 | 19 54.84 | −17 5.3 | 1.102 | 2.110 | 4.9 | 19.9 |
| 7 20 | 19 44.36 | −17 25.1 | 1.107 | 2.122 | 2.2 | 19.8 |
| 7 30 | 19 34.48 | −17 46.9 | 1.137 | 2.134 | 7.1 | 20.1 |
| 8 9 | 19 26.59 | −18 7.4 | 1.189 | 2.146 | 12.1 | 20.5 |
| 8 19 | 19 21.61 | −18 24.7 | 1.262 | 2.158 | 16.4 | 20.8 |

**31687** 1999 $JP_{26}$ 7 17.3 17°.37 1°.0/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.31 | −17 7.8 | 2.051 | 2.887 | 13.6 | 18.7 |
| 6 20 | 20 7.16 | −17 17.8 | 1.971 | 2.887 | 10.6 | 18.5 |
| 6 30 | 20 0.97 | −17 35.4 | 1.913 | 2.888 | 7.1 | 18.3 |
| 7 10 | 19 53.30 | −17 58.7 | 1.880 | 2.888 | 3.3 | 18.1 |
| 7 20 | 19 44.93 | −18 25.2 | 1.874 | 2.889 | 1.3 | 18.0 |
| 7 30 | 19 36.77 | −18 52.0 | 1.895 | 2.890 | 5.0 | 18.2 |
| 8 9 | 19 29.72 | −19 17.0 | 1.943 | 2.890 | 8.7 | 18.4 |
| 8 19 | 19 24.47 | −19 38.6 | 2.014 | 2.891 | 12.0 | 18.6 |

**183847** 2004 $BF_{124}$ 7 17.3 182°.95 1°.8/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.36 | −16 3.8 | 1.841 | 2.670 | 15.2 | 21.3 |
| 6 20 | 20 11.26 | −15 59.3 | 1.760 | 2.671 | 11.9 | 21.1 |
| 6 30 | 20 3.77 | −16 3.1 | 1.700 | 2.671 | 8.1 | 20.9 |
| 7 10 | 19 54.55 | −16 13.7 | 1.665 | 2.671 | 4.0 | 20.6 |
| 7 20 | 19 44.47 | −16 29.0 | 1.657 | 2.670 | 2.0 | 20.5 |
| 7 30 | 19 34.65 | −16 46.6 | 1.676 | 2.669 | 5.7 | 20.7 |
| 8 9 | 19 26.14 | −17 4.2 | 1.721 | 2.667 | 9.7 | 20.9 |
| 8 19 | 19 19.76 | −17 20.2 | 1.789 | 2.665 | 13.3 | 21.2 |

**47437** 1999 $XR_{176}$ 7 17.3 303°.86 7°.1/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.14 | −34 29.6 | 1.384 | 2.246 | 17.5 | 17.8 |
| 6 20 | 20 14.35 | −35 12.2 | 1.293 | 2.219 | 14.2 | 17.5 |
| 6 30 | 20 6.82 | −35 51.4 | 1.221 | 2.192 | 10.6 | 17.2 |
| 7 10 | 19 56.21 | −36 18.5 | 1.171 | 2.165 | 7.6 | 17.0 |
| 7 20 | 19 43.79 | −36 25.1 | 1.143 | 2.138 | 7.6 | 16.9 |
| 7 30 | 19 31.43 | −36 6.1 | 1.139 | 2.112 | 10.8 | 17.0 |
| 8 9 | 19 21.07 | −35 22.2 | 1.157 | 2.086 | 15.0 | 17.1 |
| 8 19 | 19 14.11 | −34 18.6 | 1.194 | 2.060 | 19.2 | 17.3 |

**167437** 2003 $WL_{176}$ 7 17.3 206°.91 3°.3/15.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.22 | −29 58.3 | 2.440 | 3.273 | 11.8 | 21.6 |
| 6 20 | 20 10.83 | −30 33.9 | 2.354 | 3.267 | 9.2 | 21.4 |
| 6 30 | 20 3.35 | −31 8.7 | 2.291 | 3.262 | 6.4 | 21.3 |
| 7 10 | 19 54.35 | −31 38.6 | 2.255 | 3.255 | 3.9 | 21.1 |
| 7 20 | 19 44.58 | −31 59.9 | 2.247 | 3.249 | 3.6 | 21.1 |
| 7 30 | 19 34.99 | −32 10.0 | 2.267 | 3.241 | 6.0 | 21.2 |
| 8 9 | 19 26.50 | −32 8.5 | 2.314 | 3.234 | 8.9 | 21.4 |
| 8 19 | 19 19.84 | −31 56.4 | 2.385 | 3.225 | 11.7 | 21.5 |

**91192** 1998 $SA_{58}$ 7 17.3 350°.74 9°.8/12.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.63 | −45 36.1 | 1.913 | 2.741 | 14.8 | 18.2 |
| 6 20 | 20 13.07 | −46 46.4 | 1.849 | 2.737 | 12.7 | 18.1 |
| 6 30 | 20 5.37 | −47 45.2 | 1.806 | 2.733 | 10.8 | 17.9 |
| 7 10 | 19 55.34 | −48 24.3 | 1.785 | 2.729 | 9.8 | 17.9 |
| 7 20 | 19 44.22 | −48 37.8 | 1.788 | 2.727 | 10.1 | 17.9 |
| 7 30 | 19 33.57 | −48 23.0 | 1.813 | 2.724 | 11.6 | 18.0 |
| 8 9 | 19 24.84 | −47 42.3 | 1.861 | 2.723 | 13.6 | 18.1 |
| 8 19 | 19 18.99 | −46 40.7 | 1.928 | 2.722 | 15.8 | 18.3 |

**291381** 2006 $CJ_{13}$ 7 17.3 258°.85 1°.2/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.89 | −15 46.4 | 2.593 | 3.416 | 11.5 | 21.2 |
| 6 20 | 20 5.75 | −16 1.0 | 2.495 | 3.402 | 9.0 | 21.0 |
| 6 30 | 19 59.93 | −16 23.0 | 2.419 | 3.389 | 6.1 | 20.8 |
| 7 10 | 19 52.86 | −16 50.7 | 2.370 | 3.376 | 3.0 | 20.6 |
| 7 20 | 19 45.14 | −17 22.2 | 2.348 | 3.362 | 1.4 | 20.5 |
| 7 30 | 19 37.47 | −17 55.2 | 2.355 | 3.348 | 4.3 | 20.7 |
| 8 9 | 19 30.59 | −18 27.4 | 2.389 | 3.334 | 7.5 | 20.8 |
| 8 19 | 19 25.10 | −18 57.1 | 2.449 | 3.320 | 10.4 | 21.0 |

**100973** 1998 $QZ_{23}$ 7 17.3 292°.73 4°.6/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.73 | − 8 57.7 | 1.852 | 2.671 | 15.5 | 19.9 |
| 6 20 | 20 7.12 | − 8 44.0 | 1.750 | 2.649 | 12.7 | 19.7 |
| 6 30 | 20 1.24 | − 8 44.0 | 1.668 | 2.626 | 9.4 | 19.4 |
| 7 10 | 19 53.57 | − 8 58.3 | 1.610 | 2.603 | 6.1 | 19.2 |
| 7 20 | 19 44.84 | − 9 26.3 | 1.576 | 2.580 | 4.6 | 19.0 |
| 7 30 | 19 36.08 | −10 5.8 | 1.569 | 2.557 | 6.7 | 19.1 |
| 8 9 | 19 28.35 | −10 53.0 | 1.587 | 2.534 | 10.3 | 19.3 |
| 8 19 | 19 22.52 | −11 44.0 | 1.627 | 2.511 | 14.0 | 19.5 |

**472535** 2015 $DS_{2}$ 7 17.3 5°.92 3°.4/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.25 | −11 57.6 | 1.307 | 2.160 | 18.8 | 20.6 |
| 6 20 | 20 7.36 | −12 3.4 | 1.238 | 2.160 | 15.0 | 20.4 |
| 6 30 | 20 1.62 | −12 26.5 | 1.187 | 2.160 | 10.5 | 20.1 |
| 7 10 | 19 53.75 | −13 5.6 | 1.158 | 2.161 | 5.9 | 19.9 |
| 7 20 | 19 44.81 | −13 57.2 | 1.152 | 2.163 | 3.5 | 19.7 |
| 7 30 | 19 36.17 | −14 56.0 | 1.170 | 2.166 | 7.0 | 19.9 |
| 8 9 | 19 29.17 | −15 56.1 | 1.211 | 2.169 | 11.7 | 20.2 |
| 8 19 | 19 24.74 | −16 52.7 | 1.272 | 2.173 | 16.0 | 20.5 |

**379181** 2009 $RL_{19}$ 7 17.3 279°.82 0°.2/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.85 | −19 44.4 | 1.669 | 2.515 | 15.7 | 21.6 |
| 6 20 | 20 10.70 | −19 51.8 | 1.570 | 2.493 | 12.4 | 21.3 |
| 6 30 | 20 3.81 | −20 6.6 | 1.493 | 2.471 | 8.3 | 21.0 |
| 7 10 | 19 54.75 | −20 26.0 | 1.439 | 2.449 | 3.6 | 20.7 |
| 7 20 | 19 44.41 | −20 46.8 | 1.411 | 2.426 | 1.3 | 20.5 |
| 7 30 | 19 34.06 | −21 5.7 | 1.409 | 2.403 | 6.3 | 20.7 |
| 8 9 | 19 25.01 | −21 20.2 | 1.432 | 2.381 | 11.1 | 21.0 |
| 8 19 | 19 18.33 | −21 29.2 | 1.476 | 2.358 | 15.3 | 21.2 |

**432859** 2011 $HP_{78}$ 7 17.3 20°.41 10°.4/12.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.68 | −38 17.4 | 1.249 | 2.121 | 18.4 | 20.4 |
| 6 20 | 20 10.92 | −40 12.9 | 1.204 | 2.129 | 15.1 | 20.2 |
| 6 30 | 20 4.39 | −42 0.3 | 1.180 | 2.139 | 12.1 | 20.0 |
| 7 10 | 19 55.03 | −43 27.5 | 1.176 | 2.150 | 10.5 | 20.0 |
| 7 20 | 19 44.37 | −44 24.4 | 1.194 | 2.163 | 11.0 | 20.0 |
| 7 30 | 19 34.34 | −44 46.5 | 1.234 | 2.176 | 13.2 | 20.2 |
| 8 9 | 19 26.74 | −44 35.9 | 1.293 | 2.190 | 16.1 | 20.4 |
| 8 19 | 19 22.61 | −43 59.0 | 1.370 | 2.206 | 18.9 | 20.7 |

**103713** 2000 $CZ_{87}$ 7 17.3 152°.81 0°.4/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.15 | −18 28.7 | 1.864 | 2.698 | 14.8 | 20.3 |
| 6 20 | 20 11.07 | −18 46.3 | 1.789 | 2.705 | 11.5 | 20.1 |
| 6 30 | 20 3.64 | −19 11.4 | 1.735 | 2.711 | 7.6 | 19.9 |
| 7 10 | 19 54.51 | −19 41.2 | 1.707 | 2.716 | 3.3 | 19.7 |
| 7 20 | 19 44.58 | −20 12.2 | 1.706 | 2.721 | 1.2 | 19.5 |
| 7 30 | 19 34.94 | −20 41.3 | 1.732 | 2.725 | 5.5 | 19.8 |
| 8 9 | 19 26.63 | −21 6.1 | 1.784 | 2.729 | 9.5 | 20.1 |
| 8 19 | 19 20.45 | −21 25.4 | 1.860 | 2.733 | 13.0 | 20.3 |

**71905** 2000 $WF_{27}$ 7 17.3 122°.34 0°.3/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.41 | −22 13.5 | 2.121 | 2.952 | 13.4 | 19.5 |
| 6 20 | 20 11.64 | −22 10.0 | 2.051 | 2.965 | 10.3 | 19.3 |
| 6 30 | 20 3.78 | −22 9.0 | 2.003 | 2.978 | 6.7 | 19.1 |
| 7 10 | 19 54.49 | −22 8.3 | 1.982 | 2.991 | 2.9 | 18.9 |
| 7 20 | 19 44.61 | −22 5.7 | 1.988 | 3.003 | 1.2 | 18.7 |
| 7 30 | 19 35.14 | −22 0.0 | 2.023 | 3.015 | 5.0 | 19.0 |
| 8 9 | 19 26.96 | −21 50.6 | 2.085 | 3.026 | 8.6 | 19.3 |
| 8 19 | 19 20.73 | −21 37.9 | 2.171 | 3.037 | 11.7 | 19.5 |

**359928** 2011 $WB_{151}$ 7 17.3 185°.82 2°.6/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.28 | −10 53.6 | 2.806 | 3.608 | 11.2 | 21.7 |
| 6 20 | 20 5.80 | −10 58.3 | 2.717 | 3.608 | 8.9 | 21.6 |
| 6 30 | 19 59.83 | −11 11.7 | 2.650 | 3.607 | 6.4 | 21.4 |
| 7 10 | 19 52.79 | −11 33.1 | 2.610 | 3.606 | 3.8 | 21.2 |
| 7 20 | 19 45.22 | −12 1.2 | 2.598 | 3.605 | 2.6 | 21.1 |
| 7 30 | 19 37.78 | −12 34.1 | 2.615 | 3.603 | 4.3 | 21.3 |
| 8 9 | 19 31.08 | −13 9.6 | 2.659 | 3.601 | 7.0 | 21.4 |
| 8 19 | 19 25.67 | −13 45.5 | 2.730 | 3.598 | 9.5 | 21.6 |

**196237** 2003 $CL_{10}$ 7 17.3 190°.61 2°.7/18.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.23 | −14 6.0 | 1.582 | 2.415 | 17.1 | 20.7 |
| 6 20 | 20 12.33 | −13 59.8 | 1.503 | 2.415 | 13.5 | 20.5 |
| 6 30 | 20 4.72 | −14 5.1 | 1.444 | 2.413 | 9.4 | 20.2 |
| 7 10 | 19 55.06 | −14 20.7 | 1.408 | 2.412 | 5.0 | 20.0 |
| 7 20 | 19 44.36 | −14 44.4 | 1.398 | 2.410 | 2.9 | 19.8 |
| 7 30 | 19 33.92 | −15 12.8 | 1.414 | 2.407 | 6.5 | 20.1 |
| 8 9 | 19 24.98 | −15 42.8 | 1.454 | 2.404 | 10.9 | 20.3 |
| 8 19 | 19 18.48 | −16 11.7 | 1.518 | 2.400 | 14.9 | 20.5 |

**202234** 2004 $YQ_{26}$ 7 17.3 201°.53 0°.2/17.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.08 | −18 45.1 | 1.986 | 2.824 | 13.9 | 20.8 |
| 6 20 | 20 8.67 | −19 7.7 | 1.905 | 2.822 | 10.8 | 20.6 |
| 6 30 | 20 2.06 | −19 37.7 | 1.845 | 2.821 | 7.1 | 20.4 |
| 7 10 | 19 53.85 | −20 12.3 | 1.810 | 2.819 | 3.1 | 20.2 |
| 7 20 | 19 44.83 | −20 48.3 | 1.802 | 2.818 | 1.1 | 20.0 |
| 7 30 | 19 35.99 | −21 22.2 | 1.822 | 2.816 | 5.3 | 20.3 |
| 8 9 | 19 28.33 | −21 51.5 | 1.868 | 2.814 | 9.1 | 20.5 |
| 8 19 | 19 22.59 | −22 14.9 | 1.937 | 2.811 | 12.6 | 20.7 |

**47510** 2000 $AL_{60}$ 7 17.3 45°.11 0°.7/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.28 | −15 58.9 | 1.724 | 2.567 | 15.4 | 18.1 |
| 6 20 | 20 7.48 | −16 40.0 | 1.656 | 2.576 | 12.0 | 17.9 |
| 6 30 | 20 1.36 | −17 32.9 | 1.608 | 2.585 | 8.0 | 17.7 |
| 7 10 | 19 53.56 | −18 33.9 | 1.585 | 2.594 | 3.6 | 17.4 |
| 7 20 | 19 44.95 | −19 38.3 | 1.588 | 2.603 | 1.3 | 17.3 |
| 7 30 | 19 36.62 | −20 41.0 | 1.618 | 2.613 | 5.6 | 17.6 |
| 8 9 | 19 29.62 | −21 37.8 | 1.673 | 2.623 | 9.7 | 17.8 |
| 8 19 | 19 24.70 | −22 26.2 | 1.751 | 2.633 | 13.3 | 18.1 |

**424431** 2008 $BW_{46}$ 7 17.3 222°.75 0°.9/16.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.65 | −21 20.8 | 1.818 | 2.659 | 14.9 | 22.2 |
| 6 20 | 20 11.77 | −21 48.2 | 1.731 | 2.651 | 11.6 | 21.9 |
| 6 30 | 20 4.31 | −22 22.1 | 1.665 | 2.643 | 7.6 | 21.7 |
| 7 10 | 19 54.90 | −22 58.8 | 1.624 | 2.634 | 3.3 | 21.4 |
| 7 20 | 19 44.43 | −23 33.9 | 1.610 | 2.624 | 1.7 | 21.2 |
| 7 30 | 19 34.10 | −24 3.6 | 1.622 | 2.614 | 6.1 | 21.5 |
| 8 9 | 19 25.10 | −24 25.5 | 1.661 | 2.603 | 10.3 | 21.7 |
| 8 19 | 19 18.34 | −24 39.1 | 1.723 | 2.592 | 14.1 | 22.0 |

**174635** 2003 $SZ_{124}$ 7 17.3 270°.95 5°.5/14.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.20 | −30 17.7 | 1.519 | 2.377 | 16.4 | 20.4 |
| 6 20 | 20 13.05 | −31 24.2 | 1.437 | 2.364 | 13.0 | 20.1 |
| 6 30 | 20 5.64 | −32 33.0 | 1.376 | 2.351 | 9.2 | 19.9 |
| 7 10 | 19 55.62 | −33 35.9 | 1.339 | 2.338 | 6.1 | 19.7 |
| 7 20 | 19 44.14 | −34 24.8 | 1.325 | 2.324 | 6.1 | 19.6 |
| 7 30 | 19 32.77 | −34 53.8 | 1.337 | 2.311 | 9.4 | 19.8 |
| 8 9 | 19 23.15 | −35 1.3 | 1.372 | 2.297 | 13.4 | 20.0 |
| 8 19 | 19 16.46 | −34 49.8 | 1.427 | 2.283 | 17.2 | 20.2 |

**440630** 2005 $WH_{59}$ 7 17.3 243°.31 2°.8/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.60 | −26 46.3 | 2.644 | 3.478 | 10.9 | 21.1 |
| 6 20 | 20 8.03 | −27 51.0 | 2.549 | 3.466 | 8.5 | 20.9 |
| 6 30 | 20 1.55 | −28 58.7 | 2.480 | 3.453 | 5.8 | 20.7 |
| 7 10 | 19 53.64 | −30 5.4 | 2.437 | 3.440 | 3.3 | 20.5 |
| 7 20 | 19 44.91 | −31 6.4 | 2.423 | 3.427 | 3.2 | 20.5 |
| 7 30 | 19 36.18 | −31 58.1 | 2.438 | 3.413 | 5.6 | 20.7 |
| 8 9 | 19 28.29 | −32 38.2 | 2.481 | 3.399 | 8.5 | 20.8 |
| 8 19 | 19 21.94 | −33 6.4 | 2.547 | 3.385 | 11.1 | 21.0 |

**16408** 1986 $AB$ 7 17.3 307°.03 2°.8/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.79 | −28 57.1 | 1.704 | 2.554 | 15.3 | 16.7 |
| 6 20 | 20 12.97 | −28 47.8 | 1.609 | 2.533 | 12.0 | 16.5 |
| 6 30 | 20 5.26 | −28 35.3 | 1.535 | 2.513 | 8.2 | 16.2 |
| 7 10 | 19 55.35 | −28 15.8 | 1.486 | 2.492 | 4.2 | 15.9 |
| 7 20 | 19 44.29 | −27 46.0 | 1.461 | 2.472 | 3.2 | 15.8 |
| 7 30 | 19 33.44 | −27 4.8 | 1.464 | 2.452 | 7.0 | 16.0 |
| 8 9 | 19 24.17 | −26 13.6 | 1.491 | 2.433 | 11.3 | 16.2 |
| 8 19 | 19 17.45 | −25 15.6 | 1.540 | 2.414 | 15.2 | 16.4 |

**474316** 2002 $BK_{28}$ 7 17.3 226°.07 0°.6/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.91 | −23 54.6 | 2.526 | 3.353 | 11.6 | 21.5 |
| 6 20 | 20 10.35 | −23 42.9 | 2.433 | 3.345 | 9.0 | 21.4 |
| 6 30 | 20 2.92 | −23 31.7 | 2.364 | 3.338 | 5.9 | 21.2 |
| 7 10 | 19 54.16 | −23 19.1 | 2.321 | 3.330 | 2.6 | 20.9 |
| 7 20 | 19 44.77 | −23 3.7 | 2.307 | 3.322 | 1.2 | 20.8 |
| 7 30 | 19 35.58 | −22 44.5 | 2.323 | 3.313 | 4.6 | 21.0 |
| 8 9 | 19 27.42 | −22 21.6 | 2.366 | 3.305 | 7.9 | 21.2 |
| 8 19 | 19 20.91 | −21 55.7 | 2.435 | 3.296 | 10.8 | 21.4 |

**309101** 2006 $WW_{42}$ 7 17.3 178°.85 6°.3/20.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.68 | − 1 18.7 | 2.534 | 3.300 | 13.2 | 21.2 |
| 6 20 | 20 6.23 | − 0 40.0 | 2.449 | 3.301 | 11.2 | 21.0 |
| 6 30 | 20 0.17 | − 0 14.3 | 2.385 | 3.301 | 9.0 | 20.9 |
| 7 10 | 19 52.97 | − 0 3.4 | 2.346 | 3.301 | 7.1 | 20.8 |
| 7 20 | 19 45.20 | − 0 7.7 | 2.332 | 3.301 | 6.3 | 20.7 |
| 7 30 | 19 37.58 | − 0 26.2 | 2.344 | 3.301 | 7.0 | 20.8 |
| 8 9 | 19 30.78 | − 0 56.8 | 2.383 | 3.301 | 8.8 | 20.9 |
| 8 19 | 19 25.37 | − 1 36.2 | 2.446 | 3.300 | 11.0 | 21.0 |

**289410** 2005 $CN_{65}$ 7 17.3 174°.86 0°.7/17.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.14 | −17 2.9 | 1.902 | 2.730 | 14.8 | 21.9 |
| 6 20 | 20 11.85 | −17 26.1 | 1.821 | 2.733 | 11.5 | 21.7 |
| 6 30 | 20 4.19 | −17 58.3 | 1.763 | 2.736 | 7.7 | 21.5 |
| 7 10 | 19 54.79 | −18 36.9 | 1.730 | 2.738 | 3.5 | 21.2 |
| 7 20 | 19 44.52 | −19 17.9 | 1.724 | 2.739 | 1.3 | 21.1 |
| 7 30 | 19 34.47 | −19 57.9 | 1.746 | 2.739 | 5.5 | 21.3 |
| 8 9 | 19 25.70 | −20 33.7 | 1.794 | 2.738 | 9.5 | 21.6 |
| 8 19 | 19 19.03 | −21 3.8 | 1.866 | 2.737 | 13.1 | 21.8 |

**78511** 2002 $RN_{86}$ 7 17.3 282.°70 1.°1/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.49 | −23 7.8 | 1.943 | 2.788 | 13.9 | 19.6 |
| 6 20 | 20 9.16 | −23 23.1 | 1.855 | 2.778 | 10.8 | 19.3 |
| 6 30 | 20 2.49 | −23 42.1 | 1.789 | 2.768 | 7.1 | 19.1 |
| 7 10 | 19 54.08 | −24 1.8 | 1.748 | 2.758 | 3.1 | 18.8 |
| 7 20 | 19 44.77 | −24 18.7 | 1.733 | 2.747 | 1.8 | 18.7 |
| 7 30 | 19 35.63 | −24 30.2 | 1.746 | 2.737 | 5.7 | 19.0 |
| 8 9 | 19 27.72 | −24 34.8 | 1.784 | 2.727 | 9.7 | 19.2 |
| 8 19 | 19 21.84 | −24 32.6 | 1.845 | 2.717 | 13.2 | 19.4 |

**501956** 2014 $YC_{10}$ 7 17.3 284.°76 4.°0/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 24.94 | −17 55.8 | 1.502 | 2.334 | 17.9 | 20.9 |
| 6 20 | 20 18.95 | −16 28.1 | 1.392 | 2.303 | 14.4 | 20.5 |
| 6 30 | 20 9.56 | −14 57.7 | 1.303 | 2.272 | 10.2 | 20.2 |
| 7 10 | 19 57.38 | −13 25.6 | 1.238 | 2.240 | 5.8 | 19.9 |
| 7 20 | 19 43.48 | −11 54.6 | 1.199 | 2.208 | 4.3 | 19.7 |
| 7 30 | 19 29.46 | −10 28.5 | 1.188 | 2.175 | 8.4 | 19.8 |
| 8 9 | 19 17.00 | − 9 11.4 | 1.202 | 2.142 | 13.6 | 20.0 |
| 8 19 | 19 7.40 | − 8 6.0 | 1.238 | 2.108 | 18.4 | 20.2 |

**126479** 2002 $CJ_{48}$ 7 17.3 63.°89 0.°9/17.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.76 | −20 20.6 | 1.625 | 2.469 | 16.2 | 19.0 |
| 6 20 | 20 12.43 | −19 51.1 | 1.561 | 2.481 | 12.6 | 18.8 |
| 6 30 | 20 4.53 | −19 25.6 | 1.518 | 2.494 | 8.3 | 18.6 |
| 7 10 | 19 54.87 | −19 2.8 | 1.498 | 2.507 | 3.7 | 18.3 |
| 7 20 | 19 44.53 | −18 41.4 | 1.505 | 2.520 | 1.5 | 18.2 |
| 7 30 | 19 34.74 | −18 20.6 | 1.539 | 2.534 | 5.9 | 18.5 |
| 8 9 | 19 26.60 | −18 0.4 | 1.598 | 2.547 | 10.1 | 18.8 |
| 8 19 | 19 20.86 | −17 40.7 | 1.679 | 2.560 | 13.8 | 19.1 |

**382965** 2004 $XQ_{92}$ 7 17.3 199.°47 0.°4/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.11 | −19 27.8 | 2.293 | 3.119 | 12.7 | 21.7 |
| 6 20 | 20 9.92 | −19 32.3 | 2.204 | 3.116 | 9.8 | 21.5 |
| 6 30 | 20 2.74 | −19 41.6 | 2.139 | 3.112 | 6.5 | 21.3 |
| 7 10 | 19 54.12 | −19 53.7 | 2.099 | 3.108 | 2.9 | 21.1 |
| 7 20 | 19 44.78 | −20 6.4 | 2.088 | 3.103 | 1.0 | 20.9 |
| 7 30 | 19 35.62 | −20 17.7 | 2.105 | 3.098 | 4.8 | 21.2 |
| 8 9 | 19 27.51 | −20 26.3 | 2.150 | 3.092 | 8.3 | 21.4 |
| 8 19 | 19 21.13 | −20 31.6 | 2.219 | 3.085 | 11.5 | 21.6 |

**507474** 2012 $TQ_{255}$ 7 17.3 197.°68 5.°9/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.14 | −37 57.3 | 2.425 | 3.250 | 12.1 | 22.5 |
| 6 20 | 20 13.30 | −38 48.9 | 2.347 | 3.247 | 9.8 | 22.4 |
| 6 30 | 20 5.09 | −39 34.9 | 2.293 | 3.243 | 7.6 | 22.2 |
| 7 10 | 19 55.16 | −40 9.9 | 2.264 | 3.240 | 6.0 | 22.1 |
| 7 20 | 19 44.39 | −40 29.3 | 2.262 | 3.235 | 6.2 | 22.1 |
| 7 30 | 19 33.88 | −40 30.7 | 2.287 | 3.231 | 7.9 | 22.2 |
| 8 9 | 19 24.69 | −40 14.7 | 2.337 | 3.225 | 10.2 | 22.3 |
| 8 19 | 19 17.60 | −39 43.9 | 2.410 | 3.220 | 12.5 | 22.5 |

**344644** 2003 $QC_{54}$ 7 17.3 327.°49 10.°4/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.23 | −41 5.5 | 1.310 | 2.173 | 18.3 | 19.5 |
| 6 20 | 20 13.37 | −41 57.6 | 1.224 | 2.143 | 15.4 | 19.2 |
| 6 30 | 20 6.43 | −42 39.8 | 1.157 | 2.114 | 12.6 | 19.0 |
| 7 10 | 19 56.15 | −43 1.2 | 1.109 | 2.085 | 10.6 | 18.8 |
| 7 20 | 19 43.97 | −42 52.2 | 1.082 | 2.058 | 10.8 | 18.7 |
| 7 30 | 19 32.02 | −42 7.7 | 1.077 | 2.032 | 13.3 | 18.8 |
| 8 9 | 19 22.43 | −40 50.3 | 1.091 | 2.008 | 16.9 | 18.9 |
| 8 19 | 19 16.64 | −39 7.7 | 1.124 | 1.985 | 20.6 | 19.1 |

**290809** 2005 $VG_{96}$ 7 17.3 307.°31 4.°6/19.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.20 | − 8 55.4 | 2.093 | 2.906 | 14.2 | 20.5 |
| 6 20 | 20 6.31 | − 8 23.2 | 2.002 | 2.895 | 11.6 | 20.3 |
| 6 30 | 20 0.47 | − 8 1.8 | 1.932 | 2.884 | 8.6 | 20.1 |
| 7 10 | 19 53.18 | − 7 52.1 | 1.885 | 2.874 | 5.8 | 19.9 |
| 7 20 | 19 45.13 | − 7 54.0 | 1.865 | 2.864 | 4.6 | 19.8 |
| 7 30 | 19 37.20 | − 8 6.6 | 1.871 | 2.854 | 6.3 | 19.9 |
| 8 9 | 19 30.25 | − 8 27.5 | 1.902 | 2.844 | 9.3 | 20.1 |
| 8 19 | 19 24.98 | − 8 54.0 | 1.957 | 2.834 | 12.3 | 20.3 |

**212687** 2006 $WL_{82}$ 7 17.3 307.°52 0.°5/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.79 | −18 23.6 | 1.970 | 2.811 | 13.9 | 20.6 |
| 6 20 | 20 7.00 | −18 38.2 | 1.881 | 2.800 | 10.8 | 20.4 |
| 6 30 | 20 1.05 | −19 0.4 | 1.813 | 2.790 | 7.2 | 20.1 |
| 7 10 | 19 53.47 | −19 27.8 | 1.771 | 2.780 | 3.2 | 19.9 |
| 7 20 | 19 45.03 | −19 57.6 | 1.754 | 2.769 | 1.2 | 19.7 |
| 7 30 | 19 36.72 | −20 26.7 | 1.765 | 2.759 | 5.3 | 20.0 |
| 8 9 | 19 29.51 | −20 52.6 | 1.801 | 2.750 | 9.2 | 20.2 |
| 8 19 | 19 24.18 | −21 13.8 | 1.861 | 2.740 | 12.7 | 20.4 |

**169833** 2002 $QY_{92}$ 7 17.3 3.°10 1.°4/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.64 | −22 35.0 | 1.801 | 2.651 | 14.6 | 20.1 |
| 6 20 | 20 8.61 | −23 9.2 | 1.725 | 2.651 | 11.3 | 19.9 |
| 6 30 | 20 2.17 | −23 49.0 | 1.671 | 2.651 | 7.4 | 19.7 |
| 7 10 | 19 53.95 | −24 30.2 | 1.641 | 2.651 | 3.3 | 19.4 |
| 7 20 | 19 44.87 | −25 8.5 | 1.638 | 2.651 | 2.1 | 19.3 |
| 7 30 | 19 36.03 | −25 40.0 | 1.661 | 2.652 | 6.0 | 19.6 |
| 8 9 | 19 28.52 | −26 2.5 | 1.709 | 2.652 | 10.0 | 19.8 |
| 8 19 | 19 23.16 | −26 15.6 | 1.780 | 2.653 | 13.5 | 20.1 |

**95407** 2002 $CJ_{212}$ 7 17.3 328.°03 0.°6/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.59 | −18 7.1 | 1.392 | 2.256 | 17.3 | 19.4 |
| 6 20 | 20 6.99 | −18 22.3 | 1.309 | 2.241 | 13.6 | 19.1 |
| 6 30 | 20 1.53 | −18 48.7 | 1.244 | 2.226 | 9.1 | 18.8 |
| 7 10 | 19 53.83 | −19 23.5 | 1.202 | 2.212 | 4.1 | 18.5 |
| 7 20 | 19 44.88 | −20 2.8 | 1.183 | 2.198 | 1.5 | 18.3 |
| 7 30 | 19 36.04 | −20 41.6 | 1.188 | 2.186 | 6.8 | 18.6 |
| 8 9 | 19 28.71 | −21 16.1 | 1.217 | 2.174 | 11.8 | 18.8 |
| 8 19 | 19 23.94 | −21 43.7 | 1.266 | 2.163 | 16.3 | 19.1 |

**16969** Helamuda 7 17.3 233.°35 0.°4/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.79 | −21 8.5 | 2.795 | 3.624 | 10.6 | 19.5 |
| 6 20 | 20 6.35 | −21 28.8 | 2.701 | 3.615 | 8.2 | 19.3 |
| 6 30 | 20 0.29 | −21 53.0 | 2.630 | 3.605 | 5.4 | 19.1 |
| 7 10 | 19 53.05 | −22 18.9 | 2.586 | 3.596 | 2.3 | 18.9 |
| 7 20 | 19 45.21 | −22 44.1 | 2.571 | 3.586 | 1.0 | 18.8 |
| 7 30 | 19 37.47 | −23 6.6 | 2.585 | 3.576 | 4.2 | 19.0 |
| 8 9 | 19 30.51 | −23 24.9 | 2.626 | 3.565 | 7.1 | 19.2 |
| 8 19 | 19 24.91 | −23 38.3 | 2.693 | 3.555 | 9.8 | 19.3 |

**400470** 2008 $GZ_{23}$ 7 17.3 186.°26 4.°5/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.80 | −33 35.6 | 2.514 | 3.348 | 11.5 | 21.3 |
| 6 20 | 20 9.78 | −34 27.4 | 2.437 | 3.348 | 9.1 | 21.2 |
| 6 30 | 20 2.70 | −35 16.6 | 2.384 | 3.347 | 6.6 | 21.0 |
| 7 10 | 19 54.13 | −35 58.5 | 2.357 | 3.347 | 4.8 | 20.9 |
| 7 20 | 19 44.82 | −36 29.1 | 2.357 | 3.346 | 4.8 | 20.9 |
| 7 30 | 19 35.71 | −36 45.8 | 2.385 | 3.344 | 6.7 | 21.0 |
| 8 9 | 19 27.71 | −36 48.2 | 2.439 | 3.343 | 9.2 | 21.2 |
| 8 19 | 19 21.52 | −36 37.7 | 2.516 | 3.341 | 11.6 | 21.3 |

**263642** 2008 $GN_{78}$ 7 17.3 299.°64 4.°7/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 8.83 | − 6 21.9 | 2.236 | 3.037 | 13.8 | 20.8 |
| 6 20 | 20 5.14 | − 6 12.1 | 2.145 | 3.029 | 11.3 | 20.7 |
| 6 30 | 19 59.64 | − 6 15.6 | 2.075 | 3.021 | 8.5 | 20.5 |
| 7 10 | 19 52.81 | − 6 32.8 | 2.029 | 3.013 | 5.9 | 20.3 |
| 7 20 | 19 45.30 | − 7 2.9 | 2.009 | 3.005 | 4.7 | 20.2 |
| 7 30 | 19 37.89 | − 7 43.9 | 2.016 | 2.998 | 6.0 | 20.3 |
| 8 9 | 19 31.36 | − 8 32.5 | 2.049 | 2.990 | 8.7 | 20.4 |
| 8 19 | 19 26.37 | − 9 25.1 | 2.106 | 2.983 | 11.6 | 20.6 |

**498170** 2007 $TV_{194}$ 7 17.3 258.°26 3.°6/15.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.25 | −26 48.5 | 1.478 | 2.336 | 16.8 | 22.4 |
| 6 20 | 20 12.95 | −27 33.1 | 1.399 | 2.328 | 13.1 | 22.1 |
| 6 30 | 20 5.48 | −28 21.4 | 1.340 | 2.320 | 8.9 | 21.9 |
| 7 10 | 19 55.54 | −29 7.0 | 1.305 | 2.311 | 4.8 | 21.6 |
| 7 20 | 19 44.29 | −29 43.1 | 1.295 | 2.303 | 4.2 | 21.5 |
| 7 30 | 19 33.26 | −30 4.9 | 1.309 | 2.294 | 8.1 | 21.8 |
| 8 9 | 19 23.98 | −30 10.9 | 1.347 | 2.285 | 12.6 | 22.0 |
| 8 19 | 19 17.56 | −30 2.5 | 1.406 | 2.276 | 16.6 | 22.2 |

**175864** 1999 $VC_{65}$ 7 17.3 310.°64 3.°0/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.17 | −14 48.9 | 1.354 | 2.209 | 18.2 | 19.9 |
| 6 20 | 20 9.01 | −14 31.1 | 1.270 | 2.194 | 14.5 | 19.6 |
| 6 30 | 20 2.89 | −14 25.0 | 1.204 | 2.180 | 10.1 | 19.3 |
| 7 10 | 19 54.44 | −14 30.2 | 1.160 | 2.166 | 5.4 | 19.0 |
| 7 20 | 19 44.69 | −14 44.9 | 1.140 | 2.152 | 3.2 | 18.9 |
| 7 30 | 19 35.05 | −15 6.4 | 1.143 | 2.139 | 7.2 | 19.1 |
| 8 9 | 19 26.98 | −15 31.1 | 1.169 | 2.126 | 12.2 | 19.3 |
| 8 19 | 19 21.55 | −15 56.1 | 1.216 | 2.114 | 16.7 | 19.5 |

**519320** 2011 $EC_{90}$ 7 17.3 123.°01 4.°7/15.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.11 | −32 25.0 | 1.864 | 2.705 | 14.6 | 21.9 |
| 6 20 | 20 14.31 | −32 58.3 | 1.799 | 2.715 | 11.4 | 21.7 |
| 6 30 | 20 5.85 | −33 28.1 | 1.755 | 2.724 | 8.1 | 21.6 |
| 7 10 | 19 55.50 | −33 48.6 | 1.736 | 2.733 | 5.3 | 21.4 |
| 7 20 | 19 44.37 | −33 55.4 | 1.743 | 2.741 | 5.0 | 21.4 |
| 7 30 | 19 33.74 | −33 46.5 | 1.777 | 2.749 | 7.6 | 21.6 |
| 8 9 | 19 24.78 | −33 22.9 | 1.836 | 2.757 | 10.8 | 21.8 |
| 8 19 | 19 18.31 | −32 47.5 | 1.918 | 2.765 | 13.8 | 22.0 |

**296093** 2009 $BD_{31}$ 7 17.3 192.°95 0.°5/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.67 | −20 11.2 | 2.025 | 2.865 | 13.6 | 21.0 |
| 6 20 | 20 8.35 | −20 42.7 | 1.945 | 2.864 | 10.5 | 20.8 |
| 6 30 | 20 1.88 | −21 20.9 | 1.887 | 2.864 | 6.9 | 20.6 |
| 7 10 | 19 53.82 | −22 2.4 | 1.854 | 2.863 | 3.0 | 20.3 |
| 7 20 | 19 44.97 | −22 43.6 | 1.848 | 2.863 | 1.3 | 20.2 |
| 7 30 | 19 36.31 | −23 20.9 | 1.870 | 2.862 | 5.3 | 20.5 |
| 8 9 | 19 28.80 | −23 51.8 | 1.918 | 2.861 | 9.1 | 20.7 |
| 8 19 | 19 23.18 | −24 15.3 | 1.989 | 2.860 | 12.4 | 20.9 |

**338695** 2003 $UY_{13}$ 7 17.3 283.°38 2.°5/16.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.86 | −24 59.8 | 1.886 | 2.734 | 14.1 | 20.8 |
| 6 20 | 20 9.77 | −25 43.7 | 1.789 | 2.713 | 11.0 | 20.5 |
| 6 30 | 20 3.15 | −26 32.7 | 1.713 | 2.691 | 7.4 | 20.3 |
| 7 10 | 19 54.50 | −27 22.2 | 1.662 | 2.669 | 3.7 | 20.0 |
| 7 20 | 19 44.68 | −28 6.9 | 1.637 | 2.647 | 3.1 | 19.9 |
| 7 30 | 19 34.84 | −28 42.2 | 1.639 | 2.625 | 6.7 | 20.1 |
| 8 9 | 19 26.19 | −29 5.7 | 1.667 | 2.603 | 10.7 | 20.3 |
| 8 19 | 19 19.70 | −29 17.0 | 1.717 | 2.581 | 14.4 | 20.4 |

**488514** 2000 $XY_{10}$ 7 17.3 201°.67 2°.5/16.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.34 | −26 43.2 | 2.313 | 3.147 | 12.3 | 22.5 |
| 6 20 | 20 11.04 | −27 22.4 | 2.227 | 3.143 | 9.6 | 22.4 |
| 6 30 | 20 3.60 | −28 3.3 | 2.164 | 3.138 | 6.4 | 22.2 |
| 7 10 | 19 54.57 | −28 41.7 | 2.127 | 3.132 | 3.4 | 21.9 |
| 7 20 | 19 44.72 | −29 13.8 | 2.119 | 3.126 | 2.9 | 21.9 |
| 7 30 | 19 35.03 | −29 36.4 | 2.139 | 3.120 | 5.8 | 22.1 |
| 8 9 | 19 26.44 | −29 48.4 | 2.185 | 3.113 | 9.0 | 22.3 |
| 8 19 | 19 19.71 | −29 50.2 | 2.256 | 3.105 | 12.0 | 22.5 |

**198622** 2005 $AU_{41}$ 7 17.3 237°.19 1°.4/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.23 | −23 6.0 | 2.012 | 2.854 | 13.6 | 20.7 |
| 6 20 | 20 9.68 | −23 35.2 | 1.926 | 2.847 | 10.5 | 20.5 |
| 6 30 | 20 2.83 | −24 8.9 | 1.862 | 2.840 | 7.0 | 20.2 |
| 7 10 | 19 54.27 | −24 43.5 | 1.823 | 2.832 | 3.1 | 20.0 |
| 7 20 | 19 44.83 | −25 15.0 | 1.812 | 2.825 | 2.0 | 19.9 |
| 7 30 | 19 35.53 | −25 40.2 | 1.827 | 2.817 | 5.7 | 20.1 |
| 8 9 | 19 27.43 | −25 57.1 | 1.869 | 2.809 | 9.5 | 20.3 |
| 8 19 | 19 21.33 | −26 5.6 | 1.934 | 2.801 | 12.9 | 20.5 |

**251327** 2007 $CJ_{44}$ 7 17.3 270°.35 2°.9/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.69 | −30 28.3 | 2.311 | 3.144 | 12.4 | 20.7 |
| 6 20 | 20 12.06 | −30 27.9 | 2.218 | 3.132 | 9.7 | 20.5 |
| 6 30 | 20 4.23 | −30 24.2 | 2.148 | 3.119 | 6.7 | 20.3 |
| 7 10 | 19 54.82 | −30 14.0 | 2.103 | 3.106 | 3.8 | 20.1 |
| 7 20 | 19 44.64 | −29 54.7 | 2.087 | 3.093 | 3.2 | 20.1 |
| 7 30 | 19 34.72 | −29 25.3 | 2.098 | 3.080 | 5.9 | 20.2 |
| 8 9 | 19 26.02 | −28 46.5 | 2.137 | 3.067 | 9.1 | 20.4 |
| 8 19 | 19 19.27 | −28 0.5 | 2.200 | 3.053 | 12.1 | 20.6 |

**345988** 2007 $TW_{166}$ 7 17.3 226°.89 1°.5/18.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.05 | −15 43.5 | 2.366 | 3.186 | 12.5 | 21.8 |
| 6 20 | 20 8.33 | −15 44.0 | 2.271 | 3.177 | 9.8 | 21.6 |
| 6 30 | 20 1.73 | −15 51.5 | 2.199 | 3.167 | 6.7 | 21.4 |
| 7 10 | 19 53.74 | −16 4.9 | 2.152 | 3.157 | 3.4 | 21.2 |
| 7 20 | 19 45.03 | −16 22.3 | 2.134 | 3.147 | 1.7 | 21.1 |
| 7 30 | 19 36.42 | −16 41.8 | 2.143 | 3.136 | 4.7 | 21.2 |
| 8 9 | 19 28.74 | −17 1.5 | 2.180 | 3.125 | 8.1 | 21.4 |
| 8 19 | 19 22.66 | −17 20.0 | 2.242 | 3.113 | 11.2 | 21.6 |

**504269** 2006 $VN_{143}$ 7 17.3 289°.69 1°.9/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.22 | −23 29.8 | 1.479 | 2.338 | 16.7 | 21.3 |
| 6 20 | 20 11.49 | −23 54.5 | 1.385 | 2.315 | 13.1 | 21.0 |
| 6 30 | 20 4.65 | −24 25.4 | 1.311 | 2.292 | 8.8 | 20.7 |
| 7 10 | 19 55.28 | −24 58.1 | 1.259 | 2.269 | 4.0 | 20.3 |
| 7 20 | 19 44.41 | −25 27.1 | 1.232 | 2.246 | 2.6 | 20.2 |
| 7 30 | 19 33.50 | −25 47.8 | 1.231 | 2.223 | 7.5 | 20.4 |
| 8 9 | 19 24.12 | −25 57.7 | 1.252 | 2.200 | 12.5 | 20.6 |
| 8 19 | 19 17.47 | −25 56.7 | 1.295 | 2.177 | 17.0 | 20.9 |

**7699** Božek 7 17.3 206°.26 2°.6/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.01 | −12 45.5 | 1.951 | 2.771 | 14.8 | 18.9 |
| 6 20 | 20 10.21 | −12 51.6 | 1.863 | 2.766 | 11.8 | 18.7 |
| 6 30 | 20 3.15 | −13 9.1 | 1.796 | 2.761 | 8.2 | 18.4 |
| 7 10 | 19 54.41 | −13 36.7 | 1.754 | 2.756 | 4.5 | 18.2 |
| 7 20 | 19 44.78 | −14 12.2 | 1.738 | 2.749 | 2.7 | 18.1 |
| 7 30 | 19 35.28 | −14 52.4 | 1.750 | 2.742 | 5.6 | 18.3 |
| 8 9 | 19 26.92 | −15 34.0 | 1.789 | 2.735 | 9.4 | 18.5 |
| 8 19 | 19 20.51 | −16 14.1 | 1.851 | 2.727 | 13.0 | 18.7 |

**94980** 2001 $YN_{115}$ 7 17.3 68°.11 2°.1/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.25 | −26 55.5 | 1.635 | 2.484 | 15.9 | 19.2 |
| 6 20 | 20 13.71 | −26 51.4 | 1.572 | 2.496 | 12.3 | 19.0 |
| 6 30 | 20 5.45 | −26 46.5 | 1.531 | 2.509 | 8.1 | 18.8 |
| 7 10 | 19 55.33 | −26 37.2 | 1.513 | 2.521 | 3.9 | 18.6 |
| 7 20 | 19 44.50 | −26 20.7 | 1.521 | 2.533 | 2.6 | 18.5 |
| 7 30 | 19 34.27 | −25 56.0 | 1.556 | 2.546 | 6.5 | 18.8 |
| 8 9 | 19 25.82 | −25 24.1 | 1.616 | 2.559 | 10.5 | 19.1 |
| 8 19 | 19 19.92 | −24 47.1 | 1.698 | 2.571 | 14.1 | 19.3 |

**140886** 2001 $VY_{27}$ 7 17.3 171°.54 1°.9/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.35 | −25 26.2 | 2.460 | 3.295 | 11.6 | 20.3 |
| 6 20 | 20 8.52 | −25 56.5 | 2.379 | 3.297 | 9.0 | 20.1 |
| 6 30 | 20 1.81 | −26 28.6 | 2.323 | 3.298 | 5.9 | 19.9 |
| 7 10 | 19 53.75 | −26 59.2 | 2.293 | 3.300 | 2.9 | 19.7 |
| 7 20 | 19 45.05 | −27 25.2 | 2.290 | 3.301 | 2.3 | 19.6 |
| 7 30 | 19 36.55 | −27 44.1 | 2.317 | 3.302 | 5.1 | 19.8 |
| 8 9 | 19 29.06 | −27 54.9 | 2.370 | 3.302 | 8.2 | 20.0 |
| 8 19 | 19 23.23 | −27 57.6 | 2.447 | 3.302 | 10.9 | 20.2 |

**479130** 2013 $BA_{37}$ 7 17.3 252°.45 0°.6/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.39 | −16 54.1 | 2.315 | 3.141 | 12.6 | 22.1 |
| 6 20 | 20 8.00 | −17 21.3 | 2.214 | 3.124 | 9.8 | 21.8 |
| 6 30 | 20 1.63 | −17 56.9 | 2.135 | 3.107 | 6.6 | 21.6 |
| 7 10 | 19 53.75 | −18 38.7 | 2.082 | 3.090 | 3.0 | 21.3 |
| 7 20 | 19 45.03 | −19 23.8 | 2.057 | 3.072 | 1.1 | 21.2 |
| 7 30 | 19 36.31 | −20 8.8 | 2.061 | 3.054 | 4.8 | 21.4 |
| 8 9 | 19 28.47 | −20 50.9 | 2.092 | 3.036 | 8.4 | 21.6 |
| 8 19 | 19 22.25 | −21 28.0 | 2.147 | 3.017 | 11.7 | 21.8 |

**61862** 2000 $QA_{208}$ 7 17.3 270°.34 4°.9/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.74 | −34 5.2 | 2.234 | 3.072 | 12.6 | 19.8 |
| 6 20 | 20 10.84 | −34 44.8 | 2.148 | 3.061 | 10.0 | 19.6 |
| 6 30 | 20 3.59 | −35 21.2 | 2.085 | 3.050 | 7.3 | 19.4 |
| 7 10 | 19 54.61 | −35 49.3 | 2.047 | 3.038 | 5.2 | 19.3 |
| 7 20 | 19 44.74 | −36 4.7 | 2.036 | 3.027 | 5.2 | 19.3 |
| 7 30 | 19 35.07 | −36 4.8 | 2.052 | 3.015 | 7.4 | 19.4 |
| 8 9 | 19 26.65 | −35 49.8 | 2.093 | 3.004 | 10.2 | 19.5 |
| 8 19 | 19 20.29 | −35 21.5 | 2.156 | 2.992 | 12.9 | 19.7 |

**48755** 1997 $GQ_{24}$ 7 17.3 86°.86 1°.6/16.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.98 | −22 50.0 | 1.543 | 2.395 | 16.5 | 19.2 |
| 6 20 | 20 12.17 | −23 22.1 | 1.482 | 2.408 | 12.7 | 19.0 |
| 6 30 | 20 4.59 | −23 59.5 | 1.442 | 2.421 | 8.3 | 18.8 |
| 7 10 | 19 55.03 | −24 37.5 | 1.425 | 2.435 | 3.7 | 18.6 |
| 7 20 | 19 44.62 | −25 10.8 | 1.434 | 2.448 | 2.3 | 18.5 |
| 7 30 | 19 34.69 | −25 35.7 | 1.469 | 2.461 | 6.6 | 18.8 |
| 8 9 | 19 26.48 | −25 50.5 | 1.529 | 2.473 | 10.9 | 19.1 |
| 8 19 | 19 20.84 | −25 55.7 | 1.611 | 2.486 | 14.6 | 19.3 |

**65343** 2002 $NO_{16}$ 7 17.3 349°.01 0°.8/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.49 | −19 6.5 | 1.623 | 2.474 | 15.9 | 19.2 |
| 6 20 | 20 8.67 | −18 59.2 | 1.546 | 2.471 | 12.4 | 18.9 |
| 6 30 | 20 2.31 | −18 58.4 | 1.489 | 2.467 | 8.3 | 18.7 |
| 7 10 | 19 54.08 | −19 2.4 | 1.456 | 2.465 | 3.7 | 18.4 |
| 7 20 | 19 44.95 | −19 8.7 | 1.447 | 2.463 | 1.4 | 18.3 |
| 7 30 | 19 36.10 | −19 15.0 | 1.465 | 2.461 | 6.0 | 18.6 |
| 8 9 | 19 28.68 | −19 19.6 | 1.507 | 2.460 | 10.3 | 18.8 |
| 8 19 | 19 23.54 | −19 21.6 | 1.571 | 2.459 | 14.2 | 19.0 |

**66661** Wallin 7 17.3 54°.90 11°.6/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 35.35 | −55 19.8 | 2.052 | 2.823 | 15.8 | 18.9 |
| 6 20 | 20 26.53 | −56 2.2 | 2.008 | 2.840 | 14.1 | 18.8 |
| 6 30 | 20 13.91 | −56 24.5 | 1.983 | 2.856 | 12.6 | 18.7 |
| 7 10 | 19 58.88 | −56 18.5 | 1.980 | 2.873 | 11.7 | 18.7 |
| 7 20 | 19 43.32 | −55 39.8 | 1.999 | 2.890 | 11.7 | 18.7 |
| 7 30 | 19 29.23 | −54 29.2 | 2.041 | 2.907 | 12.5 | 18.8 |
| 8 9 | 19 18.13 | −52 52.7 | 2.106 | 2.924 | 13.9 | 18.9 |
| 8 19 | 19 10.74 | −50 58.4 | 2.191 | 2.942 | 15.4 | 19.1 |

**81071** 2000 $EY_{78}$ 7 17.3 242°.31 0°.1/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.48 | −18 49.2 | 1.849 | 2.687 | 14.8 | 20.3 |
| 6 20 | 20 10.88 | −19 11.9 | 1.756 | 2.674 | 11.6 | 20.1 |
| 6 30 | 20 3.79 | −19 43.0 | 1.684 | 2.660 | 7.7 | 19.8 |
| 7 10 | 19 54.77 | −20 19.6 | 1.637 | 2.646 | 3.4 | 19.5 |
| 7 20 | 19 44.68 | −20 57.9 | 1.617 | 2.632 | 1.2 | 19.3 |
| 7 30 | 19 34.64 | −21 34.0 | 1.624 | 2.617 | 5.8 | 19.6 |
| 8 9 | 19 25.81 | −22 5.1 | 1.656 | 2.602 | 10.1 | 19.8 |
| 8 19 | 19 19.11 | −22 29.5 | 1.712 | 2.586 | 13.9 | 20.0 |

**261516** 2005 $WH_{66}$ 7 17.3 324°.46 4°.0/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.60 | −28 41.4 | 1.988 | 2.839 | 13.4 | 20.3 |
| 6 20 | 20 7.86 | −29 43.0 | 1.906 | 2.830 | 10.4 | 20.1 |
| 6 30 | 20 1.77 | −30 46.8 | 1.847 | 2.822 | 7.2 | 19.9 |
| 7 10 | 19 53.88 | −31 47.2 | 1.812 | 2.813 | 4.5 | 19.7 |
| 7 20 | 19 45.03 | −32 38.8 | 1.804 | 2.805 | 4.4 | 19.7 |
| 7 30 | 19 36.30 | −33 17.0 | 1.823 | 2.798 | 7.2 | 19.9 |
| 8 9 | 19 28.78 | −33 40.2 | 1.866 | 2.790 | 10.5 | 20.0 |
| 8 19 | 19 23.33 | −33 48.8 | 1.932 | 2.783 | 13.5 | 20.2 |

**255056** 2005 $TT_{152}$ 7 17.3 197°.34 2°.2/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.48 | −13 23.0 | 3.099 | 3.902 | 10.3 | 22.1 |
| 6 20 | 20 6.60 | −13 6.1 | 3.006 | 3.899 | 8.1 | 21.9 |
| 6 30 | 20 0.33 | −12 54.9 | 2.936 | 3.895 | 5.7 | 21.7 |
| 7 10 | 19 53.08 | −12 49.0 | 2.893 | 3.891 | 3.3 | 21.6 |
| 7 20 | 19 45.37 | −12 47.7 | 2.879 | 3.887 | 2.2 | 21.5 |
| 7 30 | 19 37.77 | −12 50.2 | 2.894 | 3.882 | 4.0 | 21.6 |
| 8 9 | 19 30.88 | −12 55.4 | 2.938 | 3.877 | 6.5 | 21.8 |
| 8 19 | 19 25.18 | −13 2.2 | 3.008 | 3.871 | 8.9 | 21.9 |

**9902** Kirkpatrick 7 17.3 206°.51 1°.4/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.29 | −17 59.3 | 1.544 | 2.386 | 17.0 | 18.1 |
| 6 20 | 20 13.31 | −17 46.9 | 1.464 | 2.383 | 13.3 | 17.9 |
| 6 30 | 20 5.49 | −17 42.1 | 1.405 | 2.380 | 9.0 | 17.6 |
| 7 10 | 19 55.53 | −17 42.9 | 1.369 | 2.376 | 4.2 | 17.3 |
| 7 20 | 19 44.50 | −17 47.3 | 1.358 | 2.373 | 1.8 | 17.2 |
| 7 30 | 19 33.76 | −17 52.7 | 1.374 | 2.368 | 6.4 | 17.5 |
| 8 9 | 19 24.62 | −17 57.4 | 1.414 | 2.364 | 11.1 | 17.7 |
| 8 19 | 19 18.04 | −18 0.5 | 1.476 | 2.359 | 15.3 | 18.0 |

**19054** 1058 $T\text{-}_2$ 7 17.3 119°.32 2°.5/18.6 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.13 | −12 39.3 | 2.332 | 3.148 | 12.8 | 19.4 |
| 6 20 | 20 6.76 | −12 35.8 | 2.253 | 3.154 | 10.1 | 19.2 |
| 6 30 | 20 0.64 | −12 41.4 | 2.196 | 3.159 | 7.1 | 19.0 |
| 7 10 | 19 53.28 | −12 55.0 | 2.164 | 3.164 | 4.0 | 18.8 |
| 7 20 | 19 45.34 | −13 15.2 | 2.160 | 3.170 | 2.6 | 18.8 |
| 7 30 | 19 37.61 | −13 40.1 | 2.184 | 3.175 | 4.8 | 18.9 |
| 8 9 | 19 30.83 | −14 7.2 | 2.235 | 3.180 | 7.9 | 19.1 |
| 8 19 | 19 25.60 | −14 34.6 | 2.310 | 3.185 | 10.8 | 19.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **362409** 2010 $PD_{10}$ | | | 7 17.3 | 18°.10 | 6°.6/18.8 | 17 |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.27 | −12 2.6 | 0.924 | 1.802 | 22.8 | 19.1 |
| 6 20 | 20 8.08 | −10 50.5 | 0.875 | 1.809 | 18.4 | 18.8 |
| 6 30 | 20 2.41 | − 9 54.9 | 0.842 | 1.817 | 13.4 | 18.6 |
| 7 10 | 19 54.24 | − 9 19.0 | 0.828 | 1.827 | 8.6 | 18.4 |
| 7 20 | 19 45.02 | − 9 3.8 | 0.833 | 1.839 | 6.6 | 18.3 |
| 7 30 | 19 36.48 | − 9 7.7 | 0.859 | 1.852 | 9.5 | 18.5 |
| 8 9 | 19 30.16 | − 9 25.9 | 0.904 | 1.867 | 14.1 | 18.8 |
| 8 19 | 19 27.01 | − 9 52.9 | 0.968 | 1.883 | 18.4 | 19.2 |
| **475896** 2007 $DV_{40}$ | | | 7 17.3 | 145°.89 | 2°.1/16.4 | 18 |
| 6 10 | 20 14.96 | −27 54.3 | 2.554 | 3.386 | 11.4 | 22.0 |
| 6 20 | 20 9.64 | −28 3.6 | 2.476 | 3.391 | 8.8 | 21.8 |
| 6 30 | 20 2.49 | −28 11.9 | 2.422 | 3.395 | 5.9 | 21.6 |
| 7 10 | 19 54.06 | −28 16.5 | 2.394 | 3.399 | 3.0 | 21.5 |
| 7 20 | 19 45.09 | −28 15.1 | 2.394 | 3.403 | 2.4 | 21.4 |
| 7 30 | 19 36.40 | −28 6.4 | 2.423 | 3.407 | 5.0 | 21.6 |
| 8 9 | 19 28.78 | −27 50.4 | 2.480 | 3.411 | 7.9 | 21.8 |
| 8 19 | 19 22.82 | −27 28.1 | 2.561 | 3.414 | 10.6 | 22.0 |
| **36993** 2000 $SM_{364}$ | | | 7 17.3 | 342°.32 | 4°.0/15.1 | 18 |
| 6 10 | 20 11.91 | −27 42.8 | 1.878 | 2.732 | 13.9 | 18.2 |
| 6 20 | 20 8.21 | −28 53.3 | 1.801 | 2.728 | 10.8 | 18.0 |
| 6 30 | 20 2.06 | −30 7.1 | 1.747 | 2.724 | 7.4 | 17.8 |
| 7 10 | 19 54.05 | −31 18.1 | 1.718 | 2.720 | 4.5 | 17.6 |
| 7 20 | 19 45.06 | −32 20.2 | 1.715 | 2.717 | 4.5 | 17.6 |
| 7 30 | 19 36.22 | −33 8.3 | 1.738 | 2.714 | 7.4 | 17.8 |
| 8 9 | 19 28.66 | −33 40.4 | 1.786 | 2.712 | 10.8 | 18.0 |
| 8 19 | 19 23.27 | −33 56.6 | 1.856 | 2.710 | 13.9 | 18.2 |
| **89363** 2001 $VC_{81}$ | | | 7 17.3 | 108°.87 | 4°.8/14.9 | 18 |
| 6 10 | 20 19.21 | −31 11.9 | 1.994 | 2.833 | 13.8 | 18.6 |
| 6 20 | 20 13.52 | −32 24.8 | 1.938 | 2.853 | 10.8 | 18.4 |
| 6 30 | 20 5.33 | −33 36.3 | 1.905 | 2.872 | 7.6 | 18.2 |
| 7 10 | 19 55.37 | −34 39.7 | 1.897 | 2.891 | 5.2 | 18.1 |
| 7 20 | 19 44.62 | −35 29.2 | 1.916 | 2.910 | 5.2 | 18.2 |
| 7 30 | 19 34.28 | −36 1.4 | 1.963 | 2.927 | 7.6 | 18.3 |
| 8 9 | 19 25.44 | −36 16.0 | 2.035 | 2.945 | 10.5 | 18.6 |
| 8 19 | 19 18.91 | −36 15.1 | 2.130 | 2.961 | 13.2 | 18.8 |
| **121426** 1999 $TX_{153}$ | | | 7 17.3 | 337°.06 | 2°.7/16.3 | 18 |
| 6 10 | 20 9.75 | −24 22.6 | 1.355 | 2.229 | 17.1 | 19.0 |
| 6 20 | 20 7.34 | −25 0.9 | 1.277 | 2.215 | 13.3 | 18.7 |
| 6 30 | 20 1.92 | −25 45.7 | 1.218 | 2.202 | 8.9 | 18.4 |
| 7 10 | 19 54.12 | −26 31.6 | 1.180 | 2.190 | 4.3 | 18.1 |
| 7 20 | 19 45.03 | −27 12.3 | 1.167 | 2.178 | 3.3 | 18.1 |
| 7 30 | 19 36.12 | −27 42.6 | 1.177 | 2.168 | 7.8 | 18.3 |
| 8 9 | 19 28.87 | −27 59.4 | 1.209 | 2.159 | 12.6 | 18.5 |
| 8 19 | 19 24.36 | −28 2.9 | 1.261 | 2.151 | 16.8 | 18.8 |
| **433858** 2015 $BY_{278}$ | | | 7 17.4 | 207°.16 | 0°.1/17.4 | 17 |
| 6 10 | 20 16.45 | −19 55.8 | 1.827 | 2.665 | 14.9 | 22.2 |
| 6 20 | 20 11.55 | −20 8.1 | 1.743 | 2.661 | 11.6 | 21.9 |
| 6 30 | 20 4.17 | −20 26.9 | 1.681 | 2.657 | 7.7 | 21.7 |
| 7 10 | 19 54.94 | −20 49.3 | 1.644 | 2.653 | 3.4 | 21.4 |
| 7 20 | 19 44.78 | −21 11.9 | 1.633 | 2.648 | 1.2 | 21.3 |
| 7 30 | 19 34.82 | −21 31.7 | 1.649 | 2.643 | 5.7 | 21.6 |
| 8 9 | 19 26.19 | −21 46.7 | 1.692 | 2.637 | 9.9 | 21.8 |
| 8 19 | 19 19.75 | −21 56.2 | 1.757 | 2.631 | 13.6 | 22.0 |
| **514422** 2016 $TE_{97}$ | | | 7 17.4 | 141°.74 | 0°.3/17.2 | 18 |
| 6 10 | 20 10.83 | −19 12.4 | 2.385 | 3.218 | 12.0 | 21.5 |
| 6 20 | 20 6.65 | −19 51.5 | 2.304 | 3.219 | 9.3 | 21.3 |
| 6 30 | 20 0.65 | −20 37.3 | 2.245 | 3.221 | 6.1 | 21.1 |
| 7 10 | 19 53.34 | −21 26.7 | 2.213 | 3.223 | 2.6 | 20.8 |
| 7 20 | 19 45.37 | −22 16.4 | 2.209 | 3.224 | 1.1 | 20.7 |
| 7 30 | 19 37.55 | −23 3.1 | 2.234 | 3.226 | 4.6 | 21.0 |
| 8 9 | 19 30.65 | −23 44.2 | 2.285 | 3.227 | 7.9 | 21.2 |
| 8 19 | 19 25.33 | −24 18.3 | 2.361 | 3.229 | 10.8 | 21.4 |
| **43168** 1999 $XO_{161}$ | | | 7 17.4 | 358°.01 | 5°.0/18.3 | 18 |
| 6 10 | 20 12.97 | −13 20.6 | 1.436 | 2.281 | 17.9 | 17.6 |
| 6 20 | 20 9.23 | −12 12.4 | 1.362 | 2.278 | 14.3 | 17.4 |
| 6 30 | 20 2.78 | −11 12.8 | 1.309 | 2.276 | 10.4 | 17.1 |
| 7 10 | 19 54.37 | −10 23.8 | 1.277 | 2.275 | 6.5 | 16.9 |
| 7 20 | 19 45.01 | − 9 47.0 | 1.269 | 2.275 | 5.0 | 16.8 |
| 7 30 | 19 36.01 | − 9 22.7 | 1.286 | 2.275 | 7.7 | 17.0 |
| 8 9 | 19 28.58 | − 9 9.9 | 1.327 | 2.277 | 11.7 | 17.2 |
| 8 19 | 19 23.58 | − 9 6.2 | 1.388 | 2.279 | 15.5 | 17.5 |
| **325077** 2008 $DZ_5$ | | | 7 17.4 | 137°.40 | 1°.0/16.9 | 17 |
| 6 10 | 20 18.63 | −22 18.1 | 1.802 | 2.641 | 15.1 | 22.3 |
| 6 20 | 20 13.11 | −22 39.9 | 1.733 | 2.652 | 11.6 | 22.1 |
| 6 30 | 20 5.10 | −23 6.3 | 1.686 | 2.663 | 7.6 | 21.9 |
| 7 10 | 19 55.30 | −23 33.4 | 1.663 | 2.672 | 3.3 | 21.7 |
| 7 20 | 19 44.70 | −23 57.3 | 1.667 | 2.682 | 1.7 | 21.6 |
| 7 30 | 19 34.49 | −24 15.0 | 1.699 | 2.690 | 5.9 | 21.9 |
| 8 9 | 19 25.77 | −24 25.1 | 1.757 | 2.698 | 9.9 | 22.1 |
| 8 19 | 19 19.35 | −24 27.8 | 1.837 | 2.706 | 13.4 | 22.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **131975** 2002 $CB_{58}$ | | | 7 17.4 | 20°.80 | 0°.3/17.5 | 17 |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.83 | −18 58.5 | 1.005 | 1.890 | 20.8 | 19.1 |
| 6 20 | 20 8.53 | −19 10.2 | 0.953 | 1.896 | 16.2 | 18.9 |
| 6 30 | 20 2.76 | −19 33.8 | 0.918 | 1.905 | 10.7 | 18.6 |
| 7 10 | 19 54.45 | −20 5.4 | 0.903 | 1.914 | 4.7 | 18.3 |
| 7 20 | 19 45.02 | −20 39.4 | 0.910 | 1.925 | 1.6 | 18.1 |
| 7 30 | 19 36.21 | −21 10.5 | 0.938 | 1.937 | 7.6 | 18.5 |
| 8 9 | 19 29.60 | −21 34.9 | 0.987 | 1.950 | 13.1 | 18.9 |
| 8 19 | 19 26.16 | −21 51.1 | 1.055 | 1.964 | 17.7 | 19.2 |
| **296414** 2009 $HT_1$ | | | 7 17.4 | 34°.98 | 1°.3/17.8 | 17 |
| 6 10 | 20 13.70 | −16 31.6 | 1.299 | 2.158 | 18.6 | 20.9 |
| 6 20 | 20 10.13 | −16 45.8 | 1.234 | 2.162 | 14.6 | 20.6 |
| 6 30 | 20 3.56 | −17 12.9 | 1.188 | 2.167 | 9.8 | 20.4 |
| 7 10 | 19 54.76 | −17 49.8 | 1.163 | 2.172 | 4.5 | 20.1 |
| 7 20 | 19 44.89 | −18 31.9 | 1.162 | 2.177 | 1.8 | 19.9 |
| 7 30 | 19 35.42 | −19 14.2 | 1.186 | 2.183 | 6.8 | 20.3 |
| 8 9 | 19 27.73 | −19 52.5 | 1.233 | 2.189 | 11.7 | 20.6 |
| 8 19 | 19 22.77 | −20 24.3 | 1.300 | 2.196 | 16.1 | 20.8 |
| **341095** 2007 $JY_9$ | | | 7 17.4 | 35°.08 | 7°.6/19.5 | 17 |
| 6 10 | 20 13.92 | − 5 29.2 | 1.627 | 2.437 | 17.7 | 19.9 |
| 6 20 | 20 9.57 | − 4 15.4 | 1.557 | 2.442 | 14.7 | 19.7 |
| 6 30 | 20 2.82 | − 3 16.1 | 1.506 | 2.447 | 11.6 | 19.5 |
| 7 10 | 19 54.34 | − 2 34.6 | 1.478 | 2.452 | 8.8 | 19.4 |
| 7 20 | 19 45.06 | − 2 12.8 | 1.473 | 2.457 | 7.6 | 19.3 |
| 7 30 | 19 36.09 | − 2 10.4 | 1.493 | 2.463 | 9.0 | 19.4 |
| 8 9 | 19 28.51 | − 2 24.8 | 1.537 | 2.469 | 11.7 | 19.6 |
| 8 19 | 19 23.09 | − 2 51.6 | 1.602 | 2.475 | 14.8 | 19.8 |
| **239344** 2007 $RS_{114}$ | | | 7 17.4 | 350°.25 | 3°.1/18.6 | 17 |
| 6 10 | 20 12.25 | −12 32.9 | 1.890 | 2.717 | 14.9 | 20.4 |
| 6 20 | 20 8.09 | −12 20.6 | 1.810 | 2.717 | 11.9 | 20.2 |
| 6 30 | 20 1.77 | −12 18.9 | 1.751 | 2.716 | 8.4 | 20.0 |
| 7 10 | 19 53.88 | −12 27.3 | 1.716 | 2.716 | 4.8 | 19.8 |
| 7 20 | 19 45.22 | −12 44.4 | 1.707 | 2.716 | 3.2 | 19.6 |
| 7 30 | 19 36.77 | −13 7.8 | 1.724 | 2.716 | 5.8 | 19.8 |
| 8 9 | 19 29.49 | −13 34.9 | 1.767 | 2.716 | 9.4 | 20.0 |
| 8 19 | 19 24.13 | −14 3.1 | 1.833 | 2.716 | 12.8 | 20.2 |
| **327656** 2006 $QW_{60}$ | | | 7 17.4 | 278°.24 | 2°.9/18.6 | 18 |
| 6 10 | 20 12.89 | −12 26.5 | 1.527 | 2.366 | 17.3 | 20.5 |
| 6 20 | 20 9.33 | −12 38.8 | 1.438 | 2.353 | 13.8 | 20.2 |
| 6 30 | 20 3.04 | −13 6.8 | 1.369 | 2.339 | 9.7 | 20.0 |
| 7 10 | 19 54.60 | −13 49.2 | 1.322 | 2.326 | 5.3 | 19.7 |
| 7 20 | 19 44.92 | −14 43.0 | 1.300 | 2.312 | 3.0 | 19.5 |
| 7 30 | 19 35.28 | −15 43.3 | 1.303 | 2.298 | 6.6 | 19.7 |
| 8 9 | 19 26.98 | −16 44.6 | 1.331 | 2.285 | 11.3 | 19.9 |
| 8 19 | 19 21.06 | −17 42.7 | 1.380 | 2.271 | 15.6 | 20.1 |
| **308336** 2005 $OW_{31}$ | | | 7 17.4 | 328°.33 | 0°.9/16.8 | 18 |
| 6 10 | 20 9.77 | −19 16.7 | 1.775 | 2.627 | 14.7 | 19.7 |
| 6 20 | 20 6.61 | −20 14.7 | 1.689 | 2.615 | 11.4 | 19.4 |
| 6 30 | 20 1.07 | −21 23.7 | 1.624 | 2.604 | 7.5 | 19.2 |
| 7 10 | 19 53.68 | −22 39.5 | 1.584 | 2.594 | 3.3 | 18.9 |
| 7 20 | 19 45.27 | −23 56.2 | 1.570 | 2.584 | 1.7 | 18.8 |
| 7 30 | 19 36.90 | −25 8.0 | 1.583 | 2.575 | 6.1 | 19.0 |
| 8 9 | 19 29.71 | −26 10.2 | 1.620 | 2.566 | 10.3 | 19.3 |
| 8 19 | 19 24.60 | −27 0.5 | 1.681 | 2.558 | 14.0 | 19.5 |
| **11455** Richardstarr | | | 7 17.4 | 202°.96 | 3°.3/18.8 | 18 |
| 6 10 | 20 11.75 | −11 33.0 | 2.379 | 3.190 | 12.7 | 18.3 |
| 6 20 | 20 7.24 | −11 9.2 | 2.293 | 3.188 | 10.2 | 18.1 |
| 6 30 | 20 0.99 | −10 53.7 | 2.229 | 3.187 | 7.3 | 17.9 |
| 7 10 | 19 53.49 | −10 46.7 | 2.191 | 3.186 | 4.5 | 17.7 |
| 7 20 | 19 45.38 | −10 47.4 | 2.179 | 3.184 | 3.3 | 17.6 |
| 7 30 | 19 37.44 | −10 54.9 | 2.196 | 3.183 | 5.2 | 17.8 |
| 8 9 | 19 30.43 | −11 7.4 | 2.239 | 3.181 | 8.1 | 17.9 |
| 8 19 | 19 24.94 | −11 23.0 | 2.307 | 3.179 | 10.9 | 18.1 |
| **295469** 2008 $QU_7$ | | | 7 17.4 | 22°.34 | 0°.6/17.7 | 17 |
| 6 10 | 20 10.11 | −12 2.0 | 1.267 | 2.123 | 19.2 | 19.2 |
| 6 20 | 20 7.46 | −13 40.6 | 1.204 | 2.131 | 15.0 | 19.0 |
| 6 30 | 20 1.89 | −15 43.5 | 1.161 | 2.140 | 10.0 | 18.7 |
| 7 10 | 19 54.09 | −18 3.7 | 1.140 | 2.149 | 4.5 | 18.4 |
| 7 20 | 19 45.14 | −20 30.4 | 1.144 | 2.160 | 1.4 | 18.3 |
| 7 30 | 19 36.47 | −22 51.4 | 1.175 | 2.171 | 6.9 | 18.6 |
| 8 9 | 19 29.48 | −24 56.8 | 1.229 | 2.184 | 12.0 | 19.0 |
| 8 19 | 19 25.16 | −26 41.0 | 1.306 | 2.197 | 16.3 | 19.3 |
| **319124** 2005 $XR_{80}$ | | | 7 17.4 | 229°.94 | 6°.5/12.7 | 18 |
| 6 10 | 20 20.09 | −45 44.2 | 3.266 | 4.060 | 10.0 | 22.2 |
| 6 20 | 20 13.79 | −46 37.2 | 3.180 | 4.045 | 8.5 | 22.0 |
| 6 30 | 20 5.39 | −47 22.2 | 3.117 | 4.030 | 7.2 | 21.9 |
| 7 10 | 19 55.44 | −47 54.6 | 3.080 | 4.014 | 6.5 | 21.9 |
| 7 20 | 19 44.68 | −48 10.7 | 3.070 | 3.998 | 6.8 | 21.9 |
| 7 30 | 19 34.06 | −48 8.5 | 3.086 | 3.981 | 7.8 | 21.9 |
| 8 9 | 19 24.52 | −47 48.7 | 3.127 | 3.964 | 9.3 | 22.0 |
| 8 19 | 19 16.80 | −47 13.5 | 3.191 | 3.946 | 10.9 | 22.1 |

**430199** 2013 $TA_{132}$ 7 17.4 227°.14 1°.4/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.77 | −23 6.5 | 1.938 | 2.777 | 14.2 | 21.9 |
| 6 20 | 20 11.80 | −23 31.4 | 1.849 | 2.768 | 11.0 | 21.6 |
| 6 30 | 20 4.37 | −24 0.8 | 1.782 | 2.759 | 7.3 | 21.4 |
| 7 10 | 19 55.08 | −24 30.9 | 1.740 | 2.749 | 3.3 | 21.1 |
| 7 20 | 19 44.80 | −24 57.8 | 1.725 | 2.738 | 2.0 | 21.0 |
| 7 30 | 19 34.65 | −25 18.1 | 1.737 | 2.727 | 5.9 | 21.2 |
| 8 9 | 19 25.76 | −25 30.1 | 1.776 | 2.716 | 9.9 | 21.5 |
| 8 19 | 19 19.01 | −25 33.8 | 1.837 | 2.704 | 13.5 | 21.7 |

**437997** 2003 $UY_{118}$ 7 17.4 283°.32 8°.2/20.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.97 | − 0 29.1 | 1.914 | 2.695 | 16.4 | 21.4 |
| 6 20 | 20 7.20 | + 0 20.3 | 1.821 | 2.681 | 14.1 | 21.2 |
| 6 30 | 20 1.29 | + 0 53.0 | 1.748 | 2.667 | 11.5 | 21.1 |
| 7 10 | 19 53.74 | + 1 5.9 | 1.696 | 2.653 | 9.3 | 20.9 |
| 7 20 | 19 45.28 | + 0 57.3 | 1.668 | 2.638 | 8.2 | 20.8 |
| 7 30 | 19 36.86 | + 0 27.9 | 1.665 | 2.624 | 9.1 | 20.8 |
| 8 9 | 19 29.46 | − 0 19.1 | 1.686 | 2.610 | 11.4 | 20.9 |
| 8 19 | 19 23.86 | − 1 18.8 | 1.729 | 2.596 | 14.2 | 21.1 |

**34659** 2000 $WS_{159}$ 7 17.4 56°.08 1°.0/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.43 | −16 51.9 | 2.044 | 2.879 | 13.7 | 18.6 |
| 6 20 | 20 7.24 | −17 3.2 | 1.975 | 2.890 | 10.6 | 18.5 |
| 6 30 | 20 1.08 | −17 22.3 | 1.928 | 2.902 | 7.1 | 18.3 |
| 7 10 | 19 53.55 | −17 47.1 | 1.906 | 2.914 | 3.3 | 18.0 |
| 7 20 | 19 45.39 | −18 14.9 | 1.911 | 2.926 | 1.3 | 17.9 |
| 7 30 | 19 37.53 | −18 43.0 | 1.943 | 2.938 | 4.9 | 18.2 |
| 8 9 | 19 30.81 | −19 9.1 | 2.002 | 2.950 | 8.4 | 18.4 |
| 8 19 | 19 25.88 | −19 31.7 | 2.084 | 2.963 | 11.6 | 18.7 |

**503924** 2002 $XW_{71}$ 7 17.4 241°.22 2°.0/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.87 | −16 28.6 | 2.046 | 2.867 | 14.2 | 22.0 |
| 6 20 | 20 12.47 | −16 8.8 | 1.945 | 2.851 | 11.2 | 21.8 |
| 6 30 | 20 4.75 | −15 54.9 | 1.865 | 2.833 | 7.7 | 21.6 |
| 7 10 | 19 55.24 | −15 46.2 | 1.811 | 2.815 | 3.9 | 21.3 |
| 7 20 | 19 44.76 | −15 41.3 | 1.784 | 2.796 | 2.1 | 21.1 |
| 7 30 | 19 34.32 | −15 39.2 | 1.785 | 2.777 | 5.6 | 21.3 |
| 8 9 | 19 25.00 | −15 38.4 | 1.813 | 2.757 | 9.5 | 21.5 |
| 8 19 | 19 17.63 | −15 38.3 | 1.865 | 2.736 | 13.1 | 21.7 |

**122821** 2000 $SA_{107}$ 7 17.4 277°.33 1°.6/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.43 | −23 53.6 | 1.809 | 2.656 | 14.7 | 19.6 |
| 6 20 | 20 11.06 | −24 13.6 | 1.713 | 2.636 | 11.5 | 19.4 |
| 6 30 | 20 4.08 | −24 37.8 | 1.638 | 2.617 | 7.7 | 19.1 |
| 7 10 | 19 55.03 | −25 2.3 | 1.588 | 2.597 | 3.5 | 18.8 |
| 7 20 | 19 44.83 | −25 23.0 | 1.563 | 2.576 | 2.2 | 18.7 |
| 7 30 | 19 34.67 | −25 36.6 | 1.565 | 2.556 | 6.4 | 18.9 |
| 8 9 | 19 25.79 | −25 41.3 | 1.593 | 2.536 | 10.7 | 19.1 |
| 8 19 | 19 19.17 | −25 37.4 | 1.643 | 2.515 | 14.5 | 19.3 |

**220192** 2002 $VL_{11}$ 7 17.4 325°.13 3°.1/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.40 | −24 38.5 | 1.167 | 2.051 | 18.6 | 19.8 |
| 6 20 | 20 7.73 | −25 15.3 | 1.082 | 2.026 | 14.6 | 19.4 |
| 6 30 | 20 2.61 | −26 0.0 | 1.016 | 2.002 | 9.9 | 19.1 |
| 7 10 | 19 54.64 | −26 46.8 | 0.969 | 1.979 | 4.9 | 18.7 |
| 7 20 | 19 44.93 | −27 28.4 | 0.945 | 1.957 | 3.9 | 18.6 |
| 7 30 | 19 35.20 | −27 58.0 | 0.943 | 1.936 | 8.9 | 18.8 |
| 8 9 | 19 27.29 | −28 12.0 | 0.961 | 1.916 | 14.4 | 19.0 |
| 8 19 | 19 22.58 | −28 10.4 | 0.998 | 1.898 | 19.3 | 19.3 |

**221054** 2005 $QC_{127}$ 7 17.4 221°.52 1°.0/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.86 | −22 26.4 | 2.020 | 2.856 | 13.8 | 21.4 |
| 6 20 | 20 11.75 | −22 46.6 | 1.930 | 2.847 | 10.7 | 21.2 |
| 6 30 | 20 4.29 | −23 11.3 | 1.862 | 2.838 | 7.1 | 20.9 |
| 7 10 | 19 55.04 | −23 37.1 | 1.819 | 2.828 | 3.1 | 20.7 |
| 7 20 | 19 44.86 | −24 0.4 | 1.804 | 2.818 | 1.6 | 20.5 |
| 7 30 | 19 34.81 | −24 18.3 | 1.817 | 2.807 | 5.6 | 20.8 |
| 8 9 | 19 25.97 | −24 29.1 | 1.856 | 2.796 | 9.5 | 21.0 |
| 8 19 | 19 19.16 | −24 32.8 | 1.918 | 2.784 | 13.0 | 21.2 |

**293468** 2007 $EE_{213}$ 7 17.4 109°.75 5°.5/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 22.35 | −34 53.2 | 1.920 | 2.754 | 14.4 | 20.6 |
| 6 20 | 20 15.99 | −35 32.2 | 1.862 | 2.771 | 11.4 | 20.5 |
| 6 30 | 20 6.97 | −36 5.5 | 1.826 | 2.788 | 8.3 | 20.3 |
| 7 10 | 19 56.10 | −36 27.2 | 1.814 | 2.804 | 5.9 | 20.2 |
| 7 20 | 19 44.53 | −36 32.7 | 1.830 | 2.820 | 5.8 | 20.2 |
| 7 30 | 19 33.56 | −36 20.5 | 1.872 | 2.835 | 8.0 | 20.4 |
| 8 9 | 19 24.36 | −35 52.1 | 1.939 | 2.850 | 10.8 | 20.6 |
| 8 19 | 19 17.68 | −35 11.2 | 2.029 | 2.865 | 13.6 | 20.8 |

**5394** Jurgens 7 17.4 167°.72 0°.1/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.81 | −19 58.3 | 1.917 | 2.750 | 14.5 | 18.0 |
| 6 20 | 20 12.41 | −20 10.9 | 1.839 | 2.754 | 11.3 | 17.8 |
| 6 30 | 20 4.64 | −20 29.3 | 1.783 | 2.758 | 7.5 | 17.6 |
| 7 10 | 19 55.15 | −20 50.7 | 1.752 | 2.761 | 3.2 | 17.3 |
| 7 20 | 19 44.84 | −21 12.0 | 1.749 | 2.764 | 1.2 | 17.2 |
| 7 30 | 19 34.82 | −21 30.2 | 1.773 | 2.766 | 5.5 | 17.5 |
| 8 9 | 19 26.12 | −21 43.8 | 1.824 | 2.767 | 9.5 | 17.7 |
| 8 19 | 19 19.55 | −21 52.1 | 1.898 | 2.768 | 12.9 | 18.0 |

**25551** Drewhall 7 17.4 163°.45 2°.5/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 18.83 | −26 17.0 | 1.645 | 2.494 | 15.8 | 18.6 |
| 6 20 | 20 13.68 | −26 35.8 | 1.572 | 2.496 | 12.3 | 18.4 |
| 6 30 | 20 5.70 | −26 56.1 | 1.520 | 2.497 | 8.2 | 18.2 |
| 7 10 | 19 55.66 | −27 13.1 | 1.492 | 2.499 | 4.0 | 17.9 |
| 7 20 | 19 44.66 | −27 22.5 | 1.489 | 2.500 | 3.0 | 17.9 |
| 7 30 | 19 34.05 | −27 21.7 | 1.513 | 2.502 | 6.8 | 18.1 |
| 8 9 | 19 25.11 | −27 10.3 | 1.562 | 2.502 | 11.0 | 18.3 |
| 8 19 | 19 18.74 | −26 50.0 | 1.633 | 2.503 | 14.7 | 18.6 |

**435800** 2008 $VA_{18}$ 7 17.4 211°.73 2°.9/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.19 | −12 4.5 | 2.125 | 2.941 | 13.9 | 22.3 |
| 6 20 | 20 8.65 | −11 59.2 | 2.037 | 2.937 | 11.1 | 22.1 |
| 6 30 | 20 2.09 | −12 4.0 | 1.970 | 2.932 | 7.8 | 21.9 |
| 7 10 | 19 54.04 | −12 18.4 | 1.928 | 2.927 | 4.5 | 21.7 |
| 7 20 | 19 45.24 | −12 40.9 | 1.913 | 2.922 | 3.0 | 21.5 |
| 7 30 | 19 36.57 | −13 9.1 | 1.925 | 2.916 | 5.4 | 21.7 |
| 8 9 | 19 28.93 | −13 40.5 | 1.965 | 2.910 | 8.8 | 21.9 |
| 8 19 | 19 23.03 | −14 12.5 | 2.028 | 2.904 | 12.0 | 22.1 |

**262690** 2006 $WE_{185}$ 7 17.4 155°.91 9°.0/23.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.09 | +10 59.8 | 2.892 | 3.571 | 13.5 | 20.9 |
| 6 20 | 20 6.44 | +11 59.1 | 2.815 | 3.577 | 12.2 | 20.7 |
| 6 30 | 20 0.33 | +12 41.8 | 2.757 | 3.584 | 10.8 | 20.7 |
| 7 10 | 19 53.20 | +13 5.1 | 2.720 | 3.589 | 9.7 | 20.6 |
| 7 20 | 19 45.57 | +13 7.7 | 2.707 | 3.595 | 9.1 | 20.5 |
| 7 30 | 19 38.07 | +12 49.8 | 2.718 | 3.600 | 9.2 | 20.6 |
| 8 9 | 19 31.31 | +12 13.5 | 2.753 | 3.604 | 10.0 | 20.6 |
| 8 19 | 19 25.79 | +11 22.5 | 2.811 | 3.608 | 11.2 | 20.7 |

**342567** 2008 $UW_{254}$ 7 17.4 327°.55 4°.7/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.13 | −11 37.3 | 1.455 | 2.300 | 17.7 | 20.3 |
| 6 20 | 20 7.24 | −11 2.9 | 1.370 | 2.285 | 14.3 | 20.1 |
| 6 30 | 20 1.67 | −10 41.1 | 1.303 | 2.271 | 10.4 | 19.8 |
| 7 10 | 19 54.03 | −10 32.9 | 1.259 | 2.257 | 6.5 | 19.6 |
| 7 20 | 19 45.25 | −10 38.2 | 1.237 | 2.244 | 4.7 | 19.4 |
| 7 30 | 19 36.58 | −10 55.3 | 1.240 | 2.232 | 7.5 | 19.5 |
| 8 9 | 19 29.30 | −11 20.9 | 1.265 | 2.220 | 11.7 | 19.8 |
| 8 19 | 19 24.39 | −11 51.4 | 1.312 | 2.209 | 15.8 | 20.0 |

**472166** 2014 $DJ_{29}$ 7 17.4 273°.85 4°.7/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.06 | −32 56.5 | 1.873 | 2.714 | 14.5 | 21.1 |
| 6 20 | 20 14.67 | −33 15.6 | 1.782 | 2.697 | 11.5 | 20.9 |
| 6 30 | 20 6.44 | −33 30.6 | 1.712 | 2.680 | 8.3 | 20.7 |
| 7 10 | 19 56.04 | −33 36.0 | 1.666 | 2.663 | 5.4 | 20.5 |
| 7 20 | 19 44.54 | −33 27.3 | 1.646 | 2.646 | 5.0 | 20.4 |
| 7 30 | 19 33.27 | −33 2.3 | 1.653 | 2.628 | 7.8 | 20.5 |
| 8 9 | 19 23.55 | −32 21.8 | 1.685 | 2.611 | 11.3 | 20.7 |
| 8 19 | 19 16.36 | −31 29.4 | 1.740 | 2.593 | 14.7 | 20.9 |

**40453** 1999 $RX_{38}$ 7 17.4 337°.81 6°.4/14.9 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.40 | −30 24.5 | 1.201 | 2.080 | 18.5 | 17.7 |
| 6 20 | 20 10.77 | −31 33.6 | 1.133 | 2.071 | 14.7 | 17.5 |
| 6 30 | 20 4.53 | −32 44.8 | 1.083 | 2.063 | 10.5 | 17.2 |
| 7 10 | 19 55.41 | −33 48.8 | 1.055 | 2.055 | 7.0 | 17.0 |
| 7 20 | 19 44.75 | −34 35.9 | 1.049 | 2.049 | 7.0 | 17.0 |
| 7 30 | 19 34.41 | −34 59.7 | 1.065 | 2.043 | 10.6 | 17.2 |
| 8 9 | 19 26.18 | −34 59.2 | 1.102 | 2.038 | 14.9 | 17.4 |
| 8 19 | 19 21.32 | −34 37.6 | 1.158 | 2.034 | 19.0 | 17.6 |

**159380** 1998 $CV$ 7 17.4 124°.79 1°.9/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.33 | −13 44.6 | 2.150 | 2.966 | 13.7 | 20.7 |
| 6 20 | 20 10.10 | −14 0.6 | 2.080 | 2.983 | 10.8 | 20.5 |
| 6 30 | 20 2.91 | −14 26.3 | 2.033 | 2.999 | 7.4 | 20.4 |
| 7 10 | 19 54.35 | −14 59.8 | 2.011 | 3.015 | 3.8 | 20.2 |
| 7 20 | 19 45.20 | −15 38.2 | 2.017 | 3.030 | 2.0 | 20.1 |
| 7 30 | 19 36.33 | −16 18.6 | 2.052 | 3.045 | 4.9 | 20.3 |
| 8 9 | 19 28.61 | −16 58.2 | 2.114 | 3.058 | 8.3 | 20.5 |
| 8 19 | 19 22.66 | −17 34.7 | 2.200 | 3.072 | 11.4 | 20.7 |

**470820** 2008 $WN_{34}$ 7 17.4 184°.46 2°.4/16.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.82 | −26 6.9 | 2.031 | 2.872 | 13.5 | 22.2 |
| 6 20 | 20 10.91 | −26 38.6 | 1.952 | 2.872 | 10.5 | 22.0 |
| 6 30 | 20 3.69 | −27 12.2 | 1.896 | 2.872 | 7.0 | 21.8 |
| 7 10 | 19 54.78 | −27 43.6 | 1.865 | 2.872 | 3.5 | 21.6 |
| 7 20 | 19 45.04 | −28 8.6 | 1.861 | 2.871 | 2.8 | 21.5 |
| 7 30 | 19 35.55 | −28 24.5 | 1.885 | 2.870 | 6.0 | 21.7 |
| 8 9 | 19 27.33 | −28 30.0 | 1.935 | 2.869 | 9.6 | 22.0 |
| 8 19 | 19 21.17 | −28 25.9 | 2.007 | 2.868 | 12.8 | 22.2 |

**287352** 2002 $UG_{3}$ 7 17.4 292°.72 3°.1/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.48 | −10 34.3 | 1.988 | 2.807 | 14.6 | 20.6 |
| 6 20 | 20 7.79 | −10 50.4 | 1.874 | 2.775 | 11.8 | 20.3 |
| 6 30 | 20 1.86 | −11 21.1 | 1.781 | 2.743 | 8.5 | 20.0 |
| 7 10 | 19 54.11 | −12 5.8 | 1.712 | 2.711 | 5.0 | 19.8 |
| 7 20 | 19 45.22 | −13 2.5 | 1.669 | 2.678 | 3.1 | 19.6 |
| 7 30 | 19 36.15 | −14 7.5 | 1.653 | 2.646 | 5.8 | 19.7 |
| 8 9 | 19 27.94 | −15 16.3 | 1.664 | 2.613 | 9.8 | 19.8 |
| 8 19 | 19 21.51 | −16 24.4 | 1.698 | 2.580 | 13.6 | 20.0 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **133933** 2004 $ST_{54}$ | | | 7 17.4 258°.69 | | 5°.3/19.7 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.17 | − 6 24.0 | 1.950 | 2.753 | 15.4 | 20.3 |
| 6 20 | 20 8.11 | − 6 5.5 | 1.855 | 2.741 | 12.7 | 20.1 |
| 6 30 | 20 1.90 | − 6 1.7 | 1.781 | 2.728 | 9.7 | 19.9 |
| 7 10 | 19 54.05 | − 6 13.3 | 1.730 | 2.714 | 6.7 | 19.7 |
| 7 20 | 19 45.28 | − 6 40.2 | 1.705 | 2.701 | 5.3 | 19.6 |
| 7 30 | 19 36.56 | − 7 20.0 | 1.705 | 2.687 | 6.9 | 19.6 |
| 8 9 | 19 28.87 | − 8 9.4 | 1.732 | 2.673 | 10.0 | 19.8 |
| 8 19 | 19 22.99 | − 9 4.0 | 1.781 | 2.659 | 13.3 | 20.0 |
| **446358** 2014 $HM_{22}$ | | | 7 17.4 336°.64 | | 0°.5/17.7 18 | |
| 6 10 | 20 6.75 | −13 53.5 | 1.567 | 2.420 | 16.3 | 20.0 |
| 6 20 | 20 4.64 | −15 6.5 | 1.474 | 2.399 | 12.8 | 19.7 |
| 6 30 | 20 0.03 | −16 39.8 | 1.401 | 2.380 | 8.7 | 19.4 |
| 7 10 | 19 53.38 | −18 29.6 | 1.352 | 2.361 | 3.9 | 19.1 |
| 7 20 | 19 45.49 | −20 29.1 | 1.328 | 2.344 | 1.3 | 18.8 |
| 7 30 | 19 37.53 | −22 29.4 | 1.331 | 2.328 | 6.3 | 19.1 |
| 8 9 | 19 30.73 | −24 21.9 | 1.359 | 2.313 | 11.1 | 19.4 |
| 8 19 | 19 26.14 | −26 0.6 | 1.409 | 2.299 | 15.4 | 19.6 |
| **507800** 2014 $BR_{60}$ | | | 7 17.4 132°.40 | | 0°.3/17.5 17 | |
| 6 10 | 20 13.42 | −18 9.5 | 2.107 | 2.939 | 13.4 | 21.6 |
| 6 20 | 20 8.83 | −18 37.3 | 2.032 | 2.946 | 10.4 | 21.4 |
| 6 30 | 20 2.20 | −19 12.7 | 1.978 | 2.953 | 6.9 | 21.2 |
| 7 10 | 19 54.10 | −19 52.7 | 1.951 | 2.959 | 3.0 | 21.0 |
| 7 20 | 19 45.30 | −20 33.9 | 1.950 | 2.966 | 1.0 | 20.9 |
| 7 30 | 19 36.73 | −21 13.1 | 1.978 | 2.972 | 4.9 | 21.2 |
| 8 9 | 19 29.28 | −21 47.6 | 2.033 | 2.977 | 8.6 | 21.4 |
| 8 19 | 19 23.64 | −22 16.1 | 2.111 | 2.983 | 11.8 | 21.6 |
| **310** Margarita | | | 7 17.4 86°.36 | | 1°.7/18.1 18 | |
| 6 10 | 20 13.90 | −15 54.9 | 1.914 | 2.745 | 14.6 | 14.5 |
| 6 20 | 20 9.26 | −15 54.2 | 1.845 | 2.757 | 11.4 | 14.3 |
| 6 30 | 20 2.49 | −16 1.9 | 1.797 | 2.769 | 7.7 | 14.1 |
| 7 10 | 19 54.21 | −16 16.3 | 1.775 | 2.781 | 3.8 | 13.9 |
| 7 20 | 19 45.28 | −16 35.2 | 1.779 | 2.792 | 1.8 | 13.8 |
| 7 30 | 19 36.68 | −16 56.1 | 1.810 | 2.804 | 5.2 | 14.1 |
| 8 9 | 19 29.34 | −17 16.7 | 1.867 | 2.816 | 9.0 | 14.3 |
| 8 19 | 19 23.95 | −17 35.5 | 1.948 | 2.827 | 12.3 | 14.5 |
| **100154** 1993 $TS_{23}$ | | | 7 17.4 317°.04 | | 8°.1/20.9 18 | |
| 6 10 | 20 8.80 | − 1 8.1 | 1.727 | 2.524 | 17.3 | 19.9 |
| 6 20 | 20 5.78 | − 0 31.6 | 1.637 | 2.509 | 14.8 | 19.7 |
| 6 30 | 20 0.51 | − 0 14.3 | 1.565 | 2.494 | 12.0 | 19.5 |
| 7 10 | 19 53.49 | − 0 19.1 | 1.514 | 2.480 | 9.4 | 19.3 |
| 7 20 | 19 45.51 | − 0 47.0 | 1.487 | 2.466 | 8.1 | 19.2 |
| 7 30 | 19 37.56 | − 1 36.6 | 1.483 | 2.452 | 9.1 | 19.2 |
| 8 9 | 19 30.70 | − 2 43.2 | 1.503 | 2.439 | 11.7 | 19.3 |
| 8 19 | 19 25.78 | − 4 0.8 | 1.545 | 2.427 | 14.7 | 19.5 |
| **521167** 2015 $FS_{408}$ | | | 7 17.4 332°.02 | | 6°.0/14.2 16 | |
| 6 10 | 20 9.37 | −29 15.2 | 1.423 | 2.297 | 16.4 | 20.2 |
| 6 20 | 20 7.28 | −30 44.9 | 1.340 | 2.277 | 13.0 | 19.9 |
| 6 30 | 20 2.11 | −32 20.8 | 1.278 | 2.257 | 9.3 | 19.6 |
| 7 10 | 19 54.39 | −33 54.2 | 1.238 | 2.238 | 6.4 | 19.4 |
| 7 20 | 19 45.15 | −35 15.3 | 1.223 | 2.220 | 6.7 | 19.4 |
| 7 30 | 19 35.89 | −36 16.2 | 1.231 | 2.204 | 10.1 | 19.5 |
| 8 9 | 19 28.22 | −36 52.9 | 1.260 | 2.188 | 14.1 | 19.7 |
| 8 19 | 19 23.39 | −37 6.2 | 1.309 | 2.174 | 17.9 | 19.9 |
| **384522** 2010 $DE_{11}$ | | | 7 17.4 111°.13 | | 0°.5/17.6 17 | |
| 6 10 | 20 13.82 | −17 26.0 | 1.940 | 2.775 | 14.3 | 21.1 |
| 6 20 | 20 9.28 | −17 53.6 | 1.868 | 2.784 | 11.1 | 20.9 |
| 6 30 | 20 2.57 | −18 29.9 | 1.818 | 2.793 | 7.4 | 20.7 |
| 7 10 | 19 54.29 | −19 11.7 | 1.793 | 2.802 | 3.3 | 20.4 |
| 7 20 | 19 45.28 | −19 55.6 | 1.795 | 2.810 | 1.1 | 20.3 |
| 7 30 | 19 36.53 | −20 37.7 | 1.825 | 2.819 | 5.2 | 20.6 |
| 8 9 | 19 29.02 | −21 15.3 | 1.881 | 2.827 | 9.0 | 20.8 |
| 8 19 | 19 23.45 | −21 46.7 | 1.960 | 2.835 | 12.4 | 21.1 |
| **426141** 2012 $HG_{30}$ | | | 7 17.4 106°.06 | | 4°.5/15.4 17 | |
| 6 10 | 20 17.09 | −28 8.2 | 1.573 | 2.428 | 16.1 | 21.1 |
| 6 20 | 20 12.63 | −29 15.3 | 1.506 | 2.433 | 12.5 | 20.9 |
| 6 30 | 20 5.21 | −30 25.0 | 1.461 | 2.437 | 8.6 | 20.6 |
| 7 10 | 19 55.56 | −31 29.9 | 1.439 | 2.442 | 5.2 | 20.5 |
| 7 20 | 19 44.81 | −32 22.9 | 1.443 | 2.446 | 5.0 | 20.5 |
| 7 30 | 19 34.41 | −32 58.9 | 1.473 | 2.451 | 8.2 | 20.7 |
| 8 9 | 19 25.72 | −33 16.4 | 1.526 | 2.455 | 12.1 | 20.9 |
| 8 19 | 19 19.71 | −33 17.3 | 1.601 | 2.459 | 15.5 | 21.1 |
| **479268** 2013 $FL_{1}$ | | | 7 17.4 123°.85 | | 0°.7/17.7 18 | |
| 6 10 | 20 13.47 | −18 56.5 | 2.487 | 3.311 | 11.9 | 22.0 |
| 6 20 | 20 8.47 | −18 51.1 | 2.410 | 3.320 | 9.2 | 21.8 |
| 6 30 | 20 1.77 | −18 49.8 | 2.357 | 3.329 | 6.1 | 21.6 |
| 7 10 | 19 53.87 | −18 51.4 | 2.330 | 3.338 | 2.8 | 21.4 |
| 7 20 | 19 45.46 | −18 54.2 | 2.331 | 3.346 | 1.1 | 21.3 |
| 7 30 | 19 37.30 | −18 56.8 | 2.361 | 3.354 | 4.3 | 21.6 |
| 8 9 | 19 30.13 | −18 58.4 | 2.419 | 3.362 | 7.4 | 21.8 |
| 8 19 | 19 24.52 | −18 58.2 | 2.501 | 3.370 | 10.3 | 22.0 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **437676** 2014 $CY_{16}$ | | | 7 17.4 272°.14 | | 1°.2/17.9 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.44 | −17 11.7 | 1.964 | 2.795 | 14.3 | 21.2 |
| 6 20 | 20 10.89 | −17 12.6 | 1.856 | 2.768 | 11.3 | 21.0 |
| 6 30 | 20 3.92 | −17 21.3 | 1.768 | 2.741 | 7.7 | 20.7 |
| 7 10 | 19 55.03 | −17 36.0 | 1.706 | 2.713 | 3.7 | 20.4 |
| 7 20 | 19 44.99 | −17 54.5 | 1.670 | 2.684 | 1.6 | 20.2 |
| 7 30 | 19 34.86 | −18 14.4 | 1.662 | 2.655 | 5.6 | 20.4 |
| 8 9 | 19 25.75 | −18 33.1 | 1.679 | 2.626 | 9.9 | 20.6 |
| 8 19 | 19 18.62 | −18 49.3 | 1.721 | 2.596 | 13.8 | 20.7 |
| **50761** 2000 $EZ_{183}$ | | | 7 17.4 339°.36 | | 0°.3/17.2 18 | |
| 6 10 | 20 10.90 | −18 36.9 | 1.732 | 2.582 | 15.1 | 18.3 |
| 6 20 | 20 7.48 | −19 19.6 | 1.652 | 2.577 | 11.7 | 18.1 |
| 6 30 | 20 1.65 | −20 12.6 | 1.593 | 2.572 | 7.8 | 17.8 |
| 7 10 | 19 54.00 | −21 12.1 | 1.558 | 2.568 | 3.4 | 17.5 |
| 7 20 | 19 45.39 | −22 13.1 | 1.549 | 2.564 | 1.3 | 17.4 |
| 7 30 | 19 36.92 | −23 10.6 | 1.567 | 2.561 | 5.9 | 17.7 |
| 8 9 | 19 29.71 | −24 0.5 | 1.609 | 2.558 | 10.1 | 17.9 |
| 8 19 | 19 24.63 | −24 40.8 | 1.674 | 2.556 | 13.8 | 18.1 |
| **182915** 2002 $EB_{113}$ | | | 7 17.4 175°.22 | | 0°.3/17.2 18 | |
| 6 10 | 20 12.04 | −20 41.9 | 2.666 | 3.493 | 11.1 | 21.4 |
| 6 20 | 20 7.40 | −21 2.6 | 2.582 | 3.495 | 8.5 | 21.3 |
| 6 30 | 20 1.10 | −21 27.5 | 2.522 | 3.496 | 5.6 | 21.1 |
| 7 10 | 19 53.61 | −21 54.2 | 2.488 | 3.497 | 2.4 | 20.9 |
| 7 20 | 19 45.55 | −22 20.3 | 2.483 | 3.498 | 1.0 | 20.7 |
| 7 30 | 19 37.65 | −22 43.8 | 2.506 | 3.498 | 4.2 | 21.0 |
| 8 9 | 19 30.61 | −23 2.9 | 2.558 | 3.498 | 7.3 | 21.2 |
| 8 19 | 19 25.01 | −23 17.1 | 2.634 | 3.498 | 10.0 | 21.4 |
| **254566** 2005 $FH_{2}$ | | | 7 17.4 149°.31 | | 2°.6/18.5 17 | |
| 6 10 | 20 14.60 | −12 44.4 | 1.574 | 2.408 | 17.1 | 20.4 |
| 6 20 | 20 10.40 | −12 58.9 | 1.499 | 2.411 | 13.5 | 20.2 |
| 6 30 | 20 3.59 | −13 27.9 | 1.444 | 2.414 | 9.4 | 19.9 |
| 7 10 | 19 54.84 | −14 9.5 | 1.412 | 2.416 | 5.0 | 19.7 |
| 7 20 | 19 45.10 | −15 0.3 | 1.406 | 2.418 | 2.7 | 19.5 |
| 7 30 | 19 35.62 | −15 55.4 | 1.425 | 2.420 | 6.2 | 19.8 |
| 8 9 | 19 27.57 | −16 50.1 | 1.470 | 2.422 | 10.6 | 20.0 |
| 8 19 | 19 21.85 | −17 40.9 | 1.537 | 2.423 | 14.5 | 20.3 |
| **333127** 2011 $WB_{72}$ | | | 7 17.4 4°.87 | | 1°.6/17.9 18 | |
| 6 10 | 20 12.87 | −17 28.2 | 1.976 | 2.812 | 14.1 | 20.1 |
| 6 20 | 20 8.50 | −17 6.1 | 1.897 | 2.812 | 11.0 | 19.9 |
| 6 30 | 20 2.04 | −16 49.7 | 1.839 | 2.812 | 7.5 | 19.7 |
| 7 10 | 19 54.07 | −16 38.1 | 1.806 | 2.813 | 3.7 | 19.5 |
| 7 20 | 19 45.40 | −16 30.2 | 1.800 | 2.814 | 1.9 | 19.3 |
| 7 30 | 19 36.99 | −16 24.9 | 1.821 | 2.815 | 5.2 | 19.6 |
| 8 9 | 19 29.77 | −16 21.0 | 1.867 | 2.816 | 8.9 | 19.8 |
| 8 19 | 19 24.43 | −16 17.7 | 1.938 | 2.818 | 12.3 | 20.0 |
| **253685** 2003 $UM_{232}$ | | | 7 17.4 187°.34 | | 0°.1/17.4 17 | |
| 6 10 | 20 18.08 | −19 59.0 | 1.900 | 2.732 | 14.6 | 21.8 |
| 6 20 | 20 12.73 | −20 11.7 | 1.817 | 2.732 | 11.4 | 21.6 |
| 6 30 | 20 4.96 | −20 30.5 | 1.757 | 2.732 | 7.5 | 21.3 |
| 7 10 | 19 55.39 | −20 52.4 | 1.721 | 2.730 | 3.3 | 21.1 |
| 7 20 | 19 44.93 | −21 14.2 | 1.713 | 2.728 | 1.2 | 20.9 |
| 7 30 | 19 34.69 | −21 33.1 | 1.732 | 2.725 | 5.6 | 21.2 |
| 8 9 | 19 25.78 | −21 47.1 | 1.778 | 2.722 | 9.7 | 21.5 |
| 8 19 | 19 19.01 | −21 55.7 | 1.847 | 2.718 | 13.2 | 21.7 |
| **433047** 2012 $SG_{46}$ | | | 7 17.4 346°.66 | | 10°.1/21.7 16 | |
| 6 10 | 20 6.81 | + 0 16.3 | 1.363 | 2.176 | 20.3 | 20.3 |
| 6 20 | 20 4.72 | + 1 5.5 | 1.288 | 2.167 | 17.5 | 20.0 |
| 6 30 | 20 0.04 | + 1 30.5 | 1.229 | 2.159 | 14.4 | 19.8 |
| 7 10 | 19 53.36 | + 1 26.7 | 1.189 | 2.153 | 11.6 | 19.7 |
| 7 20 | 19 45.62 | + 0 52.6 | 1.170 | 2.147 | 10.1 | 19.6 |
| 7 30 | 19 38.03 | − 0 9.7 | 1.172 | 2.142 | 10.9 | 19.6 |
| 8 9 | 19 31.82 | − 1 33.7 | 1.197 | 2.138 | 13.5 | 19.7 |
| 8 19 | 19 27.93 | − 3 10.7 | 1.241 | 2.136 | 16.7 | 19.9 |
| **359913** 2011 $WA_{110}$ | | | 7 17.4 178°.36 | | 0°.5/17.7 18 | |
| 6 10 | 20 12.06 | −18 23.5 | 2.556 | 3.381 | 11.6 | 22.3 |
| 6 20 | 20 7.47 | −18 34.8 | 2.471 | 3.382 | 9.0 | 22.1 |
| 6 30 | 20 1.17 | −18 51.4 | 2.410 | 3.382 | 6.0 | 21.9 |
| 7 10 | 19 53.67 | −19 11.5 | 2.375 | 3.383 | 2.7 | 21.7 |
| 7 20 | 19 45.57 | −19 33.1 | 2.368 | 3.383 | 0.9 | 21.6 |
| 7 30 | 19 37.64 | −19 53.9 | 2.390 | 3.383 | 4.2 | 21.8 |
| 8 9 | 19 30.59 | −20 12.5 | 2.439 | 3.382 | 7.4 | 22.0 |
| 8 19 | 19 25.03 | −20 27.8 | 2.513 | 3.382 | 10.2 | 22.2 |
| **114999** 2003 $QR_{74}$ | | | 7 17.4 251°.23 | | 1°.2/16.9 18 | R |
| 6 10 | 20 16.59 | −24 17.1 | 1.967 | 2.806 | 13.9 | 19.8 |
| 6 20 | 20 11.61 | −24 20.4 | 1.878 | 2.797 | 10.8 | 19.6 |
| 6 30 | 20 4.24 | −24 25.5 | 1.811 | 2.788 | 7.2 | 19.3 |
| 7 10 | 19 55.10 | −24 29.5 | 1.769 | 2.778 | 3.2 | 19.1 |
| 7 20 | 19 45.05 | −24 29.5 | 1.755 | 2.769 | 1.8 | 19.0 |
| 7 30 | 19 35.21 | −24 23.5 | 1.767 | 2.759 | 5.7 | 19.2 |
| 8 9 | 19 26.65 | −24 11.1 | 1.806 | 2.748 | 9.6 | 19.4 |
| 8 19 | 19 20.20 | −23 53.0 | 1.868 | 2.738 | 13.1 | 19.6 |

**22879** 1999 $RJ_{211}$ 7 17.4 128.°60 5.°8/15.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 21.12 | −36 22.4 | 2.021 | 2.854 | 13.9 | 19.0 |
| 6 20 | 20 15.12 | −36 59.3 | 1.955 | 2.862 | 11.1 | 18.8 |
| 6 30 | 20 6.49 | −37 29.9 | 1.911 | 2.869 | 8.3 | 18.7 |
| 7 10 | 19 56.01 | −37 48.4 | 1.891 | 2.877 | 6.1 | 18.6 |
| 7 20 | 19 44.76 | −37 50.4 | 1.898 | 2.884 | 6.1 | 18.6 |
| 7 30 | 19 34.01 | −37 34.2 | 1.932 | 2.891 | 8.1 | 18.7 |
| 8 9 | 19 24.91 | −37 1.3 | 1.990 | 2.897 | 10.8 | 18.9 |
| 8 19 | 19 18.24 | −36 15.3 | 2.072 | 2.904 | 13.5 | 19.1 |

**431696** 2008 $DE_{85}$ 7 17.4 148.°05 1.°2/16.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.96 | −22 27.6 | 1.803 | 2.643 | 15.0 | 22.5 |
| 6 20 | 20 12.73 | −22 53.3 | 1.731 | 2.651 | 11.6 | 22.3 |
| 6 30 | 20 4.98 | −23 23.9 | 1.680 | 2.657 | 7.6 | 22.1 |
| 7 10 | 19 55.40 | −23 55.3 | 1.654 | 2.664 | 3.4 | 21.8 |
| 7 20 | 19 44.98 | −24 23.3 | 1.655 | 2.669 | 1.8 | 21.8 |
| 7 30 | 19 34.89 | −24 44.8 | 1.684 | 2.675 | 5.9 | 22.0 |
| 8 9 | 19 26.26 | −24 58.1 | 1.738 | 2.680 | 10.0 | 22.3 |
| 8 19 | 19 19.90 | −25 3.2 | 1.815 | 2.684 | 13.5 | 22.5 |

**509700** 2008 $RG_{142}$ 7 17.4 248.°95 2.°4/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.59 | −26 18.8 | 1.984 | 2.825 | 13.8 | 22.4 |
| 6 20 | 20 11.73 | −26 44.9 | 1.893 | 2.813 | 10.7 | 22.2 |
| 6 30 | 20 4.41 | −27 13.0 | 1.824 | 2.800 | 7.2 | 22.0 |
| 7 10 | 19 55.21 | −27 38.9 | 1.781 | 2.787 | 3.7 | 21.7 |
| 7 20 | 19 45.03 | −27 58.4 | 1.764 | 2.774 | 2.9 | 21.6 |
| 7 30 | 19 34.97 | −28 8.5 | 1.774 | 2.760 | 6.3 | 21.8 |
| 8 9 | 19 26.17 | −28 8.2 | 1.811 | 2.746 | 10.0 | 22.0 |
| 8 19 | 19 19.51 | −27 58.2 | 1.870 | 2.732 | 13.5 | 22.2 |

**322558** 2011 $YC_{54}$ 7 17.4 285.°63 0.°4/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.70 | −15 50.0 | 2.225 | 3.054 | 12.9 | 20.6 |
| 6 20 | 20 6.87 | −16 40.3 | 2.129 | 3.041 | 10.1 | 20.4 |
| 6 30 | 20 1.06 | −17 41.7 | 2.055 | 3.028 | 6.8 | 20.2 |
| 7 10 | 19 53.73 | −18 51.4 | 2.007 | 3.016 | 3.1 | 19.9 |
| 7 20 | 19 45.55 | −20 5.1 | 1.988 | 3.003 | 1.0 | 19.7 |
| 7 30 | 19 37.37 | −21 18.4 | 1.996 | 2.990 | 4.9 | 20.0 |
| 8 9 | 19 30.08 | −22 27.0 | 2.032 | 2.978 | 8.5 | 20.2 |
| 8 19 | 19 24.42 | −23 28.0 | 2.093 | 2.965 | 11.8 | 20.4 |

**435804** 2008 $VH_{52}$ 7 17.4 219.°82 5.°1/19.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.07 | − 5 50.8 | 2.242 | 3.032 | 14.1 | 21.8 |
| 6 20 | 20 8.49 | − 5 27.9 | 2.148 | 3.024 | 11.6 | 21.6 |
| 6 30 | 20 2.00 | − 5 17.7 | 2.076 | 3.016 | 8.9 | 21.4 |
| 7 10 | 19 54.10 | − 5 21.1 | 2.028 | 3.007 | 6.3 | 21.2 |
| 7 20 | 19 45.44 | − 5 37.9 | 2.006 | 2.998 | 5.1 | 21.1 |
| 7 30 | 19 36.87 | − 6 6.7 | 2.011 | 2.988 | 6.5 | 21.2 |
| 8 9 | 19 29.21 | − 6 44.5 | 2.043 | 2.978 | 9.1 | 21.3 |
| 8 19 | 19 23.16 | − 7 28.1 | 2.099 | 2.968 | 12.0 | 21.5 |

**6585** O′Keefe 7 17.4 263.°60 11.°7/11.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 34.44 | −50 53.2 | 2.035 | 2.821 | 15.4 | 19.0 |
| 6 20 | 20 27.16 | −52 16.6 | 1.943 | 2.792 | 13.8 | 18.9 |
| 6 30 | 20 15.58 | −53 27.9 | 1.871 | 2.762 | 12.4 | 18.7 |
| 7 10 | 20 0.41 | −54 15.6 | 1.822 | 2.731 | 11.7 | 18.6 |
| 7 20 | 19 43.16 | −54 30.3 | 1.796 | 2.699 | 12.1 | 18.6 |
| 7 30 | 19 26.06 | −54 7.0 | 1.794 | 2.667 | 13.6 | 18.6 |
| 8 9 | 19 11.35 | −53 8.0 | 1.813 | 2.633 | 15.7 | 18.7 |
| 8 19 | 19 0.55 | −51 41.0 | 1.851 | 2.598 | 17.9 | 18.7 |

**502435** 2015 $BH_{274}$ 7 17.4 206.°56 0.°3/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.63 | −19 54.6 | 1.880 | 2.716 | 14.6 | 22.4 |
| 6 20 | 20 11.73 | −20 19.8 | 1.795 | 2.712 | 11.4 | 22.1 |
| 6 30 | 20 4.39 | −20 52.1 | 1.731 | 2.707 | 7.5 | 21.9 |
| 7 10 | 19 55.21 | −21 28.4 | 1.693 | 2.702 | 3.3 | 21.6 |
| 7 20 | 19 45.06 | −22 4.6 | 1.681 | 2.696 | 1.3 | 21.5 |
| 7 30 | 19 35.07 | −22 37.1 | 1.697 | 2.690 | 5.7 | 21.8 |
| 8 9 | 19 26.35 | −23 3.4 | 1.739 | 2.683 | 9.8 | 22.0 |
| 8 19 | 19 19.75 | −23 22.5 | 1.804 | 2.676 | 13.5 | 22.2 |

**201681** 2003 $UB_{94}$ 7 17.4 290.°98 1.°9/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.19 | −16 6.3 | 1.827 | 2.664 | 15.0 | 20.2 |
| 6 20 | 20 9.07 | −15 56.7 | 1.741 | 2.656 | 11.8 | 19.9 |
| 6 30 | 20 2.62 | −15 55.3 | 1.675 | 2.648 | 8.1 | 19.7 |
| 7 10 | 19 54.44 | −16 1.0 | 1.634 | 2.640 | 4.1 | 19.4 |
| 7 20 | 19 45.37 | −16 12.0 | 1.619 | 2.632 | 2.1 | 19.3 |
| 7 30 | 19 36.45 | −16 26.0 | 1.630 | 2.624 | 5.6 | 19.5 |
| 8 9 | 19 28.75 | −16 41.0 | 1.666 | 2.617 | 9.7 | 19.7 |
| 8 19 | 19 23.08 | −16 55.1 | 1.726 | 2.609 | 13.4 | 19.9 |

**38503** 1999 $TF_{186}$ 7 17.4 340.°56 0.°8/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.65 | −20 37.0 | 1.867 | 2.711 | 14.4 | 18.7 |
| 6 20 | 20 9.34 | −20 7.8 | 1.783 | 2.703 | 11.3 | 18.5 |
| 6 30 | 20 2.73 | −19 41.4 | 1.720 | 2.696 | 7.5 | 18.3 |
| 7 10 | 19 54.46 | −19 16.8 | 1.681 | 2.690 | 3.4 | 18.0 |
| 7 20 | 19 45.38 | −18 52.9 | 1.669 | 2.684 | 1.3 | 17.8 |
| 7 30 | 19 36.57 | −18 29.2 | 1.684 | 2.679 | 5.4 | 18.1 |
| 8 9 | 19 29.03 | −18 5.5 | 1.724 | 2.674 | 9.5 | 18.3 |
| 8 19 | 19 23.53 | −17 42.1 | 1.787 | 2.670 | 13.0 | 18.6 |

**123101** 2000 $SQ_{344}$ 7 17.4 33.°49 3.°6/15.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.68 | −29 59.8 | 2.141 | 2.984 | 12.9 | 20.0 |
| 6 20 | 20 10.01 | −30 34.5 | 2.065 | 2.984 | 10.0 | 19.8 |
| 6 30 | 20 3.11 | −31 8.2 | 2.012 | 2.985 | 6.9 | 19.6 |
| 7 10 | 19 54.60 | −31 36.6 | 1.985 | 2.985 | 4.2 | 19.4 |
| 7 20 | 19 45.33 | −31 55.6 | 1.983 | 2.986 | 3.9 | 19.4 |
| 7 30 | 19 36.33 | −32 2.7 | 2.010 | 2.987 | 6.5 | 19.6 |
| 8 9 | 19 28.58 | −31 57.7 | 2.061 | 2.987 | 9.5 | 19.8 |
| 8 19 | 19 22.82 | −31 41.8 | 2.136 | 2.988 | 12.4 | 20.0 |

**474343** 2002 $PJ$ 7 17.4 6.°16 0.°9/17.3 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.83 | −24 41.4 | 1.307 | 2.177 | 17.8 | 19.9 |
| 6 20 | 20 10.31 | −24 15.2 | 1.242 | 2.177 | 13.9 | 19.7 |
| 6 30 | 20 3.73 | −23 49.5 | 1.196 | 2.179 | 9.2 | 19.4 |
| 7 10 | 19 54.96 | −23 21.9 | 1.172 | 2.182 | 4.0 | 19.1 |
| 7 20 | 19 45.24 | −22 50.6 | 1.171 | 2.186 | 1.7 | 19.0 |
| 7 30 | 19 36.06 | −22 15.0 | 1.195 | 2.192 | 6.8 | 19.3 |
| 8 9 | 19 28.79 | −21 36.2 | 1.242 | 2.198 | 11.7 | 19.6 |
| 8 19 | 19 24.30 | −20 55.8 | 1.309 | 2.206 | 15.9 | 19.9 |

**408206** 2013 $EJ_{45}$ 7 17.4 169.°02 0.°6/17.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.75 | −18 33.9 | 1.362 | 2.214 | 18.3 | 21.9 |
| 6 20 | 20 13.32 | −18 43.1 | 1.290 | 2.216 | 14.3 | 21.7 |
| 6 30 | 20 5.79 | −19 2.0 | 1.238 | 2.217 | 9.5 | 21.4 |
| 7 10 | 19 55.91 | −19 27.6 | 1.208 | 2.218 | 4.3 | 21.1 |
| 7 20 | 19 44.88 | −19 55.6 | 1.203 | 2.218 | 1.5 | 20.9 |
| 7 30 | 19 34.18 | −20 21.8 | 1.223 | 2.219 | 6.8 | 21.3 |
| 8 9 | 19 25.29 | −20 43.2 | 1.266 | 2.219 | 11.9 | 21.6 |
| 8 19 | 19 19.21 | −20 58.7 | 1.331 | 2.219 | 16.2 | 21.8 |

**62405** 2000 $SR_{175}$ 7 17.4 204.°73 1.°5/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.65 | −25 25.5 | 2.287 | 3.124 | 12.4 | 19.0 |
| 6 20 | 20 9.73 | −25 32.3 | 2.205 | 3.123 | 9.5 | 18.8 |
| 6 30 | 20 2.80 | −25 40.1 | 2.146 | 3.122 | 6.3 | 18.6 |
| 7 10 | 19 54.44 | −25 45.9 | 2.113 | 3.121 | 3.0 | 18.4 |
| 7 20 | 19 45.41 | −25 47.3 | 2.107 | 3.120 | 1.9 | 18.3 |
| 7 30 | 19 36.64 | −25 42.8 | 2.130 | 3.119 | 5.1 | 18.5 |
| 8 9 | 19 28.98 | −25 31.8 | 2.179 | 3.117 | 8.4 | 18.7 |
| 8 19 | 19 23.12 | −25 15.1 | 2.252 | 3.116 | 11.4 | 18.9 |

**203992** 2003 $SR_{319}$ 7 17.4 349.°64 5.°3/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.18 | − 5 47.4 | 1.871 | 2.677 | 15.9 | 20.2 |
| 6 20 | 20 7.36 | − 5 38.8 | 1.790 | 2.676 | 13.0 | 20.0 |
| 6 30 | 20 1.41 | − 5 46.6 | 1.729 | 2.676 | 9.9 | 19.8 |
| 7 10 | 19 53.91 | − 6 11.2 | 1.691 | 2.676 | 6.8 | 19.6 |
| 7 20 | 19 45.60 | − 6 51.5 | 1.679 | 2.676 | 5.3 | 19.5 |
| 7 30 | 19 37.47 | − 7 44.4 | 1.692 | 2.676 | 6.8 | 19.6 |
| 8 9 | 19 30.44 | − 8 45.5 | 1.731 | 2.675 | 9.8 | 19.8 |
| 8 19 | 19 25.28 | − 9 50.0 | 1.793 | 2.675 | 13.0 | 20.0 |

**4414** Sesostris 7 17.4 181.°42 4.°1/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 21.21 | −30 11.5 | 1.765 | 2.607 | 15.2 | 18.5 |
| 6 20 | 20 15.54 | −30 45.3 | 1.690 | 2.608 | 11.9 | 18.2 |
| 6 30 | 20 7.01 | −31 17.8 | 1.636 | 2.608 | 8.3 | 18.0 |
| 7 10 | 19 56.38 | −31 43.3 | 1.607 | 2.608 | 5.0 | 17.8 |
| 7 20 | 19 44.75 | −31 56.5 | 1.605 | 2.608 | 4.5 | 17.8 |
| 7 30 | 19 33.48 | −31 54.6 | 1.629 | 2.607 | 7.5 | 18.0 |
| 8 9 | 19 23.89 | −31 38.0 | 1.678 | 2.605 | 11.2 | 18.2 |
| 8 19 | 19 16.90 | −31 9.3 | 1.749 | 2.603 | 14.6 | 18.4 |

**314486** 2005 $WZ_{142}$ 7 17.4 286.°74 4.°7/13.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.90 | −29 18.7 | 2.293 | 3.131 | 12.3 | 20.0 |
| 6 20 | 20 10.54 | −31 3.1 | 2.192 | 3.108 | 9.7 | 19.8 |
| 6 30 | 20 3.80 | −32 52.9 | 2.116 | 3.084 | 6.9 | 19.6 |
| 7 10 | 19 55.10 | −34 41.4 | 2.067 | 3.060 | 4.9 | 19.4 |
| 7 20 | 19 45.13 | −36 21.3 | 2.046 | 3.036 | 5.3 | 19.4 |
| 7 30 | 19 34.91 | −37 46.1 | 2.055 | 3.012 | 7.8 | 19.5 |
| 8 9 | 19 25.55 | −38 52.2 | 2.089 | 2.988 | 10.8 | 19.7 |
| 8 19 | 19 18.06 | −39 38.9 | 2.147 | 2.964 | 13.6 | 19.8 |

**372891** 2011 $AS_{15}$ 7 17.4 137.°20 2.°2/16.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.93 | −25 45.5 | 1.828 | 2.669 | 14.8 | 21.3 |
| 6 20 | 20 13.47 | −26 9.0 | 1.758 | 2.678 | 11.4 | 21.1 |
| 6 30 | 20 5.47 | −26 34.1 | 1.710 | 2.686 | 7.6 | 20.9 |
| 7 10 | 19 55.65 | −26 56.6 | 1.686 | 2.694 | 3.7 | 20.6 |
| 7 20 | 19 45.02 | −27 12.5 | 1.690 | 2.701 | 2.7 | 20.6 |
| 7 30 | 19 34.78 | −27 19.0 | 1.721 | 2.708 | 6.3 | 20.8 |
| 8 9 | 19 26.07 | −27 15.6 | 1.777 | 2.715 | 10.1 | 21.1 |
| 8 19 | 19 19.68 | −27 3.6 | 1.856 | 2.721 | 13.5 | 21.3 |

**264244** 2010 $UA_{29}$ 7 17.4 297.°50 5.°0/19.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.26 | −10 5.9 | 1.416 | 2.255 | 18.4 | 20.6 |
| 6 20 | 20 9.08 | − 9 45.1 | 1.328 | 2.239 | 15.0 | 20.3 |
| 6 30 | 20 3.07 | − 9 40.1 | 1.258 | 2.223 | 11.0 | 20.0 |
| 7 10 | 19 54.81 | − 9 51.9 | 1.210 | 2.207 | 7.0 | 19.7 |
| 7 20 | 19 45.25 | −10 19.6 | 1.185 | 2.191 | 5.0 | 19.6 |
| 7 30 | 19 35.72 | −11 0.4 | 1.184 | 2.176 | 7.7 | 19.7 |
| 8 9 | 19 27.58 | −11 49.6 | 1.206 | 2.161 | 12.1 | 19.9 |
| 8 19 | 19 21.93 | −12 42.0 | 1.249 | 2.146 | 16.5 | 20.1 |

**285359** 1999 $TL_{24}$ 7 17.4 151°.04 1°.5/16.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 18.61 | −22 55.0 | 1.852 | 2.690 | 14.8 | 21.6 |
| 6 20 | 20 13.20 | −23 26.8 | 1.780 | 2.698 | 11.4 | 21.4 |
| 6 30 | 20 5.30 | −24 3.1 | 1.730 | 2.706 | 7.5 | 21.2 |
| 7 10 | 19 55.59 | −24 39.8 | 1.704 | 2.713 | 3.4 | 21.0 |
| 7 20 | 19 45.04 | −25 12.4 | 1.706 | 2.719 | 2.0 | 20.9 |
| 7 30 | 19 34.81 | −25 37.5 | 1.736 | 2.725 | 6.0 | 21.1 |
| 8 9 | 19 26.01 | −25 53.5 | 1.791 | 2.730 | 9.9 | 21.4 |
| 8 19 | 19 19.46 | −26 0.5 | 1.870 | 2.735 | 13.3 | 21.6 |

**42846** 1999 $RJ_{26}$ 7 17.4 351°.34 1°.7/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.44 | −15 27.8 | 1.068 | 1.948 | 20.2 | 18.1 |
| 6 20 | 20 6.02 | −15 45.3 | 1.001 | 1.940 | 16.0 | 17.8 |
| 6 30 | 20 1.33 | −16 20.2 | 0.950 | 1.934 | 10.9 | 17.5 |
| 7 10 | 19 54.11 | −17 9.9 | 0.919 | 1.929 | 5.2 | 17.2 |
| 7 20 | 19 45.52 | −18 9.1 | 0.910 | 1.925 | 2.1 | 17.0 |
| 7 30 | 19 37.20 | −19 10.8 | 0.923 | 1.923 | 7.5 | 17.3 |
| 8 9 | 19 30.75 | −20 8.2 | 0.956 | 1.922 | 13.1 | 17.6 |
| 8 19 | 19 27.30 | −20 56.9 | 1.009 | 1.923 | 18.0 | 17.9 |

**120787** 1998 $FS_{12}$ 7 17.4 74°.07 2°.6/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.62 | −13 24.2 | 1.689 | 2.521 | 16.2 | 19.5 |
| 6 20 | 20 10.04 | −13 26.1 | 1.628 | 2.539 | 12.7 | 19.3 |
| 6 30 | 20 3.14 | −13 39.8 | 1.588 | 2.557 | 8.8 | 19.1 |
| 7 10 | 19 54.61 | −14 3.6 | 1.571 | 2.575 | 4.7 | 18.9 |
| 7 20 | 19 45.41 | −14 34.8 | 1.581 | 2.593 | 2.7 | 18.8 |
| 7 30 | 19 36.62 | −15 9.9 | 1.617 | 2.611 | 5.8 | 19.1 |
| 8 9 | 19 29.26 | −15 45.7 | 1.678 | 2.628 | 9.6 | 19.4 |
| 8 19 | 19 24.04 | −16 19.4 | 1.762 | 2.646 | 13.1 | 19.6 |

**263610** 2008 $FP_{136}$ 7 17.4 240°.94 3°.4/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.24 | −11 24.7 | 1.779 | 2.602 | 15.9 | 21.2 |
| 6 20 | 20 9.98 | −11 21.7 | 1.689 | 2.593 | 12.8 | 21.0 |
| 6 30 | 20 3.32 | −11 31.7 | 1.620 | 2.584 | 9.1 | 20.7 |
| 7 10 | 19 54.81 | −11 54.2 | 1.574 | 2.574 | 5.3 | 20.5 |
| 7 20 | 19 45.30 | −12 27.4 | 1.554 | 2.563 | 3.5 | 20.3 |
| 7 30 | 19 35.87 | −13 8.1 | 1.561 | 2.553 | 6.2 | 20.5 |
| 8 9 | 19 27.64 | −13 52.5 | 1.593 | 2.542 | 10.2 | 20.7 |
| 8 19 | 19 21.47 | −14 37.2 | 1.648 | 2.531 | 13.9 | 20.9 |

**284962** 2010 $FW$ 7 17.4 91°.47 3°.0/19.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.77 | −10 42.3 | 1.932 | 2.750 | 15.0 | 21.0 |
| 6 20 | 20 8.43 | −10 54.5 | 1.862 | 2.762 | 11.9 | 20.8 |
| 6 30 | 20 2.01 | −11 19.9 | 1.813 | 2.775 | 8.4 | 20.6 |
| 7 10 | 19 54.13 | −11 57.1 | 1.788 | 2.787 | 4.9 | 20.4 |
| 7 20 | 19 45.58 | −12 43.2 | 1.790 | 2.799 | 3.1 | 20.3 |
| 7 30 | 19 37.29 | −13 34.7 | 1.819 | 2.811 | 5.5 | 20.5 |
| 8 9 | 19 30.19 | −14 27.7 | 1.875 | 2.823 | 8.9 | 20.7 |
| 8 19 | 19 24.94 | −15 18.8 | 1.954 | 2.835 | 12.2 | 20.9 |

**160945** 2002 $AD_{40}$ 7 17.4 156°.78 0°.2/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.77 | −20 57.8 | 2.499 | 3.325 | 11.8 | 20.0 |
| 6 20 | 20 9.55 | −20 47.7 | 2.417 | 3.328 | 9.1 | 19.8 |
| 6 30 | 20 2.55 | −20 40.3 | 2.359 | 3.332 | 6.0 | 19.6 |
| 7 10 | 19 54.32 | −20 34.1 | 2.327 | 3.335 | 2.6 | 19.4 |
| 7 20 | 19 45.53 | −20 27.5 | 2.323 | 3.338 | 0.9 | 19.3 |
| 7 30 | 19 36.99 | −20 19.6 | 2.348 | 3.341 | 4.3 | 19.6 |
| 8 9 | 19 29.45 | −20 9.8 | 2.401 | 3.343 | 7.6 | 19.8 |
| 8 19 | 19 23.50 | −19 58.0 | 2.479 | 3.346 | 10.4 | 20.0 |

**144484** 2004 $ER_{61}$ 7 17.4 262°.34 0°.9/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.51 | −17 33.4 | 2.094 | 2.927 | 13.5 | 20.4 |
| 6 20 | 20 8.28 | −17 41.3 | 2.007 | 2.921 | 10.5 | 20.2 |
| 6 30 | 20 1.99 | −17 56.5 | 1.941 | 2.914 | 7.1 | 20.0 |
| 7 10 | 19 54.18 | −18 16.9 | 1.900 | 2.907 | 3.3 | 19.7 |
| 7 20 | 19 45.58 | −18 40.3 | 1.886 | 2.901 | 1.2 | 19.6 |
| 7 30 | 19 37.11 | −19 3.9 | 1.899 | 2.894 | 5.0 | 19.8 |
| 8 9 | 19 29.70 | −19 25.7 | 1.939 | 2.887 | 8.7 | 20.0 |
| 8 19 | 19 24.07 | −19 44.2 | 2.003 | 2.880 | 12.1 | 20.2 |

**512205** 2015 $TM_{52}$ 7 17.4 315°.64 3°.1/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.16 | −12 45.1 | 2.180 | 3.001 | 13.4 | 20.8 |
| 6 20 | 20 7.09 | −12 21.2 | 2.091 | 2.994 | 10.7 | 20.6 |
| 6 30 | 20 1.13 | −12 5.7 | 2.024 | 2.987 | 7.6 | 20.4 |
| 7 10 | 19 53.78 | −11 58.4 | 1.982 | 2.981 | 4.5 | 20.2 |
| 7 20 | 19 45.74 | −11 58.7 | 1.967 | 2.974 | 3.1 | 20.0 |
| 7 30 | 19 37.84 | −12 5.4 | 1.978 | 2.968 | 5.3 | 20.2 |
| 8 9 | 19 30.92 | −12 16.8 | 2.016 | 2.962 | 8.6 | 20.4 |
| 8 19 | 19 25.64 | −12 31.0 | 2.078 | 2.957 | 11.6 | 20.6 |

**185813** 1999 $XX_{60}$ 7 17.4 246°.81 0°.7/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.52 | −20 42.7 | 1.790 | 2.631 | 15.1 | 21.2 |
| 6 20 | 20 11.96 | −21 11.4 | 1.697 | 2.617 | 11.8 | 21.0 |
| 6 30 | 20 4.77 | −21 47.7 | 1.625 | 2.602 | 7.8 | 20.7 |
| 7 10 | 19 55.52 | −22 28.1 | 1.577 | 2.587 | 3.4 | 20.4 |
| 7 20 | 19 45.11 | −23 8.0 | 1.556 | 2.571 | 1.5 | 20.2 |
| 7 30 | 19 34.73 | −23 43.2 | 1.562 | 2.555 | 6.1 | 20.5 |
| 8 9 | 19 25.61 | −24 10.9 | 1.594 | 2.538 | 10.5 | 20.7 |
| 8 19 | 19 18.74 | −24 30.0 | 1.648 | 2.521 | 14.4 | 20.9 |

**255660** 2006 $QK_{29}$ 7 17.4 359°.59 2°.1/16.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.78 | −22 35.8 | 1.210 | 2.084 | 18.7 | 19.9 |
| 6 20 | 20 9.94 | −23 15.2 | 1.144 | 2.082 | 14.5 | 19.6 |
| 6 30 | 20 3.81 | −24 3.2 | 1.096 | 2.081 | 9.6 | 19.3 |
| 7 10 | 19 55.17 | −24 54.0 | 1.070 | 2.081 | 4.4 | 19.0 |
| 7 20 | 19 45.25 | −25 40.7 | 1.067 | 2.081 | 2.8 | 18.9 |
| 7 30 | 19 35.69 | −26 17.3 | 1.088 | 2.082 | 7.9 | 19.2 |
| 8 9 | 19 28.05 | −26 40.7 | 1.130 | 2.084 | 12.9 | 19.5 |
| 8 19 | 19 23.42 | −26 50.8 | 1.192 | 2.086 | 17.3 | 19.8 |

**117257** 2004 $SV_{53}$ 7 17.4 304°.88 2°.0/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.10 | −13 43.8 | 2.313 | 3.135 | 12.7 | 19.6 |
| 6 20 | 20 6.20 | −13 51.7 | 2.226 | 3.132 | 10.0 | 19.4 |
| 6 30 | 20 0.50 | −14 8.6 | 2.162 | 3.129 | 6.9 | 19.2 |
| 7 10 | 19 53.51 | −14 33.4 | 2.122 | 3.125 | 3.7 | 19.0 |
| 7 20 | 19 45.86 | −15 4.0 | 2.110 | 3.122 | 2.1 | 18.8 |
| 7 30 | 19 38.34 | −15 38.0 | 2.126 | 3.119 | 4.7 | 19.0 |
| 8 9 | 19 31.72 | −16 12.9 | 2.168 | 3.116 | 7.9 | 19.2 |
| 8 19 | 19 26.65 | −16 46.4 | 2.235 | 3.113 | 10.9 | 19.4 |

**88078** 2000 $WX_{14}$ 7 17.4 241°.82 4°.6/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.57 | −32 56.2 | 2.445 | 3.280 | 11.7 | 19.8 |
| 6 20 | 20 9.90 | −33 55.2 | 2.361 | 3.272 | 9.3 | 19.7 |
| 6 30 | 20 3.09 | −34 52.8 | 2.300 | 3.264 | 6.7 | 19.5 |
| 7 10 | 19 54.69 | −35 44.1 | 2.266 | 3.256 | 4.9 | 19.4 |
| 7 20 | 19 45.44 | −36 24.3 | 2.259 | 3.248 | 4.9 | 19.3 |
| 7 30 | 19 36.29 | −36 50.3 | 2.279 | 3.240 | 7.0 | 19.5 |
| 8 9 | 19 28.21 | −37 1.2 | 2.325 | 3.231 | 9.5 | 19.6 |
| 8 19 | 19 21.94 | −36 58.1 | 2.395 | 3.222 | 12.0 | 19.8 |

**222604** 2001 $XS_{27}$ 7 17.4 115°.90 2°.3/16.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.51 | −25 49.6 | 2.174 | 3.007 | 13.1 | 21.1 |
| 6 20 | 20 12.69 | −26 29.2 | 2.113 | 3.028 | 10.0 | 21.0 |
| 6 30 | 20 4.74 | −27 10.3 | 2.074 | 3.048 | 6.7 | 20.8 |
| 7 10 | 19 55.31 | −27 48.5 | 2.062 | 3.068 | 3.4 | 20.6 |
| 7 20 | 19 45.27 | −28 20.0 | 2.078 | 3.087 | 2.7 | 20.6 |
| 7 30 | 19 35.61 | −28 42.0 | 2.122 | 3.106 | 5.6 | 20.8 |
| 8 9 | 19 27.25 | −28 53.8 | 2.193 | 3.124 | 8.8 | 21.1 |
| 8 19 | 19 20.87 | −28 55.9 | 2.289 | 3.141 | 11.7 | 21.3 |

**263692** 2008 $GC_{142}$ 7 17.4 26°.36 1°.9/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.42 | −24 35.0 | 2.010 | 2.857 | 13.4 | 20.5 |
| 6 20 | 20 8.33 | −25 7.8 | 1.937 | 2.860 | 10.3 | 20.3 |
| 6 30 | 20 2.06 | −25 43.8 | 1.886 | 2.864 | 6.8 | 20.1 |
| 7 10 | 19 54.22 | −26 19.1 | 1.859 | 2.867 | 3.3 | 19.9 |
| 7 20 | 19 45.63 | −26 49.7 | 1.860 | 2.871 | 2.4 | 19.8 |
| 7 30 | 19 37.29 | −27 12.8 | 1.887 | 2.875 | 5.7 | 20.0 |
| 8 9 | 19 30.16 | −27 26.7 | 1.940 | 2.880 | 9.2 | 20.3 |
| 8 19 | 19 24.97 | −27 31.5 | 2.017 | 2.884 | 12.4 | 20.5 |

**510486** 2011 $WO_{144}$ 7 17.4 173°.91 6°.6/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.51 | −41 37.3 | 2.866 | 3.678 | 10.8 | 22.4 |
| 6 20 | 20 12.92 | −43 8.3 | 2.798 | 3.680 | 9.0 | 22.3 |
| 6 30 | 20 5.10 | −44 33.6 | 2.753 | 3.682 | 7.5 | 22.2 |
| 7 10 | 19 55.58 | −45 47.1 | 2.736 | 3.684 | 6.6 | 22.1 |
| 7 20 | 19 45.13 | −46 43.9 | 2.746 | 3.685 | 7.0 | 22.1 |
| 7 30 | 19 34.73 | −47 21.0 | 2.782 | 3.686 | 8.3 | 22.2 |
| 8 9 | 19 25.39 | −47 38.3 | 2.844 | 3.686 | 10.0 | 22.3 |
| 8 19 | 19 17.91 | −47 37.7 | 2.927 | 3.686 | 11.7 | 22.5 |

**118936** 2000 $WT_{43}$ 7 17.4 265°.07 4°.3/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.85 | − 8 16.1 | 2.332 | 3.134 | 13.2 | 19.6 |
| 6 20 | 20 6.74 | − 7 52.8 | 2.240 | 3.126 | 10.8 | 19.4 |
| 6 30 | 20 0.86 | − 7 40.3 | 2.169 | 3.118 | 8.1 | 19.2 |
| 7 10 | 19 53.67 | − 7 38.9 | 2.123 | 3.109 | 5.5 | 19.0 |
| 7 20 | 19 45.81 | − 7 48.4 | 2.103 | 3.101 | 4.3 | 19.0 |
| 7 30 | 19 38.05 | − 8 7.4 | 2.111 | 3.093 | 5.8 | 19.0 |
| 8 9 | 19 31.16 | − 8 33.8 | 2.145 | 3.085 | 8.5 | 19.2 |
| 8 19 | 19 25.77 | − 9 4.8 | 2.203 | 3.076 | 11.3 | 19.4 |

**343501** 2010 $EC_{106}$ 7 17.4 92°.24 4°.4/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.55 | −30 35.4 | 1.903 | 2.749 | 14.1 | 20.6 |
| 6 20 | 20 11.74 | −31 26.0 | 1.837 | 2.757 | 11.0 | 20.4 |
| 6 30 | 20 4.41 | −32 15.7 | 1.793 | 2.764 | 7.7 | 20.2 |
| 7 10 | 19 55.26 | −32 58.6 | 1.773 | 2.772 | 4.9 | 20.1 |
| 7 20 | 19 45.27 | −33 29.7 | 1.780 | 2.779 | 4.8 | 20.1 |
| 7 30 | 19 35.63 | −33 45.8 | 1.813 | 2.786 | 7.4 | 20.3 |
| 8 9 | 19 27.46 | −33 46.5 | 1.871 | 2.793 | 10.6 | 20.5 |
| 8 19 | 19 21.57 | −33 33.8 | 1.951 | 2.800 | 13.5 | 20.7 |

**224208** 2005 $SG_{16}$ 7 17.4 197°.42 5°.1/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.21 | − 6 30.1 | 2.061 | 2.856 | 14.9 | 21.5 |
| 6 20 | 20 9.53 | − 6 12.0 | 1.973 | 2.854 | 12.3 | 21.3 |
| 6 30 | 20 2.80 | − 6 7.6 | 1.907 | 2.851 | 9.3 | 21.1 |
| 7 10 | 19 54.55 | − 6 17.6 | 1.864 | 2.848 | 6.4 | 20.9 |
| 7 20 | 19 45.51 | − 6 41.4 | 1.848 | 2.844 | 5.1 | 20.8 |
| 7 30 | 19 36.60 | − 7 16.9 | 1.859 | 2.839 | 6.6 | 20.9 |
| 8 9 | 19 28.73 | − 8 0.7 | 1.896 | 2.834 | 9.5 | 21.1 |
| 8 19 | 19 22.62 | − 8 49.2 | 1.956 | 2.829 | 12.5 | 21.3 |

**764** Gedania 7 17.4 249°.30 2°.7/18.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.60 | −12 54.2 | 2.542 | 3.354 | 12.0 | 15.0 |
| 6 20 | 20 7.16 | −12 33.6 | 2.449 | 3.346 | 9.6 | 14.8 |
| 6 30 | 20 1.06 | −12 20.2 | 2.378 | 3.338 | 6.8 | 14.6 |
| 7 10 | 19 53.74 | −12 13.6 | 2.333 | 3.331 | 4.0 | 14.4 |
| 7 20 | 19 45.81 | −12 13.4 | 2.315 | 3.323 | 2.7 | 14.3 |
| 7 30 | 19 38.00 | −12 18.4 | 2.326 | 3.315 | 4.7 | 14.4 |
| 8 9 | 19 31.02 | −12 27.1 | 2.364 | 3.307 | 7.6 | 14.6 |
| 8 19 | 19 25.46 | −12 38.2 | 2.427 | 3.298 | 10.4 | 14.8 |

**449917** 2015 $NH_{17}$ 7 17.4 39°.76 2°.4/18.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.37 | −11 20.2 | 1.782 | 2.612 | 15.6 | 20.3 |
| 6 20 | 20 6.76 | −11 56.2 | 1.718 | 2.628 | 12.3 | 20.1 |
| 6 30 | 20 1.02 | −12 46.9 | 1.676 | 2.644 | 8.5 | 19.9 |
| 7 10 | 19 53.76 | −13 49.7 | 1.657 | 2.660 | 4.6 | 19.7 |
| 7 20 | 19 45.81 | −15 0.4 | 1.665 | 2.677 | 2.4 | 19.6 |
| 7 30 | 19 38.17 | −16 13.7 | 1.699 | 2.694 | 5.4 | 19.8 |
| 8 9 | 19 31.75 | −17 24.8 | 1.760 | 2.712 | 9.1 | 20.1 |
| 8 19 | 19 27.27 | −18 30.0 | 1.843 | 2.730 | 12.5 | 20.4 |

**36080** 1999 $RF_{64}$ 7 17.4 310°.78 4°.5/15.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.34 | −32 38.3 | 2.061 | 2.904 | 13.3 | 19.1 |
| 6 20 | 20 10.78 | −33 8.8 | 1.978 | 2.895 | 10.5 | 18.9 |
| 6 30 | 20 3.79 | −33 36.4 | 1.917 | 2.886 | 7.5 | 18.7 |
| 7 10 | 19 55.02 | −33 56.3 | 1.881 | 2.877 | 5.0 | 18.5 |
| 7 20 | 19 45.37 | −34 4.2 | 1.871 | 2.868 | 4.8 | 18.5 |
| 7 30 | 19 35.96 | −33 57.9 | 1.887 | 2.859 | 7.2 | 18.6 |
| 8 9 | 19 27.87 | −33 37.3 | 1.929 | 2.851 | 10.3 | 18.8 |
| 8 19 | 19 21.93 | −33 4.8 | 1.993 | 2.843 | 13.3 | 18.9 |

**398993** 2013 $EB_{112}$ 7 17.4 155°.93 3°.2/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.86 | − 9 0.2 | 2.658 | 3.454 | 11.9 | 22.2 |
| 6 20 | 20 6.46 | − 9 0.0 | 2.574 | 3.459 | 9.6 | 22.1 |
| 6 30 | 20 0.52 | − 9 9.9 | 2.513 | 3.464 | 7.0 | 21.9 |
| 7 10 | 19 53.49 | − 9 29.5 | 2.478 | 3.469 | 4.5 | 21.8 |
| 7 20 | 19 45.93 | − 9 57.5 | 2.470 | 3.473 | 3.2 | 21.7 |
| 7 30 | 19 38.52 | −10 31.9 | 2.491 | 3.477 | 4.7 | 21.8 |
| 8 9 | 19 31.91 | −11 10.2 | 2.539 | 3.480 | 7.3 | 22.0 |
| 8 19 | 19 26.63 | −11 50.0 | 2.613 | 3.483 | 9.8 | 22.1 |

**472087** 2013 $YK_{129}$ 7 17.4 191°.34 1°.3/17.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.01 | −25 16.8 | 2.085 | 2.918 | 13.5 | 21.7 |
| 6 20 | 20 13.29 | −25 14.2 | 2.002 | 2.918 | 10.5 | 21.5 |
| 6 30 | 20 5.28 | −25 12.1 | 1.941 | 2.916 | 7.0 | 21.3 |
| 7 10 | 19 55.63 | −25 7.5 | 1.906 | 2.914 | 3.2 | 21.0 |
| 7 20 | 19 45.21 | −24 58.0 | 1.899 | 2.912 | 1.8 | 20.9 |
| 7 30 | 19 35.09 | −24 42.3 | 1.920 | 2.910 | 5.4 | 21.2 |
| 8 9 | 19 26.28 | −24 20.4 | 1.968 | 2.907 | 9.1 | 21.4 |
| 8 19 | 19 19.53 | −23 53.7 | 2.039 | 2.904 | 12.4 | 21.6 |

**53346** 1999 $JE_{57}$ 7 17.4 144°.86 3°.8/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.83 | − 7 50.3 | 2.543 | 3.336 | 12.5 | 19.3 |
| 6 20 | 20 7.24 | − 7 41.6 | 2.463 | 3.344 | 10.1 | 19.1 |
| 6 30 | 20 1.05 | − 7 43.9 | 2.405 | 3.352 | 7.5 | 19.0 |
| 7 10 | 19 53.73 | − 7 56.8 | 2.372 | 3.359 | 5.0 | 18.8 |
| 7 20 | 19 45.88 | − 8 19.5 | 2.367 | 3.366 | 3.8 | 18.8 |
| 7 30 | 19 38.20 | − 8 50.0 | 2.390 | 3.372 | 5.2 | 18.9 |
| 8 9 | 19 31.38 | − 9 25.8 | 2.440 | 3.379 | 7.6 | 19.0 |
| 8 19 | 19 25.97 | −10 4.4 | 2.515 | 3.384 | 10.2 | 19.2 |

**324911** 2007 $VP_{244}$ 7 17.5 188°.45 2°.2/17.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 25.24 | −18 21.7 | 1.930 | 2.744 | 15.1 | 20.6 |
| 6 20 | 20 18.12 | −17 27.8 | 1.841 | 2.744 | 11.9 | 20.3 |
| 6 30 | 20 8.49 | −16 36.1 | 1.776 | 2.742 | 8.2 | 20.1 |
| 7 10 | 19 57.04 | −15 46.4 | 1.736 | 2.741 | 4.2 | 19.9 |
| 7 20 | 19 44.76 | −14 59.2 | 1.726 | 2.738 | 2.4 | 19.7 |
| 7 30 | 19 32.82 | −14 15.1 | 1.745 | 2.735 | 5.9 | 20.0 |
| 8 9 | 19 22.35 | −13 35.0 | 1.791 | 2.731 | 9.9 | 20.2 |
| 8 19 | 19 14.15 | −12 59.6 | 1.863 | 2.726 | 13.5 | 20.4 |

**249056** 2007 $TK_{214}$ 7 17.5 319°.69 1°.3/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.78 | −17 35.4 | 1.794 | 2.635 | 15.0 | 20.6 |
| 6 20 | 20 8.84 | −17 30.0 | 1.710 | 2.629 | 11.8 | 20.4 |
| 6 30 | 20 2.56 | −17 32.1 | 1.647 | 2.622 | 8.0 | 20.1 |
| 7 10 | 19 54.53 | −17 39.9 | 1.608 | 2.616 | 3.8 | 19.9 |
| 7 20 | 19 45.61 | −17 51.5 | 1.595 | 2.610 | 1.6 | 19.7 |
| 7 30 | 19 36.87 | −18 4.5 | 1.608 | 2.604 | 5.6 | 20.0 |
| 8 9 | 19 29.39 | −18 16.8 | 1.647 | 2.598 | 9.7 | 20.2 |
| 8 19 | 19 23.96 | −18 27.0 | 1.708 | 2.593 | 13.4 | 20.4 |

**220672** 2004 $RR_{201}$ 7 17.5 310°.15 4°.3/15.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.16 | −31 41.7 | 2.058 | 2.903 | 13.2 | 19.7 |
| 6 20 | 20 9.97 | −32 14.0 | 1.967 | 2.886 | 10.4 | 19.4 |
| 6 30 | 20 3.35 | −32 44.7 | 1.898 | 2.868 | 7.4 | 19.2 |
| 7 10 | 19 54.90 | −33 8.8 | 1.853 | 2.851 | 4.8 | 19.0 |
| 7 20 | 19 45.48 | −33 22.0 | 1.835 | 2.834 | 4.6 | 19.0 |
| 7 30 | 19 36.19 | −33 21.5 | 1.843 | 2.818 | 7.2 | 19.1 |
| 8 9 | 19 28.15 | −33 6.8 | 1.876 | 2.801 | 10.4 | 19.3 |
| 8 19 | 19 22.21 | −32 39.8 | 1.932 | 2.785 | 13.5 | 19.4 |

**497942** 2006 $WX_{110}$ 7 17.5 224°.10 0°.6/17.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.27 | −18 3.3 | 1.894 | 2.727 | 14.7 | 22.6 |
| 6 20 | 20 11.50 | −18 16.9 | 1.804 | 2.719 | 11.5 | 22.4 |
| 6 30 | 20 4.33 | −18 38.4 | 1.736 | 2.710 | 7.7 | 22.1 |
| 7 10 | 19 55.32 | −19 5.5 | 1.693 | 2.701 | 3.5 | 21.8 |
| 7 20 | 19 45.33 | −19 35.1 | 1.676 | 2.691 | 1.2 | 21.6 |
| 7 30 | 19 35.46 | −20 3.7 | 1.687 | 2.681 | 5.5 | 21.9 |
| 8 9 | 19 26.79 | −20 28.9 | 1.723 | 2.670 | 9.7 | 22.1 |
| 8 19 | 19 20.18 | −20 49.3 | 1.784 | 2.659 | 13.4 | 22.4 |

**91380** 1999 $JW_{105}$ 7 17.5 5°.41 2°.3/18.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.09 | −17 54.6 | 1.149 | 2.024 | 19.4 | 18.5 |
| 6 20 | 20 7.73 | −17 21.9 | 1.087 | 2.024 | 15.3 | 18.3 |
| 6 30 | 20 2.25 | −16 57.9 | 1.043 | 2.025 | 10.4 | 18.0 |
| 7 10 | 19 54.48 | −16 42.1 | 1.019 | 2.027 | 5.1 | 17.7 |
| 7 20 | 19 45.65 | −16 33.1 | 1.017 | 2.032 | 2.5 | 17.6 |
| 7 30 | 19 37.29 | −16 28.9 | 1.039 | 2.037 | 7.2 | 17.9 |
| 8 9 | 19 30.81 | −16 27.6 | 1.082 | 2.045 | 12.2 | 18.2 |
| 8 19 | 19 27.17 | −16 27.3 | 1.144 | 2.053 | 16.7 | 18.4 |

**248435** 2005 $TM_{22}$ 7 17.5 224°.45 4°.4/19.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.62 | − 5 19.1 | 2.829 | 3.607 | 11.7 | 21.7 |
| 6 20 | 20 6.28 | − 5 4.4 | 2.729 | 3.597 | 9.7 | 21.5 |
| 6 30 | 20 0.44 | − 5 0.6 | 2.652 | 3.587 | 7.4 | 21.3 |
| 7 10 | 19 53.50 | − 5 8.0 | 2.601 | 3.576 | 5.4 | 21.2 |
| 7 20 | 19 45.98 | − 5 26.2 | 2.576 | 3.566 | 4.4 | 21.1 |
| 7 30 | 19 38.52 | − 5 54.2 | 2.580 | 3.554 | 5.4 | 21.2 |
| 8 9 | 19 31.75 | − 6 29.5 | 2.611 | 3.542 | 7.5 | 21.3 |
| 8 19 | 19 26.20 | − 7 9.7 | 2.667 | 3.530 | 9.9 | 21.4 |

**141178** 2001 $XH_{153}$ 7 17.5 112°.70 1°.8/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.85 | −23 17.6 | 2.249 | 3.087 | 12.5 | 19.7 |
| 6 20 | 20 8.48 | −24 11.4 | 2.173 | 3.092 | 9.6 | 19.5 |
| 6 30 | 20 2.11 | −25 9.8 | 2.121 | 3.098 | 6.3 | 19.3 |
| 7 10 | 19 54.28 | −26 8.8 | 2.095 | 3.103 | 3.0 | 19.1 |
| 7 20 | 19 45.72 | −27 3.9 | 2.097 | 3.108 | 2.3 | 19.0 |
| 7 30 | 19 37.33 | −27 51.3 | 2.127 | 3.113 | 5.4 | 19.2 |
| 8 9 | 19 30.00 | −28 28.8 | 2.184 | 3.118 | 8.6 | 19.5 |
| 8 19 | 19 24.41 | −28 55.7 | 2.265 | 3.123 | 11.6 | 19.7 |

**234327** 2001 $DG_{77}$ 7 17.5 2°.20 2°.9/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.96 | −11 55.4 | 1.654 | 2.490 | 16.3 | 20.0 |
| 6 20 | 20 7.56 | −12 7.4 | 1.577 | 2.489 | 13.0 | 19.7 |
| 6 30 | 20 1.77 | −12 33.8 | 1.521 | 2.489 | 9.1 | 19.5 |
| 7 10 | 19 54.21 | −13 13.3 | 1.487 | 2.489 | 5.1 | 19.3 |
| 7 20 | 19 45.75 | −14 2.9 | 1.479 | 2.490 | 3.0 | 19.1 |
| 7 30 | 19 37.48 | −14 58.2 | 1.496 | 2.491 | 6.0 | 19.3 |
| 8 9 | 19 30.50 | −15 54.6 | 1.538 | 2.492 | 10.0 | 19.6 |
| 8 19 | 19 25.63 | −16 48.1 | 1.603 | 2.494 | 13.8 | 19.8 |

**470353** 2007 $RA_{272}$ 7 17.5 324°.01 2°.3/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.48 | −26 23.6 | 1.814 | 2.663 | 14.6 | 20.8 |
| 6 20 | 20 11.01 | −26 39.8 | 1.735 | 2.659 | 11.3 | 20.6 |
| 6 30 | 20 4.01 | −26 57.1 | 1.678 | 2.656 | 7.6 | 20.4 |
| 7 10 | 19 55.17 | −27 11.5 | 1.645 | 2.652 | 3.8 | 20.2 |
| 7 20 | 19 45.43 | −27 19.5 | 1.638 | 2.649 | 2.8 | 20.1 |
| 7 30 | 19 35.97 | −27 18.4 | 1.658 | 2.646 | 6.3 | 20.3 |
| 8 9 | 19 27.93 | −27 8.0 | 1.703 | 2.644 | 10.2 | 20.5 |
| 8 19 | 19 22.14 | −26 49.1 | 1.770 | 2.641 | 13.7 | 20.7 |

**231627** 2009 $SU_{345}$ 7 17.5 219°.92 2°.0/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.63 | −24 52.2 | 2.018 | 2.856 | 13.7 | 21.5 |
| 6 20 | 20 12.51 | −25 23.5 | 1.930 | 2.848 | 10.7 | 21.3 |
| 6 30 | 20 4.98 | −25 58.1 | 1.863 | 2.839 | 7.1 | 21.0 |
| 7 10 | 19 55.61 | −26 31.8 | 1.822 | 2.830 | 3.4 | 20.8 |
| 7 20 | 19 45.26 | −27 0.3 | 1.809 | 2.820 | 2.5 | 20.7 |
| 7 30 | 19 35.05 | −27 20.5 | 1.823 | 2.810 | 6.0 | 20.9 |
| 8 9 | 19 26.07 | −27 30.7 | 1.863 | 2.799 | 9.8 | 21.1 |
| 8 19 | 19 19.18 | −27 31.2 | 1.927 | 2.787 | 13.2 | 21.3 |

**24584** 3256 $T\text{-}_2$ 7 17.5 356°.88 2°.5/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.33 | −24 4.0 | 1.239 | 2.113 | 18.4 | 18.9 |
| 6 20 | 20 10.35 | −24 36.0 | 1.172 | 2.110 | 14.3 | 18.7 |
| 6 30 | 20 4.10 | −25 14.3 | 1.124 | 2.108 | 9.5 | 18.4 |
| 7 10 | 19 55.35 | −25 53.0 | 1.097 | 2.107 | 4.5 | 18.1 |
| 7 20 | 19 45.36 | −26 25.8 | 1.094 | 2.107 | 3.1 | 18.0 |
| 7 30 | 19 35.73 | −26 47.9 | 1.114 | 2.107 | 7.9 | 18.3 |
| 8 9 | 19 28.03 | −26 57.1 | 1.156 | 2.108 | 12.8 | 18.6 |
| 8 19 | 19 23.32 | −26 54.1 | 1.217 | 2.110 | 17.1 | 18.9 |

**389912** 2012 $TY_{65}$ 7 17.5 290°.05 2°.1/18.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.77 | −15 4.9 | 1.784 | 2.620 | 15.3 | 21.3 |
| 6 20 | 20 8.99 | −15 1.7 | 1.688 | 2.602 | 12.2 | 21.0 |
| 6 30 | 20 2.79 | −15 8.4 | 1.612 | 2.584 | 8.4 | 20.8 |
| 7 10 | 19 54.71 | −15 24.1 | 1.561 | 2.566 | 4.4 | 20.5 |
| 7 20 | 19 45.56 | −15 46.5 | 1.534 | 2.548 | 2.3 | 20.3 |
| 7 30 | 19 36.43 | −16 13.1 | 1.535 | 2.529 | 5.9 | 20.5 |
| 8 9 | 19 28.45 | −16 40.9 | 1.560 | 2.511 | 10.1 | 20.7 |
| 8 19 | 19 22.53 | −17 7.4 | 1.608 | 2.493 | 14.0 | 20.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **32611** Ananyaganesh | | | 7 17.5 278.°73 | | 0.°1/17.4 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.68 | −19 26.3 | 2.034 | 2.872 | 13.6 | 19.4 |
| 6 20 | 20 8.50 | −19 48.3 | 1.953 | 2.871 | 10.6 | 19.2 |
| 6 30 | 20 2.20 | −20 17.0 | 1.894 | 2.871 | 7.0 | 19.0 |
| 7 10 | 19 54.35 | −20 49.6 | 1.861 | 2.870 | 3.1 | 18.7 |
| 7 20 | 19 45.72 | −21 23.0 | 1.854 | 2.869 | 1.1 | 18.6 |
| 7 30 | 19 37.28 | −21 53.9 | 1.874 | 2.868 | 5.1 | 18.9 |
| 8 9 | 19 29.96 | −22 20.1 | 1.921 | 2.867 | 8.9 | 19.1 |
| 8 19 | 19 24.49 | −22 40.2 | 1.991 | 2.867 | 12.2 | 19.3 |
| **41858** 2000 $WU_{93}$ | | | 7 17.5 159.°58 | | 0.°6/17.7 18 | |
| 6 10 | 20 15.43 | −18 16.1 | 2.178 | 3.004 | 13.2 | 19.3 |
| 6 20 | 20 10.38 | −18 26.3 | 2.098 | 3.009 | 10.3 | 19.2 |
| 6 30 | 20 3.31 | −18 42.8 | 2.042 | 3.014 | 6.9 | 19.0 |
| 7 10 | 19 54.79 | −19 3.3 | 2.011 | 3.019 | 3.1 | 18.7 |
| 7 20 | 19 45.58 | −19 25.4 | 2.007 | 3.023 | 1.1 | 18.6 |
| 7 30 | 19 36.60 | −19 46.6 | 2.032 | 3.026 | 4.8 | 18.9 |
| 8 9 | 19 28.73 | −20 5.1 | 2.084 | 3.029 | 8.4 | 19.1 |
| 8 19 | 19 22.65 | −20 19.8 | 2.161 | 3.032 | 11.6 | 19.3 |
| **270209** 2001 $TB_{97}$ | | | 7 17.5 162.°74 | | 0.°9/17.8 18 | |
| 6 10 | 20 15.98 | −17 58.6 | 1.836 | 2.671 | 15.0 | 20.6 |
| 6 20 | 20 11.19 | −18 1.0 | 1.758 | 2.673 | 11.7 | 20.4 |
| 6 30 | 20 4.04 | −18 10.7 | 1.702 | 2.676 | 7.8 | 20.1 |
| 7 10 | 19 55.17 | −18 25.6 | 1.670 | 2.678 | 3.6 | 19.9 |
| 7 20 | 19 45.47 | −18 43.0 | 1.664 | 2.679 | 1.4 | 19.7 |
| 7 30 | 19 36.03 | −19 0.4 | 1.686 | 2.681 | 5.5 | 20.0 |
| 8 9 | 19 27.90 | −19 15.6 | 1.734 | 2.682 | 9.5 | 20.3 |
| 8 19 | 19 21.88 | −19 27.6 | 1.805 | 2.683 | 13.1 | 20.5 |
| **505415** 2013 $RL_{8}$ | | | 7 17.5 169.°80 | | 1.°6/16.9 17 | |
| 6 10 | 20 18.68 | −24 19.9 | 1.727 | 2.571 | 15.4 | 21.6 |
| 6 20 | 20 13.51 | −24 32.4 | 1.652 | 2.573 | 11.9 | 21.4 |
| 6 30 | 20 5.68 | −24 47.6 | 1.597 | 2.575 | 7.9 | 21.1 |
| 7 10 | 19 55.91 | −25 1.6 | 1.567 | 2.576 | 3.6 | 20.9 |
| 7 20 | 19 45.21 | −25 10.7 | 1.564 | 2.577 | 2.1 | 20.8 |
| 7 30 | 19 34.86 | −25 12.4 | 1.587 | 2.578 | 6.2 | 21.0 |
| 8 9 | 19 26.05 | −25 6.0 | 1.635 | 2.578 | 10.4 | 21.3 |
| 8 19 | 19 19.64 | −24 52.4 | 1.706 | 2.578 | 14.1 | 21.5 |
| **184192** 2004 $PC_{30}$ | | | 7 17.5 4.°33 | | 2.°0/16.8 18 | |
| 6 10 | 20 14.12 | −26 29.2 | 1.920 | 2.768 | 13.9 | 19.8 |
| 6 20 | 20 9.75 | −26 35.0 | 1.845 | 2.768 | 10.8 | 19.6 |
| 6 30 | 20 3.06 | −26 41.1 | 1.791 | 2.769 | 7.2 | 19.4 |
| 7 10 | 19 54.72 | −26 44.3 | 1.762 | 2.769 | 3.5 | 19.2 |
| 7 20 | 19 45.63 | −26 41.6 | 1.759 | 2.771 | 2.4 | 19.1 |
| 7 30 | 19 36.86 | −26 31.4 | 1.783 | 2.772 | 5.8 | 19.3 |
| 8 9 | 19 29.43 | −26 13.6 | 1.832 | 2.774 | 9.5 | 19.6 |
| 8 19 | 19 24.08 | −25 49.2 | 1.904 | 2.777 | 12.8 | 19.8 |
| **520281** 2014 $EW_{248}$ | | | 7 17.5 23.°04 | | 2.°7/16.5 15 | |
| 6 10 | 20 13.03 | −26 45.7 | 1.598 | 2.459 | 15.6 | 20.5 |
| 6 20 | 20 9.26 | −27 7.0 | 1.538 | 2.469 | 12.1 | 20.3 |
| 6 30 | 20 2.87 | −27 29.2 | 1.500 | 2.480 | 8.0 | 20.1 |
| 7 10 | 19 54.65 | −27 47.9 | 1.484 | 2.491 | 4.1 | 19.9 |
| 7 20 | 19 45.67 | −27 59.2 | 1.493 | 2.504 | 3.2 | 19.9 |
| 7 30 | 19 37.15 | −28 0.4 | 1.528 | 2.517 | 6.7 | 20.1 |
| 8 9 | 19 30.25 | −27 51.3 | 1.587 | 2.531 | 10.6 | 20.4 |
| 8 19 | 19 25.72 | −27 33.3 | 1.668 | 2.546 | 14.0 | 20.6 |
| **179469** 2002 $BE_{20}$ | | | 7 17.5 200.°28 | | 3.°0/19.2 18 | |
| 6 10 | 20 10.55 | −10 7.6 | 2.396 | 3.204 | 12.8 | 20.6 |
| 6 20 | 20 6.48 | −10 12.3 | 2.310 | 3.203 | 10.2 | 20.4 |
| 6 30 | 20 0.69 | −10 27.9 | 2.245 | 3.202 | 7.3 | 20.2 |
| 7 10 | 19 53.65 | −10 53.7 | 2.205 | 3.200 | 4.5 | 20.0 |
| 7 20 | 19 45.99 | −11 28.0 | 2.192 | 3.199 | 3.1 | 19.9 |
| 7 30 | 19 38.45 | −12 8.6 | 2.208 | 3.197 | 4.9 | 20.1 |
| 8 9 | 19 31.78 | −12 52.3 | 2.250 | 3.196 | 7.8 | 20.2 |
| 8 19 | 19 26.57 | −13 36.6 | 2.318 | 3.194 | 10.7 | 20.4 |
| **170637** 2003 $YA_{79}$ | | | 7 17.5 226.°72 | | 0.°7/17.7 18 | |
| 6 10 | 20 16.20 | −19 33.5 | 2.288 | 3.113 | 12.7 | 20.6 |
| 6 20 | 20 10.97 | −19 19.5 | 2.195 | 3.105 | 9.9 | 20.4 |
| 6 30 | 20 3.73 | −19 9.1 | 2.124 | 3.096 | 6.7 | 20.2 |
| 7 10 | 19 55.01 | −19 1.0 | 2.080 | 3.088 | 3.1 | 19.9 |
| 7 20 | 19 45.56 | −18 53.7 | 2.063 | 3.078 | 1.1 | 19.8 |
| 7 30 | 19 36.26 | −18 46.1 | 2.075 | 3.069 | 4.8 | 20.0 |
| 8 9 | 19 28.01 | −18 37.4 | 2.115 | 3.059 | 8.3 | 20.2 |
| 8 19 | 19 21.50 | −18 27.5 | 2.179 | 3.048 | 11.5 | 20.4 |
| **314009** 2004 $VR_{22}$ | | | 7 17.5 312.°76 | | 3.°3/18.8 18 | |
| 6 10 | 20 10.62 | −12 14.9 | 2.154 | 2.974 | 13.6 | 20.2 |
| 6 20 | 20 6.80 | −11 52.3 | 2.060 | 2.962 | 10.9 | 20.0 |
| 6 30 | 20 1.05 | −11 38.5 | 1.988 | 2.950 | 7.8 | 19.8 |
| 7 10 | 19 53.88 | −11 33.6 | 1.941 | 2.938 | 4.7 | 19.6 |
| 7 20 | 19 45.95 | −11 36.9 | 1.920 | 2.927 | 3.3 | 19.5 |
| 7 30 | 19 38.12 | −11 47.2 | 1.926 | 2.916 | 5.5 | 19.6 |
| 8 9 | 19 31.24 | −12 2.5 | 1.958 | 2.905 | 8.7 | 19.8 |
| 8 19 | 19 25.99 | −12 20.8 | 2.013 | 2.894 | 11.9 | 19.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **46390** 2001 $YT_{96}$ | | | 7 17.5 201.°24 | | 2.°9/16.4 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 20.23 | −26 12.1 | 1.694 | 2.539 | 15.6 | 19.5 |
| 6 20 | 20 14.97 | −26 47.7 | 1.614 | 2.536 | 12.2 | 19.3 |
| 6 30 | 20 6.83 | −27 26.1 | 1.556 | 2.532 | 8.2 | 19.0 |
| 7 10 | 19 56.50 | −28 2.0 | 1.522 | 2.528 | 4.2 | 18.8 |
| 7 20 | 19 45.05 | −28 29.9 | 1.514 | 2.523 | 3.4 | 18.7 |
| 7 30 | 19 33.85 | −28 45.9 | 1.532 | 2.518 | 7.1 | 19.0 |
| 8 9 | 19 24.23 | −28 49.0 | 1.576 | 2.512 | 11.2 | 19.2 |
| 8 19 | 19 17.17 | −28 40.5 | 1.642 | 2.506 | 14.9 | 19.4 |
| **388598** 2007 $RX_{181}$ | | | 7 17.5 191.°50 | | 3.°4/15.9 18 | |
| 6 10 | 20 16.33 | −29 17.3 | 2.199 | 3.037 | 12.7 | 21.4 |
| 6 20 | 20 11.31 | −29 53.8 | 2.120 | 3.036 | 9.9 | 21.2 |
| 6 30 | 20 4.07 | −30 30.1 | 2.063 | 3.035 | 6.8 | 21.0 |
| 7 10 | 19 55.20 | −31 1.7 | 2.032 | 3.034 | 4.0 | 20.8 |
| 7 20 | 19 45.53 | −31 24.5 | 2.029 | 3.032 | 3.7 | 20.8 |
| 7 30 | 19 36.08 | −31 35.8 | 2.053 | 3.030 | 6.3 | 21.0 |
| 8 9 | 19 27.85 | −31 35.1 | 2.103 | 3.028 | 9.4 | 21.1 |
| 8 19 | 19 21.59 | −31 23.5 | 2.176 | 3.026 | 12.3 | 21.3 |
| **166220** 2002 $EE_{153}$ | | | 7 17.5 61.°07 | | 4.°2/18.7 17 | |
| 6 10 | 20 16.46 | −13 0.2 | 1.353 | 2.196 | 18.9 | 19.5 |
| 6 20 | 20 12.15 | −12 23.6 | 1.288 | 2.203 | 15.1 | 19.3 |
| 6 30 | 20 4.95 | −11 59.3 | 1.241 | 2.210 | 10.7 | 19.1 |
| 7 10 | 19 55.65 | −11 47.9 | 1.217 | 2.217 | 6.3 | 18.8 |
| 7 20 | 19 45.39 | −11 48.3 | 1.216 | 2.225 | 4.3 | 18.7 |
| 7 30 | 19 35.57 | −11 58.5 | 1.240 | 2.232 | 7.3 | 18.9 |
| 8 9 | 19 27.48 | −12 15.5 | 1.287 | 2.240 | 11.7 | 19.2 |
| 8 19 | 19 22.04 | −12 36.0 | 1.355 | 2.248 | 15.7 | 19.5 |
| **5191** Paddack | | | 7 17.5 292.°65 | | 4.°3/19.2 18 | |
| 6 10 | 20 11.31 | − 9 22.6 | 2.142 | 2.952 | 14.0 | 16.8 |
| 6 20 | 20 7.33 | − 8 54.0 | 2.049 | 2.941 | 11.4 | 16.6 |
| 6 30 | 20 1.41 | − 8 35.9 | 1.977 | 2.930 | 8.4 | 16.4 |
| 7 10 | 19 54.05 | − 8 29.0 | 1.929 | 2.919 | 5.6 | 16.2 |
| 7 20 | 19 45.92 | − 8 33.0 | 1.908 | 2.908 | 4.3 | 16.1 |
| 7 30 | 19 37.89 | − 8 46.8 | 1.913 | 2.898 | 6.0 | 16.2 |
| 8 9 | 19 30.81 | − 9 8.1 | 1.944 | 2.887 | 9.0 | 16.4 |
| 8 19 | 19 25.37 | − 9 34.5 | 1.999 | 2.876 | 12.1 | 16.5 |
| **72188** 2000 $YU_{120}$ | | | 7 17.5 77.°45 | | 3.°6/19.6 18 | |
| 6 10 | 20 12.58 | − 8 24.2 | 1.808 | 2.623 | 16.0 | 18.0 |
| 6 20 | 20 8.49 | − 8 49.2 | 1.738 | 2.635 | 12.8 | 17.9 |
| 6 30 | 20 2.23 | − 9 30.8 | 1.689 | 2.647 | 9.2 | 17.7 |
| 7 10 | 19 54.39 | −10 27.5 | 1.664 | 2.660 | 5.6 | 17.5 |
| 7 20 | 19 45.82 | −11 35.6 | 1.664 | 2.672 | 3.6 | 17.4 |
| 7 30 | 19 37.51 | −12 50.5 | 1.692 | 2.684 | 5.8 | 17.5 |
| 8 9 | 19 30.42 | −14 6.6 | 1.746 | 2.696 | 9.3 | 17.8 |
| 8 19 | 19 25.27 | −15 19.5 | 1.824 | 2.708 | 12.7 | 18.0 |
| **23762** 1998 $KF_{64}$ | | | 7 17.5 357.°13 | | 4.°8/19.3 18 | |
| 6 10 | 20 9.80 | −10 26.3 | 1.198 | 2.054 | 20.0 | 18.6 |
| 6 20 | 20 7.47 | −10 12.9 | 1.130 | 2.051 | 16.2 | 18.3 |
| 6 30 | 20 2.15 | −10 18.2 | 1.078 | 2.049 | 11.7 | 18.0 |
| 7 10 | 19 54.55 | −10 42.7 | 1.047 | 2.047 | 7.1 | 17.8 |
| 7 20 | 19 45.77 | −11 24.1 | 1.038 | 2.047 | 4.8 | 17.6 |
| 7 30 | 19 37.26 | −12 17.6 | 1.052 | 2.047 | 7.8 | 17.8 |
| 8 9 | 19 30.44 | −13 17.0 | 1.087 | 2.049 | 12.4 | 18.1 |
| 8 19 | 19 26.33 | −14 16.4 | 1.143 | 2.051 | 16.8 | 18.3 |
| **20639** Michellouie | | | 7 17.5 186.°41 | | 0.°4/17.3 18 | |
| 6 10 | 20 17.55 | −22 27.2 | 2.091 | 2.923 | 13.5 | 18.6 |
| 6 20 | 20 12.17 | −22 23.1 | 2.008 | 2.923 | 10.5 | 18.4 |
| 6 30 | 20 4.59 | −22 21.5 | 1.948 | 2.923 | 6.9 | 18.2 |
| 7 10 | 19 55.42 | −22 20.1 | 1.913 | 2.922 | 3.0 | 17.9 |
| 7 20 | 19 45.50 | −22 16.7 | 1.905 | 2.921 | 1.2 | 17.8 |
| 7 30 | 19 35.85 | −22 9.8 | 1.926 | 2.919 | 5.1 | 18.1 |
| 8 9 | 19 27.43 | −21 58.8 | 1.974 | 2.917 | 8.9 | 18.3 |
| 8 19 | 19 20.98 | −21 44.2 | 2.046 | 2.915 | 12.2 | 18.5 |
| **294232** 2007 $UZ_{28}$ | | | 7 17.5 347.°96 | | 2.°2/16.9 17 | |
| 6 10 | 20 9.12 | −24 25.3 | 0.947 | 1.843 | 20.8 | 19.8 |
| 6 20 | 20 7.96 | −24 32.2 | 0.882 | 1.832 | 16.3 | 19.5 |
| 6 30 | 20 3.01 | −24 44.0 | 0.833 | 1.823 | 10.9 | 19.2 |
| 7 10 | 19 55.08 | −24 55.7 | 0.804 | 1.815 | 5.0 | 18.8 |
| 7 20 | 19 45.58 | −25 1.8 | 0.794 | 1.809 | 2.9 | 18.7 |
| 7 30 | 19 36.49 | −24 58.2 | 0.806 | 1.804 | 8.7 | 19.0 |
| 8 9 | 19 29.67 | −24 43.6 | 0.836 | 1.802 | 14.5 | 19.3 |
| 8 19 | 19 26.36 | −24 19.5 | 0.884 | 1.801 | 19.6 | 19.6 |
| **7260** Metelli | | | 7 17.5 140.°99 | | 1.°3/16.9 18 | |
| 6 10 | 20 13.64 | −23 4.3 | 2.075 | 2.916 | 13.3 | 17.8 |
| 6 20 | 20 9.25 | −23 30.7 | 1.996 | 2.916 | 10.3 | 17.6 |
| 6 30 | 20 2.72 | −24 1.0 | 1.940 | 2.917 | 6.8 | 17.4 |
| 7 10 | 19 54.63 | −24 31.9 | 1.908 | 2.917 | 3.0 | 17.1 |
| 7 20 | 19 45.77 | −24 59.9 | 1.904 | 2.918 | 1.8 | 17.0 |
| 7 30 | 19 37.13 | −25 22.0 | 1.928 | 2.918 | 5.4 | 17.3 |
| 8 9 | 19 29.64 | −25 36.6 | 1.977 | 2.919 | 9.0 | 17.5 |
| 8 19 | 19 24.05 | −25 43.5 | 2.050 | 2.919 | 12.2 | 17.7 |

**204525** 2005 $EW_{79}$ 7 17.5 141.°12 3.°0/16.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.13 | −27 3.4 | 1.991 | 2.835 | 13.6 | 19.8 |
| 6 20 | 20 10.59 | −27 48.7 | 1.916 | 2.837 | 10.6 | 19.6 |
| 6 30 | 20 3.70 | −28 35.8 | 1.864 | 2.839 | 7.1 | 19.4 |
| 7 10 | 19 55.08 | −29 20.1 | 1.836 | 2.841 | 3.9 | 19.2 |
| 7 20 | 19 45.62 | −29 56.8 | 1.836 | 2.843 | 3.5 | 19.2 |
| 7 30 | 19 36.40 | −30 22.4 | 1.862 | 2.844 | 6.4 | 19.4 |
| 8 9 | 19 28.46 | −30 35.7 | 1.914 | 2.846 | 9.8 | 19.6 |
| 8 19 | 19 22.59 | −30 37.2 | 1.990 | 2.847 | 13.0 | 19.8 |

**166502** 2002 $QO_{19}$ 7 17.5 306.°04 3.°0/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.05 | −27 12.4 | 1.871 | 2.719 | 14.2 | 19.8 |
| 6 20 | 20 10.69 | −27 45.2 | 1.792 | 2.715 | 11.0 | 19.6 |
| 6 30 | 20 3.86 | −28 19.5 | 1.735 | 2.712 | 7.5 | 19.4 |
| 7 10 | 19 55.18 | −28 50.7 | 1.703 | 2.708 | 4.0 | 19.2 |
| 7 20 | 19 45.59 | −29 14.4 | 1.696 | 2.705 | 3.4 | 19.1 |
| 7 30 | 19 36.23 | −29 27.3 | 1.717 | 2.701 | 6.6 | 19.3 |
| 8 9 | 19 28.23 | −29 28.4 | 1.762 | 2.698 | 10.3 | 19.5 |
| 8 19 | 19 22.43 | −29 18.8 | 1.830 | 2.695 | 13.6 | 19.7 |

**347445** 2012 $TU_{216}$ 7 17.5 224.°85 3.°5/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.13 | − 8 42.5 | 2.582 | 3.374 | 12.3 | 22.2 |
| 6 20 | 20 8.43 | − 8 40.2 | 2.480 | 3.362 | 10.0 | 22.1 |
| 6 30 | 20 2.01 | − 8 48.6 | 2.400 | 3.349 | 7.4 | 21.9 |
| 7 10 | 19 54.30 | − 9 7.3 | 2.346 | 3.336 | 4.8 | 21.7 |
| 7 20 | 19 45.89 | − 9 35.5 | 2.319 | 3.322 | 3.5 | 21.6 |
| 7 30 | 19 37.51 | −10 11.1 | 2.322 | 3.307 | 5.1 | 21.7 |
| 8 9 | 19 29.89 | −10 51.6 | 2.352 | 3.291 | 7.8 | 21.8 |
| 8 19 | 19 23.67 | −11 34.3 | 2.407 | 3.275 | 10.6 | 22.0 |

**15800** 1993 $XP$ 7 17.5 180.°26 3.°3/18.6 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.09 | −13 12.0 | 2.023 | 2.838 | 14.5 | 18.0 |
| 6 20 | 20 11.79 | −12 38.2 | 1.940 | 2.839 | 11.6 | 17.8 |
| 6 30 | 20 4.33 | −12 12.2 | 1.878 | 2.840 | 8.2 | 17.6 |
| 7 10 | 19 55.33 | −11 54.3 | 1.842 | 2.840 | 4.9 | 17.4 |
| 7 20 | 19 45.57 | −11 44.1 | 1.832 | 2.839 | 3.4 | 17.3 |
| 7 30 | 19 36.04 | −11 40.6 | 1.850 | 2.839 | 5.8 | 17.5 |
| 8 9 | 19 27.69 | −11 42.5 | 1.895 | 2.838 | 9.2 | 17.7 |
| 8 19 | 19 21.24 | −11 48.0 | 1.963 | 2.836 | 12.5 | 17.9 |

**126940** 2002 $FJ$ 7 17.5 141.°34 1.°8/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.35 | −24 43.9 | 2.094 | 2.930 | 13.4 | 20.6 |
| 6 20 | 20 12.02 | −25 9.3 | 2.021 | 2.938 | 10.3 | 20.4 |
| 6 30 | 20 4.48 | −25 37.0 | 1.972 | 2.947 | 6.8 | 20.2 |
| 7 10 | 19 55.38 | −26 3.2 | 1.947 | 2.955 | 3.2 | 20.0 |
| 7 20 | 19 45.56 | −26 24.4 | 1.951 | 2.963 | 2.2 | 20.0 |
| 7 30 | 19 36.04 | −26 38.2 | 1.982 | 2.970 | 5.5 | 20.2 |
| 8 9 | 19 27.80 | −26 43.4 | 2.040 | 2.976 | 9.0 | 20.4 |
| 8 19 | 19 21.54 | −26 40.7 | 2.121 | 2.983 | 12.1 | 20.6 |

**143155** 2002 $XS_{50}$ 7 17.5 241.°62 0.°7/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.07 | −18 11.0 | 2.134 | 2.966 | 13.3 | 20.8 |
| 6 20 | 20 8.73 | −18 19.3 | 2.047 | 2.961 | 10.4 | 20.6 |
| 6 30 | 20 2.35 | −18 34.2 | 1.983 | 2.957 | 6.9 | 20.4 |
| 7 10 | 19 54.48 | −18 53.7 | 1.944 | 2.952 | 3.2 | 20.1 |
| 7 20 | 19 45.85 | −19 15.3 | 1.932 | 2.948 | 1.1 | 19.9 |
| 7 30 | 19 37.37 | −19 36.7 | 1.948 | 2.943 | 4.9 | 20.2 |
| 8 9 | 19 29.94 | −19 55.7 | 1.991 | 2.938 | 8.6 | 20.4 |
| 8 19 | 19 24.28 | −20 11.1 | 2.057 | 2.933 | 11.8 | 20.6 |

**336199** 2008 $SG_{3}$ 7 17.5 320.°22 5.°8/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.08 | − 4 53.6 | 1.696 | 2.506 | 17.1 | 20.6 |
| 6 20 | 20 7.63 | − 4 48.9 | 1.614 | 2.502 | 14.1 | 20.4 |
| 6 30 | 20 1.86 | − 5 3.3 | 1.551 | 2.498 | 10.8 | 20.2 |
| 7 10 | 19 54.33 | − 5 37.6 | 1.510 | 2.494 | 7.6 | 20.0 |
| 7 20 | 19 45.88 | − 6 30.3 | 1.494 | 2.490 | 5.9 | 19.9 |
| 7 30 | 19 37.56 | − 7 37.9 | 1.502 | 2.487 | 7.3 | 20.0 |
| 8 9 | 19 30.42 | − 8 54.5 | 1.536 | 2.484 | 10.6 | 20.2 |
| 8 19 | 19 25.31 | −10 14.3 | 1.592 | 2.481 | 14.0 | 20.4 |

**279313** 2009 $WP_{260}$ 7 17.5 238.°02 0.°2/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.11 | −18 58.3 | 1.858 | 2.698 | 14.6 | 21.2 |
| 6 20 | 20 9.92 | −19 32.9 | 1.774 | 2.693 | 11.4 | 21.0 |
| 6 30 | 20 3.36 | −20 16.3 | 1.711 | 2.687 | 7.6 | 20.8 |
| 7 10 | 19 54.99 | −21 5.3 | 1.673 | 2.682 | 3.3 | 20.5 |
| 7 20 | 19 45.67 | −21 55.3 | 1.661 | 2.676 | 1.2 | 20.3 |
| 7 30 | 19 36.46 | −22 42.0 | 1.677 | 2.671 | 5.6 | 20.6 |
| 8 9 | 19 28.46 | −23 22.2 | 1.718 | 2.665 | 9.7 | 20.8 |
| 8 19 | 19 22.52 | −23 54.3 | 1.783 | 2.659 | 13.4 | 21.1 |

**523070** 2016 $QT_{92}$ 7 17.5 277.°25 0.°3/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.12 | −19 47.2 | 1.959 | 2.798 | 14.1 | 21.7 |
| 6 20 | 20 9.85 | −19 51.1 | 1.865 | 2.783 | 11.0 | 21.5 |
| 6 30 | 20 3.28 | −20 0.7 | 1.793 | 2.769 | 7.3 | 21.2 |
| 7 10 | 19 54.97 | −20 13.9 | 1.745 | 2.754 | 3.3 | 20.9 |
| 7 20 | 19 45.70 | −20 28.1 | 1.724 | 2.739 | 1.1 | 20.7 |
| 7 30 | 19 36.53 | −20 40.8 | 1.730 | 2.725 | 5.4 | 21.0 |
| 8 9 | 19 28.49 | −20 50.2 | 1.762 | 2.710 | 9.4 | 21.2 |
| 8 19 | 19 22.41 | −20 55.6 | 1.817 | 2.695 | 13.1 | 21.4 |

**342701** 2008 $VH_{75}$ 7 17.5 323.°52 6.°0/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.88 | −28 41.8 | 1.499 | 2.365 | 16.2 | 19.5 |
| 6 20 | 20 10.00 | −30 30.0 | 1.421 | 2.352 | 12.8 | 19.3 |
| 6 30 | 20 4.02 | −32 25.4 | 1.363 | 2.339 | 9.1 | 19.0 |
| 7 10 | 19 55.51 | −34 18.5 | 1.330 | 2.327 | 6.3 | 18.8 |
| 7 20 | 19 45.48 | −35 58.9 | 1.321 | 2.316 | 6.8 | 18.8 |
| 7 30 | 19 35.41 | −37 17.7 | 1.337 | 2.305 | 10.0 | 19.0 |
| 8 9 | 19 26.89 | −38 11.1 | 1.376 | 2.295 | 13.8 | 19.2 |
| 8 19 | 19 21.15 | −38 39.5 | 1.435 | 2.285 | 17.4 | 19.4 |

**498704** 2008 $TR_{43}$ 7 17.5 298.°55 1.°6/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.90 | −17 29.5 | 1.217 | 2.080 | 19.3 | 22.0 |
| 6 20 | 20 11.72 | −17 22.6 | 1.137 | 2.067 | 15.3 | 21.7 |
| 6 30 | 20 5.21 | −17 26.7 | 1.074 | 2.054 | 10.5 | 21.4 |
| 7 10 | 19 56.02 | −17 39.9 | 1.033 | 2.041 | 5.0 | 21.0 |
| 7 20 | 19 45.32 | −17 59.2 | 1.014 | 2.029 | 2.0 | 20.8 |
| 7 30 | 19 34.74 | −18 20.5 | 1.019 | 2.017 | 7.4 | 21.1 |
| 8 9 | 19 25.94 | −18 40.5 | 1.045 | 2.005 | 13.0 | 21.4 |
| 8 19 | 19 20.15 | −18 57.0 | 1.092 | 1.993 | 18.0 | 21.6 |

**374227** 2005 $GM_{8}$ 7 17.5 107.°39 8.°3/22.7 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.66 | + 6 59.0 | 2.648 | 3.351 | 14.1 | 21.9 |
| 6 20 | 20 9.99 | + 7 54.4 | 2.588 | 3.380 | 12.4 | 21.8 |
| 6 30 | 20 2.78 | + 8 32.7 | 2.549 | 3.408 | 10.6 | 21.8 |
| 7 10 | 19 54.55 | + 8 51.9 | 2.533 | 3.435 | 9.1 | 21.7 |
| 7 20 | 19 45.90 | + 8 51.1 | 2.541 | 3.461 | 8.4 | 21.7 |
| 7 30 | 19 37.53 | + 8 31.1 | 2.576 | 3.487 | 8.6 | 21.8 |
| 8 9 | 19 30.09 | + 7 55.0 | 2.636 | 3.512 | 9.6 | 21.9 |
| 8 19 | 19 24.08 | + 7 6.6 | 2.720 | 3.536 | 11.1 | 22.0 |

**414399** 2009 $BF_{29}$ 7 17.5 184.°06 0.°4/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.99 | −19 34.5 | 1.584 | 2.428 | 16.6 | 21.6 |
| 6 20 | 20 13.28 | −20 7.2 | 1.508 | 2.429 | 12.9 | 21.4 |
| 6 30 | 20 5.76 | −20 49.3 | 1.451 | 2.429 | 8.5 | 21.1 |
| 7 10 | 19 56.10 | −21 36.4 | 1.419 | 2.428 | 3.7 | 20.8 |
| 7 20 | 19 45.33 | −22 23.6 | 1.412 | 2.427 | 1.4 | 20.7 |
| 7 30 | 19 34.79 | −23 5.8 | 1.432 | 2.426 | 6.4 | 21.0 |
| 8 9 | 19 25.79 | −23 39.8 | 1.477 | 2.424 | 11.0 | 21.3 |
| 8 19 | 19 19.29 | −24 4.6 | 1.544 | 2.422 | 15.0 | 21.5 |

**72154** 2000 $YY_{97}$ 7 17.5 224.°43 0.°1/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.02 | −20 5.7 | 1.814 | 2.650 | 15.1 | 20.2 |
| 6 20 | 20 13.05 | −20 20.5 | 1.724 | 2.641 | 11.8 | 20.0 |
| 6 30 | 20 5.50 | −20 42.0 | 1.656 | 2.632 | 7.9 | 19.8 |
| 7 10 | 19 55.97 | −21 7.2 | 1.612 | 2.621 | 3.5 | 19.5 |
| 7 20 | 19 45.37 | −21 32.5 | 1.595 | 2.611 | 1.2 | 19.3 |
| 7 30 | 19 34.88 | −21 54.6 | 1.606 | 2.599 | 5.8 | 19.6 |
| 8 9 | 19 25.70 | −22 11.3 | 1.642 | 2.587 | 10.2 | 19.8 |
| 8 19 | 19 18.75 | −22 21.9 | 1.701 | 2.575 | 14.0 | 20.0 |

**371520** 2006 $UY_{169}$ 7 17.5 201.°16 2.°1/16.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.05 | −24 13.0 | 1.947 | 2.785 | 14.1 | 21.7 |
| 6 20 | 20 12.93 | −24 52.5 | 1.863 | 2.782 | 11.0 | 21.5 |
| 6 30 | 20 5.34 | −25 36.4 | 1.802 | 2.778 | 7.3 | 21.2 |
| 7 10 | 19 55.87 | −26 20.1 | 1.765 | 2.773 | 3.5 | 21.0 |
| 7 20 | 19 45.42 | −26 58.8 | 1.756 | 2.768 | 2.5 | 20.9 |
| 7 30 | 19 35.12 | −27 28.7 | 1.775 | 2.762 | 6.1 | 21.1 |
| 8 9 | 19 26.11 | −27 48.0 | 1.820 | 2.756 | 10.0 | 21.3 |
| 8 19 | 19 19.26 | −27 56.6 | 1.887 | 2.749 | 13.4 | 21.6 |

**182214** 2000 $WB_{127}$ 7 17.5 331.°51 1.°2/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.92 | −21 52.2 | 1.677 | 2.535 | 15.1 | 19.7 |
| 6 20 | 20 7.04 | −22 20.1 | 1.589 | 2.519 | 11.8 | 19.4 |
| 6 30 | 20 1.66 | −22 54.9 | 1.522 | 2.503 | 7.8 | 19.2 |
| 7 10 | 19 54.33 | −23 33.2 | 1.478 | 2.488 | 3.5 | 18.9 |
| 7 20 | 19 45.92 | −24 10.4 | 1.459 | 2.473 | 1.8 | 18.7 |
| 7 30 | 19 37.60 | −24 42.4 | 1.466 | 2.460 | 6.2 | 19.0 |
| 8 9 | 19 30.54 | −25 6.4 | 1.497 | 2.447 | 10.6 | 19.2 |
| 8 19 | 19 25.68 | −25 21.2 | 1.550 | 2.435 | 14.5 | 19.4 |

**25561** Leehyunki 7 17.5 249.°26 2.°5/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.05 | −25 47.0 | 2.013 | 2.856 | 13.5 | 19.3 |
| 6 20 | 20 10.58 | −26 25.2 | 1.928 | 2.849 | 10.5 | 19.1 |
| 6 30 | 20 3.77 | −27 6.4 | 1.865 | 2.841 | 7.1 | 18.8 |
| 7 10 | 19 55.18 | −27 46.3 | 1.826 | 2.833 | 3.6 | 18.6 |
| 7 20 | 19 45.65 | −28 20.4 | 1.815 | 2.825 | 2.9 | 18.6 |
| 7 30 | 19 36.27 | −28 45.1 | 1.831 | 2.817 | 6.2 | 18.7 |
| 8 9 | 19 28.08 | −28 58.9 | 1.873 | 2.808 | 9.8 | 18.9 |
| 8 19 | 19 21.93 | −29 2.0 | 1.938 | 2.800 | 13.1 | 19.1 |

**119824** 2002 $BO_{3}$ 7 17.5 41.°41 6.°2/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.35 | −36 22.5 | 1.986 | 2.828 | 13.8 | 19.4 |
| 6 20 | 20 11.71 | −37 19.3 | 1.924 | 2.835 | 11.1 | 19.3 |
| 6 30 | 20 4.51 | −38 10.9 | 1.884 | 2.843 | 8.4 | 19.1 |
| 7 10 | 19 55.47 | −38 50.8 | 1.868 | 2.851 | 6.5 | 19.0 |
| 7 20 | 19 45.60 | −39 14.2 | 1.878 | 2.859 | 6.6 | 19.0 |
| 7 30 | 19 36.13 | −39 18.4 | 1.913 | 2.867 | 8.5 | 19.2 |
| 8 9 | 19 28.17 | −39 4.2 | 1.973 | 2.876 | 11.1 | 19.4 |
| 8 19 | 19 22.53 | −38 34.4 | 2.054 | 2.885 | 13.6 | 19.5 |

**423484** 2005 $TK_{16}$ 7 17.5 323°.88 2°.0/18.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 7.69 | −13 39.4 | 2.793 | 3.610 | 10.9 | 21.7 |
| 6 20 | 20 4.14 | −13 36.7 | 2.698 | 3.600 | 8.6 | 21.5 |
| 6 30 | 19 59.12 | −13 41.0 | 2.625 | 3.590 | 6.0 | 21.3 |
| 7 10 | 19 53.04 | −13 51.7 | 2.579 | 3.580 | 3.3 | 21.2 |
| 7 20 | 19 46.42 | −14 7.6 | 2.560 | 3.570 | 2.0 | 21.0 |
| 7 30 | 19 39.88 | −14 27.2 | 2.569 | 3.561 | 4.1 | 21.2 |
| 8 9 | 19 34.04 | −14 48.7 | 2.605 | 3.552 | 6.8 | 21.3 |
| 8 19 | 19 29.43 | −15 10.5 | 2.667 | 3.543 | 9.4 | 21.5 |

**36327** 2000 $LV_{33}$ 7 17.5 348°.01 0°.4/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 19 59.96 | −15 37.2 | 0.838 | 1.744 | 21.9 | 16.9 |
| 6 20 | 20 0.99 | −16 24.7 | 0.773 | 1.728 | 17.3 | 16.5 |
| 6 30 | 19 58.54 | −17 37.2 | 0.723 | 1.714 | 11.7 | 16.2 |
| 7 10 | 19 53.25 | −19 10.7 | 0.691 | 1.703 | 5.3 | 15.8 |
| 7 20 | 19 46.30 | −20 56.1 | 0.679 | 1.694 | 1.7 | 15.5 |
| 7 30 | 19 39.50 | −22 41.0 | 0.685 | 1.688 | 8.5 | 15.9 |
| 8 9 | 19 34.77 | −24 13.7 | 0.710 | 1.684 | 14.8 | 16.2 |
| 8 19 | 19 33.46 | −25 27.0 | 0.752 | 1.682 | 20.4 | 16.5 |

**172658** 2003 $YV_{83}$ 7 17.5 272°.12 1°.4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.39 | −23 17.2 | 1.932 | 2.776 | 14.0 | 20.3 |
| 6 20 | 20 10.12 | −23 42.0 | 1.845 | 2.767 | 10.9 | 20.1 |
| 6 30 | 20 3.49 | −24 11.2 | 1.780 | 2.758 | 7.2 | 19.9 |
| 7 10 | 19 55.08 | −24 41.2 | 1.740 | 2.749 | 3.3 | 19.6 |
| 7 20 | 19 45.73 | −25 8.1 | 1.726 | 2.740 | 2.0 | 19.5 |
| 7 30 | 19 36.52 | −25 28.8 | 1.740 | 2.731 | 5.8 | 19.7 |
| 8 9 | 19 28.52 | −25 41.3 | 1.779 | 2.722 | 9.7 | 20.0 |
| 8 19 | 19 22.57 | −25 45.5 | 1.841 | 2.712 | 13.2 | 20.2 |

**123461** 2000 $WT_{142}$ 7 17.5 205°.08 2°.6/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.52 | −11 16.3 | 2.117 | 2.930 | 14.0 | 20.5 |
| 6 20 | 20 9.10 | −11 37.3 | 2.028 | 2.926 | 11.2 | 20.3 |
| 6 30 | 20 2.65 | −12 10.9 | 1.961 | 2.923 | 7.9 | 20.0 |
| 7 10 | 19 54.67 | −12 55.8 | 1.918 | 2.918 | 4.4 | 19.8 |
| 7 20 | 19 45.88 | −13 49.1 | 1.903 | 2.913 | 2.6 | 19.7 |
| 7 30 | 19 37.18 | −14 47.2 | 1.916 | 2.908 | 5.2 | 19.9 |
| 8 9 | 19 29.47 | −15 46.2 | 1.955 | 2.903 | 8.7 | 20.1 |
| 8 19 | 19 23.49 | −16 42.7 | 2.020 | 2.897 | 12.0 | 20.3 |

**192795** 1999 $UX_{55}$ 7 17.5 348°.27 0°.8/17.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.86 | −21 6.6 | 1.476 | 2.338 | 16.6 | 20.3 |
| 6 20 | 20 8.74 | −21 30.3 | 1.401 | 2.333 | 12.9 | 20.0 |
| 6 30 | 20 2.85 | −22 1.9 | 1.346 | 2.328 | 8.6 | 19.8 |
| 7 10 | 19 54.87 | −22 37.3 | 1.314 | 2.324 | 3.8 | 19.5 |
| 7 20 | 19 45.81 | −23 12.0 | 1.306 | 2.321 | 1.7 | 19.3 |
| 7 30 | 19 36.99 | −23 41.6 | 1.323 | 2.319 | 6.5 | 19.6 |
| 8 9 | 19 29.70 | −24 3.3 | 1.364 | 2.317 | 11.2 | 19.9 |
| 8 19 | 19 24.89 | −24 16.2 | 1.426 | 2.316 | 15.2 | 20.1 |

**240684** 2005 $EZ_{149}$ 7 17.5 7°.74 1°.7/16.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.98 | −22 56.7 | 1.763 | 2.614 | 14.8 | 20.5 |
| 6 20 | 20 9.16 | −23 34.4 | 1.688 | 2.614 | 11.4 | 20.3 |
| 6 30 | 20 2.89 | −24 17.8 | 1.636 | 2.615 | 7.6 | 20.1 |
| 7 10 | 19 54.82 | −25 2.4 | 1.607 | 2.616 | 3.5 | 19.9 |
| 7 20 | 19 45.84 | −25 43.6 | 1.604 | 2.617 | 2.2 | 19.8 |
| 7 30 | 19 37.09 | −26 17.2 | 1.628 | 2.619 | 6.1 | 20.0 |
| 8 9 | 19 29.69 | −26 41.1 | 1.676 | 2.621 | 10.1 | 20.3 |
| 8 19 | 19 24.46 | −26 54.7 | 1.748 | 2.623 | 13.6 | 20.5 |

**244810** 2003 $SG_{309}$ 7 17.5 285°.63 2°.2/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.07 | −26 1.5 | 1.823 | 2.670 | 14.6 | 20.6 |
| 6 20 | 20 11.55 | −26 18.5 | 1.741 | 2.664 | 11.3 | 20.3 |
| 6 30 | 20 4.48 | −26 37.0 | 1.680 | 2.657 | 7.6 | 20.1 |
| 7 10 | 19 55.52 | −26 53.2 | 1.644 | 2.651 | 3.7 | 19.8 |
| 7 20 | 19 45.61 | −27 3.2 | 1.633 | 2.645 | 2.7 | 19.8 |
| 7 30 | 19 35.94 | −27 4.4 | 1.650 | 2.639 | 6.3 | 20.0 |
| 8 9 | 19 27.66 | −26 56.2 | 1.692 | 2.633 | 10.2 | 20.2 |
| 8 19 | 19 21.62 | −26 39.4 | 1.756 | 2.627 | 13.8 | 20.4 |

**357900** 2005 $VV_{31}$ 7 17.5 141°.48 0°.5/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.46 | −21 16.1 | 2.661 | 3.488 | 11.1 | 21.6 |
| 6 20 | 20 7.82 | −21 35.9 | 2.582 | 3.495 | 8.5 | 21.5 |
| 6 30 | 20 1.54 | −21 59.4 | 2.527 | 3.501 | 5.6 | 21.3 |
| 7 10 | 19 54.09 | −22 24.2 | 2.499 | 3.507 | 2.4 | 21.1 |
| 7 20 | 19 46.11 | −22 48.0 | 2.499 | 3.513 | 1.0 | 21.0 |
| 7 30 | 19 38.30 | −23 8.7 | 2.527 | 3.519 | 4.2 | 21.2 |
| 8 9 | 19 31.39 | −23 24.9 | 2.584 | 3.525 | 7.2 | 21.4 |
| 8 19 | 19 25.91 | −23 36.1 | 2.665 | 3.530 | 9.8 | 21.6 |

**355225** 2007 $BK_{15}$ 7 17.5 55°.19 1°.1/17.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.57 | −23 40.9 | 2.196 | 3.035 | 12.7 | 20.8 |
| 6 20 | 20 9.04 | −23 51.9 | 2.120 | 3.039 | 9.8 | 20.6 |
| 6 30 | 20 2.50 | −24 5.3 | 2.066 | 3.043 | 6.5 | 20.4 |
| 7 10 | 19 54.55 | −24 18.4 | 2.038 | 3.047 | 2.9 | 20.2 |
| 7 20 | 19 45.95 | −24 28.6 | 2.037 | 3.051 | 1.6 | 20.1 |
| 7 30 | 19 37.61 | −24 33.8 | 2.064 | 3.055 | 5.0 | 20.3 |
| 8 9 | 19 30.39 | −24 33.2 | 2.117 | 3.059 | 8.4 | 20.5 |
| 8 19 | 19 24.96 | −24 27.0 | 2.194 | 3.064 | 11.5 | 20.7 |

**511899** 2015 $HK_{28}$ 7 17.5 160°.68 7°.9/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 21.50 | −39 51.2 | 2.000 | 2.829 | 14.1 | 21.8 |
| 6 20 | 20 16.01 | −41 15.8 | 1.936 | 2.833 | 11.7 | 21.6 |
| 6 30 | 20 7.58 | −42 33.7 | 1.893 | 2.837 | 9.4 | 21.5 |
| 7 10 | 19 56.92 | −43 36.9 | 1.876 | 2.840 | 8.0 | 21.4 |
| 7 20 | 19 45.15 | −44 18.7 | 1.883 | 2.843 | 8.3 | 21.4 |
| 7 30 | 19 33.68 | −44 35.5 | 1.916 | 2.845 | 10.1 | 21.5 |
| 8 9 | 19 23.87 | −44 28.3 | 1.973 | 2.847 | 12.4 | 21.7 |
| 8 19 | 19 16.71 | −44 0.9 | 2.050 | 2.849 | 14.8 | 21.9 |

**355675** 2008 $EY_{153}$ 7 17.5 20°.28 3°.0/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.09 | −28 12.8 | 1.969 | 2.816 | 13.6 | 20.5 |
| 6 20 | 20 9.78 | −28 40.0 | 1.896 | 2.819 | 10.6 | 20.3 |
| 6 30 | 20 3.16 | −29 7.3 | 1.846 | 2.822 | 7.2 | 20.1 |
| 7 10 | 19 54.89 | −29 30.4 | 1.821 | 2.826 | 4.0 | 19.9 |
| 7 20 | 19 45.86 | −29 45.5 | 1.822 | 2.829 | 3.4 | 19.9 |
| 7 30 | 19 37.13 | −29 50.2 | 1.850 | 2.833 | 6.3 | 20.1 |
| 8 9 | 19 29.72 | −29 44.0 | 1.903 | 2.838 | 9.7 | 20.3 |
| 8 19 | 19 24.38 | −29 28.1 | 1.978 | 2.842 | 12.8 | 20.5 |

**443045** 2013 $EJ_{104}$ 7 17.5 71°.21 4°.9/15.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.41 | −34 27.7 | 2.326 | 3.162 | 12.2 | 20.8 |
| 6 20 | 20 10.62 | −35 13.3 | 2.253 | 3.163 | 9.7 | 20.6 |
| 6 30 | 20 3.64 | −35 55.4 | 2.203 | 3.165 | 7.1 | 20.4 |
| 7 10 | 19 55.09 | −36 29.1 | 2.178 | 3.166 | 5.2 | 20.3 |
| 7 20 | 19 45.79 | −36 50.2 | 2.180 | 3.168 | 5.2 | 20.3 |
| 7 30 | 19 36.75 | −36 56.4 | 2.209 | 3.169 | 7.1 | 20.4 |
| 8 9 | 19 28.93 | −36 47.7 | 2.263 | 3.171 | 9.7 | 20.6 |
| 8 19 | 19 23.06 | −36 26.0 | 2.340 | 3.173 | 12.1 | 20.8 |

**58798** 1998 $FU_{100}$ 7 17.5 66°.62 4°.0/19.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.40 | −10 2.5 | 2.117 | 2.928 | 14.1 | 18.7 |
| 6 20 | 20 8.08 | − 9 34.3 | 2.040 | 2.933 | 11.4 | 18.5 |
| 6 30 | 20 1.85 | − 9 16.4 | 1.984 | 2.938 | 8.3 | 18.3 |
| 7 10 | 19 54.28 | − 9 9.3 | 1.953 | 2.944 | 5.4 | 18.1 |
| 7 20 | 19 46.07 | − 9 12.5 | 1.948 | 2.950 | 4.0 | 18.1 |
| 7 30 | 19 38.10 | − 9 24.5 | 1.970 | 2.955 | 5.8 | 18.2 |
| 8 9 | 19 31.17 | − 9 43.1 | 2.018 | 2.961 | 8.7 | 18.4 |
| 8 19 | 19 25.92 | −10 5.9 | 2.090 | 2.967 | 11.6 | 18.6 |

**490118** 2008 $UJ_{75}$ 7 17.5 274°.95 1°.4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.19 | −23 26.7 | 1.855 | 2.700 | 14.4 | 22.0 |
| 6 20 | 20 10.88 | −23 45.6 | 1.766 | 2.688 | 11.2 | 21.8 |
| 6 30 | 20 4.09 | −24 8.6 | 1.698 | 2.676 | 7.5 | 21.5 |
| 7 10 | 19 55.40 | −24 32.2 | 1.655 | 2.664 | 3.4 | 21.3 |
| 7 20 | 19 45.70 | −24 52.6 | 1.638 | 2.652 | 2.0 | 21.1 |
| 7 30 | 19 36.12 | −25 6.6 | 1.648 | 2.639 | 6.0 | 21.4 |
| 8 9 | 19 27.80 | −25 12.7 | 1.683 | 2.627 | 10.1 | 21.6 |
| 8 19 | 19 21.64 | −25 10.9 | 1.741 | 2.615 | 13.7 | 21.8 |

**239011** 2006 $DC_{26}$ 7 17.5 231°.29 1°.8/18.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.91 | −14 42.9 | 1.932 | 2.760 | 14.6 | 21.1 |
| 6 20 | 20 9.64 | −14 54.9 | 1.844 | 2.754 | 11.5 | 20.8 |
| 6 30 | 20 3.14 | −15 17.4 | 1.778 | 2.748 | 7.9 | 20.6 |
| 7 10 | 19 54.96 | −15 48.7 | 1.737 | 2.742 | 4.0 | 20.4 |
| 7 20 | 19 45.88 | −16 25.9 | 1.721 | 2.735 | 1.9 | 20.2 |
| 7 30 | 19 36.92 | −17 5.7 | 1.734 | 2.728 | 5.4 | 20.4 |
| 8 9 | 19 29.07 | −17 44.9 | 1.772 | 2.721 | 9.3 | 20.6 |
| 8 19 | 19 23.15 | −18 21.0 | 1.834 | 2.714 | 12.9 | 20.8 |

**508780** 1999 $VU_{152}$ 7 17.5 263°.95 1°.5/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.44 | −22 51.1 | 1.938 | 2.781 | 14.0 | 22.6 |
| 6 20 | 20 10.22 | −23 25.8 | 1.849 | 2.770 | 10.9 | 22.3 |
| 6 30 | 20 3.62 | −24 5.9 | 1.782 | 2.759 | 7.2 | 22.1 |
| 7 10 | 19 55.21 | −24 47.7 | 1.739 | 2.748 | 3.3 | 21.8 |
| 7 20 | 19 45.80 | −25 26.8 | 1.724 | 2.737 | 2.1 | 21.7 |
| 7 30 | 19 36.48 | −25 59.2 | 1.735 | 2.726 | 5.9 | 21.9 |
| 8 9 | 19 28.34 | −26 22.8 | 1.773 | 2.714 | 9.8 | 22.2 |
| 8 19 | 19 22.24 | −26 36.8 | 1.833 | 2.703 | 13.3 | 22.3 |

**361944** 2008 $HL_{53}$ 7 17.5 93°.85 0°.5/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.10 | −16 53.2 | 2.329 | 3.157 | 12.4 | 21.0 |
| 6 20 | 20 7.06 | −17 26.0 | 2.247 | 3.159 | 9.7 | 20.8 |
| 6 30 | 20 1.22 | −18 6.9 | 2.188 | 3.161 | 6.4 | 20.6 |
| 7 10 | 19 54.05 | −18 53.5 | 2.155 | 3.163 | 2.9 | 20.4 |
| 7 20 | 19 46.21 | −19 42.5 | 2.150 | 3.165 | 0.9 | 20.2 |
| 7 30 | 19 38.51 | −20 30.6 | 2.172 | 3.167 | 4.5 | 20.5 |
| 8 9 | 19 31.74 | −21 15.1 | 2.222 | 3.169 | 7.9 | 20.7 |
| 8 19 | 19 26.53 | −21 53.9 | 2.297 | 3.171 | 10.9 | 20.9 |

**97944** 2000 $QM_{119}$ 7 17.5 322°.36 3°.1/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.95 | −28 10.7 | 1.480 | 2.340 | 16.7 | 18.8 |
| 6 20 | 20 12.89 | −28 14.6 | 1.399 | 2.328 | 13.1 | 18.5 |
| 6 30 | 20 5.73 | −28 17.4 | 1.338 | 2.317 | 8.9 | 18.3 |
| 7 10 | 19 56.20 | −28 14.5 | 1.299 | 2.306 | 4.6 | 18.0 |
| 7 20 | 19 45.48 | −28 1.8 | 1.285 | 2.295 | 3.5 | 17.9 |
| 7 30 | 19 35.06 | −27 37.1 | 1.295 | 2.285 | 7.5 | 18.1 |
| 8 9 | 19 26.39 | −27 1.3 | 1.330 | 2.276 | 12.0 | 18.3 |
| 8 19 | 19 20.51 | −26 17.1 | 1.385 | 2.267 | 16.1 | 18.6 |

**227358** 2005 $UZ_{127}$ 7 17.5 94°.46 7°.7/20.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.87 | − 1 39.2 | 1.848 | 2.628 | 17.0 | 21.0 |
| 6 20 | 20 10.86 | − 0 47.8 | 1.787 | 2.647 | 14.3 | 20.9 |
| 6 30 | 20 3.72 | − 0 14.0 | 1.744 | 2.666 | 11.4 | 20.7 |
| 7 10 | 19 55.12 | + 0 0.1 | 1.725 | 2.685 | 8.9 | 20.6 |
| 7 20 | 19 45.90 | − 0 6.0 | 1.730 | 2.704 | 7.7 | 20.6 |
| 7 30 | 19 37.04 | − 0 30.5 | 1.760 | 2.722 | 8.5 | 20.7 |
| 8 9 | 19 29.46 | − 1 9.8 | 1.816 | 2.740 | 10.7 | 20.9 |
| 8 19 | 19 23.82 | − 1 58.8 | 1.894 | 2.758 | 13.2 | 21.1 |

**80493** 2000 $AK_{47}$ 7 17.5 178°.04 0°.9/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.41 | −22 12.7 | 1.934 | 2.769 | 14.3 | 20.4 |
| 6 20 | 20 13.11 | −22 31.9 | 1.854 | 2.771 | 11.1 | 20.1 |
| 6 30 | 20 5.41 | −22 55.6 | 1.796 | 2.772 | 7.4 | 19.9 |
| 7 10 | 19 55.95 | −23 20.3 | 1.764 | 2.773 | 3.2 | 19.7 |
| 7 20 | 19 45.61 | −23 42.5 | 1.758 | 2.773 | 1.5 | 19.5 |
| 7 30 | 19 35.52 | −23 59.2 | 1.781 | 2.772 | 5.6 | 19.8 |
| 8 9 | 19 26.75 | −24 9.0 | 1.829 | 2.771 | 9.5 | 20.1 |
| 8 19 | 19 20.11 | −24 11.8 | 1.901 | 2.770 | 13.0 | 20.3 |

**510433** 2011 $UZ_{369}$ 7 17.5 197°.08 1°.3/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.22 | −24 11.7 | 2.595 | 3.424 | 11.3 | 22.5 |
| 6 20 | 20 9.33 | −24 30.7 | 2.508 | 3.422 | 8.7 | 22.4 |
| 6 30 | 20 2.64 | −24 51.8 | 2.445 | 3.419 | 5.8 | 22.2 |
| 7 10 | 19 54.66 | −25 12.3 | 2.408 | 3.416 | 2.7 | 22.0 |
| 7 20 | 19 46.04 | −25 29.5 | 2.400 | 3.413 | 1.7 | 21.9 |
| 7 30 | 19 37.58 | −25 41.5 | 2.421 | 3.409 | 4.6 | 22.1 |
| 8 9 | 19 30.05 | −25 47.2 | 2.469 | 3.405 | 7.7 | 22.3 |
| 8 19 | 19 24.06 | −25 46.6 | 2.541 | 3.401 | 10.4 | 22.4 |

**382857** 2004 $FY_{28}$ 7 17.5 169°.17 20°.2/ 7.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 39.33 | −56 13.1 | 1.150 | 1.964 | 23.3 | 20.6 |
| 6 20 | 20 35.02 | −59 7.8 | 1.114 | 1.966 | 21.6 | 20.5 |
| 6 30 | 20 23.28 | −61 38.2 | 1.095 | 1.967 | 20.5 | 20.4 |
| 7 10 | 20 4.80 | −63 23.7 | 1.091 | 1.969 | 20.2 | 20.4 |
| 7 20 | 19 42.59 | −64 8.3 | 1.104 | 1.969 | 20.8 | 20.4 |
| 7 30 | 19 21.62 | −63 47.7 | 1.133 | 1.970 | 22.2 | 20.5 |
| 8 9 | 19 6.27 | −62 32.1 | 1.176 | 1.970 | 23.9 | 20.6 |
| 8 19 | 18 58.38 | −60 37.7 | 1.231 | 1.970 | 25.7 | 20.8 |

**249807** 2001 $BP_{58}$ 7 17.5 185°.82 3°.5/16.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.87 | −34 28.5 | 2.849 | 3.664 | 10.7 | 20.5 |
| 6 20 | 20 14.24 | −34 31.0 | 2.764 | 3.664 | 8.5 | 20.3 |
| 6 30 | 20 5.74 | −34 28.3 | 2.703 | 3.663 | 6.1 | 20.2 |
| 7 10 | 19 55.96 | −34 17.3 | 2.670 | 3.662 | 4.0 | 20.0 |
| 7 20 | 19 45.64 | −33 55.7 | 2.665 | 3.661 | 3.7 | 20.0 |
| 7 30 | 19 35.66 | −33 23.0 | 2.690 | 3.659 | 5.5 | 20.1 |
| 8 9 | 19 26.82 | −32 40.2 | 2.744 | 3.657 | 7.9 | 20.3 |
| 8 19 | 19 19.72 | −31 49.7 | 2.822 | 3.655 | 10.3 | 20.4 |

**76946** 2001 $BQ_{18}$ 7 17.5 13°.36 1°.2/17.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.37 | −20 20.8 | 1.117 | 1.995 | 19.6 | 18.6 |
| 6 20 | 20 9.05 | −21 0.3 | 1.057 | 1.998 | 15.2 | 18.4 |
| 6 30 | 20 3.40 | −21 51.5 | 1.016 | 2.002 | 10.0 | 18.1 |
| 7 10 | 19 55.24 | −22 48.8 | 0.995 | 2.006 | 4.4 | 17.8 |
| 7 20 | 19 45.85 | −23 45.0 | 0.997 | 2.012 | 2.1 | 17.7 |
| 7 30 | 19 36.88 | −24 33.2 | 1.022 | 2.019 | 7.7 | 18.0 |
| 8 9 | 19 29.91 | −25 9.3 | 1.068 | 2.026 | 12.9 | 18.3 |
| 8 19 | 19 25.98 | −25 32.1 | 1.134 | 2.035 | 17.4 | 18.6 |

**41192** 1999 $VB_{206}$ 7 17.5 219°.01 2°.5/16.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.44 | −27 44.1 | 2.638 | 3.472 | 11.0 | 20.5 |
| 6 20 | 20 8.81 | −28 20.9 | 2.551 | 3.466 | 8.5 | 20.3 |
| 6 30 | 20 2.35 | −28 58.5 | 2.488 | 3.461 | 5.8 | 20.1 |
| 7 10 | 19 54.56 | −29 33.5 | 2.452 | 3.455 | 3.2 | 20.0 |
| 7 20 | 19 46.08 | −30 2.4 | 2.444 | 3.449 | 2.9 | 19.9 |
| 7 30 | 19 37.72 | −30 22.9 | 2.464 | 3.443 | 5.2 | 20.1 |
| 8 9 | 19 30.28 | −30 33.9 | 2.511 | 3.437 | 8.0 | 20.2 |
| 8 19 | 19 24.39 | −30 35.5 | 2.582 | 3.431 | 10.6 | 20.4 |

**149037** 2002 $AW_{176}$ 7 17.5 309°.17 2°.8/16.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.44 | −28 32.3 | 2.046 | 2.890 | 13.4 | 19.7 |
| 6 20 | 20 10.85 | −28 43.9 | 1.960 | 2.880 | 10.4 | 19.5 |
| 6 30 | 20 3.93 | −28 54.6 | 1.896 | 2.871 | 7.1 | 19.3 |
| 7 10 | 19 55.30 | −29 0.6 | 1.857 | 2.862 | 3.8 | 19.1 |
| 7 20 | 19 45.83 | −28 58.9 | 1.845 | 2.854 | 3.1 | 19.0 |
| 7 30 | 19 36.59 | −28 47.4 | 1.860 | 2.845 | 6.1 | 19.2 |
| 8 9 | 19 28.61 | −28 26.3 | 1.900 | 2.837 | 9.6 | 19.4 |
| 8 19 | 19 22.67 | −27 56.8 | 1.964 | 2.829 | 12.8 | 19.6 |

**83821** 2001 $UL_{5}$ 7 17.5 99°.57 4°.9/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.79 | −32 50.2 | 2.133 | 2.973 | 13.0 | 19.1 |
| 6 20 | 20 11.12 | −33 46.7 | 2.061 | 2.976 | 10.3 | 18.9 |
| 6 30 | 20 4.11 | −34 41.0 | 2.013 | 2.979 | 7.4 | 18.7 |
| 7 10 | 19 55.38 | −35 27.7 | 1.990 | 2.981 | 5.3 | 18.6 |
| 7 20 | 19 45.81 | −36 1.8 | 1.993 | 2.984 | 5.3 | 18.6 |
| 7 30 | 19 36.49 | −36 20.2 | 2.023 | 2.987 | 7.4 | 18.7 |
| 8 9 | 19 28.46 | −36 22.5 | 2.078 | 2.989 | 10.2 | 18.9 |
| 8 19 | 19 22.52 | −36 10.5 | 2.155 | 2.992 | 12.9 | 19.1 |

**474457** 2003 $SS_{57}$ 7 17.5 299°.28 5°.5/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.99 | −32 6.2 | 1.770 | 2.618 | 14.9 | 21.0 |
| 6 20 | 20 13.81 | −32 54.1 | 1.662 | 2.582 | 12.0 | 20.7 |
| 6 30 | 20 6.56 | −33 42.4 | 1.575 | 2.545 | 8.7 | 20.4 |
| 7 10 | 19 56.74 | −34 24.4 | 1.512 | 2.508 | 6.0 | 20.2 |
| 7 20 | 19 45.29 | −34 53.1 | 1.474 | 2.471 | 5.9 | 20.1 |
| 7 30 | 19 33.62 | −35 3.2 | 1.462 | 2.434 | 8.9 | 20.2 |
| 8 9 | 19 23.28 | −34 53.3 | 1.473 | 2.396 | 12.8 | 20.3 |
| 8 19 | 19 15.53 | −34 25.4 | 1.506 | 2.359 | 16.6 | 20.4 |

**346675** 2008 $YM_{34}$ 7 17.5 203°.44 0°.7/17.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.59 | −17 14.0 | 2.150 | 2.978 | 13.3 | 22.0 |
| 6 20 | 20 9.17 | −17 35.0 | 2.064 | 2.976 | 10.4 | 21.8 |
| 6 30 | 20 2.72 | −18 4.0 | 2.001 | 2.973 | 7.0 | 21.6 |
| 7 10 | 19 54.76 | −18 38.6 | 1.963 | 2.970 | 3.2 | 21.3 |
| 7 20 | 19 46.03 | −19 16.0 | 1.952 | 2.967 | 1.1 | 21.2 |
| 7 30 | 19 37.42 | −19 52.8 | 1.970 | 2.964 | 4.8 | 21.4 |
| 8 9 | 19 29.86 | −20 26.6 | 2.014 | 2.960 | 8.5 | 21.7 |
| 8 19 | 19 24.04 | −20 55.6 | 2.082 | 2.957 | 11.8 | 21.9 |

**507212** 2010 $VP_{31}$ 7 17.5 280°.92 0°.5/17.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.72 | −18 0.3 | 1.489 | 2.340 | 17.1 | 21.7 |
| 6 20 | 20 11.07 | −18 20.5 | 1.404 | 2.328 | 13.4 | 21.4 |
| 6 30 | 20 4.55 | −18 51.9 | 1.338 | 2.316 | 9.0 | 21.2 |
| 7 10 | 19 55.75 | −19 31.3 | 1.295 | 2.304 | 4.1 | 20.8 |
| 7 20 | 19 45.68 | −20 14.4 | 1.277 | 2.292 | 1.3 | 20.6 |
| 7 30 | 19 35.68 | −20 56.3 | 1.284 | 2.281 | 6.5 | 20.9 |
| 8 9 | 19 27.14 | −21 33.0 | 1.315 | 2.269 | 11.5 | 21.2 |
| 8 19 | 19 21.13 | −22 2.3 | 1.368 | 2.257 | 15.8 | 21.4 |

**318311** 2004 $TA_{130}$ 7 17.5 252°.01 4°.4/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.90 | −33 13.5 | 2.446 | 3.281 | 11.7 | 20.9 |
| 6 20 | 20 10.19 | −33 57.7 | 2.364 | 3.275 | 9.3 | 20.8 |
| 6 30 | 20 3.39 | −34 39.4 | 2.305 | 3.269 | 6.7 | 20.6 |
| 7 10 | 19 55.05 | −35 14.3 | 2.272 | 3.263 | 4.7 | 20.5 |
| 7 20 | 19 45.94 | −35 38.3 | 2.266 | 3.257 | 4.7 | 20.4 |
| 7 30 | 19 36.99 | −35 48.8 | 2.287 | 3.251 | 6.7 | 20.6 |
| 8 9 | 19 29.13 | −35 45.5 | 2.334 | 3.245 | 9.3 | 20.7 |
| 8 19 | 19 23.09 | −35 29.7 | 2.404 | 3.238 | 11.8 | 20.9 |

**476827** 2008 $UF_{263}$ 7 17.5 303°.23 0°.3/17.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.78 | −19 54.8 | 1.625 | 2.475 | 15.9 | 21.3 |
| 6 20 | 20 10.27 | −19 56.5 | 1.524 | 2.449 | 12.5 | 21.0 |
| 6 30 | 20 4.01 | −20 5.0 | 1.444 | 2.422 | 8.5 | 20.7 |
| 7 10 | 19 55.54 | −20 18.2 | 1.386 | 2.396 | 3.8 | 20.4 |
| 7 20 | 19 45.74 | −20 33.1 | 1.354 | 2.370 | 1.2 | 20.1 |
| 7 30 | 19 35.86 | −20 46.4 | 1.347 | 2.343 | 6.3 | 20.4 |
| 8 9 | 19 27.25 | −20 55.9 | 1.365 | 2.318 | 11.2 | 20.6 |
| 8 19 | 19 20.98 | −21 0.6 | 1.404 | 2.292 | 15.5 | 20.8 |

**299265** 2005 $NJ_{60}$ 7 17.5 88°.93 0°.9/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.02 | −23 12.3 | 2.096 | 2.934 | 13.3 | 20.5 |
| 6 20 | 20 10.25 | −23 21.1 | 2.022 | 2.941 | 10.2 | 20.3 |
| 6 30 | 20 3.38 | −23 32.7 | 1.971 | 2.947 | 6.7 | 20.1 |
| 7 10 | 19 55.03 | −23 44.3 | 1.945 | 2.954 | 3.0 | 19.9 |
| 7 20 | 19 46.02 | −23 53.1 | 1.946 | 2.960 | 1.5 | 19.8 |
| 7 30 | 19 37.29 | −23 57.3 | 1.975 | 2.967 | 5.1 | 20.1 |
| 8 9 | 19 29.78 | −23 55.9 | 2.030 | 2.973 | 8.7 | 20.3 |
| 8 19 | 19 24.15 | −23 49.1 | 2.109 | 2.980 | 11.8 | 20.5 |

**445348** 2010 $MY_{84}$ 7 17.5 259°.60 0°.4/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.94 | −20 12.1 | 2.349 | 3.182 | 12.2 | 21.3 |
| 6 20 | 20 7.82 | −20 41.4 | 2.258 | 3.174 | 9.4 | 21.1 |
| 6 30 | 20 1.80 | −21 16.6 | 2.190 | 3.166 | 6.2 | 20.9 |
| 7 10 | 19 54.38 | −21 55.0 | 2.149 | 3.158 | 2.7 | 20.6 |
| 7 20 | 19 46.21 | −22 33.5 | 2.135 | 3.150 | 1.1 | 20.5 |
| 7 30 | 19 38.13 | −23 9.0 | 2.149 | 3.142 | 4.7 | 20.8 |
| 8 9 | 19 30.96 | −23 39.3 | 2.190 | 3.133 | 8.1 | 21.0 |
| 8 19 | 19 25.39 | −24 3.1 | 2.255 | 3.125 | 11.2 | 21.1 |

**123196** 2000 $UC_{19}$ 7 17.5 249°.71 5°.3/20.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.64 | − 4 42.0 | 2.007 | 2.801 | 15.4 | 20.3 |
| 6 20 | 20 8.63 | − 4 42.6 | 1.911 | 2.789 | 12.7 | 20.1 |
| 6 30 | 20 2.50 | − 5 0.1 | 1.835 | 2.776 | 9.8 | 19.9 |
| 7 10 | 19 54.75 | − 5 35.3 | 1.782 | 2.763 | 6.8 | 19.7 |
| 7 20 | 19 46.08 | − 6 26.9 | 1.754 | 2.750 | 5.3 | 19.6 |
| 7 30 | 19 37.42 | − 7 32.0 | 1.754 | 2.736 | 6.7 | 19.6 |
| 8 9 | 19 29.72 | − 8 45.7 | 1.780 | 2.723 | 9.7 | 19.8 |
| 8 19 | 19 23.76 | −10 3.0 | 1.829 | 2.708 | 12.9 | 19.9 |

**450044** 2015 $RK_{24}$ 7 17.5 316°.72 0°.7/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.74 | −23 6.6 | 2.186 | 3.024 | 12.8 | 20.8 |
| 6 20 | 20 9.28 | −23 8.5 | 2.101 | 3.019 | 9.9 | 20.6 |
| 6 30 | 20 2.77 | −23 12.8 | 2.039 | 3.015 | 6.6 | 20.3 |
| 7 10 | 19 54.80 | −23 17.2 | 2.003 | 3.012 | 2.9 | 20.1 |
| 7 20 | 19 46.11 | −23 19.4 | 1.993 | 3.008 | 1.3 | 20.0 |
| 7 30 | 19 37.62 | −23 17.6 | 2.012 | 3.004 | 5.0 | 20.2 |
| 8 9 | 19 30.23 | −23 11.2 | 2.056 | 3.001 | 8.5 | 20.4 |
| 8 19 | 19 24.63 | −23 0.2 | 2.125 | 2.997 | 11.7 | 20.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **54994** 2001 $QF_{13}$ | | | 7 17.5 169°.59 | | 1°.4/18.1 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.67 | −15 54.3 | 1.854 | 2.684 | 15.1 | 19.9 |
| 6 20 | 20 11.04 | −16 7.1 | 1.775 | 2.686 | 11.8 | 19.7 |
| 6 30 | 20 4.09 | −16 29.7 | 1.717 | 2.688 | 8.0 | 19.5 |
| 7 10 | 19 55.42 | −16 59.7 | 1.683 | 2.690 | 3.9 | 19.2 |
| 7 20 | 19 45.89 | −17 34.2 | 1.677 | 2.691 | 1.6 | 19.1 |
| 7 30 | 19 36.58 | −18 9.8 | 1.697 | 2.692 | 5.4 | 19.3 |
| 8 9 | 19 28.51 | −18 43.4 | 1.744 | 2.693 | 9.4 | 19.6 |
| 8 19 | 19 22.48 | −19 13.0 | 1.814 | 2.693 | 13.0 | 19.8 |
| **246013** 2006 $TB_{67}$ | | | 7 17.5 334°.89 | | 0°.7/17.8 18 | |
| 6 10 | 20 14.19 | −20 3.6 | 1.823 | 2.666 | 14.8 | 20.0 |
| 6 20 | 20 9.98 | −19 47.2 | 1.740 | 2.660 | 11.5 | 19.7 |
| 6 30 | 20 3.42 | −19 35.2 | 1.678 | 2.655 | 7.7 | 19.5 |
| 7 10 | 19 55.13 | −19 26.0 | 1.641 | 2.650 | 3.5 | 19.2 |
| 7 20 | 19 46.00 | −19 18.0 | 1.630 | 2.645 | 1.2 | 19.0 |
| 7 30 | 19 37.10 | −19 9.7 | 1.645 | 2.641 | 5.5 | 19.3 |
| 8 9 | 19 29.48 | −19 0.3 | 1.686 | 2.637 | 9.6 | 19.6 |
| 8 19 | 19 23.95 | −18 49.5 | 1.750 | 2.633 | 13.2 | 19.8 |
| **92966** 2000 $RK_{50}$ | | | 7 17.5 272°.46 | | 5°.1/19.4 18 | |
| 6 10 | 20 13.57 | − 8 11.4 | 1.908 | 2.717 | 15.5 | 19.2 |
| 6 20 | 20 9.52 | − 7 44.4 | 1.807 | 2.698 | 12.7 | 19.0 |
| 6 30 | 20 3.19 | − 7 30.1 | 1.727 | 2.678 | 9.6 | 18.8 |
| 7 10 | 19 55.10 | − 7 29.6 | 1.670 | 2.658 | 6.5 | 18.5 |
| 7 20 | 19 45.98 | − 7 42.8 | 1.638 | 2.638 | 5.1 | 18.4 |
| 7 30 | 19 36.82 | − 8 8.5 | 1.633 | 2.617 | 6.9 | 18.5 |
| 8 9 | 19 28.68 | − 8 43.5 | 1.653 | 2.597 | 10.3 | 18.6 |
| 8 19 | 19 22.41 | − 9 24.4 | 1.696 | 2.576 | 13.8 | 18.8 |
| **446436** 2014 $JY_{39}$ | | | 7 17.5 54°.85 | | 0°.1/17.6 15 | |
| 6 10 | 20 13.94 | −19 39.6 | 1.890 | 2.730 | 14.4 | 21.1 |
| 6 20 | 20 9.48 | −19 50.9 | 1.830 | 2.749 | 11.1 | 20.9 |
| 6 30 | 20 2.88 | −20 8.2 | 1.792 | 2.768 | 7.3 | 20.7 |
| 7 10 | 19 54.81 | −20 28.7 | 1.779 | 2.788 | 3.2 | 20.5 |
| 7 20 | 19 46.13 | −20 49.5 | 1.792 | 2.807 | 1.0 | 20.4 |
| 7 30 | 19 37.85 | −21 8.1 | 1.832 | 2.827 | 5.1 | 20.7 |
| 8 9 | 19 30.89 | −21 22.7 | 1.898 | 2.847 | 8.8 | 21.0 |
| 8 19 | 19 25.88 | −21 32.5 | 1.988 | 2.867 | 12.1 | 21.2 |
| **394647** 2007 $YB_{68}$ | | | 7 17.5 117°.77 | | 0°.1/17.5 17 | |
| 6 10 | 20 13.20 | −19 41.7 | 2.199 | 3.032 | 12.9 | 22.1 |
| 6 20 | 20 8.78 | −20 2.3 | 2.121 | 3.037 | 10.0 | 21.9 |
| 6 30 | 20 2.41 | −20 28.7 | 2.067 | 3.042 | 6.6 | 21.7 |
| 7 10 | 19 54.63 | −20 58.2 | 2.038 | 3.046 | 2.9 | 21.5 |
| 7 20 | 19 46.17 | −21 28.0 | 2.036 | 3.051 | 1.0 | 21.3 |
| 7 30 | 19 37.92 | −21 55.3 | 2.062 | 3.056 | 4.7 | 21.6 |
| 8 9 | 19 30.73 | −22 18.1 | 2.115 | 3.060 | 8.3 | 21.8 |
| 8 19 | 19 25.27 | −22 35.4 | 2.192 | 3.064 | 11.4 | 22.0 |
| **349833** 2009 $CJ_{22}$ | | | 7 17.5 264°.47 | | 2°.2/18.7 18 | |
| 6 10 | 20 12.17 | −13 5.9 | 1.996 | 2.821 | 14.3 | 21.1 |
| 6 20 | 20 8.24 | −13 19.8 | 1.909 | 2.816 | 11.4 | 20.9 |
| 6 30 | 20 2.21 | −13 45.2 | 1.843 | 2.810 | 7.9 | 20.6 |
| 7 10 | 19 54.60 | −14 20.6 | 1.802 | 2.805 | 4.2 | 20.4 |
| 7 20 | 19 46.17 | −15 3.4 | 1.787 | 2.799 | 2.3 | 20.3 |
| 7 30 | 19 37.84 | −15 50.3 | 1.800 | 2.794 | 5.2 | 20.4 |
| 8 9 | 19 30.55 | −16 37.7 | 1.838 | 2.788 | 9.0 | 20.7 |
| 8 19 | 19 25.07 | −17 22.5 | 1.901 | 2.783 | 12.4 | 20.9 |
| **20855** Arifawan | | | 7 17.5 275°.32 | | 0°.7/17.8 18 | R |
| 6 10 | 20 15.41 | −17 29.9 | 1.514 | 2.362 | 17.0 | 18.8 |
| 6 20 | 20 11.69 | −17 48.9 | 1.421 | 2.343 | 13.4 | 18.5 |
| 6 30 | 20 5.05 | −18 19.5 | 1.348 | 2.325 | 9.1 | 18.2 |
| 7 10 | 19 56.06 | −18 59.1 | 1.297 | 2.306 | 4.2 | 17.9 |
| 7 20 | 19 45.66 | −19 43.5 | 1.272 | 2.287 | 1.4 | 17.6 |
| 7 30 | 19 35.21 | −20 27.6 | 1.272 | 2.268 | 6.6 | 17.9 |
| 8 9 | 19 26.13 | −21 7.4 | 1.296 | 2.249 | 11.6 | 18.1 |
| 8 19 | 19 19.57 | −21 40.2 | 1.341 | 2.229 | 16.1 | 18.4 |
| **499649** 2010 $VA_{78}$ | | | 7 17.5 203°.57 | | 0°.2/17.6 17 | |
| 6 10 | 20 17.32 | −18 52.8 | 1.843 | 2.677 | 15.0 | 22.6 |
| 6 20 | 20 12.46 | −19 11.9 | 1.758 | 2.673 | 11.7 | 22.4 |
| 6 30 | 20 5.13 | −19 38.8 | 1.695 | 2.669 | 7.8 | 22.1 |
| 7 10 | 19 55.93 | −20 10.6 | 1.656 | 2.665 | 3.5 | 21.9 |
| 7 20 | 19 45.76 | −20 43.6 | 1.644 | 2.660 | 1.1 | 21.7 |
| 7 30 | 19 35.74 | −21 14.3 | 1.660 | 2.654 | 5.6 | 22.0 |
| 8 9 | 19 27.00 | −21 40.1 | 1.702 | 2.648 | 9.8 | 22.2 |
| 8 19 | 19 20.40 | −21 59.9 | 1.766 | 2.641 | 13.5 | 22.4 |
| **310060** 2010 $JP_{116}$ | | | 7 17.5 8°.25 | | 7°.5/14.5 17 | |
| 6 10 | 20 18.15 | −31 59.8 | 1.227 | 2.097 | 18.8 | 19.7 |
| 6 20 | 20 14.67 | −33 29.9 | 1.166 | 2.097 | 14.9 | 19.5 |
| 6 30 | 20 7.39 | −35 0.7 | 1.124 | 2.097 | 10.9 | 19.2 |
| 7 10 | 19 57.15 | −36 21.3 | 1.103 | 2.098 | 7.9 | 19.1 |
| 7 20 | 19 45.35 | −37 20.8 | 1.106 | 2.099 | 8.1 | 19.1 |
| 7 30 | 19 33.95 | −37 52.5 | 1.131 | 2.100 | 11.3 | 19.3 |
| 8 9 | 19 24.81 | −37 56.2 | 1.177 | 2.102 | 15.2 | 19.5 |
| 8 19 | 19 19.17 | −37 36.1 | 1.242 | 2.103 | 18.9 | 19.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **444663** 2007 $CE_{40}$ | | | 7 17.5 67°.25 | | 1°.5/16.9 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.38 | −25 13.5 | 2.251 | 3.089 | 12.5 | 20.8 |
| 6 20 | 20 9.67 | −25 23.5 | 2.176 | 3.094 | 9.6 | 20.6 |
| 6 30 | 20 2.96 | −25 34.7 | 2.123 | 3.099 | 6.4 | 20.4 |
| 7 10 | 19 54.87 | −25 44.3 | 2.096 | 3.104 | 3.0 | 20.2 |
| 7 20 | 19 46.14 | −25 49.6 | 2.097 | 3.109 | 1.9 | 20.1 |
| 7 30 | 19 37.69 | −25 49.0 | 2.125 | 3.114 | 5.1 | 20.3 |
| 8 9 | 19 30.37 | −25 41.9 | 2.180 | 3.120 | 8.4 | 20.5 |
| 8 19 | 19 24.83 | −25 28.9 | 2.259 | 3.125 | 11.3 | 20.7 |
| **158075** 2000 $US_{50}$ | | | 7 17.5 305°.01 | | 7°.6/19.5 18 | |
| 6 10 | 20 12.71 | − 5 41.4 | 1.633 | 2.445 | 17.5 | 19.5 |
| 6 20 | 20 9.17 | − 4 36.6 | 1.541 | 2.428 | 14.7 | 19.3 |
| 6 30 | 20 3.13 | − 3 45.2 | 1.467 | 2.410 | 11.6 | 19.1 |
| 7 10 | 19 55.13 | − 3 10.6 | 1.416 | 2.393 | 8.8 | 18.8 |
| 7 20 | 19 46.01 | − 2 55.2 | 1.388 | 2.375 | 7.6 | 18.7 |
| 7 30 | 19 36.90 | − 2 59.1 | 1.385 | 2.359 | 9.1 | 18.8 |
| 8 9 | 19 28.98 | − 3 20.0 | 1.404 | 2.342 | 12.2 | 18.9 |
| 8 19 | 19 23.19 | − 3 53.9 | 1.445 | 2.326 | 15.6 | 19.1 |
| **133369** 2003 $SC_{143}$ | | | 7 17.5 311°.80 | | 3°.5/16.1 18 | |
| 6 10 | 20 14.28 | −27 3.5 | 1.692 | 2.547 | 15.1 | 19.3 |
| 6 20 | 20 10.55 | −27 47.9 | 1.610 | 2.537 | 11.8 | 19.1 |
| 6 30 | 20 4.11 | −28 35.6 | 1.549 | 2.527 | 8.1 | 18.8 |
| 7 10 | 19 55.56 | −29 20.8 | 1.511 | 2.517 | 4.5 | 18.6 |
| 7 20 | 19 45.88 | −29 58.1 | 1.500 | 2.507 | 3.9 | 18.5 |
| 7 30 | 19 36.35 | −30 22.9 | 1.513 | 2.498 | 7.3 | 18.7 |
| 8 9 | 19 28.25 | −30 33.5 | 1.551 | 2.489 | 11.3 | 18.9 |
| 8 19 | 19 22.54 | −30 30.6 | 1.611 | 2.480 | 14.9 | 19.1 |
| **201802** 2003 $XL_{3}$ | | | 7 17.6 148°.66 | | 1°.0/16.9 18 | |
| 6 10 | 20 14.80 | −21 26.1 | 2.362 | 3.191 | 12.3 | 20.7 |
| 6 20 | 20 9.92 | −22 6.1 | 2.285 | 3.198 | 9.4 | 20.5 |
| 6 30 | 20 3.13 | −22 51.0 | 2.231 | 3.206 | 6.2 | 20.4 |
| 7 10 | 19 54.96 | −23 37.5 | 2.204 | 3.213 | 2.7 | 20.1 |
| 7 20 | 19 46.12 | −24 22.1 | 2.205 | 3.219 | 1.5 | 20.1 |
| 7 30 | 19 37.45 | −25 1.4 | 2.235 | 3.225 | 4.8 | 20.3 |
| 8 9 | 19 29.81 | −25 33.4 | 2.292 | 3.231 | 8.1 | 20.5 |
| 8 19 | 19 23.83 | −25 57.3 | 2.374 | 3.236 | 11.0 | 20.7 |
| **148675** 2001 $SF_{200}$ | | | 7 17.6 301°.65 | | 1°.8/18.3 17 | |
| 6 10 | 20 13.75 | −15 26.5 | 1.584 | 2.427 | 16.6 | 20.8 |
| 6 20 | 20 10.03 | −15 33.8 | 1.503 | 2.421 | 13.1 | 20.6 |
| 6 30 | 20 3.69 | −15 52.7 | 1.442 | 2.416 | 9.0 | 20.3 |
| 7 10 | 19 55.36 | −16 21.2 | 1.404 | 2.411 | 4.5 | 20.0 |
| 7 20 | 19 45.98 | −16 56.4 | 1.392 | 2.406 | 2.0 | 19.9 |
| 7 30 | 19 36.76 | −17 34.2 | 1.404 | 2.401 | 6.1 | 20.1 |
| 8 9 | 19 28.92 | −18 10.9 | 1.442 | 2.396 | 10.6 | 20.4 |
| 8 19 | 19 23.38 | −18 44.0 | 1.501 | 2.391 | 14.6 | 20.6 |
| **270355** 2001 $YD_{45}$ | | | 7 17.6 216°.21 | | 1°.9/16.7 18 | |
| 6 10 | 20 16.78 | −24 12.5 | 1.941 | 2.781 | 14.1 | 21.1 |
| 6 20 | 20 12.02 | −24 46.0 | 1.857 | 2.776 | 10.9 | 20.8 |
| 6 30 | 20 4.84 | −25 23.6 | 1.795 | 2.771 | 7.3 | 20.6 |
| 7 10 | 19 55.82 | −26 1.0 | 1.758 | 2.766 | 3.5 | 20.4 |
| 7 20 | 19 45.84 | −26 33.9 | 1.748 | 2.760 | 2.4 | 20.3 |
| 7 30 | 19 36.02 | −26 58.6 | 1.765 | 2.753 | 6.0 | 20.5 |
| 8 9 | 19 27.46 | −27 13.5 | 1.808 | 2.747 | 9.9 | 20.7 |
| 8 19 | 19 21.01 | −27 18.7 | 1.874 | 2.740 | 13.3 | 20.9 |
| **442579** 2012 $BQ_{87}$ | | | 7 17.6 250°.58 | | 1°.0/17.9 18 | |
| 6 10 | 20 14.95 | −19 5.4 | 2.472 | 3.294 | 12.0 | 20.9 |
| 6 20 | 20 9.94 | −18 43.2 | 2.378 | 3.286 | 9.4 | 20.7 |
| 6 30 | 20 3.10 | −18 24.1 | 2.307 | 3.277 | 6.3 | 20.5 |
| 7 10 | 19 54.95 | −18 7.3 | 2.262 | 3.269 | 3.0 | 20.3 |
| 7 20 | 19 46.14 | −17 51.8 | 2.246 | 3.261 | 1.2 | 20.1 |
| 7 30 | 19 37.50 | −17 36.9 | 2.259 | 3.252 | 4.4 | 20.3 |
| 8 9 | 19 29.80 | −17 22.1 | 2.299 | 3.243 | 7.7 | 20.5 |
| 8 19 | 19 23.66 | −17 7.3 | 2.364 | 3.234 | 10.7 | 20.7 |
| **192493** 1998 $HG_{42}$ | | | 7 17.6 345°.20 | | 1°.0/18.0 18 | |
| 6 10 | 20 13.40 | −16 21.5 | 1.745 | 2.585 | 15.5 | 20.1 |
| 6 20 | 20 9.49 | −16 41.7 | 1.667 | 2.584 | 12.1 | 19.9 |
| 6 30 | 20 3.18 | −17 12.3 | 1.609 | 2.584 | 8.2 | 19.7 |
| 7 10 | 19 55.09 | −17 50.9 | 1.575 | 2.583 | 3.8 | 19.4 |
| 7 20 | 19 46.09 | −18 33.9 | 1.568 | 2.583 | 1.4 | 19.2 |
| 7 30 | 19 37.27 | −19 17.1 | 1.586 | 2.582 | 5.6 | 19.5 |
| 8 9 | 19 29.73 | −19 57.2 | 1.630 | 2.582 | 9.8 | 19.8 |
| 8 19 | 19 24.29 | −20 31.8 | 1.697 | 2.582 | 13.5 | 20.0 |
| **322600** 2012 $BD_{26}$ | | | 7 17.6 253°.87 | | 0°.9/17.9 18 | |
| 6 10 | 20 12.03 | −17 41.1 | 2.364 | 3.191 | 12.3 | 21.3 |
| 6 20 | 20 7.78 | −17 44.9 | 2.278 | 3.188 | 9.6 | 21.1 |
| 6 30 | 20 1.72 | −17 54.7 | 2.214 | 3.186 | 6.4 | 20.9 |
| 7 10 | 19 54.36 | −18 8.9 | 2.176 | 3.183 | 3.0 | 20.7 |
| 7 20 | 19 46.34 | −18 25.5 | 2.165 | 3.180 | 1.1 | 20.6 |
| 7 30 | 19 38.47 | −18 42.6 | 2.183 | 3.177 | 4.4 | 20.8 |
| 8 9 | 19 31.53 | −18 58.4 | 2.227 | 3.174 | 7.8 | 21.0 |
| 8 19 | 19 26.15 | −19 11.7 | 2.296 | 3.172 | 10.8 | 21.2 |

**133484** 2003 $SO_{259}$ 7 17.6 184.°51 7.°8/21.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.11 | + 0 56.7 | 2.082 | 2.847 | 15.8 | 19.9 |
| 6 20 | 20 8.00 | + 1 35.2 | 2.000 | 2.847 | 13.5 | 19.8 |
| 6 30 | 20 1.95 | + 1 56.2 | 1.937 | 2.847 | 11.1 | 19.6 |
| 7 10 | 19 54.49 | + 1 57.4 | 1.897 | 2.847 | 8.9 | 19.5 |
| 7 20 | 19 46.29 | + 1 38.1 | 1.881 | 2.846 | 7.8 | 19.4 |
| 7 30 | 19 38.23 | + 0 59.8 | 1.890 | 2.846 | 8.5 | 19.4 |
| 8 9 | 19 31.16 | + 0 5.9 | 1.924 | 2.845 | 10.4 | 19.6 |
| 8 19 | 19 25.75 | − 0 58.5 | 1.981 | 2.844 | 12.8 | 19.7 |

**463746** 2014 $QD_{424}$ 7 17.6 22.°59 4.°9/18.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.67 | −12 21.0 | 1.064 | 1.928 | 21.5 | 20.8 |
| 6 20 | 20 10.77 | −11 46.2 | 1.006 | 1.932 | 17.2 | 20.6 |
| 6 30 | 20 4.53 | −11 27.9 | 0.964 | 1.937 | 12.3 | 20.3 |
| 7 10 | 19 55.79 | −11 26.9 | 0.941 | 1.943 | 7.3 | 20.0 |
| 7 20 | 19 45.87 | −11 41.6 | 0.940 | 1.949 | 4.9 | 19.9 |
| 7 30 | 19 36.44 | −12 8.7 | 0.960 | 1.956 | 8.3 | 20.1 |
| 8 9 | 19 29.02 | −12 43.0 | 1.003 | 1.964 | 13.1 | 20.4 |
| 8 19 | 19 24.65 | −13 19.7 | 1.064 | 1.973 | 17.7 | 20.7 |

**58801** 1998 $FP_{105}$ 7 17.6 181.°55 4.°3/19.7 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.81 | − 7 47.7 | 2.338 | 3.136 | 13.3 | 19.8 |
| 6 20 | 20 7.56 | − 7 27.9 | 2.253 | 3.136 | 10.9 | 19.6 |
| 6 30 | 20 1.55 | − 7 19.4 | 2.190 | 3.136 | 8.1 | 19.5 |
| 7 10 | 19 54.28 | − 7 22.5 | 2.151 | 3.136 | 5.5 | 19.3 |
| 7 20 | 19 46.38 | − 7 36.7 | 2.139 | 3.136 | 4.3 | 19.2 |
| 7 30 | 19 38.62 | − 8 0.2 | 2.154 | 3.136 | 5.7 | 19.3 |
| 8 9 | 19 31.76 | − 8 30.8 | 2.195 | 3.135 | 8.3 | 19.5 |
| 8 19 | 19 26.41 | − 9 5.6 | 2.261 | 3.135 | 11.0 | 19.6 |

**182839** 2002 $CK_{16}$ 7 17.6 260.°39 3.°2/17.3 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 28.95 | −30 8.0 | 1.226 | 2.080 | 19.8 | 19.6 |
| 6 20 | 20 22.98 | −29 40.0 | 1.144 | 2.069 | 15.7 | 19.3 |
| 6 30 | 20 12.88 | −29 4.9 | 1.081 | 2.057 | 10.8 | 19.0 |
| 7 10 | 19 59.56 | −28 16.8 | 1.039 | 2.046 | 5.6 | 18.7 |
| 7 20 | 19 44.65 | −27 12.1 | 1.022 | 2.034 | 3.6 | 18.5 |
| 7 30 | 19 30.26 | −25 51.7 | 1.030 | 2.022 | 8.6 | 18.8 |
| 8 9 | 19 18.38 | −24 20.9 | 1.061 | 2.010 | 14.1 | 19.0 |
| 8 19 | 19 10.28 | −22 47.1 | 1.113 | 1.997 | 19.0 | 19.3 |

**78926** 2003 $SC_{126}$ 7 17.6 173.°90 7.°4/20.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.80 | − 0 56.3 | 2.044 | 2.818 | 15.7 | 20.4 |
| 6 20 | 20 8.56 | − 0 13.0 | 1.963 | 2.819 | 13.4 | 20.2 |
| 6 30 | 20 2.33 | + 0 14.1 | 1.902 | 2.820 | 10.8 | 20.0 |
| 7 10 | 19 54.66 | + 0 22.7 | 1.863 | 2.821 | 8.5 | 19.9 |
| 7 20 | 19 46.25 | + 0 12.0 | 1.849 | 2.821 | 7.4 | 19.8 |
| 7 30 | 19 38.00 | − 0 16.6 | 1.860 | 2.821 | 8.2 | 19.9 |
| 8 9 | 19 30.77 | − 1 0.0 | 1.897 | 2.821 | 10.3 | 20.0 |
| 8 19 | 19 25.25 | − 1 53.6 | 1.956 | 2.821 | 12.9 | 20.2 |

**366468** 2002 $EA_{69}$ 7 17.6 98.°73 0.°5/17.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.08 | −21 13.0 | 1.494 | 2.340 | 17.2 | 21.1 |
| 6 20 | 20 14.84 | −21 24.6 | 1.433 | 2.356 | 13.3 | 20.9 |
| 6 30 | 20 6.74 | −21 42.2 | 1.393 | 2.371 | 8.8 | 20.7 |
| 7 10 | 19 56.62 | −22 1.9 | 1.376 | 2.386 | 3.8 | 20.4 |
| 7 20 | 19 45.64 | −22 19.8 | 1.385 | 2.401 | 1.4 | 20.3 |
| 7 30 | 19 35.20 | −22 32.7 | 1.420 | 2.415 | 6.3 | 20.7 |
| 8 9 | 19 26.56 | −22 39.2 | 1.480 | 2.429 | 10.8 | 21.0 |
| 8 19 | 19 20.55 | −22 39.5 | 1.562 | 2.442 | 14.7 | 21.2 |

**323337** 2003 $UT_{203}$ 7 17.6 300.°62 1.°6/18.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.24 | −17 21.2 | 1.364 | 2.220 | 18.0 | 21.0 |
| 6 20 | 20 11.02 | −17 14.6 | 1.276 | 2.203 | 14.3 | 20.8 |
| 6 30 | 20 4.72 | −17 18.1 | 1.207 | 2.185 | 9.8 | 20.4 |
| 7 10 | 19 55.97 | −17 30.2 | 1.160 | 2.168 | 4.7 | 20.1 |
| 7 20 | 19 45.79 | −17 47.9 | 1.136 | 2.151 | 1.9 | 19.9 |
| 7 30 | 19 35.64 | −18 8.0 | 1.136 | 2.134 | 6.9 | 20.1 |
| 8 9 | 19 27.03 | −18 27.2 | 1.160 | 2.117 | 12.2 | 20.4 |
| 8 19 | 19 21.11 | −18 43.5 | 1.204 | 2.101 | 16.9 | 20.6 |

**514339** 2016 $PQ_{89}$ 7 17.6 249.°08 4.°1/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.96 | − 8 2.2 | 2.284 | 3.081 | 13.6 | 22.0 |
| 6 20 | 20 8.65 | − 7 54.7 | 2.181 | 3.065 | 11.1 | 21.8 |
| 6 30 | 20 2.43 | − 7 59.4 | 2.100 | 3.049 | 8.3 | 21.6 |
| 7 10 | 19 54.74 | − 8 16.5 | 2.043 | 3.032 | 5.5 | 21.4 |
| 7 20 | 19 46.22 | − 8 45.1 | 2.014 | 3.014 | 4.1 | 21.3 |
| 7 30 | 19 37.70 | − 9 23.2 | 2.011 | 2.996 | 5.7 | 21.4 |
| 8 9 | 19 30.02 | −10 7.7 | 2.036 | 2.978 | 8.7 | 21.5 |
| 8 19 | 19 23.90 | −10 55.5 | 2.085 | 2.959 | 11.8 | 21.7 |

**270257** 2001 $UD_{100}$ 7 17.6 268.°22 2.°0/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.15 | −24 0.0 | 1.741 | 2.588 | 15.1 | 21.1 |
| 6 20 | 20 11.93 | −24 32.1 | 1.651 | 2.575 | 11.8 | 20.9 |
| 6 30 | 20 5.01 | −25 9.3 | 1.583 | 2.561 | 7.9 | 20.6 |
| 7 10 | 19 55.99 | −25 47.1 | 1.539 | 2.547 | 3.8 | 20.3 |
| 7 20 | 19 45.81 | −26 20.7 | 1.521 | 2.533 | 2.5 | 20.2 |
| 7 30 | 19 35.69 | −26 45.9 | 1.529 | 2.519 | 6.6 | 20.4 |
| 8 9 | 19 26.92 | −27 0.5 | 1.562 | 2.505 | 10.8 | 20.6 |
| 8 19 | 19 20.48 | −27 4.7 | 1.618 | 2.490 | 14.7 | 20.8 |

**45447** 2000 $AH_{188}$ 7 17.6 249.°05 6.°2/20.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.75 | − 3 20.5 | 1.945 | 2.737 | 15.8 | 18.6 |
| 6 20 | 20 7.90 | − 3 2.6 | 1.862 | 2.735 | 13.2 | 18.4 |
| 6 30 | 20 1.99 | − 3 1.8 | 1.798 | 2.733 | 10.3 | 18.2 |
| 7 10 | 19 54.55 | − 3 19.2 | 1.757 | 2.731 | 7.6 | 18.1 |
| 7 20 | 19 46.32 | − 3 54.2 | 1.741 | 2.729 | 6.3 | 18.0 |
| 7 30 | 19 38.22 | − 4 44.5 | 1.751 | 2.727 | 7.3 | 18.0 |
| 8 9 | 19 31.16 | − 5 45.8 | 1.786 | 2.725 | 9.9 | 18.2 |
| 8 19 | 19 25.87 | − 6 53.1 | 1.844 | 2.722 | 12.9 | 18.4 |

**360961** 2005 $UK_{124}$ 7 17.6 151.°56 5.°1/20.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.45 | − 3 0.8 | 2.874 | 3.638 | 11.9 | 21.5 |
| 6 20 | 20 6.90 | − 2 30.5 | 2.791 | 3.645 | 9.9 | 21.4 |
| 6 30 | 20 0.93 | − 2 11.5 | 2.731 | 3.651 | 7.8 | 21.2 |
| 7 10 | 19 53.96 | − 2 4.4 | 2.695 | 3.657 | 6.0 | 21.1 |
| 7 20 | 19 46.53 | − 2 9.5 | 2.686 | 3.663 | 5.1 | 21.1 |
| 7 30 | 19 39.24 | − 2 25.8 | 2.705 | 3.669 | 5.8 | 21.1 |
| 8 9 | 19 32.68 | − 2 51.3 | 2.751 | 3.674 | 7.6 | 21.3 |
| 8 19 | 19 27.35 | − 3 23.5 | 2.822 | 3.678 | 9.6 | 21.4 |

**477021** 2008 $YN_{162}$ 7 17.6 164.°73 0.°9/17.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.07 | −22 12.7 | 2.018 | 2.856 | 13.7 | 21.9 |
| 6 20 | 20 10.49 | −22 32.1 | 1.939 | 2.858 | 10.6 | 21.7 |
| 6 30 | 20 3.70 | −22 55.8 | 1.882 | 2.859 | 7.0 | 21.5 |
| 7 10 | 19 55.29 | −23 20.8 | 1.851 | 2.860 | 3.1 | 21.2 |
| 7 20 | 19 46.11 | −23 43.6 | 1.846 | 2.861 | 1.5 | 21.1 |
| 7 30 | 19 37.14 | −24 1.6 | 1.869 | 2.861 | 5.3 | 21.4 |
| 8 9 | 19 29.38 | −24 13.2 | 1.918 | 2.862 | 9.1 | 21.6 |
| 8 19 | 19 23.56 | −24 18.1 | 1.991 | 2.862 | 12.4 | 21.8 |

**139228** 2001 $HM_{11}$ 7 17.6 12.°25 1.°5/18.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.61 | −17 34.1 | 1.138 | 2.011 | 19.7 | 19.1 |
| 6 20 | 20 9.09 | −17 28.3 | 1.078 | 2.013 | 15.5 | 18.8 |
| 6 30 | 20 3.38 | −17 34.0 | 1.035 | 2.017 | 10.4 | 18.6 |
| 7 10 | 19 55.30 | −17 49.1 | 1.013 | 2.022 | 4.9 | 18.3 |
| 7 20 | 19 46.10 | −18 9.8 | 1.013 | 2.028 | 1.9 | 18.1 |
| 7 30 | 19 37.36 | −18 32.3 | 1.036 | 2.035 | 7.1 | 18.4 |
| 8 9 | 19 30.53 | −18 52.9 | 1.080 | 2.043 | 12.3 | 18.8 |
| 8 19 | 19 26.60 | −19 9.5 | 1.145 | 2.052 | 16.8 | 19.0 |

**385131** 2013 $GH_{109}$ 7 17.6 147.°66 10.°5/ 9.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 33.97 | −61 18.0 | 3.031 | 3.751 | 12.2 | 21.3 |
| 6 20 | 20 26.04 | −62 39.6 | 2.988 | 3.759 | 11.3 | 21.3 |
| 6 30 | 20 14.48 | −63 45.4 | 2.966 | 3.767 | 10.7 | 21.2 |
| 7 10 | 20 0.16 | −64 28.5 | 2.965 | 3.774 | 10.5 | 21.2 |
| 7 20 | 19 44.54 | −64 44.5 | 2.985 | 3.781 | 10.8 | 21.2 |
| 7 30 | 19 29.49 | −64 32.1 | 3.026 | 3.788 | 11.4 | 21.3 |
| 8 9 | 19 16.70 | −63 53.8 | 3.087 | 3.794 | 12.2 | 21.4 |
| 8 19 | 19 7.30 | −62 54.9 | 3.166 | 3.800 | 13.1 | 21.5 |

**346751** 2009 $BR_{27}$ 7 17.6 27.°10 1.°8/16.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.96 | −24 37.7 | 1.848 | 2.695 | 14.4 | 20.8 |
| 6 20 | 20 10.63 | −25 0.0 | 1.773 | 2.696 | 11.2 | 20.6 |
| 6 30 | 20 3.89 | −25 25.1 | 1.720 | 2.698 | 7.4 | 20.4 |
| 7 10 | 19 55.41 | −25 49.3 | 1.692 | 2.700 | 3.5 | 20.1 |
| 7 20 | 19 46.09 | −26 8.8 | 1.690 | 2.702 | 2.3 | 20.1 |
| 7 30 | 19 37.05 | −26 20.7 | 1.714 | 2.705 | 5.9 | 20.3 |
| 8 9 | 19 29.36 | −26 23.9 | 1.764 | 2.707 | 9.8 | 20.5 |
| 8 19 | 19 23.81 | −26 18.8 | 1.837 | 2.710 | 13.2 | 20.8 |

**314073** 2005 $CW_{6}$ 7 17.6 33.°71 5.°2/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 29.53 | −18 29.2 | 1.271 | 2.108 | 20.2 | 18.9 |
| 6 20 | 20 22.41 | −16 14.1 | 1.202 | 2.115 | 16.1 | 18.7 |
| 6 30 | 20 11.86 | −13 57.0 | 1.153 | 2.121 | 11.4 | 18.4 |
| 7 10 | 19 58.90 | −11 42.6 | 1.129 | 2.128 | 6.8 | 18.2 |
| 7 20 | 19 45.01 | − 9 37.5 | 1.130 | 2.136 | 5.4 | 18.2 |
| 7 30 | 19 31.92 | − 7 48.4 | 1.159 | 2.144 | 9.0 | 18.4 |
| 8 9 | 19 21.14 | − 6 19.2 | 1.213 | 2.152 | 13.5 | 18.7 |
| 8 19 | 19 13.59 | − 5 10.7 | 1.287 | 2.161 | 17.6 | 18.9 |

**516286** 2016 $WD_{30}$ 7 17.6 283.°66 3.°0/15.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.20 | −26 1.6 | 2.150 | 2.993 | 12.8 | 21.3 |
| 6 20 | 20 9.22 | −27 3.0 | 2.060 | 2.981 | 10.0 | 21.1 |
| 6 30 | 20 3.01 | −28 8.8 | 1.993 | 2.968 | 6.8 | 20.9 |
| 7 10 | 19 55.08 | −29 14.1 | 1.951 | 2.956 | 3.7 | 20.7 |
| 7 20 | 19 46.18 | −30 13.7 | 1.937 | 2.943 | 3.4 | 20.6 |
| 7 30 | 19 37.30 | −31 3.1 | 1.950 | 2.931 | 6.3 | 20.8 |
| 8 9 | 19 29.45 | −31 39.6 | 1.990 | 2.918 | 9.7 | 21.0 |
| 8 19 | 19 23.46 | −32 2.9 | 2.052 | 2.906 | 12.8 | 21.1 |

**42705** 1998 $OW_{8}$ 7 17.6 0.°27 0.°1/17.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 5.44 | −21 23.4 | 1.020 | 1.915 | 19.8 | 17.5 |
| 6 20 | 20 4.71 | −21 10.4 | 0.960 | 1.909 | 15.4 | 17.3 |
| 6 30 | 20 0.68 | −21 4.1 | 0.917 | 1.906 | 10.3 | 17.0 |
| 7 10 | 19 54.18 | −21 2.1 | 0.894 | 1.905 | 4.6 | 16.7 |
| 7 20 | 19 46.50 | −21 1.2 | 0.891 | 1.906 | 1.5 | 16.4 |
| 7 30 | 19 39.26 | −20 58.7 | 0.909 | 1.910 | 7.4 | 16.8 |
| 8 9 | 19 33.99 | −20 52.6 | 0.948 | 1.916 | 12.8 | 17.2 |
| 8 19 | 19 31.68 | −20 42.2 | 1.005 | 1.925 | 17.5 | 17.5 |

**92785** 2000 $QG_{143}$ 7 17.6 305.°96 4.°3/19.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.35 | −10 31.7 | 1.554 | 2.389 | 17.2 | 19.9 |
| 6 20 | 20 8.42 | −10 19.3 | 1.455 | 2.364 | 14.0 | 19.6 |
| 6 30 | 20 2.86 | −10 21.7 | 1.375 | 2.340 | 10.3 | 19.3 |
| 7 10 | 19 55.15 | −10 39.8 | 1.317 | 2.315 | 6.4 | 19.0 |
| 7 20 | 19 46.15 | −11 12.5 | 1.283 | 2.291 | 4.4 | 18.8 |
| 7 30 | 19 37.02 | −11 57.0 | 1.274 | 2.267 | 7.1 | 18.9 |
| 8 9 | 19 29.08 | −12 48.6 | 1.289 | 2.244 | 11.5 | 19.1 |
| 8 19 | 19 23.38 | −13 42.8 | 1.325 | 2.221 | 15.8 | 19.3 |

**352443** 2008 $AD_{36}$ 7 17.6 90.°56 0.°1/17.6 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.23 | −20 26.9 | 2.166 | 3.000 | 13.1 | 21.4 |
| 6 20 | 20 9.58 | −20 35.9 | 2.094 | 3.010 | 10.1 | 21.2 |
| 6 30 | 20 2.95 | −20 49.6 | 2.045 | 3.020 | 6.7 | 21.1 |
| 7 10 | 19 54.93 | −21 5.5 | 2.021 | 3.029 | 2.9 | 20.8 |
| 7 20 | 19 46.30 | −21 21.1 | 2.024 | 3.039 | 1.0 | 20.7 |
| 7 30 | 19 37.95 | −21 34.4 | 2.055 | 3.049 | 4.7 | 21.0 |
| 8 9 | 19 30.72 | −21 43.9 | 2.113 | 3.059 | 8.2 | 21.2 |
| 8 19 | 19 25.26 | −21 49.2 | 2.195 | 3.068 | 11.3 | 21.4 |

**176844** 2002 $TU_{220}$ 7 17.6 359.°01 3.°2/18.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.37 | −17 49.8 | 1.148 | 2.017 | 19.9 | 19.2 |
| 6 20 | 20 11.25 | −16 50.8 | 1.081 | 2.013 | 15.8 | 18.9 |
| 6 30 | 20 4.84 | −15 58.1 | 1.032 | 2.011 | 10.9 | 18.7 |
| 7 10 | 19 55.98 | −15 12.4 | 1.004 | 2.010 | 5.8 | 18.4 |
| 7 20 | 19 45.95 | −14 34.4 | 0.998 | 2.011 | 3.4 | 18.2 |
| 7 30 | 19 36.37 | −14 4.4 | 1.015 | 2.012 | 7.7 | 18.5 |
| 8 9 | 19 28.75 | −13 41.7 | 1.054 | 2.014 | 12.8 | 18.8 |
| 8 19 | 19 24.10 | −13 25.3 | 1.112 | 2.018 | 17.3 | 19.1 |

**470648** 2008 $SC_{118}$ 7 17.6 296.°28 3.°3/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.10 | −12 50.9 | 1.700 | 2.533 | 16.1 | 21.4 |
| 6 20 | 20 9.61 | −12 39.4 | 1.596 | 2.506 | 13.0 | 21.2 |
| 6 30 | 20 3.57 | −12 39.6 | 1.511 | 2.478 | 9.3 | 20.9 |
| 7 10 | 19 55.46 | −12 51.4 | 1.449 | 2.450 | 5.4 | 20.6 |
| 7 20 | 19 46.07 | −13 13.6 | 1.412 | 2.423 | 3.3 | 20.4 |
| 7 30 | 19 36.55 | −13 43.8 | 1.401 | 2.395 | 6.5 | 20.5 |
| 8 9 | 19 28.12 | −14 18.5 | 1.415 | 2.367 | 10.9 | 20.7 |
| 8 19 | 19 21.81 | −14 54.5 | 1.450 | 2.340 | 15.1 | 20.9 |

**114371** 2002 $XJ_{97}$ 7 17.6 327.°38 3.°9/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.52 | −13 29.3 | 1.526 | 2.373 | 16.9 | 18.6 |
| 6 20 | 20 7.74 | −12 53.8 | 1.434 | 2.352 | 13.7 | 18.3 |
| 6 30 | 20 2.34 | −12 28.1 | 1.361 | 2.331 | 9.8 | 18.0 |
| 7 10 | 19 54.89 | −12 13.1 | 1.310 | 2.311 | 5.8 | 17.8 |
| 7 20 | 19 46.27 | −12 8.6 | 1.283 | 2.292 | 4.0 | 17.6 |
| 7 30 | 19 37.68 | −12 13.4 | 1.280 | 2.274 | 7.0 | 17.7 |
| 8 9 | 19 30.37 | −12 25.3 | 1.301 | 2.257 | 11.3 | 17.9 |
| 8 19 | 19 25.32 | −12 41.6 | 1.342 | 2.240 | 15.5 | 18.1 |

**288455** 2004 $EW_{69}$ 7 17.6 267.°10 6.°2/20.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.88 | − 2 19.9 | 2.126 | 2.909 | 15.0 | 20.7 |
| 6 20 | 20 7.11 | − 2 4.8 | 2.036 | 2.902 | 12.6 | 20.5 |
| 6 30 | 20 1.44 | − 2 6.3 | 1.966 | 2.895 | 9.9 | 20.3 |
| 7 10 | 19 54.34 | − 2 25.4 | 1.919 | 2.888 | 7.5 | 20.2 |
| 7 20 | 19 46.48 | − 3 1.8 | 1.897 | 2.881 | 6.2 | 20.1 |
| 7 30 | 19 38.69 | − 3 53.4 | 1.902 | 2.874 | 7.1 | 20.1 |
| 8 9 | 19 31.83 | − 4 56.1 | 1.932 | 2.867 | 9.5 | 20.2 |
| 8 19 | 19 26.56 | − 6 5.5 | 1.985 | 2.860 | 12.3 | 20.4 |

**185458** 2007 $AO_{6}$ 7 17.6 142.°26 0.°2/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.11 | −16 41.4 | 2.506 | 3.328 | 11.9 | 20.3 |
| 6 20 | 20 7.80 | −17 31.0 | 2.424 | 3.332 | 9.2 | 20.1 |
| 6 30 | 20 1.75 | −18 28.9 | 2.365 | 3.336 | 6.1 | 20.0 |
| 7 10 | 19 54.43 | −19 32.3 | 2.333 | 3.341 | 2.7 | 19.7 |
| 7 20 | 19 46.46 | −20 37.6 | 2.329 | 3.345 | 0.8 | 19.6 |
| 7 30 | 19 38.60 | −21 41.0 | 2.355 | 3.349 | 4.3 | 19.9 |
| 8 9 | 19 31.59 | −22 39.3 | 2.409 | 3.352 | 7.5 | 20.1 |
| 8 19 | 19 26.05 | −23 30.5 | 2.488 | 3.356 | 10.4 | 20.3 |

**177131** 2003 $HN_{51}$ 7 17.6 329.°96 4.°1/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.40 | − 7 50.7 | 2.141 | 2.947 | 14.1 | 19.7 |
| 6 20 | 20 6.70 | − 7 48.2 | 2.055 | 2.944 | 11.5 | 19.5 |
| 6 30 | 20 1.13 | − 7 58.9 | 1.991 | 2.942 | 8.5 | 19.3 |
| 7 10 | 19 54.19 | − 8 23.0 | 1.950 | 2.940 | 5.6 | 19.1 |
| 7 20 | 19 46.54 | − 8 58.9 | 1.936 | 2.937 | 4.1 | 19.0 |
| 7 30 | 19 39.01 | − 9 44.1 | 1.948 | 2.935 | 5.7 | 19.1 |
| 8 9 | 19 32.42 | −10 35.1 | 1.987 | 2.933 | 8.6 | 19.3 |
| 8 19 | 19 27.43 | −11 28.2 | 2.050 | 2.932 | 11.6 | 19.5 |

**315058** 2007 $DS_{17}$ 7 17.6 246.°13 1.°4/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.68 | −15 2.2 | 2.550 | 3.368 | 11.8 | 21.9 |
| 6 20 | 20 7.47 | −15 13.2 | 2.453 | 3.356 | 9.3 | 21.7 |
| 6 30 | 20 1.55 | −15 31.9 | 2.378 | 3.345 | 6.4 | 21.5 |
| 7 10 | 19 54.36 | −15 56.9 | 2.329 | 3.333 | 3.2 | 21.3 |
| 7 20 | 19 46.48 | −16 26.3 | 2.308 | 3.322 | 1.5 | 21.1 |
| 7 30 | 19 38.66 | −16 57.9 | 2.316 | 3.310 | 4.3 | 21.3 |
| 8 9 | 19 31.62 | −17 29.4 | 2.351 | 3.297 | 7.5 | 21.5 |
| 8 19 | 19 26.00 | −17 59.0 | 2.411 | 3.285 | 10.4 | 21.7 |

**150864** 2001 $SY_{147}$ 7 17.6 274.°65 3.°7/16.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 19.41 | −29 28.8 | 1.662 | 2.511 | 15.7 | 20.0 |
| 6 20 | 20 14.60 | −29 47.7 | 1.579 | 2.501 | 12.3 | 19.7 |
| 6 30 | 20 6.83 | −30 5.5 | 1.517 | 2.491 | 8.5 | 19.5 |
| 7 10 | 19 56.83 | −30 16.9 | 1.478 | 2.482 | 4.8 | 19.2 |
| 7 20 | 19 45.68 | −30 17.1 | 1.465 | 2.472 | 4.1 | 19.2 |
| 7 30 | 19 34.80 | −30 3.6 | 1.478 | 2.462 | 7.5 | 19.3 |
| 8 9 | 19 25.56 | −29 36.7 | 1.515 | 2.452 | 11.5 | 19.6 |
| 8 19 | 19 18.94 | −28 59.0 | 1.574 | 2.443 | 15.2 | 19.8 |

**1697** Koskenniemi 7 17.6 240.°47 2.°3/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.34 | −25 49.5 | 1.718 | 2.563 | 15.4 | 16.9 |
| 6 20 | 20 14.39 | −26 7.6 | 1.632 | 2.554 | 12.1 | 16.6 |
| 6 30 | 20 6.64 | −26 27.8 | 1.568 | 2.544 | 8.1 | 16.4 |
| 7 10 | 19 56.74 | −26 45.7 | 1.527 | 2.534 | 4.0 | 16.1 |
| 7 20 | 19 45.71 | −26 56.9 | 1.513 | 2.524 | 2.8 | 16.0 |
| 7 30 | 19 34.87 | −26 58.4 | 1.525 | 2.514 | 6.7 | 16.2 |
| 8 9 | 19 25.52 | −26 49.5 | 1.562 | 2.503 | 10.9 | 16.4 |
| 8 19 | 19 18.65 | −26 31.4 | 1.621 | 2.492 | 14.8 | 16.7 |

**141130** 2001 $XE_{90}$ 7 17.6 121.°54 4.°3/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.84 | − 9 11.8 | 2.201 | 3.006 | 13.8 | 20.0 |
| 6 20 | 20 8.45 | − 8 41.6 | 2.120 | 3.008 | 11.2 | 19.8 |
| 6 30 | 20 2.21 | − 8 21.8 | 2.060 | 3.010 | 8.3 | 19.6 |
| 7 10 | 19 54.63 | − 8 12.9 | 2.024 | 3.012 | 5.5 | 19.5 |
| 7 20 | 19 46.42 | − 8 14.6 | 2.015 | 3.015 | 4.3 | 19.4 |
| 7 30 | 19 38.38 | − 8 25.8 | 2.033 | 3.017 | 5.8 | 19.5 |
| 8 9 | 19 31.33 | − 8 44.3 | 2.078 | 3.019 | 8.6 | 19.7 |
| 8 19 | 19 25.90 | − 9 7.6 | 2.146 | 3.021 | 11.5 | 19.9 |

**23222** 2000 $VZ_{53}$ 7 17.6 239.°79 2.°1/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.06 | −14 57.1 | 2.205 | 3.021 | 13.4 | 18.6 |
| 6 20 | 20 11.15 | −14 45.6 | 2.104 | 3.006 | 10.7 | 18.4 |
| 6 30 | 20 4.14 | −14 41.3 | 2.026 | 2.991 | 7.4 | 18.1 |
| 7 10 | 19 55.56 | −14 43.6 | 1.973 | 2.975 | 4.0 | 17.9 |
| 7 20 | 19 46.10 | −14 51.2 | 1.947 | 2.959 | 2.2 | 17.8 |
| 7 30 | 19 36.68 | −15 2.3 | 1.950 | 2.942 | 5.1 | 17.9 |
| 8 9 | 19 28.23 | −15 15.2 | 1.979 | 2.924 | 8.7 | 18.1 |
| 8 19 | 19 21.51 | −15 28.4 | 2.033 | 2.906 | 12.1 | 18.3 |

**438919** 2010 $CB_{36}$ 7 17.6 218.°96 3.°1/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.19 | − 9 11.1 | 2.370 | 3.167 | 13.2 | 22.1 |
| 6 20 | 20 9.54 | − 9 27.9 | 2.271 | 3.158 | 10.6 | 22.0 |
| 6 30 | 20 3.00 | − 9 57.4 | 2.194 | 3.148 | 7.7 | 21.7 |
| 7 10 | 19 55.04 | −10 38.6 | 2.142 | 3.137 | 4.7 | 21.5 |
| 7 20 | 19 46.28 | −11 29.5 | 2.118 | 3.125 | 3.1 | 21.4 |
| 7 30 | 19 37.53 | −12 27.1 | 2.123 | 3.113 | 5.1 | 21.5 |
| 8 9 | 19 29.63 | −13 27.6 | 2.156 | 3.100 | 8.2 | 21.7 |
| 8 19 | 19 23.25 | −14 27.8 | 2.214 | 3.086 | 11.3 | 21.9 |

**2087** Kochera 7 17.6 243.°28 0.°5/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.28 | −20 9.7 | 1.433 | 2.285 | 17.5 | 16.6 |
| 6 20 | 20 13.19 | −20 33.4 | 1.354 | 2.280 | 13.7 | 16.3 |
| 6 30 | 20 6.05 | −21 6.3 | 1.296 | 2.275 | 9.1 | 16.1 |
| 7 10 | 19 56.55 | −21 44.4 | 1.260 | 2.269 | 4.0 | 15.7 |
| 7 20 | 19 45.78 | −22 22.6 | 1.248 | 2.264 | 1.5 | 15.6 |
| 7 30 | 19 35.20 | −22 55.9 | 1.262 | 2.258 | 6.8 | 15.9 |
| 8 9 | 19 26.26 | −23 21.4 | 1.300 | 2.252 | 11.8 | 16.1 |
| 8 19 | 19 20.04 | −23 37.9 | 1.360 | 2.246 | 16.1 | 16.4 |

**418971** 2009 $HQ_{62}$ 7 17.6 169.°86 1.°0/18.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.74 | −16 34.1 | 1.662 | 2.497 | 16.3 | 22.3 |
| 6 20 | 20 12.98 | −16 53.3 | 1.585 | 2.500 | 12.8 | 22.0 |
| 6 30 | 20 5.60 | −17 23.1 | 1.529 | 2.502 | 8.6 | 21.8 |
| 7 10 | 19 56.25 | −18 0.7 | 1.497 | 2.504 | 4.0 | 21.5 |
| 7 20 | 19 45.90 | −18 42.2 | 1.491 | 2.506 | 1.4 | 21.4 |
| 7 30 | 19 35.79 | −19 23.3 | 1.511 | 2.507 | 5.9 | 21.7 |
| 8 9 | 19 27.11 | −20 0.6 | 1.558 | 2.507 | 10.3 | 21.9 |
| 8 19 | 19 20.74 | −20 32.1 | 1.627 | 2.507 | 14.2 | 22.2 |

**344784** 2003 $XQ_{18}$ 7 17.6 274.°71 0.°5/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.69 | −22 26.8 | 2.015 | 2.851 | 13.8 | 20.8 |
| 6 20 | 20 11.97 | −22 25.1 | 1.914 | 2.831 | 10.8 | 20.5 |
| 6 30 | 20 4.88 | −22 26.4 | 1.835 | 2.810 | 7.2 | 20.3 |
| 7 10 | 19 55.95 | −22 28.2 | 1.780 | 2.789 | 3.2 | 20.0 |
| 7 20 | 19 45.99 | −22 28.0 | 1.753 | 2.768 | 1.2 | 19.8 |
| 7 30 | 19 36.08 | −22 24.0 | 1.753 | 2.746 | 5.5 | 20.1 |
| 8 9 | 19 27.30 | −22 15.0 | 1.779 | 2.725 | 9.5 | 20.3 |
| 8 19 | 19 20.51 | −22 1.5 | 1.829 | 2.703 | 13.2 | 20.4 |

**121285** 1999 $RB_{161}$ 7 17.6 286.°59 0.°9/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.10 | −22 31.1 | 2.268 | 3.105 | 12.5 | 20.3 |
| 6 20 | 20 8.96 | −22 49.3 | 2.166 | 3.084 | 9.7 | 20.1 |
| 6 30 | 20 2.75 | −23 11.6 | 2.087 | 3.063 | 6.5 | 19.8 |
| 7 10 | 19 54.98 | −23 35.3 | 2.033 | 3.042 | 2.9 | 19.6 |
| 7 20 | 19 46.32 | −23 57.5 | 2.007 | 3.021 | 1.4 | 19.4 |
| 7 30 | 19 37.67 | −24 15.4 | 2.008 | 3.000 | 5.1 | 19.6 |
| 8 9 | 19 29.95 | −24 27.3 | 2.036 | 2.979 | 8.7 | 19.8 |
| 8 19 | 19 23.94 | −24 32.8 | 2.088 | 2.958 | 11.9 | 20.0 |

**522798** 2016 $NM_{79}$ 7 17.6 270°.04 7°.5/21.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.83 | − 0 17.3 | 2.046 | 2.820 | 15.7 | 21.8 |
| 6 20 | 20 8.02 | + 0 15.1 | 1.949 | 2.804 | 13.5 | 21.6 |
| 6 30 | 20 2.16 | + 0 30.5 | 1.870 | 2.788 | 11.0 | 21.4 |
| 7 10 | 19 54.73 | + 0 26.3 | 1.813 | 2.771 | 8.7 | 21.2 |
| 7 20 | 19 46.39 | + 0 1.8 | 1.781 | 2.755 | 7.6 | 21.1 |
| 7 30 | 19 38.04 | − 0 42.0 | 1.775 | 2.738 | 8.3 | 21.1 |
| 8 9 | 19 30.61 | − 1 41.3 | 1.793 | 2.721 | 10.6 | 21.2 |
| 8 19 | 19 24.85 | − 2 51.3 | 1.835 | 2.704 | 13.4 | 21.4 |

**338822** 2003 $WK_{77}$ 7 17.6 218°.23 1°.7/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.81 | −24 33.5 | 2.324 | 3.156 | 12.3 | 22.1 |
| 6 20 | 20 10.92 | −25 2.5 | 2.234 | 3.149 | 9.6 | 21.9 |
| 6 30 | 20 3.97 | −25 34.4 | 2.167 | 3.142 | 6.4 | 21.7 |
| 7 10 | 19 55.47 | −26 5.7 | 2.126 | 3.134 | 3.0 | 21.4 |
| 7 20 | 19 46.17 | −26 32.9 | 2.114 | 3.125 | 2.1 | 21.3 |
| 7 30 | 19 36.98 | −26 53.4 | 2.129 | 3.117 | 5.2 | 21.5 |
| 8 9 | 19 28.82 | −27 5.6 | 2.172 | 3.107 | 8.6 | 21.7 |
| 8 19 | 19 22.41 | −27 9.5 | 2.238 | 3.098 | 11.6 | 21.9 |

**495628** 2015 $UH_{7}$ 7 17.6 324°.27 22°.4/29.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.50 | +18 42.3 | 1.092 | 1.826 | 28.7 | 21.2 |
| 6 20 | 20 7.80 | +20 49.7 | 1.032 | 1.818 | 27.2 | 21.0 |
| 6 30 | 20 2.85 | +22 17.5 | 0.982 | 1.811 | 25.5 | 20.8 |
| 7 10 | 19 55.29 | +22 53.7 | 0.943 | 1.804 | 23.9 | 20.7 |
| 7 20 | 19 46.20 | +22 29.1 | 0.917 | 1.797 | 22.8 | 20.6 |
| 7 30 | 19 37.15 | +21 0.3 | 0.904 | 1.791 | 22.4 | 20.5 |
| 8 9 | 19 29.81 | +18 33.9 | 0.907 | 1.786 | 22.9 | 20.5 |
| 8 19 | 19 25.43 | +15 23.5 | 0.925 | 1.782 | 24.2 | 20.6 |

**288895** 2004 $RJ_{296}$ 7 17.6 120°.58 0°.6/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.07 | −22 3.7 | 2.367 | 3.200 | 12.1 | 21.3 |
| 6 20 | 20 8.63 | −22 17.2 | 2.286 | 3.202 | 9.3 | 21.1 |
| 6 30 | 20 2.33 | −22 34.1 | 2.228 | 3.204 | 6.2 | 20.9 |
| 7 10 | 19 54.71 | −22 52.0 | 2.197 | 3.206 | 2.7 | 20.7 |
| 7 20 | 19 46.45 | −23 8.5 | 2.192 | 3.207 | 1.2 | 20.6 |
| 7 30 | 19 38.38 | −23 21.4 | 2.217 | 3.209 | 4.6 | 20.9 |
| 8 9 | 19 31.31 | −23 29.5 | 2.267 | 3.211 | 7.9 | 21.1 |
| 8 19 | 19 25.86 | −23 32.4 | 2.343 | 3.212 | 10.8 | 21.3 |

**265591** 2005 $QB_{176}$ 7 17.6 334°.11 5°.5/15.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.83 | −30 11.9 | 1.423 | 2.287 | 17.0 | 20.0 |
| 6 20 | 20 12.36 | −31 11.0 | 1.351 | 2.281 | 13.4 | 19.7 |
| 6 30 | 20 5.64 | −32 11.3 | 1.299 | 2.276 | 9.5 | 19.5 |
| 7 10 | 19 56.42 | −33 5.0 | 1.270 | 2.270 | 6.1 | 19.3 |
| 7 20 | 19 45.88 | −33 44.5 | 1.265 | 2.266 | 5.9 | 19.3 |
| 7 30 | 19 35.60 | −34 4.5 | 1.283 | 2.261 | 9.2 | 19.4 |
| 8 9 | 19 27.15 | −34 4.2 | 1.325 | 2.257 | 13.2 | 19.6 |
| 8 19 | 19 21.62 | −33 46.1 | 1.386 | 2.254 | 16.9 | 19.9 |

**138108** 2000 $DC_{102}$ 7 17.6 80°.81 5°.1/20.8 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.87 | − 3 49.8 | 1.977 | 2.769 | 15.6 | 19.5 |
| 6 20 | 20 7.93 | − 4 8.0 | 1.900 | 2.777 | 12.9 | 19.4 |
| 6 30 | 20 1.99 | − 4 44.8 | 1.843 | 2.784 | 9.8 | 19.2 |
| 7 10 | 19 54.60 | − 5 39.7 | 1.810 | 2.792 | 6.7 | 19.0 |
| 7 20 | 19 46.48 | − 6 50.3 | 1.803 | 2.799 | 5.1 | 18.9 |
| 7 30 | 19 38.55 | − 8 12.3 | 1.823 | 2.807 | 6.3 | 19.0 |
| 8 9 | 19 31.67 | − 9 40.0 | 1.869 | 2.815 | 9.2 | 19.2 |
| 8 19 | 19 26.53 | −11 8.1 | 1.940 | 2.822 | 12.2 | 19.4 |

**42386** 3552 $P–L$ 7 17.6 230°.35 6°.4/21.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.62 | + 1 33.3 | 2.922 | 3.663 | 12.2 | 19.5 |
| 6 20 | 20 6.39 | + 2 7.2 | 2.823 | 3.652 | 10.5 | 19.3 |
| 6 30 | 20 0.72 | + 2 28.3 | 2.745 | 3.641 | 8.7 | 19.2 |
| 7 10 | 19 53.98 | + 2 34.9 | 2.691 | 3.630 | 7.1 | 19.1 |
| 7 20 | 19 46.68 | + 2 26.5 | 2.662 | 3.618 | 6.4 | 19.0 |
| 7 30 | 19 39.41 | + 2 3.6 | 2.660 | 3.606 | 6.9 | 19.0 |
| 8 9 | 19 32.79 | + 1 28.3 | 2.685 | 3.593 | 8.3 | 19.1 |
| 8 19 | 19 27.32 | + 0 43.5 | 2.734 | 3.580 | 10.2 | 19.2 |

**38758** 2000 $RS_{2}$ 7 17.6 156°.95 4°.6/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 22.36 | −30 21.2 | 1.705 | 2.547 | 15.6 | 18.9 |
| 6 20 | 20 16.73 | −31 7.3 | 1.636 | 2.553 | 12.3 | 18.7 |
| 6 30 | 20 8.15 | −31 52.5 | 1.588 | 2.559 | 8.6 | 18.5 |
| 7 10 | 19 57.39 | −32 30.3 | 1.564 | 2.564 | 5.3 | 18.4 |
| 7 20 | 19 45.61 | −32 54.9 | 1.567 | 2.568 | 4.9 | 18.3 |
| 7 30 | 19 34.22 | −33 2.7 | 1.595 | 2.572 | 7.9 | 18.5 |
| 8 9 | 19 24.57 | −32 53.9 | 1.649 | 2.575 | 11.5 | 18.7 |
| 8 19 | 19 17.60 | −32 31.3 | 1.725 | 2.578 | 14.8 | 19.0 |

**75619** 2000 $AO_{42}$ 7 17.6 289°.31 2°.4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.89 | −25 33.0 | 1.484 | 2.340 | 16.8 | 18.8 |
| 6 20 | 20 13.92 | −25 48.3 | 1.390 | 2.317 | 13.3 | 18.5 |
| 6 30 | 20 6.75 | −26 6.7 | 1.315 | 2.295 | 9.0 | 18.2 |
| 7 10 | 19 56.98 | −26 23.5 | 1.264 | 2.272 | 4.4 | 17.9 |
| 7 20 | 19 45.68 | −26 33.6 | 1.236 | 2.249 | 3.0 | 17.7 |
| 7 30 | 19 34.37 | −26 33.2 | 1.234 | 2.226 | 7.5 | 17.9 |
| 8 9 | 19 24.64 | −26 21.1 | 1.256 | 2.203 | 12.5 | 18.2 |
| 8 19 | 19 17.71 | −25 58.7 | 1.298 | 2.181 | 16.9 | 18.4 |

**285825** 2001 $DA_{39}$ 7 17.6 147°.31 2°.5/18.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.95 | −11 58.5 | 2.101 | 2.916 | 14.1 | 21.0 |
| 6 20 | 20 9.45 | −12 11.7 | 2.022 | 2.922 | 11.2 | 20.8 |
| 6 30 | 20 2.96 | −12 36.3 | 1.965 | 2.927 | 7.8 | 20.7 |
| 7 10 | 19 55.02 | −13 10.9 | 1.932 | 2.932 | 4.4 | 20.5 |
| 7 20 | 19 46.37 | −13 53.0 | 1.927 | 2.937 | 2.5 | 20.3 |
| 7 30 | 19 37.90 | −14 39.4 | 1.949 | 2.942 | 5.1 | 20.5 |
| 8 9 | 19 30.48 | −15 26.7 | 1.998 | 2.946 | 8.5 | 20.7 |
| 8 19 | 19 24.80 | −16 12.0 | 2.072 | 2.950 | 11.7 | 20.9 |

**105247** 2000 $QH_{3}$ 7 17.6 296°.11 2°.1/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.67 | −15 3.5 | 1.344 | 2.198 | 18.4 | 19.5 |
| 6 20 | 20 10.65 | −15 9.7 | 1.257 | 2.181 | 14.7 | 19.2 |
| 6 30 | 20 4.57 | −15 30.2 | 1.188 | 2.164 | 10.2 | 18.9 |
| 7 10 | 19 56.02 | −16 3.5 | 1.141 | 2.148 | 5.2 | 18.6 |
| 7 20 | 19 46.02 | −16 46.1 | 1.117 | 2.132 | 2.3 | 18.3 |
| 7 30 | 19 35.99 | −17 33.1 | 1.118 | 2.116 | 7.0 | 18.6 |
| 8 9 | 19 27.47 | −18 19.5 | 1.141 | 2.100 | 12.2 | 18.8 |
| 8 19 | 19 21.63 | −19 1.6 | 1.185 | 2.084 | 17.0 | 19.1 |

**152409** 2005 $US_{323}$ 7 17.6 294°.29 2°.7/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.94 | −25 5.6 | 2.186 | 3.028 | 12.7 | 19.2 |
| 6 20 | 20 9.11 | −26 5.5 | 2.083 | 3.003 | 9.9 | 18.9 |
| 6 30 | 20 3.05 | −27 11.2 | 2.002 | 2.978 | 6.7 | 18.7 |
| 7 10 | 19 55.21 | −28 18.1 | 1.948 | 2.953 | 3.6 | 18.4 |
| 7 20 | 19 46.29 | −29 21.1 | 1.920 | 2.928 | 3.1 | 18.4 |
| 7 30 | 19 37.26 | −30 15.3 | 1.921 | 2.903 | 6.2 | 18.5 |
| 8 9 | 19 29.14 | −30 57.6 | 1.947 | 2.878 | 9.7 | 18.7 |
| 8 19 | 19 22.83 | −31 27.0 | 1.997 | 2.853 | 13.0 | 18.8 |

**62413** 2000 $SE_{179}$ 7 17.6 14°.67 7°.2/14.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.26 | −40 0.3 | 2.111 | 2.942 | 13.4 | 18.5 |
| 6 20 | 20 13.37 | −41 1.2 | 2.043 | 2.942 | 11.1 | 18.4 |
| 6 30 | 20 5.84 | −41 55.0 | 1.998 | 2.943 | 8.8 | 18.2 |
| 7 10 | 19 56.36 | −42 35.0 | 1.976 | 2.944 | 7.4 | 18.2 |
| 7 20 | 19 45.97 | −42 56.1 | 1.980 | 2.945 | 7.6 | 18.2 |
| 7 30 | 19 35.90 | −42 55.6 | 2.009 | 2.946 | 9.2 | 18.3 |
| 8 9 | 19 27.34 | −42 34.5 | 2.062 | 2.948 | 11.5 | 18.4 |
| 8 19 | 19 21.16 | −41 56.2 | 2.137 | 2.949 | 13.8 | 18.6 |

**343452** 2010 $EF_{35}$ 7 17.6 96°.16 2°.6/16.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.07 | −27 39.8 | 1.964 | 2.802 | 14.0 | 21.0 |
| 6 20 | 20 13.55 | −27 58.5 | 1.900 | 2.818 | 10.8 | 20.8 |
| 6 30 | 20 5.68 | −28 16.8 | 1.859 | 2.833 | 7.3 | 20.6 |
| 7 10 | 19 56.20 | −28 30.7 | 1.843 | 2.848 | 3.8 | 20.5 |
| 7 20 | 19 46.05 | −28 36.7 | 1.854 | 2.863 | 3.0 | 20.4 |
| 7 30 | 19 36.36 | −28 33.1 | 1.893 | 2.878 | 6.0 | 20.7 |
| 8 9 | 19 28.12 | −28 20.0 | 1.957 | 2.893 | 9.4 | 20.9 |
| 8 19 | 19 22.05 | −27 58.8 | 2.045 | 2.907 | 12.5 | 21.1 |

**372363** 2009 $HX_{93}$ 7 17.6 46°.30 1°.7/18.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.02 | −13 15.1 | 1.174 | 2.032 | 20.2 | 20.3 |
| 6 20 | 20 10.73 | −13 59.0 | 1.123 | 2.050 | 15.8 | 20.1 |
| 6 30 | 20 4.35 | −15 1.9 | 1.091 | 2.069 | 10.7 | 19.8 |
| 7 10 | 19 55.76 | −16 19.0 | 1.081 | 2.088 | 5.2 | 19.6 |
| 7 20 | 19 46.19 | −17 43.0 | 1.093 | 2.108 | 2.0 | 19.4 |
| 7 30 | 19 37.16 | −19 5.8 | 1.130 | 2.128 | 6.8 | 19.8 |
| 8 9 | 19 30.05 | −20 20.5 | 1.190 | 2.149 | 11.8 | 20.2 |
| 8 19 | 19 25.76 | −21 23.4 | 1.270 | 2.170 | 16.0 | 20.5 |

**412397** 2014 $AJ_{42}$ 7 17.6 144°.11 0°.7/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.78 | −19 30.9 | 2.305 | 3.126 | 12.8 | 21.6 |
| 6 20 | 20 12.16 | −19 16.4 | 2.227 | 3.135 | 9.9 | 21.5 |
| 6 30 | 20 4.61 | −19 5.5 | 2.172 | 3.143 | 6.6 | 21.3 |
| 7 10 | 19 55.71 | −18 56.9 | 2.144 | 3.151 | 3.0 | 21.1 |
| 7 20 | 19 46.23 | −18 49.2 | 2.143 | 3.158 | 1.1 | 20.9 |
| 7 30 | 19 37.03 | −18 41.4 | 2.172 | 3.165 | 4.6 | 21.2 |
| 8 9 | 19 28.94 | −18 32.6 | 2.228 | 3.172 | 8.0 | 21.4 |
| 8 19 | 19 22.61 | −18 22.8 | 2.309 | 3.178 | 11.0 | 21.6 |

**388894** 2008 $RV_{137}$ 7 17.6 260°.32 0°.3/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.61 | −19 46.8 | 2.054 | 2.885 | 13.8 | 21.9 |
| 6 20 | 20 11.88 | −19 49.6 | 1.952 | 2.865 | 10.8 | 21.6 |
| 6 30 | 20 4.83 | −19 57.8 | 1.871 | 2.845 | 7.3 | 21.4 |
| 7 10 | 19 55.98 | −20 9.3 | 1.816 | 2.824 | 3.3 | 21.1 |
| 7 20 | 19 46.11 | −20 21.6 | 1.787 | 2.803 | 1.0 | 20.9 |
| 7 30 | 19 36.24 | −20 32.3 | 1.787 | 2.781 | 5.3 | 21.1 |
| 8 9 | 19 27.42 | −20 39.8 | 1.813 | 2.759 | 9.3 | 21.3 |
| 8 19 | 19 20.52 | −20 43.3 | 1.863 | 2.736 | 13.0 | 21.5 |

**86288** 1999 $UC_{45}$ 7 17.6 330°.32 1°.8/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.57 | −27 16.3 | 1.830 | 2.677 | 14.5 | 17.4 |
| 6 20 | 20 12.04 | −26 59.4 | 1.741 | 2.664 | 11.4 | 17.1 |
| 6 30 | 20 4.96 | −26 40.6 | 1.674 | 2.651 | 7.7 | 16.9 |
| 7 10 | 19 56.01 | −26 17.0 | 1.631 | 2.639 | 3.7 | 16.6 |
| 7 20 | 19 46.13 | −25 46.5 | 1.614 | 2.627 | 2.2 | 16.5 |
| 7 30 | 19 36.51 | −25 8.4 | 1.624 | 2.616 | 6.0 | 16.7 |
| 8 9 | 19 28.30 | −24 23.6 | 1.660 | 2.606 | 10.1 | 16.9 |
| 8 19 | 19 22.33 | −23 34.5 | 1.719 | 2.596 | 13.7 | 17.1 |

**349315** 2007 $UP_{90}$ 7 17.6 180°.15 1°.4/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.40 | −23 58.5 | 2.529 | 3.357 | 11.6 | 22.4 |
| 6 20 | 20 10.37 | −24 24.6 | 2.445 | 3.358 | 8.9 | 22.2 |
| 6 30 | 20 3.49 | −24 53.2 | 2.385 | 3.359 | 5.9 | 22.0 |
| 7 10 | 19 55.26 | −25 21.4 | 2.352 | 3.359 | 2.8 | 21.8 |
| 7 20 | 19 46.37 | −25 46.3 | 2.346 | 3.359 | 1.7 | 21.7 |
| 7 30 | 19 37.64 | −26 5.4 | 2.370 | 3.358 | 4.7 | 21.9 |
| 8 9 | 19 29.88 | −26 17.5 | 2.421 | 3.357 | 7.8 | 22.1 |
| 8 19 | 19 23.71 | −26 22.5 | 2.497 | 3.355 | 10.6 | 22.3 |

**370341** 2002 $RK_{256}$ 7 17.6 301°.22 2°.3/16.8 13 C

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.05 | −23 52.7 | 1.409 | 2.271 | 17.2 | 21.3 |
| 6 20 | 20 11.96 | −24 23.7 | 1.312 | 2.243 | 13.6 | 21.0 |
| 6 30 | 20 5.64 | −25 2.0 | 1.234 | 2.215 | 9.2 | 20.7 |
| 7 10 | 19 56.61 | −25 42.8 | 1.178 | 2.187 | 4.4 | 20.3 |
| 7 20 | 19 45.87 | −26 19.9 | 1.146 | 2.159 | 3.0 | 20.2 |
| 7 30 | 19 34.95 | −26 47.6 | 1.139 | 2.132 | 7.8 | 20.4 |
| 8 9 | 19 25.51 | −27 2.6 | 1.154 | 2.104 | 13.1 | 20.6 |
| 8 19 | 19 18.90 | −27 4.7 | 1.190 | 2.077 | 17.8 | 20.8 |

**264808** 2002 $PY_{31}$ 7 17.6 297°.32 3°.5/19.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.44 | −11 28.5 | 1.456 | 2.297 | 17.9 | 20.7 |
| 6 20 | 20 9.51 | −11 33.5 | 1.361 | 2.275 | 14.5 | 20.4 |
| 6 30 | 20 3.75 | −11 55.3 | 1.285 | 2.254 | 10.4 | 20.1 |
| 7 10 | 19 55.68 | −12 33.9 | 1.230 | 2.232 | 6.0 | 19.8 |
| 7 20 | 19 46.20 | −13 26.9 | 1.200 | 2.211 | 3.6 | 19.6 |
| 7 30 | 19 36.59 | −14 29.4 | 1.193 | 2.189 | 7.0 | 19.7 |
| 8 9 | 19 28.26 | −15 35.9 | 1.211 | 2.168 | 11.8 | 19.9 |
| 8 19 | 19 22.35 | −16 40.8 | 1.250 | 2.148 | 16.4 | 20.1 |

**41840** 2000 $WS_{59}$ 7 17.6 112°.60 0°.2/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.95 | −18 20.1 | 2.030 | 2.860 | 13.9 | 19.2 |
| 6 20 | 20 11.04 | −18 46.5 | 1.962 | 2.875 | 10.8 | 19.0 |
| 6 30 | 20 4.03 | −19 20.3 | 1.916 | 2.889 | 7.2 | 18.8 |
| 7 10 | 19 55.52 | −19 58.3 | 1.895 | 2.903 | 3.2 | 18.6 |
| 7 20 | 19 46.33 | −20 37.1 | 1.902 | 2.917 | 1.0 | 18.5 |
| 7 30 | 19 37.43 | −21 13.5 | 1.936 | 2.930 | 4.9 | 18.8 |
| 8 9 | 19 29.74 | −21 44.9 | 1.997 | 2.943 | 8.6 | 19.0 |
| 8 19 | 19 23.94 | −22 10.2 | 2.083 | 2.956 | 11.8 | 19.3 |

**216214** 2006 $UE_{91}$ 7 17.6 33°.94 5°.2/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.16 | − 7 10.3 | 2.039 | 2.842 | 14.8 | 20.2 |
| 6 20 | 20 8.11 | − 6 35.2 | 1.960 | 2.845 | 12.2 | 20.1 |
| 6 30 | 20 2.10 | − 6 12.5 | 1.903 | 2.848 | 9.2 | 19.9 |
| 7 10 | 19 54.68 | − 6 3.4 | 1.868 | 2.851 | 6.5 | 19.7 |
| 7 20 | 19 46.59 | − 6 7.7 | 1.860 | 2.854 | 5.2 | 19.7 |
| 7 30 | 19 38.68 | − 6 24.1 | 1.878 | 2.858 | 6.6 | 19.7 |
| 8 9 | 19 31.82 | − 6 50.1 | 1.921 | 2.861 | 9.3 | 19.9 |
| 8 19 | 19 26.67 | − 7 22.3 | 1.988 | 2.865 | 12.2 | 20.1 |

**238195** 2003 $SG_{327}$ 7 17.6 291°.59 3°.8/16.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.93 | −29 10.2 | 1.821 | 2.668 | 14.6 | 21.0 |
| 6 20 | 20 12.42 | −29 45.5 | 1.744 | 2.665 | 11.4 | 20.7 |
| 6 30 | 20 5.28 | −30 20.8 | 1.688 | 2.662 | 7.9 | 20.5 |
| 7 10 | 19 56.19 | −30 51.0 | 1.656 | 2.659 | 4.6 | 20.3 |
| 7 20 | 19 46.12 | −31 11.2 | 1.651 | 2.655 | 4.1 | 20.3 |
| 7 30 | 19 36.31 | −31 18.2 | 1.671 | 2.652 | 7.1 | 20.5 |
| 8 9 | 19 27.95 | −31 11.5 | 1.717 | 2.649 | 10.7 | 20.7 |
| 8 19 | 19 21.91 | −30 52.9 | 1.785 | 2.646 | 14.0 | 20.9 |

**94105** 2000 $YX_{78}$ 7 17.6 254°.71 0°.7/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.41 | −18 25.6 | 1.952 | 2.785 | 14.3 | 20.0 |
| 6 20 | 20 10.98 | −18 30.1 | 1.859 | 2.773 | 11.2 | 19.8 |
| 6 30 | 20 4.23 | −18 41.5 | 1.787 | 2.761 | 7.6 | 19.5 |
| 7 10 | 19 55.72 | −18 57.8 | 1.740 | 2.748 | 3.5 | 19.2 |
| 7 20 | 19 46.26 | −19 16.3 | 1.720 | 2.735 | 1.2 | 19.0 |
| 7 30 | 19 36.87 | −19 34.6 | 1.727 | 2.722 | 5.3 | 19.3 |
| 8 9 | 19 28.61 | −19 50.4 | 1.761 | 2.709 | 9.4 | 19.5 |
| 8 19 | 19 22.31 | −20 2.6 | 1.817 | 2.696 | 13.0 | 19.7 |

**491752** 2012 $VZ_{72}$ 7 17.6 266°.19 0°.7/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.53 | −21 4.7 | 1.976 | 2.815 | 13.9 | 22.4 |
| 6 20 | 20 10.35 | −21 30.2 | 1.884 | 2.803 | 10.8 | 22.2 |
| 6 30 | 20 3.85 | −22 2.0 | 1.813 | 2.789 | 7.2 | 21.9 |
| 7 10 | 19 55.57 | −22 36.9 | 1.767 | 2.776 | 3.2 | 21.7 |
| 7 20 | 19 46.31 | −23 11.2 | 1.748 | 2.763 | 1.4 | 21.5 |
| 7 30 | 19 37.11 | −23 41.3 | 1.756 | 2.749 | 5.5 | 21.8 |
| 8 9 | 19 29.02 | −24 5.0 | 1.790 | 2.736 | 9.5 | 22.0 |
| 8 19 | 19 22.88 | −24 21.1 | 1.848 | 2.722 | 13.1 | 22.2 |

**70494** 1999 $TW_{66}$ 7 17.6 264°.43 0°.3/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.89 | −19 28.1 | 1.876 | 2.715 | 14.6 | 20.1 |
| 6 20 | 20 10.62 | −19 35.6 | 1.791 | 2.709 | 11.4 | 19.8 |
| 6 30 | 20 3.99 | −19 49.5 | 1.727 | 2.702 | 7.6 | 19.6 |
| 7 10 | 19 55.61 | −20 7.5 | 1.687 | 2.696 | 3.4 | 19.3 |
| 7 20 | 19 46.31 | −20 26.7 | 1.674 | 2.689 | 1.0 | 19.1 |
| 7 30 | 19 37.18 | −20 44.3 | 1.688 | 2.683 | 5.4 | 19.4 |
| 8 9 | 19 29.25 | −20 58.3 | 1.727 | 2.676 | 9.5 | 19.7 |
| 8 19 | 19 23.36 | −21 7.7 | 1.790 | 2.670 | 13.1 | 19.9 |

**97956** 2000 $QA_{135}$ 7 17.6 261°.06 0°.7/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.85 | −19 52.6 | 1.550 | 2.398 | 16.7 | 19.5 |
| 6 20 | 20 12.86 | −20 27.5 | 1.460 | 2.383 | 13.1 | 19.3 |
| 6 30 | 20 5.94 | −21 12.9 | 1.389 | 2.367 | 8.8 | 19.0 |
| 7 10 | 19 56.65 | −22 4.7 | 1.342 | 2.352 | 3.9 | 18.7 |
| 7 20 | 19 45.96 | −22 57.3 | 1.320 | 2.335 | 1.6 | 18.5 |
| 7 30 | 19 35.24 | −23 45.3 | 1.324 | 2.319 | 6.7 | 18.7 |
| 8 9 | 19 25.92 | −24 24.6 | 1.353 | 2.302 | 11.6 | 19.0 |
| 8 19 | 19 19.14 | −24 53.4 | 1.403 | 2.285 | 16.0 | 19.2 |

**423254** 2004 $TG_{206}$ 7 17.6 306°.47 5°.5/15.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.69 | −28 41.2 | 1.232 | 2.106 | 18.5 | 21.1 |
| 6 20 | 20 12.92 | −29 41.6 | 1.152 | 2.088 | 14.7 | 20.8 |
| 6 30 | 20 6.50 | −30 46.9 | 1.091 | 2.071 | 10.3 | 20.5 |
| 7 10 | 19 57.05 | −31 48.5 | 1.051 | 2.054 | 6.4 | 20.3 |
| 7 20 | 19 45.81 | −32 37.1 | 1.033 | 2.038 | 6.1 | 20.2 |
| 7 30 | 19 34.61 | −33 5.3 | 1.039 | 2.022 | 10.0 | 20.4 |
| 8 9 | 19 25.36 | −33 10.9 | 1.065 | 2.006 | 14.8 | 20.6 |
| 8 19 | 19 19.44 | −32 56.0 | 1.110 | 1.991 | 19.3 | 20.8 |

**398284** 2010 $UX_{69}$ 7 17.6 320°.62 5°.7/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.96 | −33 42.7 | 2.006 | 2.852 | 13.4 | 20.5 |
| 6 20 | 20 10.18 | −34 50.7 | 1.924 | 2.841 | 10.8 | 20.3 |
| 6 30 | 20 3.88 | −35 57.5 | 1.865 | 2.830 | 8.0 | 20.1 |
| 7 10 | 19 55.63 | −36 56.7 | 1.830 | 2.819 | 6.0 | 19.9 |
| 7 20 | 19 46.31 | −37 42.2 | 1.821 | 2.808 | 6.2 | 19.9 |
| 7 30 | 19 37.09 | −38 9.8 | 1.838 | 2.798 | 8.4 | 20.0 |
| 8 9 | 19 29.14 | −38 18.6 | 1.879 | 2.788 | 11.3 | 20.2 |
| 8 19 | 19 23.38 | −38 10.0 | 1.941 | 2.778 | 14.1 | 20.4 |

**48403** 1981 $EP_{41}$ 7 17.6 252°.05 1°.4/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.82 | −23 7.8 | 1.815 | 2.656 | 14.9 | 19.9 |
| 6 20 | 20 13.17 | −23 29.1 | 1.722 | 2.642 | 11.6 | 19.7 |
| 6 30 | 20 5.88 | −23 55.2 | 1.650 | 2.627 | 7.8 | 19.4 |
| 7 10 | 19 56.53 | −24 22.4 | 1.603 | 2.611 | 3.6 | 19.1 |
| 7 20 | 19 46.03 | −24 46.4 | 1.582 | 2.596 | 1.9 | 19.0 |
| 7 30 | 19 35.58 | −25 3.7 | 1.588 | 2.579 | 6.2 | 19.2 |
| 8 9 | 19 26.43 | −25 12.6 | 1.619 | 2.563 | 10.4 | 19.5 |
| 8 19 | 19 19.52 | −25 13.0 | 1.674 | 2.546 | 14.3 | 19.7 |

**235722** 2004 $TJ_{164}$ 7 17.6 243°.65 0°.9/17.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.59 | −21 32.4 | 1.957 | 2.796 | 14.1 | 21.2 |
| 6 20 | 20 11.17 | −21 58.5 | 1.868 | 2.787 | 10.9 | 21.0 |
| 6 30 | 20 4.39 | −22 30.4 | 1.801 | 2.777 | 7.3 | 20.7 |
| 7 10 | 19 55.82 | −23 4.8 | 1.759 | 2.768 | 3.2 | 20.5 |
| 7 20 | 19 46.28 | −23 38.0 | 1.743 | 2.758 | 1.5 | 20.3 |
| 7 30 | 19 36.84 | −24 6.3 | 1.755 | 2.748 | 5.6 | 20.6 |
| 8 9 | 19 28.57 | −24 27.5 | 1.793 | 2.738 | 9.6 | 20.8 |
| 8 19 | 19 22.30 | −24 40.9 | 1.855 | 2.727 | 13.1 | 21.0 |

**250070** 2002 $EO_{82}$ 7 17.6 20°.44 4°.0/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.86 | −31 45.9 | 2.187 | 3.026 | 12.7 | 20.5 |
| 6 20 | 20 11.14 | −32 16.5 | 2.112 | 3.027 | 10.0 | 20.3 |
| 6 30 | 20 4.20 | −32 44.7 | 2.060 | 3.028 | 7.1 | 20.1 |
| 7 10 | 19 55.65 | −33 6.1 | 2.032 | 3.030 | 4.6 | 19.9 |
| 7 20 | 19 46.37 | −33 17.0 | 2.032 | 3.031 | 4.3 | 19.9 |
| 7 30 | 19 37.36 | −33 15.2 | 2.058 | 3.032 | 6.6 | 20.1 |
| 8 9 | 19 29.60 | −33 0.8 | 2.110 | 3.034 | 9.5 | 20.3 |
| 8 19 | 19 23.82 | −32 35.5 | 2.186 | 3.036 | 12.3 | 20.4 |

**191135** 2002 $GG_{43}$ 7 17.6 219°.60 1°.3/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.30 | −16 32.3 | 2.048 | 2.874 | 14.0 | 20.8 |
| 6 20 | 20 10.71 | −16 37.3 | 1.959 | 2.868 | 11.0 | 20.6 |
| 6 30 | 20 3.96 | −16 50.2 | 1.892 | 2.862 | 7.5 | 20.4 |
| 7 10 | 19 55.59 | −17 9.4 | 1.850 | 2.856 | 3.6 | 20.2 |
| 7 20 | 19 46.37 | −17 32.4 | 1.835 | 2.849 | 1.5 | 20.0 |
| 7 30 | 19 37.27 | −17 56.7 | 1.848 | 2.842 | 5.1 | 20.2 |
| 8 9 | 19 29.26 | −18 19.9 | 1.887 | 2.835 | 8.9 | 20.4 |
| 8 19 | 19 23.09 | −18 40.4 | 1.950 | 2.827 | 12.3 | 20.6 |

**164407** 2005 $YB_{207}$ 7 17.6 59°.88 1°.4/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.36 | −23 29.6 | 1.268 | 2.130 | 18.8 | 19.6 |
| 6 20 | 20 14.96 | −23 36.5 | 1.207 | 2.137 | 14.6 | 19.4 |
| 6 30 | 20 7.25 | −23 48.0 | 1.164 | 2.145 | 9.7 | 19.1 |
| 7 10 | 19 57.13 | −23 59.3 | 1.143 | 2.152 | 4.3 | 18.8 |
| 7 20 | 19 45.91 | −24 6.2 | 1.146 | 2.160 | 2.1 | 18.7 |
| 7 30 | 19 35.25 | −24 5.5 | 1.173 | 2.168 | 7.2 | 19.1 |
| 8 9 | 19 26.64 | −23 56.7 | 1.224 | 2.176 | 12.2 | 19.4 |
| 8 19 | 19 21.06 | −23 40.9 | 1.295 | 2.185 | 16.5 | 19.6 |

**442940** 2013 $CZ_{74}$ 7 17.6 150°.41 0°.6/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.86 | −19 50.4 | 2.302 | 3.134 | 12.4 | 21.6 |
| 6 20 | 20 8.60 | −20 31.8 | 2.221 | 3.136 | 9.6 | 21.4 |
| 6 30 | 20 2.44 | −21 19.8 | 2.163 | 3.138 | 6.3 | 21.2 |
| 7 10 | 19 54.88 | −22 11.2 | 2.132 | 3.140 | 2.8 | 21.0 |
| 7 20 | 19 46.61 | −23 2.3 | 2.128 | 3.143 | 1.2 | 20.9 |
| 7 30 | 19 38.46 | −23 49.5 | 2.152 | 3.144 | 4.7 | 21.2 |
| 8 9 | 19 31.28 | −24 30.2 | 2.204 | 3.146 | 8.1 | 21.4 |
| 8 19 | 19 25.74 | −25 3.1 | 2.280 | 3.148 | 11.1 | 21.6 |

**168206** 2006 $JH_{29}$ 7 17.6 353°.95 2°.5/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.08 | −23 39.2 | 1.417 | 2.286 | 16.8 | 19.7 |
| 6 20 | 20 8.47 | −24 23.8 | 1.346 | 2.281 | 13.0 | 19.5 |
| 6 30 | 20 2.98 | −25 15.4 | 1.294 | 2.277 | 8.7 | 19.2 |
| 7 10 | 19 55.29 | −26 8.5 | 1.265 | 2.274 | 4.2 | 19.0 |
| 7 20 | 19 46.46 | −26 56.8 | 1.259 | 2.272 | 3.0 | 18.9 |
| 7 30 | 19 37.86 | −27 34.9 | 1.278 | 2.270 | 7.3 | 19.1 |
| 8 9 | 19 30.86 | −28 0.0 | 1.321 | 2.270 | 11.8 | 19.4 |
| 8 19 | 19 26.42 | −28 11.7 | 1.383 | 2.271 | 15.8 | 19.6 |

**323271** 2003 $SW_{363}$ 7 17.6 196°.61 1°.3/17.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.23 | −23 43.3 | 1.620 | 2.465 | 16.2 | 21.7 |
| 6 20 | 20 15.13 | −23 50.4 | 1.542 | 2.464 | 12.6 | 21.4 |
| 6 30 | 20 7.16 | −24 0.8 | 1.485 | 2.462 | 8.4 | 21.2 |
| 7 10 | 19 57.07 | −24 10.6 | 1.451 | 2.460 | 3.8 | 20.9 |
| 7 20 | 19 45.92 | −24 16.2 | 1.444 | 2.458 | 1.9 | 20.8 |
| 7 30 | 19 35.08 | −24 14.8 | 1.463 | 2.455 | 6.4 | 21.1 |
| 8 9 | 19 25.86 | −24 5.9 | 1.506 | 2.453 | 10.9 | 21.3 |
| 8 19 | 19 19.18 | −23 50.4 | 1.573 | 2.449 | 14.8 | 21.6 |

**393193** 2013 $CQ_{148}$ 7 17.6 27°.54 3°.6/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.59 | −24 26.7 | 1.751 | 2.605 | 14.8 | 19.7 |
| 6 20 | 20 9.10 | −26 4.1 | 1.687 | 2.615 | 11.4 | 19.5 |
| 6 30 | 20 3.13 | −27 48.4 | 1.646 | 2.625 | 7.6 | 19.3 |
| 7 10 | 19 55.28 | −29 32.0 | 1.631 | 2.636 | 4.3 | 19.1 |
| 7 20 | 19 46.48 | −31 7.1 | 1.642 | 2.647 | 4.1 | 19.2 |
| 7 30 | 19 37.88 | −32 27.3 | 1.680 | 2.659 | 7.3 | 19.4 |
| 8 9 | 19 30.62 | −33 29.2 | 1.743 | 2.672 | 10.8 | 19.6 |
| 8 19 | 19 25.55 | −34 12.2 | 1.828 | 2.685 | 14.0 | 19.9 |

**371633** 2007 $AY_{18}$ 7 17.6 179°.01 0°.6/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.11 | −17 36.6 | 2.041 | 2.866 | 14.0 | 21.7 |
| 6 20 | 20 12.08 | −17 54.5 | 1.958 | 2.868 | 11.0 | 21.5 |
| 6 30 | 20 4.84 | −18 20.3 | 1.898 | 2.869 | 7.4 | 21.3 |
| 7 10 | 19 55.97 | −18 51.4 | 1.862 | 2.870 | 3.4 | 21.1 |
| 7 20 | 19 46.28 | −19 24.7 | 1.854 | 2.870 | 1.1 | 20.9 |
| 7 30 | 19 36.76 | −19 57.0 | 1.875 | 2.869 | 5.1 | 21.2 |
| 8 9 | 19 28.39 | −20 25.8 | 1.922 | 2.868 | 8.9 | 21.4 |
| 8 19 | 19 21.94 | −20 49.7 | 1.993 | 2.866 | 12.3 | 21.6 |

**91649** 1999 $TE_{99}$ 7 17.6 283°.88 2°.0/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.67 | −24 17.5 | 2.263 | 3.102 | 12.4 | 19.2 |
| 6 20 | 20 8.67 | −24 59.8 | 2.171 | 3.091 | 9.6 | 19.0 |
| 6 30 | 20 2.62 | −25 46.2 | 2.103 | 3.079 | 6.4 | 18.7 |
| 7 10 | 19 55.02 | −26 33.1 | 2.061 | 3.068 | 3.1 | 18.5 |
| 7 20 | 19 46.57 | −27 16.4 | 2.046 | 3.056 | 2.4 | 18.4 |
| 7 30 | 19 38.17 | −27 52.6 | 2.058 | 3.045 | 5.4 | 18.6 |
| 8 9 | 19 30.74 | −28 19.6 | 2.097 | 3.034 | 8.8 | 18.8 |
| 8 19 | 19 25.03 | −28 36.7 | 2.160 | 3.022 | 11.9 | 19.0 |

**308984** 2006 $TB_{130}$ 7 17.6 148°.34 3°.6/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.42 | −31 21.3 | 2.814 | 3.641 | 10.5 | 21.6 |
| 6 20 | 20 10.34 | −32 14.6 | 2.741 | 3.649 | 8.3 | 21.5 |
| 6 30 | 20 3.46 | −33 6.7 | 2.692 | 3.657 | 5.9 | 21.3 |
| 7 10 | 19 55.29 | −33 53.4 | 2.671 | 3.665 | 3.9 | 21.2 |
| 7 20 | 19 46.50 | −34 31.3 | 2.678 | 3.672 | 3.9 | 21.2 |
| 7 30 | 19 37.87 | −34 57.8 | 2.713 | 3.679 | 5.7 | 21.4 |
| 8 9 | 19 30.18 | −35 12.1 | 2.776 | 3.685 | 8.0 | 21.5 |
| 8 19 | 19 24.03 | −35 15.0 | 2.862 | 3.691 | 10.3 | 21.7 |

**455090** 2015 $UL_{67}$ 7 17.6 164°.17 8°.9/18.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 26.23 | − 8 1.1 | 1.319 | 2.132 | 20.9 | 20.8 |
| 6 20 | 20 20.02 | − 6 5.4 | 1.248 | 2.136 | 17.4 | 20.5 |
| 6 30 | 20 10.53 | − 4 20.7 | 1.195 | 2.140 | 13.5 | 20.3 |
| 7 10 | 19 58.59 | − 2 52.7 | 1.165 | 2.143 | 10.1 | 20.1 |
| 7 20 | 19 45.47 | − 1 46.5 | 1.159 | 2.145 | 8.9 | 20.1 |
| 7 30 | 19 32.76 | − 1 4.9 | 1.178 | 2.147 | 10.9 | 20.2 |
| 8 9 | 19 21.97 | − 0 46.8 | 1.220 | 2.148 | 14.5 | 20.4 |
| 8 19 | 19 14.17 | − 0 48.2 | 1.282 | 2.149 | 18.1 | 20.6 |

**148047** 1998 $SN_{72}$ 7 17.6 290°.81 2°.9/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.14 | −25 13.5 | 1.541 | 2.397 | 16.3 | 19.7 |
| 6 20 | 20 12.51 | −25 51.6 | 1.448 | 2.376 | 12.8 | 19.4 |
| 6 30 | 20 5.83 | −26 35.5 | 1.374 | 2.354 | 8.7 | 19.1 |
| 7 10 | 19 56.67 | −27 19.7 | 1.324 | 2.332 | 4.4 | 18.8 |
| 7 20 | 19 46.02 | −27 58.1 | 1.299 | 2.310 | 3.4 | 18.7 |
| 7 30 | 19 35.31 | −28 25.3 | 1.299 | 2.288 | 7.6 | 18.9 |
| 8 9 | 19 26.06 | −28 38.8 | 1.323 | 2.266 | 12.3 | 19.1 |
| 8 19 | 19 19.45 | −28 38.8 | 1.367 | 2.245 | 16.5 | 19.3 |

**276623** 2003 $UG_{136}$ 7 17.6 219°.75 3°.6/19.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.72 | −10 58.3 | 1.851 | 2.665 | 15.7 | 22.0 |
| 6 20 | 20 12.05 | −10 50.1 | 1.760 | 2.657 | 12.7 | 21.8 |
| 6 30 | 20 4.99 | −10 54.4 | 1.689 | 2.649 | 9.1 | 21.6 |
| 7 10 | 19 56.12 | −11 10.9 | 1.643 | 2.640 | 5.5 | 21.3 |
| 7 20 | 19 46.24 | −11 38.0 | 1.623 | 2.630 | 3.6 | 21.2 |
| 7 30 | 19 36.43 | −12 13.0 | 1.629 | 2.620 | 6.1 | 21.3 |
| 8 9 | 19 27.77 | −12 52.6 | 1.662 | 2.609 | 10.0 | 21.5 |
| 8 19 | 19 21.13 | −13 33.4 | 1.718 | 2.598 | 13.6 | 21.7 |

**443610** 2014 $LZ_{10}$ 7 17.6 341°.42 3°.4/15.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.51 | −26 42.5 | 1.985 | 2.834 | 13.5 | 20.5 |
| 6 20 | 20 8.87 | −27 49.6 | 1.906 | 2.830 | 10.5 | 20.3 |
| 6 30 | 20 2.92 | −29 0.6 | 1.850 | 2.826 | 7.1 | 20.1 |
| 7 10 | 19 55.21 | −30 10.0 | 1.819 | 2.822 | 4.1 | 19.9 |
| 7 20 | 19 46.55 | −31 12.2 | 1.814 | 2.819 | 3.9 | 19.9 |
| 7 30 | 19 37.99 | −32 2.2 | 1.836 | 2.816 | 6.8 | 20.1 |
| 8 9 | 19 30.60 | −32 37.8 | 1.884 | 2.813 | 10.1 | 20.3 |
| 8 19 | 19 25.20 | −32 58.7 | 1.954 | 2.810 | 13.2 | 20.5 |

**219710** 2001 $XW_{50}$ 7 17.6 249°.98 0°.4/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.81 | −18 55.5 | 1.811 | 2.649 | 15.0 | 21.1 |
| 6 20 | 20 11.47 | −19 6.6 | 1.723 | 2.640 | 11.8 | 20.9 |
| 6 30 | 20 4.68 | −19 25.2 | 1.656 | 2.631 | 7.9 | 20.7 |
| 7 10 | 19 56.00 | −19 48.8 | 1.613 | 2.622 | 3.6 | 20.4 |
| 7 20 | 19 46.32 | −20 14.2 | 1.597 | 2.613 | 1.1 | 20.2 |
| 7 30 | 19 36.74 | −20 38.2 | 1.608 | 2.603 | 5.6 | 20.5 |
| 8 9 | 19 28.41 | −20 58.3 | 1.644 | 2.593 | 9.9 | 20.7 |
| 8 19 | 19 22.20 | −21 13.4 | 1.703 | 2.583 | 13.7 | 20.9 |

**333465** 2004 $QN_{27}$ 7 17.6 57°.28 1°.9/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 22.26 | −27 20.8 | 1.584 | 2.429 | 16.5 | 20.0 |
| 6 20 | 20 16.54 | −27 0.3 | 1.516 | 2.438 | 12.8 | 19.8 |
| 6 30 | 20 7.94 | −26 37.7 | 1.469 | 2.446 | 8.6 | 19.6 |
| 7 10 | 19 57.35 | −26 9.7 | 1.447 | 2.454 | 4.1 | 19.3 |
| 7 20 | 19 45.95 | −25 34.4 | 1.450 | 2.463 | 2.3 | 19.2 |
| 7 30 | 19 35.16 | −24 51.4 | 1.480 | 2.472 | 6.4 | 19.5 |
| 8 9 | 19 26.21 | −24 2.7 | 1.535 | 2.481 | 10.7 | 19.8 |
| 8 19 | 19 19.93 | −23 11.1 | 1.613 | 2.490 | 14.5 | 20.0 |

**255426** 2005 $XS_{71}$ 7 17.6 89°.55 1°.0/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.20 | −23 7.7 | 2.355 | 3.190 | 12.1 | 20.7 |
| 6 20 | 20 8.82 | −23 26.1 | 2.275 | 3.192 | 9.3 | 20.5 |
| 6 30 | 20 2.55 | −23 47.6 | 2.219 | 3.194 | 6.2 | 20.3 |
| 7 10 | 19 54.93 | −24 9.3 | 2.188 | 3.196 | 2.8 | 20.1 |
| 7 20 | 19 46.68 | −24 28.6 | 2.185 | 3.199 | 1.5 | 20.0 |
| 7 30 | 19 38.61 | −24 43.2 | 2.210 | 3.201 | 4.7 | 20.3 |
| 8 9 | 19 31.55 | −24 51.9 | 2.261 | 3.203 | 8.0 | 20.5 |
| 8 19 | 19 26.13 | −24 54.5 | 2.337 | 3.205 | 10.9 | 20.7 |

**307170** 2002 $EE_{28}$ 7 17.6 176°.21 4°.8/21.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.89 | − 0 47.7 | 3.262 | 4.008 | 10.9 | 22.4 |
| 6 20 | 20 6.42 | − 0 39.5 | 3.171 | 4.010 | 9.2 | 22.2 |
| 6 30 | 20 0.68 | − 0 43.1 | 3.102 | 4.012 | 7.4 | 22.1 |
| 7 10 | 19 54.05 | − 0 58.8 | 3.058 | 4.014 | 5.7 | 22.0 |
| 7 20 | 19 46.96 | − 1 26.3 | 3.042 | 4.015 | 4.8 | 21.9 |
| 7 30 | 19 39.96 | − 2 4.3 | 3.054 | 4.015 | 5.4 | 22.0 |
| 8 9 | 19 33.57 | − 2 50.3 | 3.094 | 4.015 | 6.9 | 22.1 |
| 8 19 | 19 28.24 | − 3 41.9 | 3.160 | 4.014 | 8.7 | 22.2 |

**123352** 2000 $WU_{3}$ 7 17.6 140°.39 0°.9/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.81 | −19 24.3 | 1.994 | 2.821 | 14.3 | 20.0 |
| 6 20 | 20 13.31 | −19 4.6 | 1.917 | 2.828 | 11.1 | 19.8 |
| 6 30 | 20 5.59 | −18 49.1 | 1.862 | 2.834 | 7.5 | 19.6 |
| 7 10 | 19 56.29 | −18 36.4 | 1.833 | 2.840 | 3.5 | 19.3 |
| 7 20 | 19 46.29 | −18 25.1 | 1.831 | 2.846 | 1.3 | 19.2 |
| 7 30 | 19 36.61 | −18 14.0 | 1.857 | 2.851 | 5.1 | 19.4 |
| 8 9 | 19 28.22 | −18 2.6 | 1.910 | 2.856 | 8.9 | 19.7 |
| 8 19 | 19 21.84 | −17 50.6 | 1.987 | 2.861 | 12.3 | 19.9 |

**326142** 2012 $BW_{47}$ 7 17.6 227°.52 3°.6/20.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.45 | − 6 12.1 | 2.777 | 3.561 | 11.8 | 20.9 |
| 6 20 | 20 6.41 | − 6 24.5 | 2.679 | 3.553 | 9.6 | 20.7 |
| 6 30 | 20 0.85 | − 6 49.0 | 2.604 | 3.545 | 7.2 | 20.6 |
| 7 10 | 19 54.19 | − 7 25.2 | 2.553 | 3.537 | 4.9 | 20.4 |
| 7 20 | 19 46.92 | − 8 11.8 | 2.531 | 3.529 | 3.6 | 20.3 |
| 7 30 | 19 39.70 | − 9 6.5 | 2.537 | 3.520 | 4.8 | 20.4 |
| 8 9 | 19 33.15 | −10 6.1 | 2.571 | 3.512 | 7.2 | 20.5 |
| 8 19 | 19 27.83 | −11 7.5 | 2.630 | 3.502 | 9.7 | 20.7 |

**394295** 2006 $VZ_{58}$ 7 17.6 270°.03 3°.7/15.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.52 | −28 41.3 | 2.155 | 2.997 | 12.8 | 21.0 |
| 6 20 | 20 10.29 | −29 38.4 | 2.072 | 2.990 | 10.0 | 20.8 |
| 6 30 | 20 3.80 | −30 37.2 | 2.011 | 2.984 | 6.9 | 20.6 |
| 7 10 | 19 55.59 | −31 32.6 | 1.976 | 2.977 | 4.3 | 20.4 |
| 7 20 | 19 46.48 | −32 19.6 | 1.968 | 2.970 | 4.1 | 20.4 |
| 7 30 | 19 37.45 | −32 54.3 | 1.988 | 2.963 | 6.6 | 20.6 |
| 8 9 | 19 29.55 | −33 15.0 | 2.033 | 2.957 | 9.8 | 20.7 |
| 8 19 | 19 23.57 | −33 22.3 | 2.101 | 2.950 | 12.7 | 20.9 |

**193499** 2000 $YL_{20}$ 7 17.6 193°.46 2°.2/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.29 | −15 40.7 | 2.149 | 2.966 | 13.7 | 20.1 |
| 6 20 | 20 12.05 | −15 15.9 | 2.062 | 2.965 | 10.8 | 19.9 |
| 6 30 | 20 4.75 | −14 57.2 | 1.998 | 2.963 | 7.5 | 19.7 |
| 7 10 | 19 55.94 | −14 44.1 | 1.958 | 2.961 | 4.0 | 19.5 |
| 7 20 | 19 46.39 | −14 35.8 | 1.947 | 2.958 | 2.3 | 19.4 |
| 7 30 | 19 37.04 | −14 31.3 | 1.963 | 2.955 | 5.1 | 19.5 |
| 8 9 | 19 28.78 | −14 29.3 | 2.007 | 2.952 | 8.6 | 19.8 |
| 8 19 | 19 22.33 | −14 28.8 | 2.075 | 2.948 | 11.9 | 20.0 |

**43019** 1999 $VG_3$ 7 17.6 202°.13 0°.4/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.23 | −18 26.4 | 2.748 | 3.569 | 11.0 | 19.5 |
| 6 20 | 20 7.80 | −18 40.2 | 2.658 | 3.566 | 8.5 | 19.4 |
| 6 30 | 20 1.77 | −18 59.1 | 2.591 | 3.562 | 5.7 | 19.2 |
| 7 10 | 19 54.58 | −19 21.4 | 2.551 | 3.559 | 2.6 | 19.0 |
| 7 20 | 19 46.81 | −19 45.1 | 2.540 | 3.555 | 0.8 | 18.8 |
| 7 30 | 19 39.14 | −20 8.1 | 2.557 | 3.551 | 3.9 | 19.1 |
| 8 9 | 19 32.26 | −20 28.8 | 2.602 | 3.547 | 7.0 | 19.2 |
| 8 19 | 19 26.73 | −20 46.1 | 2.673 | 3.542 | 9.7 | 19.4 |

**519697** 2013 $AG_{187}$ 7 17.6 156°.31 3°.6/20.1 14 C

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.82 | − 6 53.0 | 2.496 | 3.286 | 12.8 | 22.1 |
| 6 20 | 20 7.56 | − 7 10.4 | 2.411 | 3.290 | 10.4 | 22.0 |
| 6 30 | 20 1.65 | − 7 40.8 | 2.348 | 3.294 | 7.7 | 21.8 |
| 7 10 | 19 54.54 | − 8 23.5 | 2.310 | 3.298 | 5.0 | 21.6 |
| 7 20 | 19 46.83 | − 9 16.6 | 2.300 | 3.301 | 3.6 | 21.5 |
| 7 30 | 19 39.24 | −10 17.1 | 2.318 | 3.304 | 5.0 | 21.6 |
| 8 9 | 19 32.47 | −11 21.4 | 2.364 | 3.307 | 7.6 | 21.8 |
| 8 19 | 19 27.09 | −12 25.9 | 2.435 | 3.310 | 10.3 | 22.0 |

**135634** 2002 $JP_{84}$ 7 17.6 5°.89 6°.1/19.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.93 | −10 35.1 | 1.184 | 2.037 | 20.5 | 19.4 |
| 6 20 | 20 10.05 | − 9 42.6 | 1.119 | 2.037 | 16.6 | 19.2 |
| 6 30 | 20 4.09 | − 9 5.5 | 1.071 | 2.037 | 12.3 | 18.9 |
| 7 10 | 19 55.83 | − 8 46.1 | 1.043 | 2.038 | 8.0 | 18.7 |
| 7 20 | 19 46.43 | − 8 44.7 | 1.036 | 2.041 | 6.1 | 18.6 |
| 7 30 | 19 37.37 | − 8 59.5 | 1.052 | 2.044 | 8.6 | 18.8 |
| 8 9 | 19 30.08 | − 9 26.3 | 1.090 | 2.048 | 12.8 | 19.0 |
| 8 19 | 19 25.56 | −10 0.3 | 1.148 | 2.052 | 17.0 | 19.3 |

**523656** 2011 $WO_4$ 7 17.6 255°.33 25°.3/10.0 18 C

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 45.42 | +58 25.2 | 2.185 | 2.370 | 25.3 | 23.9 |
| 6 20 | 20 39.16 | +61 54.7 | 2.129 | 2.336 | 25.8 | 23.9 |
| 6 30 | 20 26.86 | +64 58.0 | 2.075 | 2.300 | 26.2 | 23.8 |
| 7 10 | 20 7.72 | +67 24.3 | 2.022 | 2.262 | 26.7 | 23.7 |
| 7 20 | 19 42.14 | +69 2.2 | 1.970 | 2.221 | 27.2 | 23.6 |
| 7 30 | 19 12.83 | +69 41.8 | 1.917 | 2.177 | 27.8 | 23.5 |
| 8 9 | 18 44.51 | +69 20.6 | 1.863 | 2.132 | 28.4 | 23.4 |
| 8 19 | 18 21.74 | +68 3.8 | 1.807 | 2.083 | 29.1 | 23.4 |

**145829** 1998 $VC_{42}$ 7 17.6 231°.49 0°.7/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.50 | −18 5.0 | 2.041 | 2.866 | 14.0 | 21.5 |
| 6 20 | 20 12.56 | −18 13.8 | 1.944 | 2.854 | 11.0 | 21.3 |
| 6 30 | 20 5.31 | −18 29.6 | 1.869 | 2.841 | 7.4 | 21.1 |
| 7 10 | 19 56.29 | −18 50.5 | 1.819 | 2.827 | 3.5 | 20.8 |
| 7 20 | 19 46.28 | −19 13.7 | 1.797 | 2.812 | 1.1 | 20.6 |
| 7 30 | 19 36.31 | −19 36.4 | 1.803 | 2.797 | 5.2 | 20.8 |
| 8 9 | 19 27.43 | −19 56.4 | 1.835 | 2.781 | 9.2 | 21.1 |
| 8 19 | 19 20.47 | −20 12.4 | 1.891 | 2.765 | 12.8 | 21.2 |

**380745** 2005 $SW_{114}$ 7 17.6 330°.02 1°.1/17.3 14 C

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.90 | −22 23.6 | 1.204 | 2.081 | 18.6 | 20.8 |
| 6 20 | 20 8.97 | −22 32.0 | 1.121 | 2.061 | 14.6 | 20.5 |
| 6 30 | 20 3.74 | −22 47.3 | 1.056 | 2.041 | 9.8 | 20.2 |
| 7 10 | 19 55.85 | −23 5.9 | 1.012 | 2.023 | 4.4 | 19.8 |
| 7 20 | 19 46.41 | −23 23.0 | 0.991 | 2.006 | 1.9 | 19.6 |
| 7 30 | 19 37.04 | −23 34.4 | 0.992 | 1.990 | 7.6 | 19.9 |
| 8 9 | 19 29.41 | −23 37.3 | 1.014 | 1.975 | 13.1 | 20.2 |
| 8 19 | 19 24.76 | −23 31.7 | 1.055 | 1.961 | 18.0 | 20.4 |

**100286** 1995 $CY_4$ 7 17.6 339°.09 0°.7/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.02 | −18 26.3 | 1.729 | 2.574 | 15.3 | 19.8 |
| 6 20 | 20 9.35 | −18 29.9 | 1.648 | 2.569 | 12.0 | 19.6 |
| 6 30 | 20 3.28 | −18 41.2 | 1.588 | 2.564 | 8.1 | 19.3 |
| 7 10 | 19 55.40 | −18 58.1 | 1.552 | 2.560 | 3.7 | 19.0 |
| 7 20 | 19 46.60 | −19 17.7 | 1.541 | 2.556 | 1.2 | 18.9 |
| 7 30 | 19 37.98 | −19 37.1 | 1.556 | 2.553 | 5.6 | 19.1 |
| 8 9 | 19 30.65 | −19 54.0 | 1.597 | 2.550 | 9.8 | 19.4 |
| 8 19 | 19 25.44 | −20 7.1 | 1.660 | 2.547 | 13.6 | 19.6 |

**121773** 2000 $AZ_{23}$ 7 17.7 201°.72 1°.8/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.16 | −25 30.7 | 2.738 | 3.569 | 10.7 | 20.2 |
| 6 20 | 20 8.63 | −26 3.2 | 2.652 | 3.566 | 8.3 | 20.1 |
| 6 30 | 20 2.38 | −26 37.6 | 2.590 | 3.563 | 5.5 | 19.9 |
| 7 10 | 19 54.90 | −27 10.8 | 2.554 | 3.560 | 2.8 | 19.7 |
| 7 20 | 19 46.78 | −27 39.9 | 2.547 | 3.557 | 2.1 | 19.6 |
| 7 30 | 19 38.78 | −28 2.6 | 2.568 | 3.553 | 4.7 | 19.8 |
| 8 9 | 19 31.63 | −28 17.5 | 2.617 | 3.550 | 7.5 | 20.0 |
| 8 19 | 19 25.92 | −28 24.6 | 2.691 | 3.546 | 10.1 | 20.1 |

**475096** 2005 $UD_{203}$ 7 17.7 110°.39 9°.1/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 23.97 | −50 6.8 | 2.648 | 3.435 | 12.2 | 21.5 |
| 6 20 | 20 17.86 | −51 41.5 | 2.602 | 3.449 | 10.8 | 21.4 |
| 6 30 | 20 8.95 | −53 4.2 | 2.579 | 3.464 | 9.6 | 21.4 |
| 7 10 | 19 57.92 | −54 8.2 | 2.579 | 3.478 | 9.1 | 21.4 |
| 7 20 | 19 45.84 | −54 48.5 | 2.604 | 3.492 | 9.4 | 21.4 |
| 7 30 | 19 34.04 | −55 3.0 | 2.653 | 3.505 | 10.4 | 21.5 |
| 8 9 | 19 23.82 | −54 53.2 | 2.724 | 3.519 | 11.7 | 21.6 |
| 8 19 | 19 16.10 | −54 23.2 | 2.815 | 3.532 | 13.0 | 21.7 |

**158479** 2002 $DJ_8$ 7 17.7 54°.17 6°.4/14.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.24 | −31 27.2 | 1.578 | 2.433 | 16.0 | 19.3 |
| 6 20 | 20 13.19 | −33 6.7 | 1.520 | 2.444 | 12.6 | 19.1 |
| 6 30 | 20 6.10 | −34 46.6 | 1.485 | 2.454 | 9.2 | 18.9 |
| 7 10 | 19 56.73 | −36 17.4 | 1.473 | 2.465 | 6.7 | 18.8 |
| 7 20 | 19 46.21 | −37 30.7 | 1.487 | 2.476 | 6.9 | 18.8 |
| 7 30 | 19 36.02 | −38 20.7 | 1.526 | 2.488 | 9.5 | 19.0 |
| 8 9 | 19 27.57 | −38 46.5 | 1.587 | 2.499 | 12.8 | 19.2 |
| 8 19 | 19 21.86 | −38 50.7 | 1.670 | 2.511 | 15.8 | 19.5 |

**342334** 2008 $TN_{114}$ 7 17.7 341°.13 5°.3/19.5 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 4.98 | −10 28.9 | 1.145 | 2.012 | 20.0 | 19.6 |
| 6 20 | 20 4.20 | −10 4.5 | 1.065 | 1.992 | 16.4 | 19.3 |
| 6 30 | 20 0.48 | − 9 58.2 | 1.001 | 1.974 | 12.1 | 19.0 |
| 7 10 | 19 54.38 | −10 12.2 | 0.957 | 1.957 | 7.7 | 18.7 |
| 7 20 | 19 46.90 | −10 45.6 | 0.933 | 1.941 | 5.4 | 18.5 |
| 7 30 | 19 39.45 | −11 34.9 | 0.931 | 1.928 | 8.2 | 18.6 |
| 8 9 | 19 33.55 | −12 34.0 | 0.949 | 1.917 | 13.0 | 18.9 |
| 8 19 | 19 30.35 | −13 36.0 | 0.987 | 1.907 | 17.7 | 19.1 |

**182882** 2002 $CD_{259}$ 7 17.7 5°.34 3°.7/19.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.36 | − 8 20.6 | 2.052 | 2.863 | 14.5 | 20.2 |
| 6 20 | 20 6.84 | − 8 33.0 | 1.969 | 2.863 | 11.7 | 20.0 |
| 6 30 | 20 1.39 | − 8 59.8 | 1.908 | 2.863 | 8.6 | 19.8 |
| 7 10 | 19 54.52 | − 9 40.5 | 1.871 | 2.864 | 5.4 | 19.6 |
| 7 20 | 19 46.91 | −10 32.7 | 1.859 | 2.865 | 3.7 | 19.5 |
| 7 30 | 19 39.43 | −11 32.9 | 1.875 | 2.866 | 5.5 | 19.6 |
| 8 9 | 19 32.94 | −12 36.9 | 1.917 | 2.867 | 8.7 | 19.8 |
| 8 19 | 19 28.10 | −13 40.7 | 1.983 | 2.869 | 11.8 | 20.0 |

**198603** 2005 $AY_{15}$ 7 17.7 251°.26 0°.0/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.58 | −19 16.8 | 2.167 | 2.995 | 13.2 | 21.0 |
| 6 20 | 20 11.02 | −19 37.5 | 2.066 | 2.978 | 10.4 | 20.8 |
| 6 30 | 20 4.29 | −20 5.1 | 1.987 | 2.960 | 6.9 | 20.6 |
| 7 10 | 19 55.87 | −20 37.0 | 1.934 | 2.942 | 3.1 | 20.3 |
| 7 20 | 19 46.49 | −21 10.1 | 1.908 | 2.923 | 1.0 | 20.1 |
| 7 30 | 19 37.09 | −21 41.3 | 1.910 | 2.904 | 5.0 | 20.3 |
| 8 9 | 19 28.67 | −22 8.0 | 1.940 | 2.885 | 8.9 | 20.5 |
| 8 19 | 19 22.02 | −22 29.1 | 1.993 | 2.864 | 12.4 | 20.7 |

**373801** 2002 $VA_{36}$ 7 17.7 285°.21 1°.4/17.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.14 | −22 18.6 | 1.578 | 2.430 | 16.2 | 21.2 |
| 6 20 | 20 12.39 | −22 44.9 | 1.483 | 2.409 | 12.7 | 20.9 |
| 6 30 | 20 5.72 | −23 18.6 | 1.408 | 2.387 | 8.6 | 20.6 |
| 7 10 | 19 56.68 | −23 55.4 | 1.357 | 2.366 | 3.9 | 20.3 |
| 7 20 | 19 46.22 | −24 30.4 | 1.330 | 2.344 | 2.0 | 20.1 |
| 7 30 | 19 35.70 | −24 58.9 | 1.329 | 2.323 | 6.8 | 20.4 |
| 8 9 | 19 26.55 | −25 17.9 | 1.353 | 2.301 | 11.6 | 20.6 |
| 8 19 | 19 19.91 | −25 26.8 | 1.397 | 2.280 | 16.0 | 20.8 |

**124824** 2001 $SJ_{312}$ 7 17.7 215°.63 2°.0/18.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.23 | −14 23.0 | 1.513 | 2.350 | 17.5 | 20.3 |
| 6 20 | 20 13.00 | −14 36.6 | 1.432 | 2.346 | 13.9 | 20.0 |
| 6 30 | 20 5.95 | −15 3.9 | 1.370 | 2.342 | 9.6 | 19.8 |
| 7 10 | 19 56.70 | −15 42.9 | 1.332 | 2.337 | 4.9 | 19.5 |
| 7 20 | 19 46.25 | −16 29.8 | 1.318 | 2.332 | 2.2 | 19.3 |
| 7 30 | 19 35.93 | −17 19.8 | 1.330 | 2.326 | 6.4 | 19.5 |
| 8 9 | 19 27.08 | −18 8.3 | 1.367 | 2.320 | 11.1 | 19.8 |
| 8 19 | 19 20.71 | −18 52.0 | 1.426 | 2.314 | 15.3 | 20.0 |

**66437** 1999 $NK_{54}$ 7 17.7 26°.57 10°.0/21.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.01 | − 2 29.1 | 1.256 | 2.079 | 21.2 | 18.0 |
| 6 20 | 20 8.92 | − 1 3.6 | 1.205 | 2.092 | 18.0 | 17.8 |
| 6 30 | 20 3.08 | − 0 0.4 | 1.171 | 2.107 | 14.5 | 17.7 |
| 7 10 | 19 55.32 | + 0 35.8 | 1.156 | 2.123 | 11.5 | 17.6 |
| 7 20 | 19 46.72 | + 0 43.1 | 1.162 | 2.140 | 10.1 | 17.5 |
| 7 30 | 19 38.60 | + 0 23.2 | 1.190 | 2.158 | 11.0 | 17.6 |
| 8 9 | 19 32.14 | − 0 18.5 | 1.239 | 2.177 | 13.5 | 17.8 |
| 8 19 | 19 28.16 | − 1 14.6 | 1.308 | 2.197 | 16.4 | 18.1 |

**77518** 2001 $HA_{52}$ 7 17.7 336°.05 3°.0/16.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.10 | −26 22.2 | 1.846 | 2.695 | 14.4 | 19.4 |
| 6 20 | 20 10.99 | −27 8.9 | 1.770 | 2.693 | 11.2 | 19.2 |
| 6 30 | 20 4.39 | −27 58.7 | 1.715 | 2.692 | 7.5 | 19.0 |
| 7 10 | 19 55.93 | −28 46.5 | 1.685 | 2.691 | 4.1 | 18.8 |
| 7 20 | 19 46.51 | −29 27.2 | 1.681 | 2.689 | 3.5 | 18.7 |
| 7 30 | 19 37.29 | −29 56.6 | 1.704 | 2.688 | 6.6 | 18.9 |
| 8 9 | 19 29.40 | −30 13.1 | 1.752 | 2.687 | 10.3 | 19.1 |
| 8 19 | 19 23.69 | −30 17.2 | 1.822 | 2.687 | 13.6 | 19.3 |

**166455** 2002 $PG_{77}$ 7 17.7 18°.26 7°.6/16.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.46 | −37 37.2 | 1.202 | 2.070 | 19.2 | 18.6 |
| 6 20 | 20 15.45 | −37 50.3 | 1.154 | 2.080 | 15.5 | 18.4 |
| 6 30 | 20 7.69 | −37 51.7 | 1.123 | 2.092 | 11.6 | 18.2 |
| 7 10 | 19 57.37 | −37 34.1 | 1.113 | 2.105 | 8.4 | 18.0 |
| 7 20 | 19 46.14 | −36 53.2 | 1.126 | 2.120 | 7.8 | 18.0 |
| 7 30 | 19 35.93 | −35 49.2 | 1.161 | 2.136 | 10.3 | 18.2 |
| 8 9 | 19 28.26 | −34 27.8 | 1.218 | 2.153 | 13.8 | 18.5 |
| 8 19 | 19 23.96 | −32 55.9 | 1.295 | 2.172 | 17.3 | 18.8 |

**210419** 2007 $XK_{41}$ 7 17.7 275°.15 0°.1/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.89 | −20 24.9 | 1.993 | 2.830 | 13.9 | 20.8 |
| 6 20 | 20 10.55 | −20 27.3 | 1.904 | 2.821 | 10.8 | 20.5 |
| 6 30 | 20 3.97 | −20 34.7 | 1.837 | 2.812 | 7.2 | 20.3 |
| 7 10 | 19 55.71 | −20 44.9 | 1.795 | 2.803 | 3.2 | 20.0 |
| 7 20 | 19 46.59 | −20 55.3 | 1.779 | 2.795 | 1.0 | 19.8 |
| 7 30 | 19 37.60 | −21 3.8 | 1.791 | 2.786 | 5.2 | 20.1 |
| 8 9 | 19 29.75 | −21 8.8 | 1.829 | 2.777 | 9.1 | 20.3 |
| 8 19 | 19 23.83 | −21 9.8 | 1.890 | 2.768 | 12.6 | 20.5 |

**478430** 2012 $HN_{34}$ 7 17.7 196°.25 16°.2/22.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.65 | + 8 10.8 | 1.287 | 2.044 | 24.1 | 20.8 |
| 6 20 | 20 15.23 | +10 16.3 | 1.219 | 2.043 | 21.7 | 20.6 |
| 6 30 | 20 7.63 | +11 55.4 | 1.166 | 2.041 | 19.3 | 20.5 |
| 7 10 | 19 57.52 | +12 58.5 | 1.130 | 2.039 | 17.3 | 20.3 |
| 7 20 | 19 46.00 | +13 18.8 | 1.113 | 2.036 | 16.3 | 20.3 |
| 7 30 | 19 34.59 | +12 54.0 | 1.115 | 2.032 | 16.7 | 20.3 |
| 8 9 | 19 24.83 | +11 49.5 | 1.136 | 2.027 | 18.4 | 20.4 |
| 8 19 | 19 17.88 | +10 14.8 | 1.175 | 2.022 | 20.7 | 20.5 |

**318021** 2004 $DM_{63}$ 7 17.7 231°.24 1°.5/18.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.19 | −15 47.5 | 1.744 | 2.577 | 15.7 | 21.5 |
| 6 20 | 20 11.86 | −15 58.6 | 1.657 | 2.570 | 12.4 | 21.3 |
| 6 30 | 20 5.02 | −16 20.3 | 1.591 | 2.563 | 8.5 | 21.0 |
| 7 10 | 19 56.24 | −16 50.6 | 1.549 | 2.555 | 4.2 | 20.8 |
| 7 20 | 19 46.42 | −17 26.4 | 1.533 | 2.547 | 1.7 | 20.6 |
| 7 30 | 19 36.69 | −18 3.8 | 1.543 | 2.539 | 5.7 | 20.8 |
| 8 9 | 19 28.22 | −18 39.7 | 1.579 | 2.530 | 10.1 | 21.1 |
| 8 19 | 19 21.91 | −19 11.5 | 1.638 | 2.521 | 14.0 | 21.3 |

**478334** 2011 $WB_{116}$ 7 17.7 231°.32 2°.3/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.46 | −13 51.1 | 2.481 | 3.293 | 12.3 | 21.7 |
| 6 20 | 20 8.92 | −13 36.1 | 2.387 | 3.285 | 9.7 | 21.5 |
| 6 30 | 20 2.63 | −13 28.2 | 2.316 | 3.278 | 6.8 | 21.3 |
| 7 10 | 19 55.06 | −13 26.8 | 2.270 | 3.270 | 3.9 | 21.1 |
| 7 20 | 19 46.83 | −13 31.0 | 2.252 | 3.262 | 2.4 | 21.0 |
| 7 30 | 19 38.69 | −13 39.6 | 2.262 | 3.253 | 4.6 | 21.1 |
| 8 9 | 19 31.41 | −13 50.8 | 2.300 | 3.245 | 7.7 | 21.3 |
| 8 19 | 19 25.60 | −14 3.3 | 2.362 | 3.236 | 10.6 | 21.5 |

**4461** Sayama 7 17.7 7°.37 3°.2/19.7 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.25 | − 8 40.3 | 1.652 | 2.479 | 16.7 | 15.4 |
| 6 20 | 20 7.27 | − 9 21.4 | 1.575 | 2.480 | 13.4 | 15.1 |
| 6 30 | 20 1.95 | −10 22.1 | 1.518 | 2.481 | 9.6 | 14.9 |
| 7 10 | 19 54.88 | −11 40.4 | 1.484 | 2.483 | 5.6 | 14.7 |
| 7 20 | 19 46.88 | −13 11.8 | 1.475 | 2.486 | 3.2 | 14.5 |
| 7 30 | 19 39.02 | −14 49.7 | 1.493 | 2.489 | 5.9 | 14.7 |
| 8 9 | 19 32.37 | −16 27.2 | 1.536 | 2.493 | 9.9 | 15.0 |
| 8 19 | 19 27.75 | −17 58.4 | 1.603 | 2.497 | 13.6 | 15.2 |

**261448** 2005 $VO_{30}$ 7 17.7 232°.88 3°.6/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.97 | −30 58.2 | 2.766 | 3.596 | 10.7 | 21.0 |
| 6 20 | 20 10.23 | −31 53.1 | 2.675 | 3.585 | 8.4 | 20.8 |
| 6 30 | 20 3.60 | −32 48.0 | 2.607 | 3.573 | 6.0 | 20.6 |
| 7 10 | 19 55.54 | −33 38.7 | 2.567 | 3.561 | 4.0 | 20.5 |
| 7 20 | 19 46.70 | −34 21.0 | 2.555 | 3.549 | 3.9 | 20.5 |
| 7 30 | 19 37.88 | −34 52.1 | 2.571 | 3.537 | 5.9 | 20.6 |
| 8 9 | 19 29.91 | −35 10.6 | 2.613 | 3.524 | 8.4 | 20.7 |
| 8 19 | 19 23.49 | −35 17.0 | 2.681 | 3.511 | 10.8 | 20.8 |

**216867** 2008 $CP_{197}$ 7 17.7 348°.59 1°.2/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.66 | −17 5.2 | 1.996 | 2.830 | 14.0 | 20.7 |
| 6 20 | 20 8.73 | −17 5.6 | 1.914 | 2.828 | 11.0 | 20.5 |
| 6 30 | 20 2.71 | −17 13.3 | 1.854 | 2.827 | 7.4 | 20.2 |
| 7 10 | 19 55.15 | −17 26.9 | 1.819 | 2.825 | 3.6 | 20.0 |
| 7 20 | 19 46.83 | −17 44.1 | 1.809 | 2.824 | 1.4 | 19.8 |
| 7 30 | 19 38.68 | −18 2.6 | 1.827 | 2.823 | 5.0 | 20.1 |
| 8 9 | 19 31.64 | −18 20.2 | 1.871 | 2.822 | 8.8 | 20.3 |
| 8 19 | 19 26.42 | −18 35.6 | 1.938 | 2.822 | 12.1 | 20.5 |

**513821** 2013 $EO_{17}$ 7 17.7 97°.06 2°.4/19.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.09 | −11 30.7 | 2.396 | 3.207 | 12.6 | 21.3 |
| 6 20 | 20 7.12 | −11 46.8 | 2.315 | 3.212 | 10.0 | 21.1 |
| 6 30 | 20 1.44 | −12 13.5 | 2.256 | 3.217 | 7.1 | 20.9 |
| 7 10 | 19 54.54 | −12 49.3 | 2.222 | 3.221 | 4.0 | 20.7 |
| 7 20 | 19 47.03 | −13 32.2 | 2.216 | 3.226 | 2.4 | 20.6 |
| 7 30 | 19 39.65 | −14 19.3 | 2.238 | 3.231 | 4.5 | 20.8 |
| 8 9 | 19 33.15 | −15 7.6 | 2.287 | 3.235 | 7.6 | 21.0 |
| 8 19 | 19 28.11 | −15 54.3 | 2.361 | 3.240 | 10.4 | 21.2 |

**476026** 2007 $RN_{203}$ 7 17.7 225°.44 2°.0/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.26 | −25 27.4 | 2.137 | 2.974 | 13.1 | 22.1 |
| 6 20 | 20 11.54 | −25 53.2 | 2.051 | 2.969 | 10.2 | 21.9 |
| 6 30 | 20 4.59 | −26 21.3 | 1.988 | 2.963 | 6.8 | 21.7 |
| 7 10 | 19 56.00 | −26 47.9 | 1.951 | 2.958 | 3.4 | 21.4 |
| 7 20 | 19 46.57 | −27 9.5 | 1.940 | 2.952 | 2.4 | 21.4 |
| 7 30 | 19 37.29 | −27 23.2 | 1.958 | 2.945 | 5.6 | 21.6 |
| 8 9 | 19 29.15 | −27 27.9 | 2.001 | 2.939 | 9.1 | 21.8 |
| 8 19 | 19 22.93 | −27 24.0 | 2.069 | 2.932 | 12.3 | 22.0 |

**481223** 2005 $WK_5$ 7 17.7 256°.89 3°.0/15.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.88 | −28 6.9 | 2.752 | 3.581 | 10.7 | 22.5 |
| 6 20 | 20 10.22 | −29 3.2 | 2.648 | 3.560 | 8.4 | 22.4 |
| 6 30 | 20 3.65 | −30 1.9 | 2.568 | 3.538 | 5.8 | 22.2 |
| 7 10 | 19 55.60 | −30 58.7 | 2.516 | 3.516 | 3.5 | 22.0 |
| 7 20 | 19 46.68 | −31 49.6 | 2.492 | 3.494 | 3.3 | 21.9 |
| 7 30 | 19 37.68 | −32 31.1 | 2.497 | 3.471 | 5.6 | 22.0 |
| 8 9 | 19 29.44 | −33 1.2 | 2.529 | 3.447 | 8.4 | 22.2 |
| 8 19 | 19 22.69 | −33 19.8 | 2.586 | 3.423 | 11.0 | 22.3 |

**48899** 1998 $MM_7$ 7 17.7 330°.30 3°.9/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 6.57 | −20 47.6 | 1.085 | 1.973 | 19.3 | 17.7 |
| 6 20 | 20 6.11 | −22 29.6 | 1.001 | 1.948 | 15.2 | 17.4 |
| 6 30 | 20 2.26 | −24 34.4 | 0.935 | 1.923 | 10.2 | 17.0 |
| 7 10 | 19 55.44 | −26 54.0 | 0.890 | 1.900 | 5.2 | 16.7 |
| 7 20 | 19 46.65 | −29 15.7 | 0.867 | 1.878 | 4.8 | 16.6 |
| 7 30 | 19 37.57 | −31 24.5 | 0.867 | 1.858 | 10.1 | 16.8 |
| 8 9 | 19 30.15 | −33 9.3 | 0.887 | 1.839 | 15.8 | 17.0 |
| 8 19 | 19 26.02 | −34 25.1 | 0.925 | 1.822 | 20.8 | 17.3 |

**359470** 2010 $NE_{80}$ 7 17.7 99°.10 11°.2/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 30.50 | −57 26.9 | 2.517 | 3.272 | 13.6 | 21.1 |
| 6 20 | 20 23.57 | −58 50.8 | 2.476 | 3.283 | 12.4 | 21.0 |
| 6 30 | 20 13.03 | −59 58.3 | 2.454 | 3.294 | 11.6 | 20.9 |
| 7 10 | 19 59.83 | −60 41.7 | 2.453 | 3.305 | 11.2 | 20.9 |
| 7 20 | 19 45.43 | −60 56.0 | 2.475 | 3.315 | 11.4 | 21.0 |
| 7 30 | 19 31.68 | −60 40.0 | 2.518 | 3.326 | 12.2 | 21.0 |
| 8 9 | 19 20.23 | −59 56.6 | 2.581 | 3.336 | 13.2 | 21.1 |
| 8 19 | 19 12.13 | −58 51.6 | 2.662 | 3.346 | 14.3 | 21.3 |

**344767** 2003 $WW_{92}$ 7 17.7 279°.71 1°.8/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.93 | −24 30.4 | 1.928 | 2.771 | 14.1 | 21.3 |
| 6 20 | 20 11.65 | −24 52.2 | 1.832 | 2.752 | 11.0 | 21.1 |
| 6 30 | 20 4.91 | −25 17.6 | 1.757 | 2.734 | 7.4 | 20.8 |
| 7 10 | 19 56.24 | −25 42.8 | 1.708 | 2.716 | 3.5 | 20.6 |
| 7 20 | 19 46.49 | −26 3.8 | 1.684 | 2.697 | 2.3 | 20.4 |
| 7 30 | 19 36.77 | −26 17.4 | 1.688 | 2.678 | 6.0 | 20.6 |
| 8 9 | 19 28.23 | −26 22.1 | 1.717 | 2.660 | 10.0 | 20.8 |
| 8 19 | 19 21.78 | −26 18.0 | 1.769 | 2.641 | 13.7 | 21.0 |

**432295** 2009 $SF_{273}$ 7 17.7 282°.16 5°.7/19.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.22 | − 8 10.8 | 1.649 | 2.467 | 17.1 | 21.5 |
| 6 20 | 20 10.52 | − 7 36.5 | 1.554 | 2.449 | 14.2 | 21.2 |
| 6 30 | 20 4.28 | − 7 16.2 | 1.479 | 2.432 | 10.7 | 21.0 |
| 7 10 | 19 56.01 | − 7 11.5 | 1.425 | 2.414 | 7.3 | 20.7 |
| 7 20 | 19 46.57 | − 7 22.9 | 1.396 | 2.396 | 5.7 | 20.6 |
| 7 30 | 19 37.10 | − 7 48.9 | 1.392 | 2.378 | 7.7 | 20.6 |
| 8 9 | 19 28.80 | − 8 26.1 | 1.412 | 2.360 | 11.3 | 20.8 |
| 8 19 | 19 22.64 | − 9 10.3 | 1.454 | 2.342 | 15.2 | 21.0 |

**144959** 2005 $EX_{58}$ 7 17.7 27°.04 2°.0/18.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.70 | −15 43.7 | 1.104 | 1.974 | 20.4 | 19.9 |
| 6 20 | 20 10.04 | −15 45.5 | 1.051 | 1.984 | 16.0 | 19.7 |
| 6 30 | 20 4.15 | −16 1.8 | 1.015 | 1.995 | 10.9 | 19.4 |
| 7 10 | 19 55.93 | −16 30.2 | 0.999 | 2.006 | 5.4 | 19.1 |
| 7 20 | 19 46.65 | −17 6.2 | 1.005 | 2.019 | 2.3 | 19.0 |
| 7 30 | 19 37.90 | −17 44.8 | 1.034 | 2.033 | 7.0 | 19.3 |
| 8 9 | 19 31.12 | −18 21.3 | 1.085 | 2.048 | 12.2 | 19.7 |
| 8 19 | 19 27.25 | −18 52.4 | 1.156 | 2.064 | 16.6 | 20.0 |

**206546** 2003 $UT_{206}$ 7 17.7 277°.10 3°.3/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.29 | −28 34.5 | 1.916 | 2.759 | 14.1 | 20.6 |
| 6 20 | 20 12.75 | −29 1.5 | 1.826 | 2.746 | 11.1 | 20.4 |
| 6 30 | 20 5.64 | −29 28.9 | 1.758 | 2.732 | 7.6 | 20.2 |
| 7 10 | 19 56.57 | −29 52.0 | 1.714 | 2.718 | 4.3 | 19.9 |
| 7 20 | 19 46.43 | −30 6.4 | 1.697 | 2.703 | 3.7 | 19.9 |
| 7 30 | 19 36.42 | −30 9.0 | 1.706 | 2.689 | 6.7 | 20.0 |
| 8 9 | 19 27.71 | −29 59.3 | 1.740 | 2.675 | 10.4 | 20.2 |
| 8 19 | 19 21.23 | −29 38.4 | 1.798 | 2.661 | 13.9 | 20.4 |

**444724** 2007 $FM_{16}$ 7 17.7 210°.35 3°.2/19.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.18 | − 8 59.9 | 2.569 | 3.367 | 12.3 | 22.0 |
| 6 20 | 20 7.11 | − 9 7.0 | 2.478 | 3.364 | 9.9 | 21.8 |
| 6 30 | 20 1.43 | − 9 25.1 | 2.409 | 3.361 | 7.2 | 21.7 |
| 7 10 | 19 54.55 | − 9 53.7 | 2.365 | 3.357 | 4.5 | 21.5 |
| 7 20 | 19 47.07 | −10 31.2 | 2.349 | 3.353 | 3.2 | 21.4 |
| 7 30 | 19 39.66 | −11 15.3 | 2.361 | 3.349 | 4.7 | 21.5 |
| 8 9 | 19 33.02 | −12 3.1 | 2.400 | 3.345 | 7.4 | 21.7 |
| 8 19 | 19 27.73 | −12 51.7 | 2.465 | 3.340 | 10.1 | 21.8 |

**307032** 2001 $XT_{159}$ 7 17.7 143°.49 2°.1/18.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.57 | −15 58.8 | 1.575 | 2.409 | 17.1 | 20.8 |
| 6 20 | 20 14.52 | −15 47.1 | 1.503 | 2.416 | 13.5 | 20.6 |
| 6 30 | 20 6.76 | −15 44.9 | 1.451 | 2.422 | 9.2 | 20.3 |
| 7 10 | 19 57.02 | −15 50.6 | 1.423 | 2.428 | 4.7 | 20.1 |
| 7 20 | 19 46.33 | −16 2.0 | 1.420 | 2.434 | 2.3 | 19.9 |
| 7 30 | 19 35.98 | −16 16.5 | 1.444 | 2.439 | 6.1 | 20.2 |
| 8 9 | 19 27.19 | −16 31.7 | 1.492 | 2.443 | 10.5 | 20.5 |
| 8 19 | 19 20.84 | −16 45.8 | 1.563 | 2.447 | 14.5 | 20.7 |

**257071** 2008 $FB_{114}$ 7 17.7 341°.02 0°.3/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.53 | −20 14.4 | 1.789 | 2.640 | 14.6 | 20.2 |
| 6 20 | 20 7.48 | −20 34.7 | 1.705 | 2.630 | 11.4 | 20.0 |
| 6 30 | 20 2.11 | −21 2.2 | 1.642 | 2.620 | 7.6 | 19.7 |
| 7 10 | 19 54.98 | −21 34.0 | 1.602 | 2.612 | 3.4 | 19.4 |
| 7 20 | 19 46.93 | −22 6.5 | 1.588 | 2.604 | 1.2 | 19.3 |
| 7 30 | 19 38.99 | −22 36.1 | 1.601 | 2.597 | 5.5 | 19.5 |
| 8 9 | 19 32.25 | −23 0.2 | 1.638 | 2.590 | 9.7 | 19.8 |
| 8 19 | 19 27.51 | −23 17.5 | 1.698 | 2.584 | 13.4 | 20.0 |

**217969** 2001 $VB_{24}$ 7 17.7 243°.54 1°.1/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.75 | −22 21.5 | 1.813 | 2.655 | 14.9 | 20.4 |
| 6 20 | 20 12.31 | −22 44.5 | 1.728 | 2.648 | 11.6 | 20.2 |
| 6 30 | 20 5.34 | −23 13.0 | 1.663 | 2.640 | 7.7 | 20.0 |
| 7 10 | 19 56.43 | −23 43.1 | 1.623 | 2.632 | 3.5 | 19.7 |
| 7 20 | 19 46.50 | −24 10.9 | 1.610 | 2.624 | 1.7 | 19.5 |
| 7 30 | 19 36.69 | −24 32.9 | 1.623 | 2.616 | 5.9 | 19.8 |
| 8 9 | 19 28.19 | −24 47.0 | 1.662 | 2.607 | 10.1 | 20.0 |
| 8 19 | 19 21.87 | −24 53.0 | 1.724 | 2.599 | 13.8 | 20.2 |

**238928** 2006 $AQ_{83}$ 7 17.7 217°.52 0°.1/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.80 | −16 51.3 | 2.087 | 2.912 | 13.8 | 21.3 |
| 6 20 | 20 11.27 | −17 49.1 | 1.995 | 2.905 | 10.8 | 21.1 |
| 6 30 | 20 4.52 | −18 58.2 | 1.925 | 2.898 | 7.2 | 20.9 |
| 7 10 | 19 56.06 | −20 15.1 | 1.882 | 2.890 | 3.2 | 20.6 |
| 7 20 | 19 46.61 | −21 34.5 | 1.867 | 2.882 | 1.0 | 20.4 |
| 7 30 | 19 37.16 | −22 51.3 | 1.881 | 2.874 | 5.2 | 20.7 |
| 8 9 | 19 28.70 | −24 0.9 | 1.922 | 2.865 | 9.1 | 20.9 |
| 8 19 | 19 22.07 | −25 0.8 | 1.987 | 2.855 | 12.5 | 21.1 |

**521599** 2015 $PO_{317}$ 7 17.7 130°.82 0°.6/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.58 | −22 40.8 | 2.737 | 3.561 | 10.9 | 21.7 |
| 6 20 | 20 9.56 | −22 47.6 | 2.661 | 3.571 | 8.4 | 21.6 |
| 6 30 | 20 2.93 | −22 56.5 | 2.608 | 3.581 | 5.5 | 21.4 |
| 7 10 | 19 55.17 | −23 5.5 | 2.582 | 3.591 | 2.5 | 21.2 |
| 7 20 | 19 46.92 | −23 12.7 | 2.585 | 3.600 | 1.0 | 21.1 |
| 7 30 | 19 38.89 | −23 16.7 | 2.617 | 3.609 | 4.0 | 21.3 |
| 8 9 | 19 31.76 | −23 16.6 | 2.677 | 3.618 | 7.0 | 21.5 |
| 8 19 | 19 26.08 | −23 12.4 | 2.762 | 3.626 | 9.6 | 21.7 |

**390780** 2003 $WM_{93}$ 7 17.7 257°.39 1°.8/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.20 | −16 5.5 | 2.046 | 2.871 | 14.0 | 21.5 |
| 6 20 | 20 10.74 | −15 53.2 | 1.952 | 2.860 | 11.1 | 21.3 |
| 6 30 | 20 4.10 | −15 48.0 | 1.880 | 2.849 | 7.6 | 21.1 |
| 7 10 | 19 55.84 | −15 48.9 | 1.833 | 2.837 | 3.9 | 20.8 |
| 7 20 | 19 46.70 | −15 54.5 | 1.812 | 2.825 | 2.0 | 20.7 |
| 7 30 | 19 37.65 | −16 3.0 | 1.819 | 2.813 | 5.2 | 20.9 |
| 8 9 | 19 29.65 | −16 12.6 | 1.852 | 2.801 | 9.0 | 21.1 |
| 8 19 | 19 23.49 | −16 22.1 | 1.910 | 2.789 | 12.5 | 21.3 |

**276112** 2002 $GP_{10}$ 7 17.7 353°.89 10°.1/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 4.06 | −33 11.7 | 1.035 | 1.934 | 19.2 | 18.7 |
| 6 20 | 20 4.47 | −35 27.1 | 0.976 | 1.922 | 15.5 | 18.4 |
| 6 30 | 20 1.22 | −37 45.5 | 0.936 | 1.912 | 12.1 | 18.2 |
| 7 10 | 19 54.94 | −39 52.8 | 0.915 | 1.905 | 10.2 | 18.1 |
| 7 20 | 19 46.93 | −41 34.3 | 0.915 | 1.899 | 11.1 | 18.1 |
| 7 30 | 19 39.11 | −42 39.9 | 0.935 | 1.896 | 14.1 | 18.2 |
| 8 9 | 19 33.48 | −43 6.9 | 0.974 | 1.896 | 17.8 | 18.5 |
| 8 19 | 19 31.38 | −42 59.0 | 1.028 | 1.898 | 21.3 | 18.7 |

**308601** 2005 $VW_{97}$ 7 17.7 148°.95 1°.7/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.47 | −25 24.2 | 2.554 | 3.385 | 11.4 | 21.4 |
| 6 20 | 20 9.71 | −25 46.0 | 2.475 | 3.389 | 8.8 | 21.2 |
| 6 30 | 20 3.15 | −26 9.2 | 2.419 | 3.393 | 5.8 | 21.0 |
| 7 10 | 19 55.32 | −26 30.9 | 2.390 | 3.397 | 2.9 | 20.8 |
| 7 20 | 19 46.88 | −26 48.3 | 2.389 | 3.401 | 2.0 | 20.8 |
| 7 30 | 19 38.64 | −26 59.5 | 2.417 | 3.404 | 4.7 | 21.0 |
| 8 9 | 19 31.36 | −27 3.6 | 2.471 | 3.407 | 7.7 | 21.2 |
| 8 19 | 19 25.65 | −27 0.8 | 2.551 | 3.410 | 10.4 | 21.4 |

**450097** 2015 $RA_{94}$ 7 17.7 354°.16 7°.5/22.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.98 | − 0 25.8 | 1.749 | 2.543 | 17.3 | 20.3 |
| 6 20 | 20 5.38 | − 0 14.1 | 1.668 | 2.538 | 14.7 | 20.1 |
| 6 30 | 20 0.65 | − 0 23.9 | 1.606 | 2.534 | 11.8 | 19.9 |
| 7 10 | 19 54.32 | − 0 57.2 | 1.565 | 2.531 | 9.1 | 19.7 |
| 7 20 | 19 47.16 | − 1 53.1 | 1.547 | 2.529 | 7.5 | 19.6 |
| 7 30 | 19 40.11 | − 3 8.6 | 1.553 | 2.528 | 8.2 | 19.6 |
| 8 9 | 19 34.14 | − 4 37.5 | 1.584 | 2.527 | 10.7 | 19.8 |
| 8 19 | 19 30.01 | − 6 13.1 | 1.638 | 2.528 | 13.6 | 20.0 |

**520158** 2014 $CP_{25}$ 7 17.7 146°.87 0°.8/18.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.60 | −17 48.2 | 2.274 | 3.096 | 12.9 | 22.4 |
| 6 20 | 20 10.68 | −17 56.0 | 2.195 | 3.104 | 10.0 | 22.2 |
| 6 30 | 20 3.84 | −18 10.0 | 2.140 | 3.111 | 6.7 | 22.0 |
| 7 10 | 19 55.64 | −18 28.3 | 2.110 | 3.117 | 3.1 | 21.8 |
| 7 20 | 19 46.79 | −18 48.6 | 2.108 | 3.123 | 1.1 | 21.7 |
| 7 30 | 19 38.15 | −19 8.6 | 2.135 | 3.129 | 4.5 | 21.9 |
| 8 9 | 19 30.55 | −19 26.4 | 2.189 | 3.135 | 8.0 | 22.1 |
| 8 19 | 19 24.64 | −19 41.2 | 2.267 | 3.140 | 11.0 | 22.3 |

**253436** 2003 $QK_{106}$ 7 17.7 324°.34 2°.2/18.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 8.83 | −13 52.8 | 1.134 | 2.004 | 20.0 | 20.3 |
| 6 20 | 20 7.48 | −14 13.5 | 1.051 | 1.984 | 16.0 | 20.0 |
| 6 30 | 20 2.90 | −14 54.3 | 0.984 | 1.964 | 11.2 | 19.6 |
| 7 10 | 19 55.64 | −15 53.8 | 0.937 | 1.945 | 5.7 | 19.3 |
| 7 20 | 19 46.72 | −17 7.3 | 0.912 | 1.927 | 2.3 | 19.0 |
| 7 30 | 19 37.70 | −18 27.3 | 0.910 | 1.910 | 7.5 | 19.2 |
| 8 9 | 19 30.29 | −19 45.6 | 0.928 | 1.894 | 13.3 | 19.5 |
| 8 19 | 19 25.82 | −20 55.6 | 0.966 | 1.880 | 18.6 | 19.7 |

**367897** 2012 $AS_{23}$ 7 17.7 75°.20 1°.6/18.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.93 | −18 9.7 | 1.396 | 2.244 | 18.1 | 20.5 |
| 6 20 | 20 14.35 | −17 49.4 | 1.329 | 2.250 | 14.2 | 20.3 |
| 6 30 | 20 6.79 | −17 36.9 | 1.281 | 2.256 | 9.6 | 20.0 |
| 7 10 | 19 57.08 | −17 30.5 | 1.255 | 2.263 | 4.6 | 19.8 |
| 7 20 | 19 46.37 | −17 28.1 | 1.254 | 2.269 | 1.9 | 19.6 |
| 7 30 | 19 36.10 | −17 27.8 | 1.279 | 2.276 | 6.5 | 19.9 |
| 8 9 | 19 27.59 | −17 27.7 | 1.327 | 2.282 | 11.2 | 20.2 |
| 8 19 | 19 21.77 | −17 26.9 | 1.397 | 2.289 | 15.4 | 20.5 |

**187590** 2006 $WY_{104}$ 7 17.7 268°.85 2°.0/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.77 | −23 8.4 | 1.642 | 2.492 | 15.8 | 21.1 |
| 6 20 | 20 12.77 | −23 48.0 | 1.553 | 2.477 | 12.4 | 20.9 |
| 6 30 | 20 5.93 | −24 34.7 | 1.483 | 2.462 | 8.3 | 20.6 |
| 7 10 | 19 56.82 | −25 23.8 | 1.438 | 2.447 | 3.9 | 20.3 |
| 7 20 | 19 46.41 | −26 9.4 | 1.418 | 2.431 | 2.6 | 20.2 |
| 7 30 | 19 36.00 | −26 46.6 | 1.425 | 2.415 | 6.8 | 20.4 |
| 8 9 | 19 26.96 | −27 12.3 | 1.455 | 2.400 | 11.3 | 20.6 |
| 8 19 | 19 20.37 | −27 26.1 | 1.508 | 2.384 | 15.4 | 20.8 |

**114988** 2003 $QP_{69}$ 7 17.7 273°.79 8°.7/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 23.17 | −42 59.2 | 2.088 | 2.907 | 14.0 | 19.1 |
| 6 20 | 20 17.84 | −44 10.2 | 1.997 | 2.884 | 11.9 | 18.9 |
| 6 30 | 20 9.37 | −45 13.9 | 1.929 | 2.861 | 9.9 | 18.8 |
| 7 10 | 19 58.38 | −46 2.1 | 1.884 | 2.837 | 8.8 | 18.6 |
| 7 20 | 19 45.94 | −46 27.8 | 1.864 | 2.813 | 9.1 | 18.6 |
| 7 30 | 19 33.54 | −46 26.7 | 1.868 | 2.789 | 10.8 | 18.7 |
| 8 9 | 19 22.72 | −45 59.5 | 1.896 | 2.764 | 13.1 | 18.8 |
| 8 19 | 19 14.63 | −45 10.2 | 1.945 | 2.739 | 15.6 | 18.9 |

**485161** 2010 $RY_{69}$ 7 17.7 319°.67 6°.6/14.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.92 | −34 55.6 | 1.755 | 2.607 | 14.8 | 20.7 |
| 6 20 | 20 11.54 | −35 52.2 | 1.662 | 2.581 | 12.0 | 20.5 |
| 6 30 | 20 5.23 | −36 46.8 | 1.590 | 2.555 | 9.1 | 20.3 |
| 7 10 | 19 56.55 | −37 32.2 | 1.542 | 2.530 | 6.9 | 20.1 |
| 7 20 | 19 46.49 | −38 1.4 | 1.518 | 2.505 | 7.0 | 20.0 |
| 7 30 | 19 36.43 | −38 9.9 | 1.518 | 2.481 | 9.5 | 20.1 |
| 8 9 | 19 27.80 | −37 56.6 | 1.541 | 2.458 | 12.8 | 20.2 |
| 8 19 | 19 21.75 | −37 24.3 | 1.585 | 2.435 | 16.1 | 20.4 |

**490107** 2008 $UQ_{38}$ 7 17.7 235°.59 2°.7/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.20 | −13 14.6 | 2.145 | 2.960 | 13.8 | 22.3 |
| 6 20 | 20 10.62 | −13 2.8 | 2.050 | 2.950 | 11.0 | 22.1 |
| 6 30 | 20 3.98 | −12 59.8 | 1.977 | 2.939 | 7.8 | 21.9 |
| 7 10 | 19 55.79 | −13 5.1 | 1.929 | 2.929 | 4.4 | 21.6 |
| 7 20 | 19 46.76 | −13 17.6 | 1.907 | 2.917 | 2.7 | 21.5 |
| 7 30 | 19 37.79 | −13 35.3 | 1.914 | 2.905 | 5.3 | 21.7 |
| 8 9 | 19 29.81 | −13 56.0 | 1.946 | 2.893 | 8.8 | 21.8 |
| 8 19 | 19 23.55 | −14 17.8 | 2.004 | 2.881 | 12.1 | 22.0 |

**216279** 2006 $WM_{202}$ 7 17.7 91°.42 1°.5/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.84 | −16 3.0 | 2.277 | 3.099 | 12.9 | 20.8 |
| 6 20 | 20 9.26 | −15 59.5 | 2.205 | 3.111 | 10.1 | 20.6 |
| 6 30 | 20 2.86 | −16 2.9 | 2.154 | 3.122 | 6.9 | 20.5 |
| 7 10 | 19 55.20 | −16 11.7 | 2.129 | 3.134 | 3.5 | 20.3 |
| 7 20 | 19 46.96 | −16 24.4 | 2.132 | 3.146 | 1.6 | 20.1 |
| 7 30 | 19 38.98 | −16 39.1 | 2.163 | 3.157 | 4.5 | 20.4 |
| 8 9 | 19 32.01 | −16 53.9 | 2.220 | 3.168 | 7.8 | 20.6 |
| 8 19 | 19 26.67 | −17 7.6 | 2.302 | 3.179 | 10.7 | 20.8 |

**383317** 2006 $HC_{92}$ 7 17.7 171°.33 4°.5/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.27 | − 6 25.6 | 2.367 | 3.153 | 13.5 | 21.7 |
| 6 20 | 20 9.58 | − 6 13.1 | 2.282 | 3.156 | 11.1 | 21.6 |
| 6 30 | 20 3.10 | − 6 12.9 | 2.219 | 3.159 | 8.4 | 21.4 |
| 7 10 | 19 55.34 | − 6 25.3 | 2.180 | 3.161 | 5.8 | 21.3 |
| 7 20 | 19 46.93 | − 6 49.6 | 2.168 | 3.163 | 4.5 | 21.2 |
| 7 30 | 19 38.66 | − 7 23.7 | 2.184 | 3.164 | 5.7 | 21.3 |
| 8 9 | 19 31.28 | − 8 4.7 | 2.227 | 3.165 | 8.3 | 21.4 |
| 8 19 | 19 25.42 | − 8 49.7 | 2.295 | 3.165 | 11.0 | 21.6 |

**350382** 2012 $UF_{164}$ 7 17.7 288°.71 2°.3/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.20 | −14 53.6 | 1.889 | 2.718 | 14.9 | 20.8 |
| 6 20 | 20 10.09 | −14 41.0 | 1.803 | 2.712 | 11.8 | 20.6 |
| 6 30 | 20 3.73 | −14 37.2 | 1.739 | 2.707 | 8.2 | 20.3 |
| 7 10 | 19 55.70 | −14 41.2 | 1.698 | 2.702 | 4.4 | 20.1 |
| 7 20 | 19 46.82 | −14 51.7 | 1.684 | 2.696 | 2.4 | 20.0 |
| 7 30 | 19 38.08 | −15 6.6 | 1.696 | 2.691 | 5.5 | 20.1 |
| 8 9 | 19 30.49 | −15 23.5 | 1.735 | 2.686 | 9.3 | 20.4 |
| 8 19 | 19 24.83 | −15 40.5 | 1.796 | 2.681 | 12.9 | 20.6 |

**168818** 2000 $SF_{263}$ 7 17.7 223°.16 3°.9/15.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 20.28 | −27 38.1 | 1.701 | 2.546 | 15.5 | 20.5 |
| 6 20 | 20 15.46 | −28 33.7 | 1.618 | 2.539 | 12.2 | 20.3 |
| 6 30 | 20 7.68 | −29 32.8 | 1.556 | 2.531 | 8.4 | 20.1 |
| 7 10 | 19 57.60 | −30 28.8 | 1.519 | 2.522 | 4.9 | 19.8 |
| 7 20 | 19 46.22 | −31 14.9 | 1.508 | 2.513 | 4.4 | 19.8 |
| 7 30 | 19 34.95 | −31 46.2 | 1.523 | 2.503 | 7.7 | 20.0 |
| 8 9 | 19 25.18 | −32 0.8 | 1.562 | 2.493 | 11.7 | 20.2 |
| 8 19 | 19 17.99 | −32 0.0 | 1.624 | 2.482 | 15.4 | 20.4 |

**119025** 2001 $BG_{30}$ 7 17.7 89°.10 1°.3/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.96 | −15 8.0 | 2.357 | 3.178 | 12.5 | 19.8 |
| 6 20 | 20 7.83 | −15 24.2 | 2.280 | 3.186 | 9.8 | 19.6 |
| 6 30 | 20 1.96 | −15 48.6 | 2.225 | 3.193 | 6.7 | 19.5 |
| 7 10 | 19 54.83 | −16 19.4 | 2.196 | 3.201 | 3.3 | 19.3 |
| 7 20 | 19 47.10 | −16 54.3 | 2.194 | 3.208 | 1.4 | 19.1 |
| 7 30 | 19 39.55 | −17 30.6 | 2.221 | 3.216 | 4.3 | 19.4 |
| 8 9 | 19 32.93 | −18 5.8 | 2.275 | 3.223 | 7.6 | 19.6 |
| 8 19 | 19 27.82 | −18 38.0 | 2.353 | 3.231 | 10.5 | 19.8 |

**80920** 2000 $DV_{69}$ 7 17.7 47°.01 2°.4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.89 | −25 5.7 | 1.342 | 2.204 | 17.9 | 19.1 |
| 6 20 | 20 13.70 | −25 27.8 | 1.287 | 2.218 | 13.9 | 18.9 |
| 6 30 | 20 6.41 | −25 53.1 | 1.251 | 2.232 | 9.2 | 18.6 |
| 7 10 | 19 56.92 | −26 16.4 | 1.237 | 2.246 | 4.4 | 18.4 |
| 7 20 | 19 46.49 | −26 32.5 | 1.248 | 2.261 | 2.9 | 18.4 |
| 7 30 | 19 36.66 | −26 38.3 | 1.283 | 2.276 | 7.2 | 18.7 |
| 8 9 | 19 28.77 | −26 33.3 | 1.342 | 2.291 | 11.6 | 19.0 |
| 8 19 | 19 23.70 | −26 18.8 | 1.421 | 2.307 | 15.6 | 19.2 |

**282744** 2006 $EY_{70}$ 7 17.7 155°.12 3°.3/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.05 | − 6 0.4 | 2.152 | 2.939 | 14.7 | 20.8 |
| 6 20 | 20 11.21 | − 6 57.7 | 2.066 | 2.945 | 11.9 | 20.6 |
| 6 30 | 20 4.34 | − 8 13.4 | 2.001 | 2.950 | 8.6 | 20.4 |
| 7 10 | 19 55.95 | − 9 45.2 | 1.963 | 2.955 | 5.3 | 20.3 |
| 7 20 | 19 46.75 | −11 29.1 | 1.953 | 2.959 | 3.3 | 20.1 |
| 7 30 | 19 37.64 | −13 19.0 | 1.972 | 2.964 | 5.2 | 20.3 |
| 8 9 | 19 29.50 | −15 8.8 | 2.021 | 2.967 | 8.5 | 20.5 |
| 8 19 | 19 23.06 | −16 52.9 | 2.096 | 2.970 | 11.7 | 20.7 |

**258884** 2002 $QJ_{49}$ 7 17.7 294°.90 0°.1/17.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.51 | −19 57.1 | 1.462 | 2.316 | 17.2 | 21.3 |
| 6 20 | 20 12.11 | −20 5.0 | 1.368 | 2.295 | 13.5 | 21.0 |
| 6 30 | 20 5.68 | −20 21.3 | 1.294 | 2.273 | 9.2 | 20.7 |
| 7 10 | 19 56.81 | −20 43.1 | 1.242 | 2.251 | 4.2 | 20.3 |
| 7 20 | 19 46.46 | −21 6.7 | 1.214 | 2.230 | 1.3 | 20.0 |
| 7 30 | 19 36.05 | −21 27.9 | 1.211 | 2.208 | 6.7 | 20.3 |
| 8 9 | 19 27.06 | −21 43.8 | 1.232 | 2.187 | 11.9 | 20.6 |
| 8 19 | 19 20.69 | −21 53.3 | 1.274 | 2.166 | 16.5 | 20.8 |

**461419** 2001 $UH_{1}$ 7 17.7 147°.92 11°.0/11.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 34.79 | −48 55.7 | 2.029 | 2.820 | 15.3 | 21.6 |
| 6 20 | 20 27.18 | −50 45.3 | 1.980 | 2.834 | 13.3 | 21.5 |
| 6 30 | 20 15.69 | −52 21.4 | 1.952 | 2.847 | 11.8 | 21.4 |
| 7 10 | 20 1.19 | −53 33.4 | 1.948 | 2.859 | 11.0 | 21.4 |
| 7 20 | 19 45.20 | −54 13.4 | 1.968 | 2.870 | 11.3 | 21.5 |
| 7 30 | 19 29.71 | −54 18.7 | 2.012 | 2.880 | 12.6 | 21.6 |
| 8 9 | 19 16.60 | −53 52.6 | 2.077 | 2.889 | 14.3 | 21.7 |
| 8 19 | 19 7.07 | −53 2.0 | 2.162 | 2.896 | 16.0 | 21.9 |

**371569** 2006 $VE_{98}$ 7 17.7 211°.81 2°.0/16.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.73 | −23 59.9 | 2.010 | 2.845 | 13.9 | 21.9 |
| 6 20 | 20 13.69 | −24 41.9 | 1.922 | 2.838 | 10.8 | 21.7 |
| 6 30 | 20 6.21 | −25 28.6 | 1.856 | 2.831 | 7.2 | 21.4 |
| 7 10 | 19 56.86 | −26 15.7 | 1.816 | 2.823 | 3.5 | 21.2 |
| 7 20 | 19 46.49 | −26 58.3 | 1.803 | 2.815 | 2.5 | 21.1 |
| 7 30 | 19 36.19 | −27 32.3 | 1.818 | 2.805 | 6.0 | 21.3 |
| 8 9 | 19 27.09 | −27 55.7 | 1.859 | 2.796 | 9.8 | 21.5 |
| 8 19 | 19 20.06 | −28 8.4 | 1.924 | 2.785 | 13.2 | 21.7 |

**339379** 2005 $AZ_{68}$ 7 17.7 251°.51 7°.8/13.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 23.61 | −41 47.8 | 2.240 | 3.056 | 13.3 | 21.1 |
| 6 20 | 20 17.89 | −42 56.2 | 2.150 | 3.037 | 11.1 | 21.0 |
| 6 30 | 20 9.25 | −43 58.2 | 2.083 | 3.017 | 9.2 | 20.8 |
| 7 10 | 19 58.30 | −44 46.2 | 2.040 | 2.997 | 7.9 | 20.7 |
| 7 20 | 19 46.05 | −45 13.8 | 2.023 | 2.976 | 8.2 | 20.7 |
| 7 30 | 19 33.84 | −45 17.3 | 2.031 | 2.955 | 9.9 | 20.7 |
| 8 9 | 19 23.08 | −44 57.0 | 2.064 | 2.933 | 12.2 | 20.8 |
| 8 19 | 19 14.83 | −44 16.5 | 2.118 | 2.911 | 14.5 | 21.0 |

**170707** 2004 $BU_{31}$ 7 17.7 271°.49 1°.2/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.31 | −22 0.5 | 2.000 | 2.840 | 13.7 | 20.6 |
| 6 20 | 20 10.25 | −22 34.5 | 1.910 | 2.830 | 10.7 | 20.3 |
| 6 30 | 20 3.91 | −23 14.4 | 1.843 | 2.819 | 7.1 | 20.1 |
| 7 10 | 19 55.83 | −23 56.9 | 1.800 | 2.809 | 3.2 | 19.8 |
| 7 20 | 19 46.80 | −24 37.6 | 1.784 | 2.798 | 1.7 | 19.7 |
| 7 30 | 19 37.84 | −25 12.8 | 1.796 | 2.788 | 5.5 | 19.9 |
| 8 9 | 19 29.97 | −25 40.0 | 1.833 | 2.777 | 9.4 | 20.2 |
| 8 19 | 19 24.03 | −25 58.4 | 1.894 | 2.766 | 12.9 | 20.4 |

**508563** 2016 $VE_{11}$ 7 17.7 192°.83 3°.6/20.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.18 | − 6 47.7 | 2.817 | 3.601 | 11.6 | 22.0 |
| 6 20 | 20 6.97 | − 6 50.7 | 2.725 | 3.599 | 9.5 | 21.9 |
| 6 30 | 20 1.28 | − 7 4.7 | 2.656 | 3.597 | 7.1 | 21.7 |
| 7 10 | 19 54.53 | − 7 29.5 | 2.611 | 3.595 | 4.8 | 21.6 |
| 7 20 | 19 47.22 | − 8 3.9 | 2.595 | 3.592 | 3.6 | 21.5 |
| 7 30 | 19 39.98 | − 8 46.0 | 2.606 | 3.589 | 4.8 | 21.6 |
| 8 9 | 19 33.45 | − 9 33.1 | 2.646 | 3.586 | 7.1 | 21.7 |
| 8 19 | 19 28.13 | −10 22.5 | 2.712 | 3.582 | 9.5 | 21.9 |

**5653** Camarillo 7 17.7 144°.20 5°.3/16.2 18 A

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 33.96 | −30 6.8 | 1.391 | 2.228 | 18.8 | 19.6 |
| 6 20 | 20 26.37 | −31 4.9 | 1.333 | 2.246 | 14.8 | 19.4 |
| 6 30 | 20 14.98 | −32 2.3 | 1.294 | 2.263 | 10.3 | 19.2 |
| 7 10 | 20 0.79 | −32 49.4 | 1.279 | 2.278 | 6.3 | 19.0 |
| 7 20 | 19 45.37 | −33 18.1 | 1.290 | 2.292 | 5.7 | 19.0 |
| 7 30 | 19 30.69 | −33 24.2 | 1.327 | 2.303 | 9.1 | 19.2 |
| 8 9 | 19 18.51 | −33 9.5 | 1.389 | 2.314 | 13.3 | 19.5 |
| 8 19 | 19 9.91 | −32 39.0 | 1.472 | 2.322 | 17.1 | 19.8 |

**309062** 2006 $UR_{324}$ 7 17.7 342°.69 0°.0/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.82 | −19 24.7 | 1.957 | 2.797 | 14.0 | 21.2 |
| 6 20 | 20 9.00 | −19 43.3 | 1.876 | 2.795 | 10.9 | 21.0 |
| 6 30 | 20 3.00 | −20 8.8 | 1.816 | 2.792 | 7.3 | 20.8 |
| 7 10 | 19 55.39 | −20 38.5 | 1.781 | 2.790 | 3.2 | 20.5 |
| 7 20 | 19 46.97 | −21 9.3 | 1.773 | 2.788 | 1.0 | 20.3 |
| 7 30 | 19 38.70 | −21 37.9 | 1.791 | 2.787 | 5.1 | 20.6 |
| 8 9 | 19 31.56 | −22 2.1 | 1.835 | 2.785 | 9.0 | 20.8 |
| 8 19 | 19 26.31 | −22 20.5 | 1.903 | 2.784 | 12.4 | 21.1 |

**346794** 2009 $BC_{157}$ 7 17.7 230°.58 1°.0/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.38 | −16 32.5 | 2.316 | 3.137 | 12.7 | 22.1 |
| 6 20 | 20 9.90 | −16 45.7 | 2.221 | 3.128 | 10.0 | 21.9 |
| 6 30 | 20 3.47 | −17 6.6 | 2.148 | 3.118 | 6.8 | 21.6 |
| 7 10 | 19 55.58 | −17 33.3 | 2.101 | 3.107 | 3.3 | 21.4 |
| 7 20 | 19 46.91 | −18 3.5 | 2.082 | 3.097 | 1.2 | 21.2 |
| 7 30 | 19 38.28 | −18 34.4 | 2.091 | 3.085 | 4.6 | 21.4 |
| 8 9 | 19 30.57 | −19 3.8 | 2.127 | 3.074 | 8.1 | 21.6 |
| 8 19 | 19 24.46 | −19 29.9 | 2.188 | 3.062 | 11.3 | 21.8 |

**299176** 2005 $GM_{71}$ 7 17.7 9°.65 5°.9/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.42 | −33 25.4 | 1.612 | 2.467 | 15.8 | 19.9 |
| 6 20 | 20 12.53 | −34 15.1 | 1.546 | 2.469 | 12.5 | 19.7 |
| 6 30 | 20 5.69 | −35 1.6 | 1.501 | 2.471 | 9.1 | 19.5 |
| 7 10 | 19 56.68 | −35 37.8 | 1.479 | 2.473 | 6.5 | 19.3 |
| 7 20 | 19 46.62 | −35 58.0 | 1.482 | 2.476 | 6.3 | 19.3 |
| 7 30 | 19 36.96 | −35 58.7 | 1.509 | 2.480 | 8.8 | 19.5 |
| 8 9 | 19 29.02 | −35 40.6 | 1.559 | 2.484 | 12.1 | 19.7 |
| 8 19 | 19 23.73 | −35 6.7 | 1.631 | 2.489 | 15.3 | 19.9 |

**300683** 2007 $VU_{30}$ 7 17.7 159°.68 2°.3/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.80 | −26 29.6 | 1.996 | 2.837 | 13.7 | 20.9 |
| 6 20 | 20 12.08 | −26 49.1 | 1.918 | 2.837 | 10.7 | 20.7 |
| 6 30 | 20 5.03 | −27 9.6 | 1.862 | 2.838 | 7.2 | 20.4 |
| 7 10 | 19 56.29 | −27 27.4 | 1.832 | 2.838 | 3.6 | 20.2 |
| 7 20 | 19 46.74 | −27 39.0 | 1.827 | 2.838 | 2.7 | 20.2 |
| 7 30 | 19 37.44 | −27 41.9 | 1.851 | 2.838 | 5.9 | 20.4 |
| 8 9 | 19 29.43 | −27 35.6 | 1.900 | 2.839 | 9.4 | 20.6 |
| 8 19 | 19 23.47 | −27 20.9 | 1.972 | 2.839 | 12.7 | 20.8 |

**131128** 2001 $BX_{31}$ 7 17.7 198°.81 0°.1/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.56 | −19 50.3 | 2.609 | 3.427 | 11.6 | 22.0 |
| 6 20 | 20 11.34 | −20 7.9 | 2.516 | 3.422 | 9.0 | 21.8 |
| 6 30 | 20 4.29 | −20 30.1 | 2.446 | 3.417 | 6.0 | 21.6 |
| 7 10 | 19 55.92 | −20 54.9 | 2.404 | 3.412 | 2.7 | 21.4 |
| 7 20 | 19 46.86 | −21 19.7 | 2.390 | 3.405 | 0.8 | 21.2 |
| 7 30 | 19 37.88 | −21 42.3 | 2.405 | 3.398 | 4.3 | 21.4 |
| 8 9 | 19 29.77 | −22 0.9 | 2.449 | 3.390 | 7.5 | 21.6 |
| 8 19 | 19 23.17 | −22 14.9 | 2.518 | 3.381 | 10.4 | 21.8 |

**218853** 2006 $VO_{51}$ 7 17.7 216°.08 1°.2/18.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.97 | −17 16.7 | 1.941 | 2.767 | 14.6 | 21.3 |
| 6 20 | 20 13.03 | −17 16.4 | 1.851 | 2.760 | 11.5 | 21.0 |
| 6 30 | 20 5.73 | −17 23.6 | 1.782 | 2.753 | 7.8 | 20.8 |
| 7 10 | 19 56.65 | −17 36.4 | 1.739 | 2.745 | 3.8 | 20.5 |
| 7 20 | 19 46.63 | −17 52.5 | 1.722 | 2.737 | 1.4 | 20.4 |
| 7 30 | 19 36.72 | −18 9.4 | 1.733 | 2.728 | 5.3 | 20.6 |
| 8 9 | 19 27.99 | −18 25.0 | 1.770 | 2.718 | 9.4 | 20.8 |
| 8 19 | 19 21.26 | −18 38.1 | 1.831 | 2.708 | 13.0 | 21.0 |

**513994** 2014 $HR_{89}$ 7 17.7 224°.70 4°.5/20.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.43 | − 6 10.4 | 2.370 | 3.159 | 13.4 | 22.4 |
| 6 20 | 20 8.27 | − 6 2.8 | 2.277 | 3.152 | 11.0 | 22.3 |
| 6 30 | 20 2.33 | − 6 8.1 | 2.204 | 3.145 | 8.4 | 22.1 |
| 7 10 | 19 55.07 | − 6 26.5 | 2.156 | 3.138 | 5.8 | 21.9 |
| 7 20 | 19 47.11 | − 6 57.2 | 2.135 | 3.130 | 4.5 | 21.8 |
| 7 30 | 19 39.21 | − 7 38.2 | 2.141 | 3.123 | 5.7 | 21.9 |
| 8 9 | 19 32.13 | − 8 26.4 | 2.174 | 3.114 | 8.3 | 22.0 |
| 8 19 | 19 26.52 | − 9 18.4 | 2.232 | 3.106 | 11.1 | 22.2 |

**392440** 2010 $RH_{120}$ 7 17.7 346°.91 6°.3/20.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.60 | − 5 55.3 | 1.805 | 2.616 | 16.2 | 20.1 |
| 6 20 | 20 7.35 | − 5 11.4 | 1.723 | 2.610 | 13.5 | 19.9 |
| 6 30 | 20 1.96 | − 4 41.9 | 1.661 | 2.604 | 10.4 | 19.7 |
| 7 10 | 19 54.97 | − 4 28.6 | 1.621 | 2.600 | 7.7 | 19.6 |
| 7 20 | 19 47.15 | − 4 32.1 | 1.605 | 2.596 | 6.3 | 19.5 |
| 7 30 | 19 39.46 | − 4 51.3 | 1.614 | 2.592 | 7.6 | 19.6 |
| 8 9 | 19 32.86 | − 5 23.1 | 1.647 | 2.589 | 10.4 | 19.7 |
| 8 19 | 19 28.12 | − 6 3.5 | 1.702 | 2.587 | 13.5 | 19.9 |

**513795** 2013 $CB_{43}$ 7 17.7 223°.60 0°.6/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.80 | −16 41.4 | 2.628 | 3.444 | 11.5 | 22.7 |
| 6 20 | 20 9.25 | −17 8.4 | 2.529 | 3.433 | 9.0 | 22.5 |
| 6 30 | 20 2.96 | −17 42.9 | 2.454 | 3.423 | 6.1 | 22.3 |
| 7 10 | 19 55.35 | −18 22.7 | 2.405 | 3.411 | 2.9 | 22.1 |
| 7 20 | 19 47.03 | −19 5.3 | 2.385 | 3.400 | 0.9 | 21.9 |
| 7 30 | 19 38.73 | −19 47.9 | 2.393 | 3.387 | 4.2 | 22.1 |
| 8 9 | 19 31.19 | −20 27.8 | 2.430 | 3.375 | 7.4 | 22.3 |
| 8 19 | 19 25.06 | −21 3.4 | 2.493 | 3.361 | 10.3 | 22.5 |

**462563** 2009 $DK_{49}$ 7 17.7 20°.99 3°.8/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.17 | −26 57.0 | 0.976 | 1.866 | 20.9 | 20.3 |
| 6 20 | 20 11.83 | −27 21.3 | 0.929 | 1.874 | 16.2 | 20.1 |
| 6 30 | 20 5.68 | −27 47.7 | 0.898 | 1.884 | 10.9 | 19.8 |
| 7 10 | 19 56.75 | −28 9.0 | 0.887 | 1.896 | 5.7 | 19.6 |
| 7 20 | 19 46.65 | −28 19.0 | 0.897 | 1.908 | 4.3 | 19.5 |
| 7 30 | 19 37.31 | −28 14.1 | 0.929 | 1.923 | 8.8 | 19.9 |
| 8 9 | 19 30.42 | −27 54.8 | 0.980 | 1.938 | 13.9 | 20.2 |
| 8 19 | 19 26.94 | −27 23.9 | 1.051 | 1.955 | 18.3 | 20.5 |

**89288** 2001 $VU_{18}$ 7 17.7 120°.26 3°.2/19.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.04 | −12 11.5 | 1.910 | 2.725 | 15.2 | 19.4 |
| 6 20 | 20 12.06 | −11 57.0 | 1.838 | 2.737 | 12.1 | 19.2 |
| 6 30 | 20 4.90 | −11 53.1 | 1.788 | 2.749 | 8.6 | 19.0 |
| 7 10 | 19 56.21 | −11 59.3 | 1.763 | 2.761 | 5.0 | 18.9 |
| 7 20 | 19 46.81 | −12 14.0 | 1.763 | 2.772 | 3.2 | 18.8 |
| 7 30 | 19 37.71 | −12 35.0 | 1.792 | 2.783 | 5.6 | 18.9 |
| 8 9 | 19 29.84 | −12 59.7 | 1.846 | 2.793 | 9.1 | 19.2 |
| 8 19 | 19 23.93 | −13 25.5 | 1.924 | 2.803 | 12.4 | 19.4 |

**184965** 2005 $WX_{167}$ 7 17.7 347°.12 2°.1/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.28 | −23 48.5 | 1.787 | 2.642 | 14.5 | 19.9 |
| 6 20 | 20 8.17 | −24 31.5 | 1.708 | 2.635 | 11.2 | 19.7 |
| 6 30 | 20 2.66 | −25 20.0 | 1.650 | 2.629 | 7.5 | 19.4 |
| 7 10 | 19 55.33 | −26 9.6 | 1.616 | 2.624 | 3.6 | 19.2 |
| 7 20 | 19 47.05 | −26 55.3 | 1.607 | 2.619 | 2.6 | 19.1 |
| 7 30 | 19 38.91 | −27 32.7 | 1.625 | 2.615 | 6.2 | 19.3 |
| 8 9 | 19 32.00 | −27 59.4 | 1.668 | 2.612 | 10.1 | 19.5 |
| 8 19 | 19 27.19 | −28 14.7 | 1.732 | 2.609 | 13.6 | 19.8 |

**184731** 2005 $SY_{180}$ 7 17.7 146°.24 1°.1/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.74 | −23 42.5 | 2.308 | 3.142 | 12.3 | 21.0 |
| 6 20 | 20 10.13 | −23 56.5 | 2.228 | 3.144 | 9.5 | 20.9 |
| 6 30 | 20 3.57 | −24 12.8 | 2.171 | 3.146 | 6.3 | 20.7 |
| 7 10 | 19 55.62 | −24 28.9 | 2.139 | 3.147 | 2.9 | 20.4 |
| 7 20 | 19 46.99 | −24 42.1 | 2.135 | 3.149 | 1.5 | 20.3 |
| 7 30 | 19 38.56 | −24 50.3 | 2.159 | 3.150 | 4.8 | 20.6 |
| 8 9 | 19 31.18 | −24 52.4 | 2.210 | 3.151 | 8.1 | 20.8 |
| 8 19 | 19 25.51 | −24 48.6 | 2.285 | 3.153 | 11.1 | 21.0 |

**328191** 2008 $DF_{81}$ 7 17.7 50°.78 1°.6/18.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.17 | −16 21.7 | 1.328 | 2.181 | 18.6 | 20.9 |
| 6 20 | 20 12.22 | −16 24.3 | 1.273 | 2.196 | 14.6 | 20.7 |
| 6 30 | 20 5.39 | −16 38.7 | 1.236 | 2.213 | 9.8 | 20.4 |
| 7 10 | 19 56.51 | −17 2.1 | 1.222 | 2.229 | 4.8 | 20.2 |
| 7 20 | 19 46.75 | −17 30.9 | 1.232 | 2.246 | 1.9 | 20.0 |
| 7 30 | 19 37.50 | −18 0.9 | 1.266 | 2.264 | 6.4 | 20.4 |
| 8 9 | 19 30.05 | −18 28.7 | 1.324 | 2.281 | 11.0 | 20.7 |
| 8 19 | 19 25.21 | −18 52.3 | 1.403 | 2.299 | 15.1 | 21.0 |

**218968** 2008 $FS_{29}$ 7 17.7 357°.50 1°.8/17.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.47 | −23 33.8 | 1.088 | 1.973 | 19.6 | 19.5 |
| 6 20 | 20 9.55 | −23 44.9 | 1.024 | 1.968 | 15.3 | 19.3 |
| 6 30 | 20 4.18 | −24 1.9 | 0.978 | 1.964 | 10.2 | 19.0 |
| 7 10 | 19 56.16 | −24 20.0 | 0.952 | 1.962 | 4.7 | 18.7 |
| 7 20 | 19 46.82 | −24 34.1 | 0.947 | 1.962 | 2.4 | 18.5 |
| 7 30 | 19 37.87 | −24 40.0 | 0.965 | 1.962 | 7.8 | 18.8 |
| 8 9 | 19 30.96 | −24 36.0 | 1.003 | 1.965 | 13.1 | 19.1 |
| 8 19 | 19 27.16 | −24 22.9 | 1.060 | 1.968 | 17.8 | 19.4 |

**308566** 2005 $UL_{371}$ 7 17.7 265°.34 0°.1/17.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.10 | −20 7.4 | 1.703 | 2.546 | 15.6 | 21.2 |
| 6 20 | 20 11.93 | −20 20.6 | 1.621 | 2.541 | 12.2 | 21.0 |
| 6 30 | 20 5.17 | −20 40.7 | 1.559 | 2.536 | 8.1 | 20.8 |
| 7 10 | 19 56.47 | −21 4.8 | 1.522 | 2.531 | 3.6 | 20.5 |
| 7 20 | 19 46.73 | −21 29.3 | 1.510 | 2.526 | 1.1 | 20.3 |
| 7 30 | 19 37.17 | −21 50.8 | 1.525 | 2.520 | 5.8 | 20.6 |
| 8 9 | 19 28.96 | −22 7.2 | 1.565 | 2.515 | 10.2 | 20.8 |
| 8 19 | 19 22.99 | −22 17.4 | 1.627 | 2.510 | 14.1 | 21.1 |

**330670** 2008 $GP_{122}$ 7 17.7 82°.32 0°.9/17.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.94 | −21 6.7 | 1.552 | 2.400 | 16.6 | 21.3 |
| 6 20 | 20 13.37 | −21 36.6 | 1.491 | 2.414 | 12.9 | 21.1 |
| 6 30 | 20 6.07 | −22 13.4 | 1.450 | 2.428 | 8.5 | 20.9 |
| 7 10 | 19 56.81 | −22 52.9 | 1.432 | 2.442 | 3.8 | 20.7 |
| 7 20 | 19 46.67 | −23 30.0 | 1.441 | 2.455 | 1.6 | 20.6 |
| 7 30 | 19 36.95 | −24 0.7 | 1.475 | 2.469 | 6.2 | 20.9 |
| 8 9 | 19 28.85 | −24 22.7 | 1.534 | 2.483 | 10.5 | 21.2 |
| 8 19 | 19 23.23 | −24 35.6 | 1.615 | 2.496 | 14.3 | 21.4 |

**84576** 2002 $VH_{16}$ 7 17.7 96°.05 0°.7/18.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.21 | −18 0.0 | 2.111 | 2.939 | 13.5 | 20.1 |
| 6 20 | 20 10.51 | −18 10.1 | 2.041 | 2.953 | 10.5 | 20.0 |
| 6 30 | 20 3.82 | −18 26.9 | 1.994 | 2.966 | 7.0 | 19.8 |
| 7 10 | 19 55.72 | −18 48.0 | 1.973 | 2.980 | 3.2 | 19.6 |
| 7 20 | 19 47.00 | −19 10.9 | 1.978 | 2.993 | 1.0 | 19.4 |
| 7 30 | 19 38.57 | −19 33.2 | 2.011 | 3.006 | 4.7 | 19.7 |
| 8 9 | 19 31.27 | −19 52.8 | 2.071 | 3.019 | 8.2 | 20.0 |
| 8 19 | 19 25.75 | −20 8.7 | 2.156 | 3.032 | 11.4 | 20.2 |

**279430** 2010 $NY_{30}$ 7 17.7 298°.43 1°.3/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.36 | −21 32.8 | 2.127 | 2.967 | 13.0 | 20.4 |
| 6 20 | 20 8.67 | −22 21.0 | 2.036 | 2.955 | 10.1 | 20.1 |
| 6 30 | 20 2.86 | −23 16.3 | 1.966 | 2.943 | 6.7 | 19.9 |
| 7 10 | 19 55.42 | −24 14.9 | 1.922 | 2.931 | 3.1 | 19.7 |
| 7 20 | 19 47.06 | −25 12.3 | 1.905 | 2.919 | 1.8 | 19.5 |
| 7 30 | 19 38.72 | −26 4.3 | 1.916 | 2.907 | 5.4 | 19.8 |
| 8 9 | 19 31.35 | −26 47.7 | 1.953 | 2.895 | 9.0 | 20.0 |
| 8 19 | 19 25.74 | −27 21.2 | 2.014 | 2.884 | 12.3 | 20.2 |

**480592** 2015 $MJ_{85}$ 7 17.7 357°.65 0°.2/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.35 | −19 27.5 | 1.976 | 2.814 | 13.9 | 21.3 |
| 6 20 | 20 9.37 | −19 38.0 | 1.896 | 2.814 | 10.8 | 21.1 |
| 6 30 | 20 3.25 | −19 54.7 | 1.838 | 2.813 | 7.2 | 20.9 |
| 7 10 | 19 55.54 | −20 15.3 | 1.804 | 2.813 | 3.3 | 20.6 |
| 7 20 | 19 47.05 | −20 37.1 | 1.797 | 2.812 | 0.9 | 20.5 |
| 7 30 | 19 38.75 | −20 57.2 | 1.817 | 2.813 | 5.0 | 20.8 |
| 8 9 | 19 31.59 | −21 13.7 | 1.863 | 2.813 | 8.9 | 21.0 |
| 8 19 | 19 26.30 | −21 25.6 | 1.932 | 2.813 | 12.3 | 21.2 |

**473149** 2015 $KU_{12}$ 7 17.7 91°.47 0°.7/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.87 | −15 35.8 | 1.934 | 2.762 | 14.6 | 21.3 |
| 6 20 | 20 10.48 | −16 18.0 | 1.865 | 2.776 | 11.4 | 21.1 |
| 6 30 | 20 3.93 | −17 10.9 | 1.819 | 2.790 | 7.6 | 20.9 |
| 7 10 | 19 55.82 | −18 11.3 | 1.797 | 2.804 | 3.5 | 20.7 |
| 7 20 | 19 46.98 | −19 14.7 | 1.803 | 2.818 | 1.1 | 20.5 |
| 7 30 | 19 38.38 | −20 16.5 | 1.836 | 2.832 | 5.0 | 20.8 |
| 8 9 | 19 30.96 | −21 12.9 | 1.896 | 2.845 | 8.8 | 21.1 |
| 8 19 | 19 25.45 | −22 1.6 | 1.980 | 2.858 | 12.1 | 21.3 |

**27807** 1993 $FF_{49}$ 7 17.7 223°.82 2°.5/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.41 | −28 19.1 | 2.719 | 3.545 | 10.9 | 19.4 |
| 6 20 | 20 11.31 | −28 48.2 | 2.625 | 3.535 | 8.5 | 19.2 |
| 6 30 | 20 4.34 | −29 17.6 | 2.554 | 3.524 | 5.8 | 19.0 |
| 7 10 | 19 55.99 | −29 43.7 | 2.510 | 3.513 | 3.3 | 18.9 |
| 7 20 | 19 46.92 | −30 3.5 | 2.495 | 3.501 | 2.8 | 18.8 |
| 7 30 | 19 37.93 | −30 14.8 | 2.509 | 3.489 | 5.1 | 18.9 |
| 8 9 | 19 29.82 | −30 16.7 | 2.550 | 3.476 | 7.9 | 19.1 |
| 8 19 | 19 23.27 | −30 9.8 | 2.615 | 3.462 | 10.6 | 19.3 |

**481585** 2007 $TX_{149}$ 7 17.7 302°.16 9°.2/21.1 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.43 | + 0 28.5 | 1.793 | 2.574 | 17.4 | 20.9 |
| 6 20 | 20 8.23 | + 1 24.8 | 1.694 | 2.551 | 15.1 | 20.7 |
| 6 30 | 20 2.75 | + 2 3.5 | 1.613 | 2.528 | 12.6 | 20.5 |
| 7 10 | 19 55.44 | + 2 20.5 | 1.553 | 2.506 | 10.3 | 20.3 |
| 7 20 | 19 47.05 | + 2 13.5 | 1.516 | 2.483 | 9.2 | 20.2 |
| 7 30 | 19 38.56 | + 1 42.2 | 1.503 | 2.461 | 10.0 | 20.2 |
| 8 9 | 19 31.05 | + 0 49.9 | 1.513 | 2.439 | 12.3 | 20.3 |
| 8 19 | 19 25.41 | − 0 18.0 | 1.544 | 2.417 | 15.2 | 20.4 |

**358956** 2008 $KJ_{28}$ 7 17.7 339°.91 5°.5/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.25 | −34 3.2 | 2.110 | 2.951 | 13.1 | 20.5 |
| 6 20 | 20 11.09 | −35 5.7 | 2.035 | 2.948 | 10.4 | 20.4 |
| 6 30 | 20 4.53 | −36 6.0 | 1.983 | 2.946 | 7.7 | 20.2 |
| 7 10 | 19 56.17 | −36 58.0 | 1.955 | 2.943 | 5.8 | 20.1 |
| 7 20 | 19 46.88 | −37 36.5 | 1.954 | 2.940 | 5.8 | 20.1 |
| 7 30 | 19 37.76 | −37 58.0 | 1.979 | 2.938 | 7.9 | 20.2 |
| 8 9 | 19 29.90 | −38 1.8 | 2.028 | 2.936 | 10.6 | 20.3 |
| 8 19 | 19 24.13 | −37 49.8 | 2.100 | 2.934 | 13.2 | 20.5 |

**331365** 2012 $DM_{34}$ 7 17.7 58°.36 1°.6/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.00 | −24 4.6 | 1.432 | 2.287 | 17.4 | 20.4 |
| 6 20 | 20 14.55 | −24 15.1 | 1.365 | 2.292 | 13.5 | 20.2 |
| 6 30 | 20 7.06 | −24 29.2 | 1.317 | 2.296 | 9.0 | 19.9 |
| 7 10 | 19 57.33 | −24 42.6 | 1.292 | 2.301 | 4.1 | 19.6 |
| 7 20 | 19 46.56 | −24 51.1 | 1.292 | 2.306 | 2.2 | 19.5 |
| 7 30 | 19 36.21 | −24 51.7 | 1.317 | 2.311 | 6.8 | 19.8 |
| 8 9 | 19 27.67 | −24 43.8 | 1.366 | 2.316 | 11.4 | 20.1 |
| 8 19 | 19 21.87 | −24 28.3 | 1.436 | 2.321 | 15.5 | 20.4 |

**89792** 2002 $AP_{120}$ 7 17.7 162°.33 1°.7/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.48 | −26 18.7 | 2.428 | 3.258 | 11.9 | 19.5 |
| 6 20 | 20 11.39 | −26 27.1 | 2.347 | 3.260 | 9.2 | 19.3 |
| 6 30 | 20 4.37 | −26 35.7 | 2.289 | 3.262 | 6.2 | 19.1 |
| 7 10 | 19 55.98 | −26 41.7 | 2.258 | 3.264 | 3.0 | 18.9 |
| 7 20 | 19 46.97 | −26 42.9 | 2.254 | 3.266 | 2.0 | 18.9 |
| 7 30 | 19 38.18 | −26 37.5 | 2.279 | 3.267 | 4.9 | 19.1 |
| 8 9 | 19 30.46 | −26 25.4 | 2.331 | 3.269 | 8.0 | 19.3 |
| 8 19 | 19 24.44 | −26 7.2 | 2.408 | 3.270 | 10.9 | 19.5 |

**470421** 2007 $VK_{169}$ 7 17.7 223°.89 3°.5/16.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.57 | −25 39.0 | 1.583 | 2.434 | 16.2 | 21.5 |
| 6 20 | 20 14.28 | −26 39.7 | 1.505 | 2.430 | 12.7 | 21.3 |
| 6 30 | 20 7.01 | −27 46.3 | 1.448 | 2.425 | 8.6 | 21.0 |
| 7 10 | 19 57.40 | −28 52.0 | 1.415 | 2.420 | 4.7 | 20.8 |
| 7 20 | 19 46.52 | −29 49.7 | 1.407 | 2.415 | 4.0 | 20.7 |
| 7 30 | 19 35.76 | −30 33.4 | 1.426 | 2.410 | 7.7 | 20.9 |
| 8 9 | 19 26.56 | −31 0.7 | 1.468 | 2.405 | 11.9 | 21.2 |
| 8 19 | 19 19.99 | −31 12.1 | 1.532 | 2.399 | 15.7 | 21.4 |

**247014** 1999 $VH_{201}$ 7 17.7 307°.22 8°.1/14.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.72 | −43 16.5 | 2.154 | 2.975 | 13.6 | 19.7 |
| 6 20 | 20 15.58 | −44 9.3 | 2.078 | 2.966 | 11.4 | 19.6 |
| 6 30 | 20 7.62 | −44 52.9 | 2.023 | 2.957 | 9.5 | 19.4 |
| 7 10 | 19 57.57 | −45 20.6 | 1.992 | 2.948 | 8.2 | 19.3 |
| 7 20 | 19 46.49 | −45 26.9 | 1.986 | 2.939 | 8.4 | 19.3 |
| 7 30 | 19 35.73 | −45 9.6 | 2.004 | 2.930 | 9.9 | 19.4 |
| 8 9 | 19 26.55 | −44 30.1 | 2.046 | 2.922 | 12.0 | 19.5 |
| 8 19 | 19 19.89 | −43 32.4 | 2.109 | 2.913 | 14.2 | 19.6 |

**210538** 1999 $LO_{3}$ 7 17.7 83°.88 4°.3/19.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.16 | −10 5.6 | 1.418 | 2.250 | 18.7 | 20.7 |
| 6 20 | 20 12.15 | − 9 58.7 | 1.352 | 2.259 | 15.1 | 20.5 |
| 6 30 | 20 5.38 | −10 8.8 | 1.305 | 2.268 | 10.9 | 20.2 |
| 7 10 | 19 56.58 | −10 35.2 | 1.279 | 2.276 | 6.6 | 20.0 |
| 7 20 | 19 46.80 | −11 15.5 | 1.277 | 2.285 | 4.3 | 19.9 |
| 7 30 | 19 37.35 | −12 5.3 | 1.300 | 2.293 | 7.0 | 20.1 |
| 8 9 | 19 29.48 | −12 59.4 | 1.347 | 2.302 | 11.1 | 20.3 |
| 8 19 | 19 24.07 | −13 53.1 | 1.416 | 2.310 | 15.1 | 20.6 |

**118872** 2000 $TW_{13}$ 7 17.7 274°.43 0°.1/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.49 | −19 34.3 | 2.255 | 3.086 | 12.7 | 20.9 |
| 6 20 | 20 9.35 | −19 46.1 | 2.159 | 3.072 | 9.9 | 20.7 |
| 6 30 | 20 3.21 | −20 3.6 | 2.084 | 3.058 | 6.6 | 20.4 |
| 7 10 | 19 55.56 | −20 24.6 | 2.036 | 3.044 | 3.0 | 20.2 |
| 7 20 | 19 47.09 | −20 46.6 | 2.014 | 3.030 | 0.9 | 20.0 |
| 7 30 | 19 38.68 | −21 7.2 | 2.021 | 3.016 | 4.7 | 20.2 |
| 8 9 | 19 31.19 | −21 24.4 | 2.054 | 3.001 | 8.3 | 20.4 |
| 8 19 | 19 25.36 | −21 37.2 | 2.112 | 2.987 | 11.6 | 20.6 |

**379587** 2011 $BE_{100}$ 7 17.7 155°.30 3°.5/19.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.23 | −11 25.2 | 1.849 | 2.666 | 15.6 | 21.7 |
| 6 20 | 20 11.64 | −11 13.9 | 1.771 | 2.670 | 12.5 | 21.5 |
| 6 30 | 20 4.78 | −11 14.6 | 1.714 | 2.674 | 9.0 | 21.3 |
| 7 10 | 19 56.26 | −11 26.6 | 1.680 | 2.678 | 5.3 | 21.1 |
| 7 20 | 19 46.91 | −11 48.4 | 1.673 | 2.681 | 3.5 | 21.0 |
| 7 30 | 19 37.77 | −12 17.4 | 1.692 | 2.684 | 5.9 | 21.2 |
| 8 9 | 19 29.85 | −12 50.5 | 1.737 | 2.686 | 9.5 | 21.4 |
| 8 19 | 19 23.91 | −13 24.8 | 1.806 | 2.688 | 12.9 | 21.6 |

**81148** 2000 $EN_{145}$ 7 17.7 100°.70 2°.3/18.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.70 | −15 29.5 | 1.651 | 2.484 | 16.5 | 19.5 |
| 6 20 | 20 12.98 | −15 15.0 | 1.581 | 2.492 | 13.0 | 19.3 |
| 6 30 | 20 5.74 | −15 9.8 | 1.531 | 2.501 | 8.9 | 19.1 |
| 7 10 | 19 56.69 | −15 12.8 | 1.506 | 2.510 | 4.7 | 18.9 |
| 7 20 | 19 46.80 | −15 21.9 | 1.506 | 2.518 | 2.4 | 18.8 |
| 7 30 | 19 37.26 | −15 35.0 | 1.532 | 2.527 | 5.9 | 19.0 |
| 8 9 | 19 29.17 | −15 49.5 | 1.583 | 2.535 | 10.0 | 19.3 |
| 8 19 | 19 23.34 | −16 3.8 | 1.657 | 2.543 | 13.7 | 19.5 |

**68853** Vaimaca 7 17.7 57°.07 4°.4/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 24.40 | −32 4.6 | 1.541 | 2.386 | 16.8 | 18.5 |
| 6 20 | 20 18.25 | −32 11.6 | 1.493 | 2.411 | 13.2 | 18.3 |
| 6 30 | 20 9.14 | −32 13.5 | 1.466 | 2.437 | 9.1 | 18.2 |
| 7 10 | 19 58.09 | −32 4.9 | 1.462 | 2.462 | 5.5 | 18.0 |
| 7 20 | 19 46.44 | −31 42.6 | 1.484 | 2.488 | 4.6 | 18.0 |
| 7 30 | 19 35.66 | −31 6.3 | 1.532 | 2.514 | 7.5 | 18.3 |
| 8 9 | 19 26.97 | −30 18.6 | 1.604 | 2.540 | 11.1 | 18.5 |
| 8 19 | 19 21.10 | −29 23.5 | 1.699 | 2.565 | 14.4 | 18.8 |

**259394** 2003 $OK_{11}$ 7 17.7 344°.91 7°.9/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.57 | − 3 38.1 | 1.928 | 2.720 | 15.9 | 19.5 |
| 6 20 | 20 8.75 | − 2 15.6 | 1.844 | 2.713 | 13.5 | 19.3 |
| 6 30 | 20 2.85 | − 1 5.4 | 1.780 | 2.706 | 11.0 | 19.1 |
| 7 10 | 19 55.41 | − 0 11.0 | 1.739 | 2.700 | 8.8 | 19.0 |
| 7 20 | 19 47.16 | + 0 25.0 | 1.722 | 2.695 | 7.9 | 18.9 |
| 7 30 | 19 39.04 | + 0 41.7 | 1.731 | 2.690 | 8.8 | 18.9 |
| 8 9 | 19 31.95 | + 0 40.6 | 1.763 | 2.686 | 11.1 | 19.1 |
| 8 19 | 19 26.64 | + 0 25.0 | 1.817 | 2.682 | 13.7 | 19.2 |

**144142** 2004 $BU_{92}$ 7 17.7 313°.68 10°.0/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 9.34 | − 1 26.4 | 1.297 | 2.118 | 20.8 | 19.2 |
| 6 20 | 20 7.56 | − 0 36.9 | 1.200 | 2.087 | 18.0 | 18.9 |
| 6 30 | 20 2.88 | − 0 9.8 | 1.119 | 2.058 | 14.8 | 18.6 |
| 7 10 | 19 55.75 | − 0 10.9 | 1.057 | 2.028 | 11.7 | 18.4 |
| 7 20 | 19 47.00 | − 0 43.9 | 1.014 | 1.999 | 10.1 | 18.2 |
| 7 30 | 19 37.95 | − 1 48.3 | 0.994 | 1.971 | 11.2 | 18.2 |
| 8 9 | 19 30.11 | − 3 18.4 | 0.994 | 1.944 | 14.6 | 18.3 |
| 8 19 | 19 24.78 | − 5 5.4 | 1.013 | 1.918 | 18.8 | 18.4 |

**87855** 2000 $SB_{220}$ 7 17.7 243°.90 0°.2/17.6 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.63 | −18 56.9 | 2.025 | 2.856 | 13.9 | 19.8 |
| 6 20 | 20 11.30 | −19 30.1 | 1.930 | 2.844 | 10.9 | 19.6 |
| 6 30 | 20 4.68 | −20 11.7 | 1.858 | 2.832 | 7.3 | 19.3 |
| 7 10 | 19 56.30 | −20 58.8 | 1.810 | 2.819 | 3.3 | 19.1 |
| 7 20 | 19 46.92 | −21 47.2 | 1.790 | 2.806 | 1.0 | 18.9 |
| 7 30 | 19 37.54 | −22 33.0 | 1.798 | 2.792 | 5.3 | 19.1 |
| 8 9 | 19 29.20 | −23 13.0 | 1.832 | 2.778 | 9.3 | 19.4 |
| 8 19 | 19 22.76 | −23 45.4 | 1.890 | 2.764 | 12.8 | 19.5 |

**324890** 2007 $UK_{132}$ 7 17.7 254°.49 2°.6/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.61 | −23 34.9 | 1.578 | 2.429 | 16.3 | 21.2 |
| 6 20 | 20 13.59 | −24 28.9 | 1.494 | 2.419 | 12.7 | 20.9 |
| 6 30 | 20 6.62 | −25 30.8 | 1.430 | 2.408 | 8.6 | 20.7 |
| 7 10 | 19 57.30 | −26 34.9 | 1.390 | 2.398 | 4.2 | 20.4 |
| 7 20 | 19 46.62 | −27 34.3 | 1.375 | 2.387 | 3.1 | 20.3 |
| 7 30 | 19 35.98 | −28 23.0 | 1.387 | 2.375 | 7.3 | 20.5 |
| 8 9 | 19 26.79 | −28 57.4 | 1.422 | 2.364 | 11.8 | 20.7 |
| 8 19 | 19 20.17 | −29 17.3 | 1.479 | 2.352 | 15.8 | 21.0 |

**20769** 2000 $QM_{65}$ 7 17.7 313°.86 3°.1/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.57 | −23 57.4 | 1.421 | 2.287 | 16.9 | 18.3 |
| 6 20 | 20 10.19 | −24 52.1 | 1.324 | 2.258 | 13.3 | 18.0 |
| 6 30 | 20 4.70 | −25 56.9 | 1.247 | 2.229 | 9.1 | 17.6 |
| 7 10 | 19 56.59 | −27 6.1 | 1.193 | 2.201 | 4.6 | 17.3 |
| 7 20 | 19 46.79 | −28 12.2 | 1.162 | 2.173 | 3.7 | 17.2 |
| 7 30 | 19 36.75 | −29 7.7 | 1.156 | 2.146 | 8.2 | 17.3 |
| 8 9 | 19 28.10 | −29 47.6 | 1.172 | 2.119 | 13.2 | 17.5 |
| 8 19 | 19 22.17 | −30 10.7 | 1.208 | 2.093 | 17.7 | 17.7 |

**478527** 2012 $SW_{60}$ 7 17.7 309°.02 1°.9/18.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.68 | −16 4.9 | 1.627 | 2.469 | 16.2 | 21.4 |
| 6 20 | 20 10.21 | −16 0.2 | 1.539 | 2.457 | 12.9 | 21.1 |
| 6 30 | 20 4.16 | −16 5.2 | 1.471 | 2.445 | 8.9 | 20.9 |
| 7 10 | 19 56.13 | −16 18.7 | 1.426 | 2.432 | 4.5 | 20.6 |
| 7 20 | 19 46.99 | −16 38.5 | 1.407 | 2.421 | 2.0 | 20.4 |
| 7 30 | 19 37.92 | −17 1.5 | 1.412 | 2.409 | 6.0 | 20.6 |
| 8 9 | 19 30.15 | −17 24.9 | 1.443 | 2.398 | 10.5 | 20.9 |
| 8 19 | 19 24.59 | −17 46.3 | 1.495 | 2.387 | 14.5 | 21.1 |

**206621** 2003 $WY_{123}$ 7 17.7 190°.89 1°.9/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.58 | −15 31.5 | 2.475 | 3.285 | 12.3 | 21.0 |
| 6 20 | 20 11.37 | −15 13.9 | 2.385 | 3.284 | 9.7 | 20.8 |
| 6 30 | 20 4.35 | −15 2.0 | 2.318 | 3.282 | 6.7 | 20.6 |
| 7 10 | 19 56.02 | −14 55.3 | 2.277 | 3.279 | 3.6 | 20.4 |
| 7 20 | 19 47.06 | −14 52.7 | 2.265 | 3.277 | 2.0 | 20.3 |
| 7 30 | 19 38.23 | −14 53.0 | 2.281 | 3.273 | 4.5 | 20.5 |
| 8 9 | 19 30.34 | −14 55.1 | 2.325 | 3.270 | 7.7 | 20.7 |
| 8 19 | 19 23.99 | −14 58.0 | 2.395 | 3.265 | 10.6 | 20.8 |

**80582** 2000 $AY_{125}$ 7 17.7 276°.47 0°.2/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.11 | −20 44.9 | 1.593 | 2.438 | 16.4 | 18.6 |
| 6 20 | 20 13.81 | −20 37.0 | 1.503 | 2.424 | 12.9 | 18.4 |
| 6 30 | 20 6.65 | −20 34.2 | 1.433 | 2.410 | 8.7 | 18.1 |
| 7 10 | 19 57.27 | −20 34.2 | 1.387 | 2.396 | 4.0 | 17.8 |
| 7 20 | 19 46.66 | −20 34.2 | 1.366 | 2.381 | 1.1 | 17.5 |
| 7 30 | 19 36.15 | −20 32.0 | 1.371 | 2.367 | 6.2 | 17.8 |
| 8 9 | 19 27.08 | −20 26.2 | 1.400 | 2.352 | 11.0 | 18.1 |
| 8 19 | 19 20.47 | −20 16.9 | 1.451 | 2.338 | 15.2 | 18.3 |

**429492** 2011 $AZ_{52}$ 7 17.7 213°.87 1°.5/17.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.71 | −22 58.5 | 2.023 | 2.855 | 13.9 | 22.6 |
| 6 20 | 20 13.69 | −23 32.8 | 1.933 | 2.848 | 10.8 | 22.4 |
| 6 30 | 20 6.27 | −24 12.2 | 1.866 | 2.841 | 7.2 | 22.1 |
| 7 10 | 19 57.02 | −24 52.7 | 1.824 | 2.832 | 3.4 | 21.9 |
| 7 20 | 19 46.76 | −25 29.9 | 1.810 | 2.823 | 2.0 | 21.8 |
| 7 30 | 19 36.58 | −26 0.2 | 1.824 | 2.814 | 5.7 | 22.0 |
| 8 9 | 19 27.56 | −26 21.5 | 1.864 | 2.803 | 9.6 | 22.2 |
| 8 19 | 19 20.58 | −26 33.4 | 1.928 | 2.792 | 13.0 | 22.4 |

**86417** 2000 $AM_{242}$ 7 17.8 247°.82 4°.7/20.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.08 | − 3 20.8 | 2.978 | 3.743 | 11.5 | 20.3 |
| 6 20 | 20 6.95 | − 3 7.5 | 2.870 | 3.726 | 9.6 | 20.2 |
| 6 30 | 20 1.37 | − 3 5.5 | 2.784 | 3.708 | 7.6 | 20.0 |
| 7 10 | 19 54.71 | − 3 15.5 | 2.723 | 3.690 | 5.7 | 19.9 |
| 7 20 | 19 47.45 | − 3 37.4 | 2.688 | 3.671 | 4.7 | 19.8 |
| 7 30 | 19 40.18 | − 4 9.9 | 2.682 | 3.652 | 5.5 | 19.8 |
| 8 9 | 19 33.50 | − 4 50.8 | 2.703 | 3.633 | 7.4 | 19.9 |
| 8 19 | 19 27.95 | − 5 37.6 | 2.750 | 3.613 | 9.6 | 20.0 |

**439545** 2014 $DR_{11}$ 7 17.8 194°.04 6°.6/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.77 | − 1 53.1 | 2.072 | 2.850 | 15.4 | 21.6 |
| 6 20 | 20 8.77 | − 1 30.5 | 1.988 | 2.849 | 13.0 | 21.4 |
| 6 30 | 20 2.81 | − 1 24.6 | 1.924 | 2.849 | 10.3 | 21.3 |
| 7 10 | 19 55.41 | − 1 36.8 | 1.882 | 2.848 | 7.9 | 21.1 |
| 7 20 | 19 47.25 | − 2 7.0 | 1.865 | 2.847 | 6.6 | 21.0 |
| 7 30 | 19 39.20 | − 2 53.1 | 1.875 | 2.845 | 7.4 | 21.1 |
| 8 9 | 19 32.13 | − 3 51.2 | 1.910 | 2.844 | 9.7 | 21.2 |
| 8 19 | 19 26.72 | − 4 56.7 | 1.969 | 2.842 | 12.4 | 21.4 |

**84026** 2002 $PO_{42}$ 7 17.8 335°.62 2°.3/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.73 | −13 5.4 | 1.268 | 2.126 | 19.0 | 18.7 |
| 6 20 | 20 8.56 | −13 29.7 | 1.191 | 2.116 | 15.2 | 18.4 |
| 6 30 | 20 3.43 | −14 12.9 | 1.131 | 2.107 | 10.6 | 18.2 |
| 7 10 | 19 55.93 | −15 12.9 | 1.092 | 2.098 | 5.5 | 17.8 |
| 7 20 | 19 47.08 | −16 25.0 | 1.076 | 2.090 | 2.4 | 17.6 |
| 7 30 | 19 38.31 | −17 42.2 | 1.084 | 2.083 | 6.8 | 17.9 |
| 8 9 | 19 31.08 | −18 57.4 | 1.115 | 2.077 | 12.0 | 18.1 |
| 8 19 | 19 26.50 | −20 5.0 | 1.166 | 2.072 | 16.7 | 18.4 |

**365630** 2010 $UO_{62}$ 7 17.8 243°.20 3°.7/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.23 | −31 52.7 | 2.549 | 3.380 | 11.4 | 21.6 |
| 6 20 | 20 11.35 | −32 23.7 | 2.462 | 3.372 | 9.0 | 21.4 |
| 6 30 | 20 4.48 | −32 52.7 | 2.398 | 3.364 | 6.4 | 21.2 |
| 7 10 | 19 56.14 | −33 15.8 | 2.360 | 3.356 | 4.2 | 21.1 |
| 7 20 | 19 47.06 | −33 29.6 | 2.350 | 3.348 | 3.9 | 21.0 |
| 7 30 | 19 38.13 | −33 31.9 | 2.367 | 3.339 | 6.0 | 21.2 |
| 8 9 | 19 30.21 | −33 22.5 | 2.411 | 3.330 | 8.7 | 21.3 |
| 8 19 | 19 24.00 | −33 2.6 | 2.479 | 3.322 | 11.2 | 21.5 |

**141940** 2002 $PJ_{96}$ 7 17.8 304°.23 1°.1/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.30 | −20 45.5 | 1.397 | 2.257 | 17.5 | 19.6 |
| 6 20 | 20 11.33 | −21 19.3 | 1.310 | 2.241 | 13.7 | 19.3 |
| 6 30 | 20 5.31 | −22 3.5 | 1.243 | 2.224 | 9.2 | 19.0 |
| 7 10 | 19 56.81 | −22 53.9 | 1.198 | 2.208 | 4.2 | 18.7 |
| 7 20 | 19 46.84 | −23 44.6 | 1.177 | 2.192 | 1.9 | 18.5 |
| 7 30 | 19 36.85 | −24 29.6 | 1.181 | 2.177 | 7.1 | 18.8 |
| 8 9 | 19 28.38 | −25 4.7 | 1.208 | 2.162 | 12.2 | 19.0 |
| 8 19 | 19 22.59 | −25 28.4 | 1.255 | 2.147 | 16.8 | 19.2 |

**184218** 2004 $RF_{40}$ 7 17.8 264°.77 4°.9/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.33 | −33 6.0 | 2.353 | 3.189 | 12.1 | 20.0 |
| 6 20 | 20 10.97 | −34 13.8 | 2.273 | 3.184 | 9.6 | 19.8 |
| 6 30 | 20 4.41 | −35 20.6 | 2.217 | 3.179 | 7.1 | 19.7 |
| 7 10 | 19 56.18 | −36 20.8 | 2.186 | 3.174 | 5.2 | 19.5 |
| 7 20 | 19 47.05 | −37 9.3 | 2.182 | 3.169 | 5.3 | 19.5 |
| 7 30 | 19 38.01 | −37 42.6 | 2.205 | 3.164 | 7.3 | 19.6 |
| 8 9 | 19 30.03 | −37 59.5 | 2.254 | 3.158 | 9.8 | 19.8 |
| 8 19 | 19 23.92 | −38 1.0 | 2.325 | 3.153 | 12.3 | 20.0 |

**448617** 2010 $UB_{63}$ 7 17.8 275°.09 5°.5/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.47 | −35 57.3 | 2.369 | 3.201 | 12.1 | 20.7 |
| 6 20 | 20 11.85 | −36 50.8 | 2.290 | 3.195 | 9.8 | 20.6 |
| 6 30 | 20 4.97 | −37 40.6 | 2.233 | 3.189 | 7.4 | 20.4 |
| 7 10 | 19 56.42 | −38 21.4 | 2.202 | 3.183 | 5.7 | 20.3 |
| 7 20 | 19 47.00 | −38 48.7 | 2.197 | 3.178 | 5.8 | 20.3 |
| 7 30 | 19 37.73 | −38 59.7 | 2.219 | 3.172 | 7.6 | 20.4 |
| 8 9 | 19 29.63 | −38 54.0 | 2.265 | 3.166 | 10.0 | 20.5 |
| 8 19 | 19 23.48 | −38 33.7 | 2.335 | 3.160 | 12.4 | 20.7 |

**498941** 2009 $BK_{50}$ 7 17.8 300°.36 0°.2/17.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.64 | −17 25.0 | 1.235 | 2.099 | 19.1 | 21.2 |
| 6 20 | 20 11.33 | −17 56.4 | 1.142 | 2.073 | 15.2 | 20.9 |
| 6 30 | 20 5.67 | −18 44.2 | 1.067 | 2.048 | 10.4 | 20.6 |
| 7 10 | 19 57.13 | −19 45.5 | 1.012 | 2.022 | 4.8 | 20.2 |
| 7 20 | 19 46.72 | −20 54.3 | 0.981 | 1.996 | 1.4 | 19.8 |
| 7 30 | 19 36.00 | −22 3.2 | 0.973 | 1.971 | 7.6 | 20.2 |
| 8 9 | 19 26.78 | −23 5.1 | 0.987 | 1.946 | 13.5 | 20.4 |
| 8 19 | 19 20.52 | −23 55.8 | 1.020 | 1.922 | 18.9 | 20.6 |

**472133** 2014 $BM_{44}$ 7 17.8 228°.59 0°.7/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.68 | −21 56.4 | 2.038 | 2.872 | 13.7 | 22.0 |
| 6 20 | 20 12.02 | −22 10.2 | 1.950 | 2.866 | 10.7 | 21.8 |
| 6 30 | 20 5.10 | −22 28.5 | 1.885 | 2.860 | 7.1 | 21.6 |
| 7 10 | 19 56.49 | −22 48.2 | 1.845 | 2.853 | 3.2 | 21.3 |
| 7 20 | 19 47.00 | −23 6.4 | 1.832 | 2.847 | 1.3 | 21.2 |
| 7 30 | 19 37.64 | −23 20.3 | 1.846 | 2.839 | 5.2 | 21.4 |
| 8 9 | 19 29.44 | −23 28.4 | 1.887 | 2.832 | 9.1 | 21.6 |
| 8 19 | 19 23.16 | −23 30.4 | 1.951 | 2.824 | 12.5 | 21.9 |

**149975** 2005 $UY_{1}$ 7 17.8 204°.84 0°.2/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.46 | −19 25.5 | 2.589 | 3.412 | 11.5 | 21.1 |
| 6 20 | 20 9.00 | −19 38.2 | 2.500 | 3.409 | 8.9 | 21.0 |
| 6 30 | 20 2.82 | −19 55.7 | 2.434 | 3.406 | 5.9 | 20.8 |
| 7 10 | 19 55.39 | −20 16.1 | 2.395 | 3.403 | 2.7 | 20.5 |
| 7 20 | 19 47.33 | −20 37.2 | 2.383 | 3.399 | 0.8 | 20.4 |
| 7 30 | 19 39.39 | −20 56.9 | 2.401 | 3.395 | 4.1 | 20.6 |
| 8 9 | 19 32.29 | −21 13.7 | 2.446 | 3.391 | 7.3 | 20.8 |
| 8 19 | 19 26.63 | −21 26.5 | 2.516 | 3.387 | 10.1 | 21.0 |

**440359** 2004 $VC_{77}$ 7 17.8 244°.02 2°.6/16.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.24 | −28 10.0 | 2.693 | 3.524 | 10.9 | 21.5 |
| 6 20 | 20 9.72 | −28 45.5 | 2.601 | 3.514 | 8.5 | 21.3 |
| 6 30 | 20 3.37 | −29 21.6 | 2.533 | 3.504 | 5.8 | 21.1 |
| 7 10 | 19 55.67 | −29 54.9 | 2.491 | 3.493 | 3.3 | 20.9 |
| 7 20 | 19 47.25 | −30 22.2 | 2.477 | 3.482 | 2.9 | 20.9 |
| 7 30 | 19 38.89 | −30 41.1 | 2.491 | 3.471 | 5.2 | 21.0 |
| 8 9 | 19 31.40 | −30 50.3 | 2.533 | 3.459 | 8.0 | 21.2 |
| 8 19 | 19 25.42 | −30 50.2 | 2.599 | 3.448 | 10.6 | 21.3 |

**19598** Luttrell 7 17.8 25°.48 2°.5/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.12 | −25 34.7 | 1.122 | 1.997 | 19.8 | 17.7 |
| 6 20 | 20 13.77 | −25 44.9 | 1.066 | 2.004 | 15.4 | 17.5 |
| 6 30 | 20 6.88 | −25 57.7 | 1.029 | 2.012 | 10.3 | 17.2 |
| 7 10 | 19 57.40 | −26 7.9 | 1.012 | 2.021 | 4.9 | 17.0 |
| 7 20 | 19 46.78 | −26 10.4 | 1.017 | 2.030 | 3.0 | 16.9 |
| 7 30 | 19 36.79 | −26 2.3 | 1.046 | 2.041 | 7.9 | 17.2 |
| 8 9 | 19 29.03 | −25 43.6 | 1.096 | 2.052 | 12.9 | 17.5 |
| 8 19 | 19 24.47 | −25 16.5 | 1.166 | 2.064 | 17.3 | 17.8 |

**313951** 2004 $RQ_{195}$ 7 17.8 196°.33 4°.1/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.18 | −35 52.6 | 3.015 | 3.832 | 10.2 | 21.0 |
| 6 20 | 20 12.54 | −36 19.9 | 2.932 | 3.830 | 8.1 | 20.8 |
| 6 30 | 20 5.10 | −36 42.8 | 2.872 | 3.827 | 6.1 | 20.7 |
| 7 10 | 19 56.39 | −36 57.9 | 2.839 | 3.823 | 4.4 | 20.6 |
| 7 20 | 19 47.06 | −37 2.2 | 2.834 | 3.819 | 4.3 | 20.6 |
| 7 30 | 19 37.94 | −36 54.3 | 2.858 | 3.815 | 5.9 | 20.7 |
| 8 9 | 19 29.78 | −36 34.4 | 2.908 | 3.810 | 8.0 | 20.8 |
| 8 19 | 19 23.19 | −36 4.1 | 2.983 | 3.805 | 10.1 | 20.9 |

**98176** 2000 $SU_{95}$ 7 17.8 217°.50 3°.0/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.44 | −13 55.2 | 1.511 | 2.347 | 17.6 | 20.1 |
| 6 20 | 20 13.20 | −13 40.8 | 1.433 | 2.344 | 14.1 | 19.8 |
| 6 30 | 20 6.19 | −13 38.1 | 1.373 | 2.342 | 9.9 | 19.6 |
| 7 10 | 19 57.07 | −13 46.4 | 1.337 | 2.340 | 5.4 | 19.3 |
| 7 20 | 19 46.85 | −14 3.9 | 1.325 | 2.337 | 3.1 | 19.2 |
| 7 30 | 19 36.82 | −14 27.5 | 1.339 | 2.334 | 6.5 | 19.4 |
| 8 9 | 19 28.28 | −14 54.0 | 1.377 | 2.331 | 11.0 | 19.6 |
| 8 19 | 19 22.17 | −15 20.7 | 1.437 | 2.328 | 15.1 | 19.9 |

**365912** 2011 $WX_{105}$ 7 17.8 164°.11 6°.9/12.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.23 | −44 46.8 | 2.975 | 3.775 | 10.7 | 21.8 |
| 6 20 | 20 14.53 | −45 57.7 | 2.910 | 3.780 | 9.1 | 21.7 |
| 6 30 | 20 6.66 | −47 0.7 | 2.868 | 3.783 | 7.7 | 21.6 |
| 7 10 | 19 57.16 | −47 50.6 | 2.852 | 3.787 | 7.0 | 21.6 |
| 7 20 | 19 46.84 | −48 23.2 | 2.862 | 3.790 | 7.2 | 21.6 |
| 7 30 | 19 36.69 | −48 36.4 | 2.898 | 3.793 | 8.3 | 21.7 |
| 8 9 | 19 27.68 | −48 30.7 | 2.958 | 3.796 | 9.8 | 21.8 |
| 8 19 | 19 20.55 | −48 8.6 | 3.040 | 3.798 | 11.3 | 21.9 |

**474596** 2004 $RS_{40}$ 7 17.8 346°.36 15°.7/ 8.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 7.05 | −44 8.3 | 1.013 | 1.899 | 20.6 | 19.6 |
| 6 20 | 20 7.87 | −46 35.2 | 0.956 | 1.880 | 18.2 | 19.4 |
| 6 30 | 20 4.23 | −48 51.8 | 0.916 | 1.862 | 16.3 | 19.2 |
| 7 10 | 19 56.72 | −50 41.6 | 0.893 | 1.847 | 15.7 | 19.1 |
| 7 20 | 19 46.89 | −51 49.5 | 0.888 | 1.834 | 16.7 | 19.2 |
| 7 30 | 19 37.28 | −52 6.8 | 0.900 | 1.824 | 18.9 | 19.2 |
| 8 9 | 19 30.48 | −51 35.0 | 0.927 | 1.816 | 21.7 | 19.4 |
| 8 19 | 19 28.13 | −50 22.1 | 0.968 | 1.810 | 24.5 | 19.6 |

**295182** 2008 $FO_{93}$ 7 17.8 31°.05 4°.7/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.95 | − 6 25.1 | 2.129 | 2.929 | 14.4 | 21.1 |
| 6 20 | 20 7.30 | − 6 16.3 | 2.050 | 2.933 | 11.8 | 20.9 |
| 6 30 | 20 1.81 | − 6 21.4 | 1.992 | 2.937 | 8.9 | 20.7 |
| 7 10 | 19 54.99 | − 6 40.8 | 1.957 | 2.941 | 6.1 | 20.6 |
| 7 20 | 19 47.50 | − 7 13.2 | 1.948 | 2.945 | 4.7 | 20.5 |
| 7 30 | 19 40.16 | − 7 56.3 | 1.966 | 2.950 | 5.9 | 20.6 |
| 8 9 | 19 33.78 | − 8 46.4 | 2.009 | 2.954 | 8.6 | 20.8 |
| 8 19 | 19 28.98 | − 9 39.7 | 2.077 | 2.959 | 11.5 | 20.9 |

**178711** 2000 $SL_{209}$ 7 17.8 241°.16 7°.3/13.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.72 | −41 33.5 | 2.401 | 3.220 | 12.4 | 20.5 |
| 6 20 | 20 14.61 | −42 44.1 | 2.324 | 3.212 | 10.4 | 20.3 |
| 6 30 | 20 6.97 | −43 48.1 | 2.269 | 3.204 | 8.5 | 20.2 |
| 7 10 | 19 57.39 | −44 39.1 | 2.240 | 3.196 | 7.4 | 20.1 |
| 7 20 | 19 46.78 | −45 11.8 | 2.236 | 3.188 | 7.6 | 20.1 |
| 7 30 | 19 36.31 | −45 23.0 | 2.258 | 3.180 | 9.1 | 20.2 |
| 8 9 | 19 27.13 | −45 13.2 | 2.304 | 3.171 | 11.2 | 20.3 |
| 8 19 | 19 20.15 | −44 45.0 | 2.371 | 3.162 | 13.2 | 20.4 |

**56108** 1999 $BN_{26}$ 7 17.8 243°.87 1°.7/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.40 | −24 57.5 | 1.716 | 2.560 | 15.5 | 19.0 |
| 6 20 | 20 14.57 | −25 3.8 | 1.634 | 2.555 | 12.1 | 18.7 |
| 6 30 | 20 7.01 | −25 12.1 | 1.573 | 2.550 | 8.1 | 18.5 |
| 7 10 | 19 57.42 | −25 18.6 | 1.537 | 2.545 | 3.8 | 18.2 |
| 7 20 | 19 46.79 | −25 19.8 | 1.526 | 2.540 | 2.1 | 18.1 |
| 7 30 | 19 36.41 | −25 13.4 | 1.542 | 2.534 | 6.2 | 18.3 |
| 8 9 | 19 27.52 | −24 59.0 | 1.583 | 2.529 | 10.5 | 18.6 |
| 8 19 | 19 21.03 | −24 37.7 | 1.647 | 2.523 | 14.3 | 18.8 |

**92110** 1999 $XM_{62}$ 7 17.8 294.°68 0.°1/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.81 | −20 8.3 | 2.222 | 3.056 | 12.8 | 19.9 |
| 6 20 | 20 8.91 | −20 21.5 | 2.126 | 3.042 | 9.9 | 19.7 |
| 6 30 | 20 3.00 | −20 40.2 | 2.053 | 3.027 | 6.7 | 19.5 |
| 7 10 | 19 55.57 | −21 2.1 | 2.005 | 3.013 | 3.0 | 19.2 |
| 7 20 | 19 47.32 | −21 24.7 | 1.983 | 2.999 | 0.9 | 19.0 |
| 7 30 | 19 39.12 | −21 45.2 | 1.990 | 2.985 | 4.8 | 19.3 |
| 8 9 | 19 31.86 | −22 2.0 | 2.023 | 2.971 | 8.4 | 19.5 |
| 8 19 | 19 26.26 | −22 13.8 | 2.080 | 2.957 | 11.7 | 19.7 |

**320702** 2008 $DW_{32}$ 7 17.8 108.°81 1.°3/17.1 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.96 | −23 27.6 | 2.343 | 3.175 | 12.2 | 21.8 |
| 6 20 | 20 10.30 | −23 54.0 | 2.271 | 3.186 | 9.4 | 21.6 |
| 6 30 | 20 3.73 | −24 23.3 | 2.221 | 3.196 | 6.2 | 21.4 |
| 7 10 | 19 55.81 | −24 52.5 | 2.198 | 3.206 | 2.9 | 21.2 |
| 7 20 | 19 47.27 | −25 18.5 | 2.202 | 3.215 | 1.7 | 21.2 |
| 7 30 | 19 38.96 | −25 38.9 | 2.235 | 3.225 | 4.8 | 21.4 |
| 8 9 | 19 31.70 | −25 52.3 | 2.294 | 3.235 | 8.0 | 21.6 |
| 8 19 | 19 26.11 | −25 58.6 | 2.378 | 3.244 | 10.8 | 21.8 |

**186446** 2002 $SM_{30}$ 7 17.8 295.°94 4.°0/16.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.43 | −26 25.6 | 1.474 | 2.334 | 16.7 | 19.6 |
| 6 20 | 20 13.21 | −27 20.5 | 1.378 | 2.308 | 13.2 | 19.3 |
| 6 30 | 20 6.76 | −28 22.4 | 1.303 | 2.281 | 9.2 | 19.0 |
| 7 10 | 19 57.60 | −29 24.7 | 1.249 | 2.255 | 5.2 | 18.7 |
| 7 20 | 19 46.70 | −30 19.8 | 1.221 | 2.228 | 4.5 | 18.6 |
| 7 30 | 19 35.59 | −31 0.5 | 1.217 | 2.202 | 8.5 | 18.7 |
| 8 9 | 19 25.94 | −31 23.4 | 1.235 | 2.176 | 13.3 | 18.9 |
| 8 19 | 19 19.08 | −31 28.6 | 1.274 | 2.150 | 17.7 | 19.1 |

**62442** 2000 $SA_{204}$ 7 17.8 327.°95 0.°4/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.07 | −18 31.0 | 2.070 | 2.905 | 13.5 | 19.8 |
| 6 20 | 20 9.15 | −18 44.4 | 1.987 | 2.902 | 10.6 | 19.6 |
| 6 30 | 20 3.15 | −19 4.8 | 1.925 | 2.899 | 7.1 | 19.4 |
| 7 10 | 19 55.64 | −19 29.8 | 1.888 | 2.896 | 3.2 | 19.1 |
| 7 20 | 19 47.34 | −19 56.8 | 1.878 | 2.894 | 0.9 | 18.9 |
| 7 30 | 19 39.19 | −20 22.9 | 1.896 | 2.892 | 4.8 | 19.2 |
| 8 9 | 19 32.08 | −20 45.9 | 1.939 | 2.889 | 8.6 | 19.4 |
| 8 19 | 19 26.75 | −21 4.4 | 2.007 | 2.887 | 11.9 | 19.6 |

**520094** 2013 $YS_{153}$ 7 17.8 242.°81 1.°5/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.88 | −15 31.3 | 1.941 | 2.769 | 14.6 | 21.9 |
| 6 20 | 20 10.71 | −15 40.1 | 1.853 | 2.762 | 11.5 | 21.7 |
| 6 30 | 20 4.30 | −15 58.4 | 1.786 | 2.756 | 7.9 | 21.4 |
| 7 10 | 19 56.20 | −16 24.6 | 1.743 | 2.749 | 4.0 | 21.2 |
| 7 20 | 19 47.19 | −16 56.1 | 1.727 | 2.741 | 1.7 | 21.0 |
| 7 30 | 19 38.27 | −17 29.7 | 1.738 | 2.734 | 5.2 | 21.2 |
| 8 9 | 19 30.45 | −18 2.5 | 1.776 | 2.727 | 9.2 | 21.4 |
| 8 19 | 19 24.52 | −18 32.3 | 1.837 | 2.719 | 12.7 | 21.6 |

**394674** 2008 $CD_{47}$ 7 17.8 123.°43 0.°5/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.80 | −20 40.1 | 2.618 | 3.440 | 11.4 | 22.2 |
| 6 20 | 20 9.93 | −21 8.0 | 2.546 | 3.455 | 8.8 | 22.0 |
| 6 30 | 20 3.38 | −21 40.3 | 2.497 | 3.470 | 5.8 | 21.8 |
| 7 10 | 19 55.65 | −22 14.2 | 2.475 | 3.484 | 2.6 | 21.7 |
| 7 20 | 19 47.38 | −22 47.0 | 2.482 | 3.497 | 1.0 | 21.5 |
| 7 30 | 19 39.31 | −23 16.4 | 2.518 | 3.510 | 4.1 | 21.8 |
| 8 9 | 19 32.15 | −23 40.6 | 2.582 | 3.523 | 7.2 | 22.0 |
| 8 19 | 19 26.47 | −23 59.0 | 2.671 | 3.535 | 9.8 | 22.2 |

**288390** 2004 $CS_{83}$ 7 17.8 74.°88 2.°4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.16 | −27 34.6 | 2.001 | 2.840 | 13.8 | 20.8 |
| 6 20 | 20 13.16 | −27 43.7 | 1.925 | 2.843 | 10.7 | 20.6 |
| 6 30 | 20 5.83 | −27 52.4 | 1.871 | 2.845 | 7.2 | 20.4 |
| 7 10 | 19 56.83 | −27 57.0 | 1.843 | 2.848 | 3.7 | 20.2 |
| 7 20 | 19 47.05 | −27 54.6 | 1.840 | 2.851 | 2.7 | 20.1 |
| 7 30 | 19 37.59 | −27 43.4 | 1.866 | 2.853 | 5.8 | 20.3 |
| 8 9 | 19 29.46 | −27 23.5 | 1.917 | 2.856 | 9.4 | 20.5 |
| 8 19 | 19 23.42 | −26 56.3 | 1.992 | 2.859 | 12.6 | 20.7 |

**337210** 2000 $AT_{52}$ 7 17.8 316.°92 7.°3/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.29 | − 9 49.7 | 1.509 | 2.337 | 18.0 | 19.3 |
| 6 20 | 20 11.79 | − 8 18.4 | 1.409 | 2.310 | 15.0 | 19.0 |
| 6 30 | 20 5.49 | − 6 53.8 | 1.329 | 2.283 | 11.6 | 18.7 |
| 7 10 | 19 56.92 | − 5 39.8 | 1.271 | 2.256 | 8.5 | 18.5 |
| 7 20 | 19 46.97 | − 4 40.3 | 1.236 | 2.230 | 7.3 | 18.3 |
| 7 30 | 19 36.90 | − 3 58.2 | 1.226 | 2.205 | 9.4 | 18.4 |
| 8 9 | 19 28.08 | − 3 33.8 | 1.239 | 2.180 | 13.1 | 18.5 |
| 8 19 | 19 21.59 | − 3 25.5 | 1.272 | 2.156 | 17.1 | 18.7 |

**172292** 2002 $TR_{177}$ 7 17.8 358.°85 7.°3/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.88 | − 9 31.0 | 1.501 | 2.327 | 18.2 | 18.8 |
| 6 20 | 20 11.87 | − 7 50.8 | 1.426 | 2.324 | 15.0 | 18.5 |
| 6 30 | 20 5.22 | − 6 19.9 | 1.371 | 2.323 | 11.5 | 18.3 |
| 7 10 | 19 56.64 | − 5 2.7 | 1.339 | 2.322 | 8.4 | 18.1 |
| 7 20 | 19 47.10 | − 4 2.6 | 1.330 | 2.322 | 7.3 | 18.1 |
| 7 30 | 19 37.84 | − 3 21.6 | 1.346 | 2.322 | 9.0 | 18.2 |
| 8 9 | 19 30.03 | − 2 59.1 | 1.386 | 2.324 | 12.3 | 18.4 |
| 8 19 | 19 24.55 | − 2 52.3 | 1.446 | 2.327 | 15.6 | 18.6 |

**185636** Shiao Lin 7 17.8 234.°42 2.°5/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.39 | −11 7.1 | 2.373 | 3.180 | 12.9 | 20.6 |
| 6 20 | 20 8.36 | −11 22.3 | 2.279 | 3.174 | 10.3 | 20.5 |
| 6 30 | 20 2.53 | −11 48.7 | 2.208 | 3.167 | 7.3 | 20.3 |
| 7 10 | 19 55.36 | −12 25.1 | 2.162 | 3.160 | 4.2 | 20.1 |
| 7 20 | 19 47.46 | −13 9.5 | 2.143 | 3.153 | 2.5 | 19.9 |
| 7 30 | 19 39.62 | −13 59.0 | 2.152 | 3.145 | 4.7 | 20.1 |
| 8 9 | 19 32.60 | −14 50.3 | 2.189 | 3.138 | 7.8 | 20.2 |
| 8 19 | 19 27.06 | −15 40.6 | 2.251 | 3.130 | 10.9 | 20.4 |

**376087** 2010 $VX_{81}$ 7 17.8 355.°17 4.°8/15.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.94 | −27 4.7 | 1.204 | 2.081 | 18.6 | 20.2 |
| 6 20 | 20 11.50 | −28 9.5 | 1.139 | 2.077 | 14.6 | 20.0 |
| 6 30 | 20 5.61 | −29 19.7 | 1.092 | 2.074 | 10.1 | 19.7 |
| 7 10 | 19 57.01 | −30 27.0 | 1.067 | 2.072 | 5.9 | 19.5 |
| 7 20 | 19 46.98 | −31 22.6 | 1.064 | 2.071 | 5.4 | 19.5 |
| 7 30 | 19 37.24 | −31 59.6 | 1.085 | 2.071 | 9.3 | 19.7 |
| 8 9 | 19 29.47 | −32 15.7 | 1.127 | 2.071 | 13.8 | 19.9 |
| 8 19 | 19 24.83 | −32 12.6 | 1.187 | 2.073 | 18.0 | 20.2 |

**185501** 2007 $TR_{57}$ 7 17.8 197.°83 1.°9/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.48 | −14 47.3 | 2.191 | 3.011 | 13.4 | 21.3 |
| 6 20 | 20 10.07 | −14 47.1 | 2.105 | 3.009 | 10.6 | 21.1 |
| 6 30 | 20 3.69 | −14 55.3 | 2.041 | 3.008 | 7.3 | 20.9 |
| 7 10 | 19 55.88 | −15 10.5 | 2.003 | 3.006 | 3.9 | 20.7 |
| 7 20 | 19 47.33 | −15 31.1 | 1.991 | 3.004 | 1.9 | 20.5 |
| 7 30 | 19 38.92 | −15 54.6 | 2.007 | 3.002 | 4.8 | 20.7 |
| 8 9 | 19 31.49 | −16 18.8 | 2.050 | 2.999 | 8.3 | 20.9 |
| 8 19 | 19 25.74 | −16 42.0 | 2.117 | 2.996 | 11.4 | 21.1 |

**433365** 2013 $SJ_{35}$ 7 17.8 198.°61 0.°3/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.18 | −19 5.7 | 1.954 | 2.783 | 14.4 | 22.6 |
| 6 20 | 20 13.25 | −19 18.7 | 1.868 | 2.780 | 11.3 | 22.4 |
| 6 30 | 20 5.99 | −19 38.4 | 1.805 | 2.777 | 7.6 | 22.1 |
| 7 10 | 19 56.96 | −20 2.3 | 1.766 | 2.774 | 3.4 | 21.9 |
| 7 20 | 19 47.02 | −20 27.2 | 1.754 | 2.770 | 1.0 | 21.7 |
| 7 30 | 19 37.22 | −20 50.3 | 1.770 | 2.765 | 5.2 | 22.0 |
| 8 9 | 19 28.62 | −21 9.2 | 1.813 | 2.760 | 9.3 | 22.2 |
| 8 19 | 19 22.02 | −21 23.1 | 1.879 | 2.754 | 12.8 | 22.4 |

**436889** 2012 $TC_{34}$ 7 17.8 269.°34 3.°7/16.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.18 | −28 29.4 | 1.915 | 2.759 | 14.1 | 21.0 |
| 6 20 | 20 12.86 | −29 15.3 | 1.826 | 2.746 | 11.1 | 20.8 |
| 6 30 | 20 5.96 | −30 3.1 | 1.759 | 2.732 | 7.7 | 20.6 |
| 7 10 | 19 57.03 | −30 47.5 | 1.716 | 2.718 | 4.6 | 20.3 |
| 7 20 | 19 46.99 | −31 23.1 | 1.700 | 2.704 | 4.1 | 20.3 |
| 7 30 | 19 36.99 | −31 45.7 | 1.710 | 2.690 | 7.1 | 20.4 |
| 8 9 | 19 28.25 | −31 53.9 | 1.745 | 2.676 | 10.7 | 20.6 |
| 8 19 | 19 21.73 | −31 48.6 | 1.803 | 2.662 | 14.1 | 20.8 |

**472469** 2015 $BV_{441}$ 7 17.8 35.°45 3.°5/19.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.34 | − 9 44.5 | 1.385 | 2.225 | 18.7 | 20.7 |
| 6 20 | 20 9.29 | −10 8.7 | 1.325 | 2.237 | 15.0 | 20.5 |
| 6 30 | 20 3.58 | −10 52.5 | 1.282 | 2.249 | 10.6 | 20.3 |
| 7 10 | 19 55.92 | −11 53.8 | 1.262 | 2.262 | 6.1 | 20.1 |
| 7 20 | 19 47.34 | −13 7.9 | 1.265 | 2.276 | 3.5 | 19.9 |
| 7 30 | 19 39.09 | −14 28.3 | 1.294 | 2.290 | 6.4 | 20.1 |
| 8 9 | 19 32.36 | −15 48.2 | 1.346 | 2.305 | 10.7 | 20.4 |
| 8 19 | 19 28.01 | −17 2.2 | 1.420 | 2.321 | 14.6 | 20.7 |

**77320** 2001 $FO_{87}$ 7 17.8 21.°91 0.°2/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.04 | −18 32.2 | 1.101 | 1.977 | 20.0 | 19.1 |
| 6 20 | 20 9.79 | −19 4.2 | 1.046 | 1.985 | 15.6 | 18.8 |
| 6 30 | 20 4.27 | −19 49.3 | 1.010 | 1.994 | 10.4 | 18.6 |
| 7 10 | 19 56.32 | −20 42.7 | 0.994 | 2.004 | 4.6 | 18.3 |
| 7 20 | 19 47.22 | −21 37.7 | 1.000 | 2.016 | 1.4 | 18.1 |
| 7 30 | 19 38.60 | −22 27.8 | 1.029 | 2.028 | 7.1 | 18.5 |
| 8 9 | 19 31.95 | −23 8.2 | 1.080 | 2.042 | 12.4 | 18.9 |
| 8 19 | 19 28.24 | −23 37.2 | 1.150 | 2.056 | 16.9 | 19.2 |

**500046** 2011 $SN_{260}$ 7 17.8 345.°25 6.°8/19.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.85 | −10 54.6 | 0.958 | 1.832 | 22.5 | 21.2 |
| 6 20 | 20 8.56 | − 9 55.4 | 0.891 | 1.822 | 18.5 | 20.9 |
| 6 30 | 20 3.80 | − 9 13.1 | 0.840 | 1.813 | 13.8 | 20.6 |
| 7 10 | 19 56.27 | − 8 51.0 | 0.807 | 1.806 | 9.1 | 20.3 |
| 7 20 | 19 47.21 | − 8 50.6 | 0.793 | 1.800 | 6.8 | 20.2 |
| 7 30 | 19 38.37 | − 9 10.2 | 0.800 | 1.795 | 9.6 | 20.3 |
| 8 9 | 19 31.47 | − 9 44.7 | 0.825 | 1.792 | 14.5 | 20.6 |
| 8 19 | 19 27.75 | −10 27.6 | 0.868 | 1.790 | 19.3 | 20.8 |

**120521** 1994 $CY_{11}$ 7 17.8 193.°91 1.°8/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.93 | −24 57.3 | 2.306 | 3.134 | 12.6 | 20.9 |
| 6 20 | 20 13.56 | −25 25.2 | 2.220 | 3.131 | 9.8 | 20.7 |
| 6 30 | 20 6.05 | −25 55.5 | 2.156 | 3.128 | 6.5 | 20.5 |
| 7 10 | 19 56.96 | −26 24.6 | 2.118 | 3.125 | 3.2 | 20.3 |
| 7 20 | 19 47.06 | −26 49.0 | 2.109 | 3.121 | 2.2 | 20.2 |
| 7 30 | 19 37.29 | −27 6.0 | 2.128 | 3.116 | 5.3 | 20.4 |
| 8 9 | 19 28.61 | −27 14.3 | 2.175 | 3.110 | 8.6 | 20.6 |
| 8 19 | 19 21.74 | −27 14.3 | 2.246 | 3.104 | 11.7 | 20.8 |

**308720** 2006 $GX_{53}$ 7 17.8 148°.15 2°.3/16.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 20.66 | −23 45.5 | 1.564 | 2.411 | 16.6 | 21.4 |
| 6 20 | 20 15.76 | −24 26.9 | 1.495 | 2.417 | 12.9 | 21.1 |
| 6 30 | 20 7.94 | −25 13.9 | 1.445 | 2.422 | 8.6 | 20.9 |
| 7 10 | 19 57.91 | −26 0.9 | 1.420 | 2.428 | 4.1 | 20.7 |
| 7 20 | 19 46.79 | −26 42.0 | 1.420 | 2.433 | 2.7 | 20.6 |
| 7 30 | 19 35.99 | −27 12.7 | 1.447 | 2.437 | 6.8 | 20.8 |
| 8 9 | 19 26.84 | −27 30.8 | 1.498 | 2.441 | 11.2 | 21.1 |
| 8 19 | 19 20.31 | −27 37.1 | 1.571 | 2.444 | 15.0 | 21.4 |

**190587** 2000 $SQ_{361}$ 7 17.8 292°.89 4°.8/15.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.23 | −29 33.9 | 1.673 | 2.525 | 15.4 | 20.3 |
| 6 20 | 20 13.50 | −30 29.9 | 1.578 | 2.501 | 12.3 | 20.0 |
| 6 30 | 20 6.76 | −31 28.9 | 1.503 | 2.477 | 8.7 | 19.7 |
| 7 10 | 19 57.56 | −32 24.2 | 1.452 | 2.453 | 5.5 | 19.5 |
| 7 20 | 19 46.85 | −33 8.8 | 1.427 | 2.428 | 5.3 | 19.4 |
| 7 30 | 19 36.03 | −33 36.8 | 1.426 | 2.404 | 8.5 | 19.6 |
| 8 9 | 19 26.58 | −33 46.1 | 1.449 | 2.379 | 12.5 | 19.7 |
| 8 19 | 19 19.71 | −33 38.0 | 1.494 | 2.355 | 16.3 | 19.9 |

**336682** 2010 $AC_{44}$ 7 17.8 217°.10 0°.5/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.39 | −19 46.9 | 2.058 | 2.885 | 13.9 | 21.5 |
| 6 20 | 20 13.29 | −19 40.0 | 1.968 | 2.879 | 10.9 | 21.2 |
| 6 30 | 20 5.96 | −19 37.6 | 1.900 | 2.872 | 7.3 | 21.0 |
| 7 10 | 19 56.95 | −19 37.9 | 1.858 | 2.866 | 3.4 | 20.8 |
| 7 20 | 19 47.08 | −19 38.9 | 1.843 | 2.859 | 1.0 | 20.6 |
| 7 30 | 19 37.36 | −19 38.9 | 1.856 | 2.851 | 5.0 | 20.8 |
| 8 9 | 19 28.79 | −19 36.7 | 1.896 | 2.843 | 8.9 | 21.1 |
| 8 19 | 19 22.15 | −19 32.0 | 1.960 | 2.835 | 12.4 | 21.3 |

**148359** 2000 $SM_{20}$ 7 17.8 288°.94 2°.2/17.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.46 | −27 30.5 | 2.152 | 2.989 | 13.0 | 19.7 |
| 6 20 | 20 12.56 | −27 33.2 | 2.065 | 2.981 | 10.2 | 19.5 |
| 6 30 | 20 5.44 | −27 35.3 | 2.000 | 2.974 | 6.9 | 19.3 |
| 7 10 | 19 56.70 | −27 33.5 | 1.961 | 2.967 | 3.5 | 19.1 |
| 7 20 | 19 47.16 | −27 25.2 | 1.949 | 2.960 | 2.5 | 19.0 |
| 7 30 | 19 37.83 | −27 8.9 | 1.964 | 2.953 | 5.5 | 19.2 |
| 8 9 | 19 29.70 | −26 44.6 | 2.006 | 2.946 | 9.0 | 19.4 |
| 8 19 | 19 23.50 | −26 13.8 | 2.072 | 2.939 | 12.2 | 19.6 |

**296524** 2009 $OU_{1}$ 7 17.8 352°.00 7°.4/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.61 | − 4 44.0 | 1.817 | 2.620 | 16.4 | 19.6 |
| 6 20 | 20 8.19 | − 3 35.6 | 1.737 | 2.615 | 13.8 | 19.4 |
| 6 30 | 20 2.63 | − 2 40.7 | 1.676 | 2.611 | 11.0 | 19.2 |
| 7 10 | 19 55.47 | − 2 2.3 | 1.637 | 2.607 | 8.5 | 19.0 |
| 7 20 | 19 47.50 | − 1 42.1 | 1.623 | 2.604 | 7.4 | 19.0 |
| 7 30 | 19 39.68 | − 1 40.2 | 1.633 | 2.602 | 8.4 | 19.0 |
| 8 9 | 19 32.95 | − 1 54.3 | 1.667 | 2.600 | 10.9 | 19.2 |
| 8 19 | 19 28.07 | − 2 20.8 | 1.723 | 2.600 | 13.7 | 19.3 |

**449693** 2014 $LE_{22}$ 7 17.8 352°.38 8°.8/12.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 9.03 | −35 9.1 | 1.412 | 2.286 | 16.5 | 19.6 |
| 6 20 | 20 7.63 | −37 0.6 | 1.345 | 2.275 | 13.5 | 19.4 |
| 6 30 | 20 3.06 | −38 51.4 | 1.299 | 2.265 | 10.6 | 19.2 |
| 7 10 | 19 55.93 | −40 31.1 | 1.275 | 2.257 | 8.9 | 19.1 |
| 7 20 | 19 47.34 | −41 49.5 | 1.273 | 2.250 | 9.4 | 19.1 |
| 7 30 | 19 38.87 | −42 39.4 | 1.294 | 2.245 | 11.9 | 19.2 |
| 8 9 | 19 32.14 | −42 59.2 | 1.335 | 2.242 | 15.0 | 19.4 |
| 8 19 | 19 28.31 | −42 51.6 | 1.395 | 2.241 | 18.1 | 19.6 |

**136228** 2003 $WN_{106}$ 7 17.8 225°.17 0°.1/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.14 | −18 46.1 | 1.915 | 2.745 | 14.7 | 20.5 |
| 6 20 | 20 13.44 | −19 18.5 | 1.822 | 2.735 | 11.5 | 20.3 |
| 6 30 | 20 6.27 | −20 0.0 | 1.751 | 2.724 | 7.7 | 20.0 |
| 7 10 | 19 57.19 | −20 47.1 | 1.705 | 2.713 | 3.5 | 19.8 |
| 7 20 | 19 47.02 | −21 35.7 | 1.686 | 2.701 | 1.0 | 19.5 |
| 7 30 | 19 36.85 | −22 21.4 | 1.694 | 2.688 | 5.5 | 19.8 |
| 8 9 | 19 27.82 | −23 1.0 | 1.729 | 2.675 | 9.7 | 20.1 |
| 8 19 | 19 20.84 | −23 32.6 | 1.788 | 2.661 | 13.5 | 20.3 |

**275517** 1996 $XM_{3}$ 7 17.8 286°.65 5°.9/15.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.84 | −33 10.9 | 1.715 | 2.563 | 15.3 | 20.5 |
| 6 20 | 20 14.60 | −34 5.6 | 1.633 | 2.551 | 12.3 | 20.2 |
| 6 30 | 20 7.35 | −34 58.7 | 1.572 | 2.539 | 9.0 | 20.0 |
| 7 10 | 19 57.75 | −35 43.2 | 1.534 | 2.527 | 6.4 | 19.8 |
| 7 20 | 19 46.87 | −36 12.3 | 1.521 | 2.515 | 6.3 | 19.8 |
| 7 30 | 19 36.12 | −36 21.6 | 1.534 | 2.503 | 8.9 | 19.9 |
| 8 9 | 19 26.95 | −36 10.9 | 1.570 | 2.491 | 12.3 | 20.1 |
| 8 19 | 19 20.41 | −35 42.9 | 1.628 | 2.479 | 15.7 | 20.3 |

**390446** 2013 $YR_{73}$ 7 17.8 229°.56 1°.0/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.85 | −21 51.4 | 2.094 | 2.927 | 13.5 | 21.6 |
| 6 20 | 20 12.22 | −22 21.2 | 2.003 | 2.918 | 10.5 | 21.4 |
| 6 30 | 20 5.33 | −22 56.6 | 1.934 | 2.908 | 7.0 | 21.2 |
| 7 10 | 19 56.73 | −23 34.1 | 1.890 | 2.898 | 3.2 | 20.9 |
| 7 20 | 19 47.17 | −24 10.0 | 1.873 | 2.887 | 1.5 | 20.8 |
| 7 30 | 19 37.67 | −24 40.7 | 1.885 | 2.877 | 5.3 | 21.0 |
| 8 9 | 19 29.25 | −25 4.0 | 1.923 | 2.865 | 9.1 | 21.2 |
| 8 19 | 19 22.71 | −25 19.2 | 1.984 | 2.853 | 12.5 | 21.4 |

**468478** 2004 $RJ_{309}$ 7 17.8 338°.46 6°.1/19.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 11.46 | −10 11.2 | 1.337 | 2.182 | 19.0 | 20.3 |
| 6 20 | 20 8.94 | − 9 16.5 | 1.257 | 2.170 | 15.6 | 20.0 |
| 6 30 | 20 3.60 | − 8 35.2 | 1.195 | 2.158 | 11.7 | 19.8 |
| 7 10 | 19 56.08 | − 8 9.6 | 1.154 | 2.148 | 7.9 | 19.5 |
| 7 20 | 19 47.35 | − 8 0.9 | 1.135 | 2.138 | 6.1 | 19.4 |
| 7 30 | 19 38.74 | − 8 8.4 | 1.140 | 2.129 | 8.3 | 19.5 |
| 8 9 | 19 31.58 | − 8 28.9 | 1.166 | 2.122 | 12.3 | 19.7 |
| 8 19 | 19 26.90 | − 8 58.2 | 1.213 | 2.116 | 16.4 | 19.9 |

**180400** 2004 $BD_{12}$ 7 17.8 130°.09 1°.4/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.02 | −23 2.5 | 1.599 | 2.446 | 16.3 | 20.9 |
| 6 20 | 20 14.38 | −23 20.5 | 1.527 | 2.450 | 12.7 | 20.7 |
| 6 30 | 20 6.96 | −23 43.3 | 1.476 | 2.453 | 8.4 | 20.5 |
| 7 10 | 19 57.48 | −24 6.7 | 1.448 | 2.456 | 3.8 | 20.2 |
| 7 20 | 19 46.99 | −24 26.5 | 1.445 | 2.460 | 1.9 | 20.1 |
| 7 30 | 19 36.81 | −24 39.3 | 1.469 | 2.463 | 6.3 | 20.4 |
| 8 9 | 19 28.21 | −24 43.7 | 1.518 | 2.465 | 10.7 | 20.6 |
| 8 19 | 19 22.10 | −24 40.0 | 1.588 | 2.468 | 14.5 | 20.9 |

**285127** 1995 $SR_{50}$ 7 17.8 231°.64 4°.6/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.89 | −33 57.9 | 2.421 | 3.251 | 12.0 | 20.9 |
| 6 20 | 20 12.87 | −34 38.4 | 2.337 | 3.244 | 9.5 | 20.7 |
| 6 30 | 20 5.66 | −35 15.9 | 2.276 | 3.237 | 7.0 | 20.6 |
| 7 10 | 19 56.83 | −35 45.8 | 2.241 | 3.230 | 5.0 | 20.4 |
| 7 20 | 19 47.18 | −36 4.0 | 2.232 | 3.223 | 4.9 | 20.4 |
| 7 30 | 19 37.68 | −36 8.1 | 2.251 | 3.215 | 6.8 | 20.5 |
| 8 9 | 19 29.31 | −35 57.7 | 2.296 | 3.207 | 9.4 | 20.7 |
| 8 19 | 19 22.82 | −35 34.8 | 2.365 | 3.199 | 11.9 | 20.8 |

**200266** 1999 $XG_{72}$ 7 17.8 215°.88 1°.7/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.40 | −23 43.4 | 2.203 | 3.036 | 12.9 | 20.5 |
| 6 20 | 20 11.77 | −24 21.7 | 2.115 | 3.031 | 10.0 | 20.3 |
| 6 30 | 20 4.97 | −25 4.3 | 2.050 | 3.025 | 6.7 | 20.1 |
| 7 10 | 19 56.55 | −25 47.3 | 2.011 | 3.018 | 3.2 | 19.8 |
| 7 20 | 19 47.26 | −26 26.8 | 2.000 | 3.012 | 2.1 | 19.7 |
| 7 30 | 19 38.04 | −26 59.2 | 2.016 | 3.005 | 5.4 | 20.0 |
| 8 9 | 19 29.88 | −27 22.6 | 2.059 | 2.997 | 8.9 | 20.2 |
| 8 19 | 19 23.52 | −27 36.6 | 2.126 | 2.989 | 12.0 | 20.3 |

**195562** 2002 $JN_{76}$ 7 17.8 93°.00 4°.6/19.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.08 | − 8 50.1 | 1.875 | 2.682 | 15.8 | 20.7 |
| 6 20 | 20 11.42 | − 8 26.6 | 1.808 | 2.697 | 12.8 | 20.5 |
| 6 30 | 20 4.62 | − 8 16.1 | 1.761 | 2.712 | 9.4 | 20.3 |
| 7 10 | 19 56.32 | − 8 19.0 | 1.738 | 2.727 | 6.2 | 20.2 |
| 7 20 | 19 47.35 | − 8 34.1 | 1.740 | 2.742 | 4.6 | 20.1 |
| 7 30 | 19 38.69 | − 8 59.3 | 1.770 | 2.756 | 6.2 | 20.2 |
| 8 9 | 19 31.24 | − 9 31.4 | 1.825 | 2.770 | 9.3 | 20.4 |
| 8 19 | 19 25.71 | −10 7.1 | 1.903 | 2.784 | 12.4 | 20.7 |

**66472** 1999 $RM_{24}$ 7 17.8 336°.51 0°.8/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.32 | −21 25.3 | 1.479 | 2.339 | 16.7 | 19.0 |
| 6 20 | 20 10.30 | −21 42.0 | 1.400 | 2.329 | 13.1 | 18.7 |
| 6 30 | 20 4.46 | −22 5.8 | 1.340 | 2.321 | 8.7 | 18.5 |
| 7 10 | 19 56.46 | −22 33.3 | 1.303 | 2.313 | 3.9 | 18.2 |
| 7 20 | 19 47.29 | −23 0.0 | 1.290 | 2.306 | 1.5 | 18.0 |
| 7 30 | 19 38.28 | −23 22.0 | 1.302 | 2.299 | 6.4 | 18.3 |
| 8 9 | 19 30.75 | −23 36.8 | 1.338 | 2.293 | 11.2 | 18.5 |
| 8 19 | 19 25.70 | −23 43.5 | 1.395 | 2.288 | 15.3 | 18.8 |

**482417** 2012 $BH_{109}$ 7 17.8 267°.94 0°.5/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.05 | −17 8.0 | 2.404 | 3.230 | 12.2 | 21.7 |
| 6 20 | 20 8.16 | −17 37.6 | 2.313 | 3.222 | 9.5 | 21.5 |
| 6 30 | 20 2.45 | −18 15.1 | 2.244 | 3.215 | 6.4 | 21.3 |
| 7 10 | 19 55.39 | −18 58.3 | 2.200 | 3.208 | 3.0 | 21.0 |
| 7 20 | 19 47.60 | −19 44.2 | 2.185 | 3.200 | 0.8 | 20.9 |
| 7 30 | 19 39.86 | −20 29.6 | 2.198 | 3.193 | 4.3 | 21.1 |
| 8 9 | 19 32.96 | −21 11.8 | 2.238 | 3.186 | 7.7 | 21.3 |
| 8 19 | 19 27.55 | −21 48.8 | 2.303 | 3.178 | 10.8 | 21.5 |

**14534** 1997 $QE_{2}$ 7 17.8 260°.33 2°.6/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.36 | −26 34.0 | 2.112 | 2.951 | 13.2 | 18.5 |
| 6 20 | 20 11.91 | −27 7.3 | 2.022 | 2.939 | 10.3 | 18.3 |
| 6 30 | 20 5.17 | −27 42.9 | 1.953 | 2.927 | 7.0 | 18.1 |
| 7 10 | 19 56.68 | −28 16.6 | 1.910 | 2.915 | 3.7 | 17.9 |
| 7 20 | 19 47.23 | −28 44.2 | 1.894 | 2.903 | 2.9 | 17.8 |
| 7 30 | 19 37.86 | −29 2.5 | 1.905 | 2.890 | 6.0 | 18.0 |
| 8 9 | 19 29.60 | −29 10.1 | 1.942 | 2.878 | 9.5 | 18.2 |
| 8 19 | 19 23.28 | −29 7.3 | 2.003 | 2.865 | 12.7 | 18.3 |

**508546** 2016 $TJ_{83}$ 7 17.8 173°.22 2°.8/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.68 | −29 42.7 | 2.738 | 3.564 | 10.8 | 22.1 |
| 6 20 | 20 11.50 | −30 8.7 | 2.657 | 3.567 | 8.5 | 22.0 |
| 6 30 | 20 4.52 | −30 33.7 | 2.600 | 3.569 | 5.8 | 21.8 |
| 7 10 | 19 56.26 | −30 54.2 | 2.570 | 3.570 | 3.5 | 21.6 |
| 7 20 | 19 47.38 | −31 7.5 | 2.568 | 3.571 | 3.0 | 21.6 |
| 7 30 | 19 38.68 | −31 11.8 | 2.594 | 3.572 | 5.1 | 21.8 |
| 8 9 | 19 30.94 | −31 6.5 | 2.648 | 3.573 | 7.8 | 21.9 |
| 8 19 | 19 24.77 | −30 52.7 | 2.727 | 3.573 | 10.2 | 22.1 |

**510913** 2013 $EG_1$ 7 17.8 65°.71 2°.6/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.18 | −28 15.0 | 2.158 | 2.995 | 13.0 | 21.4 |
| 6 20 | 20 12.27 | −28 27.8 | 2.083 | 2.999 | 10.1 | 21.2 |
| 6 30 | 20 5.20 | −28 39.9 | 2.031 | 3.003 | 6.9 | 21.0 |
| 7 10 | 19 56.60 | −28 47.7 | 2.003 | 3.008 | 3.7 | 20.8 |
| 7 20 | 19 47.30 | −28 48.3 | 2.003 | 3.012 | 2.9 | 20.8 |
| 7 30 | 19 38.29 | −28 40.0 | 2.031 | 3.017 | 5.6 | 21.0 |
| 8 9 | 19 30.51 | −28 22.8 | 2.085 | 3.021 | 8.9 | 21.2 |
| 8 19 | 19 24.67 | −27 58.0 | 2.163 | 3.026 | 11.9 | 21.4 |

**81256** 2000 $FM_{36}$ 7 17.8 107°.21 1°.1/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.36 | −21 23.5 | 1.695 | 2.537 | 15.7 | 20.2 |
| 6 20 | 20 13.65 | −21 58.4 | 1.629 | 2.549 | 12.2 | 20.0 |
| 6 30 | 20 6.36 | −22 40.1 | 1.584 | 2.560 | 8.1 | 19.8 |
| 7 10 | 19 57.19 | −23 23.9 | 1.563 | 2.571 | 3.6 | 19.6 |
| 7 20 | 19 47.13 | −24 5.1 | 1.568 | 2.582 | 1.7 | 19.4 |
| 7 30 | 19 37.40 | −24 39.6 | 1.600 | 2.593 | 5.9 | 19.8 |
| 8 9 | 19 29.15 | −25 5.0 | 1.657 | 2.603 | 10.1 | 20.0 |
| 8 19 | 19 23.20 | −25 21.0 | 1.737 | 2.613 | 13.7 | 20.3 |

**469335** 2000 $SH_{50}$ 7 17.8 320°.69 4°.5/19.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.58 | −12 29.2 | 1.335 | 2.188 | 18.6 | 20.8 |
| 6 20 | 20 8.59 | −11 59.1 | 1.236 | 2.157 | 15.2 | 20.5 |
| 6 30 | 20 3.66 | −11 41.6 | 1.155 | 2.126 | 11.1 | 20.1 |
| 7 10 | 19 56.28 | −11 38.3 | 1.095 | 2.096 | 6.8 | 19.8 |
| 7 20 | 19 47.32 | −11 49.1 | 1.058 | 2.067 | 4.5 | 19.6 |
| 7 30 | 19 38.14 | −12 12.2 | 1.043 | 2.039 | 7.7 | 19.7 |
| 8 9 | 19 30.25 | −12 44.0 | 1.050 | 2.012 | 12.7 | 19.9 |
| 8 19 | 19 24.90 | −13 20.3 | 1.077 | 1.986 | 17.5 | 20.1 |

**507913** 2014 $WX_{141}$ 7 17.8 316°.64 5°.1/19.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.97 | −11 42.8 | 1.191 | 2.046 | 20.2 | 20.9 |
| 6 20 | 20 10.59 | −11 8.9 | 1.109 | 2.030 | 16.5 | 20.6 |
| 6 30 | 20 5.01 | −10 50.1 | 1.045 | 2.015 | 12.0 | 20.3 |
| 7 10 | 19 56.85 | −10 48.0 | 1.001 | 2.001 | 7.4 | 20.0 |
| 7 20 | 19 47.18 | −11 2.2 | 0.978 | 1.987 | 5.1 | 19.9 |
| 7 30 | 19 37.52 | −11 30.2 | 0.978 | 1.974 | 8.2 | 20.0 |
| 8 9 | 19 29.47 | −12 7.5 | 1.000 | 1.961 | 13.2 | 20.2 |
| 8 19 | 19 24.27 | −12 49.1 | 1.040 | 1.950 | 17.9 | 20.5 |

**255359** 2005 $WW_{97}$ 7 17.8 269°.48 0°.6/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.53 | −21 16.1 | 2.429 | 3.259 | 11.9 | 21.5 |
| 6 20 | 20 9.36 | −21 36.4 | 2.330 | 3.244 | 9.3 | 21.3 |
| 6 30 | 20 3.29 | −22 1.5 | 2.255 | 3.229 | 6.2 | 21.1 |
| 7 10 | 19 55.80 | −22 28.8 | 2.205 | 3.214 | 2.8 | 20.8 |
| 7 20 | 19 47.51 | −22 55.6 | 2.183 | 3.198 | 1.1 | 20.7 |
| 7 30 | 19 39.25 | −23 19.3 | 2.190 | 3.183 | 4.6 | 20.9 |
| 8 9 | 19 31.85 | −23 38.0 | 2.223 | 3.167 | 8.0 | 21.1 |
| 8 19 | 19 26.00 | −23 50.9 | 2.281 | 3.151 | 11.1 | 21.3 |

**475798** 2006 $XH_{54}$ 7 17.8 200°.32 4°.0/15.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.21 | −31 15.1 | 2.637 | 3.466 | 11.1 | 21.8 |
| 6 20 | 20 11.43 | −32 20.5 | 2.554 | 3.463 | 8.8 | 21.6 |
| 6 30 | 20 4.66 | −33 25.9 | 2.495 | 3.460 | 6.3 | 21.5 |
| 7 10 | 19 56.41 | −34 26.4 | 2.464 | 3.456 | 4.3 | 21.3 |
| 7 20 | 19 47.35 | −35 17.6 | 2.460 | 3.452 | 4.3 | 21.3 |
| 7 30 | 19 38.33 | −35 56.0 | 2.484 | 3.448 | 6.3 | 21.4 |
| 8 9 | 19 30.24 | −36 20.5 | 2.536 | 3.443 | 8.8 | 21.6 |
| 8 19 | 19 23.79 | −36 31.4 | 2.611 | 3.438 | 11.2 | 21.8 |

**474628** 2004 $TX_{232}$ 7 17.8 323°.22 4°.4/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.23 | −27 54.1 | 1.343 | 2.214 | 17.4 | 21.2 |
| 6 20 | 20 10.93 | −28 34.3 | 1.254 | 2.190 | 13.8 | 20.9 |
| 6 30 | 20 5.34 | −29 18.3 | 1.185 | 2.166 | 9.6 | 20.6 |
| 7 10 | 19 57.05 | −29 59.7 | 1.138 | 2.143 | 5.5 | 20.3 |
| 7 20 | 19 47.13 | −30 31.2 | 1.113 | 2.121 | 4.8 | 20.2 |
| 7 30 | 19 37.16 | −30 47.2 | 1.112 | 2.100 | 8.8 | 20.3 |
| 8 9 | 19 28.84 | −30 45.4 | 1.132 | 2.080 | 13.5 | 20.5 |
| 8 19 | 19 23.46 | −30 27.1 | 1.172 | 2.060 | 18.0 | 20.7 |

**38356** 1999 $RS_{152}$ 7 17.8 258°.71 4°.8/20.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.49 | − 5 29.9 | 2.347 | 3.135 | 13.5 | 19.1 |
| 6 20 | 20 7.66 | − 5 17.6 | 2.256 | 3.130 | 11.2 | 18.9 |
| 6 30 | 20 2.09 | − 5 18.5 | 2.186 | 3.125 | 8.6 | 18.8 |
| 7 10 | 19 55.24 | − 5 33.0 | 2.141 | 3.120 | 6.1 | 18.6 |
| 7 20 | 19 47.70 | − 6 0.5 | 2.121 | 3.115 | 4.8 | 18.5 |
| 7 30 | 19 40.24 | − 6 39.1 | 2.129 | 3.109 | 5.9 | 18.6 |
| 8 9 | 19 33.60 | − 7 25.7 | 2.163 | 3.104 | 8.4 | 18.7 |
| 8 19 | 19 28.40 | − 8 16.9 | 2.222 | 3.099 | 11.1 | 18.9 |

**31332** 1998 $HC_{101}$ 7 17.8 117°.23 0°.7/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.48 | −22 0.2 | 2.502 | 3.327 | 11.8 | 19.3 |
| 6 20 | 20 10.57 | −22 20.7 | 2.430 | 3.341 | 9.1 | 19.2 |
| 6 30 | 20 3.89 | −22 44.6 | 2.382 | 3.355 | 6.0 | 19.0 |
| 7 10 | 19 55.98 | −23 9.2 | 2.360 | 3.368 | 2.7 | 18.8 |
| 7 20 | 19 47.52 | −23 32.0 | 2.367 | 3.381 | 1.1 | 18.7 |
| 7 30 | 19 39.28 | −23 50.7 | 2.402 | 3.394 | 4.3 | 18.9 |
| 8 9 | 19 32.03 | −24 4.2 | 2.465 | 3.407 | 7.4 | 19.2 |
| 8 19 | 19 26.34 | −24 12.0 | 2.553 | 3.419 | 10.2 | 19.4 |

**393173** 2013 $CQ_{60}$ 7 17.8 315°.31 1°.6/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.78 | −25 21.5 | 1.931 | 2.773 | 14.1 | 20.7 |
| 6 20 | 20 12.30 | −25 22.0 | 1.846 | 2.766 | 11.0 | 20.5 |
| 6 30 | 20 5.43 | −25 23.5 | 1.783 | 2.759 | 7.4 | 20.3 |
| 7 10 | 19 56.81 | −25 23.0 | 1.744 | 2.752 | 3.5 | 20.0 |
| 7 20 | 19 47.30 | −25 17.7 | 1.732 | 2.746 | 1.9 | 19.9 |
| 7 30 | 19 38.01 | −25 5.9 | 1.747 | 2.739 | 5.6 | 20.2 |
| 8 9 | 19 29.99 | −24 47.4 | 1.788 | 2.733 | 9.5 | 20.4 |
| 8 19 | 19 24.04 | −24 22.9 | 1.852 | 2.728 | 13.0 | 20.6 |

**367582** 2009 $SS_{230}$ 7 17.8 290°.31 2°.0/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.33 | −16 17.3 | 1.603 | 2.443 | 16.6 | 20.8 |
| 6 20 | 20 12.66 | −16 8.0 | 1.499 | 2.415 | 13.3 | 20.5 |
| 6 30 | 20 6.17 | −16 8.1 | 1.414 | 2.386 | 9.3 | 20.2 |
| 7 10 | 19 57.36 | −16 16.5 | 1.352 | 2.358 | 4.8 | 19.8 |
| 7 20 | 19 47.09 | −16 31.3 | 1.315 | 2.329 | 2.1 | 19.6 |
| 7 30 | 19 36.63 | −16 49.7 | 1.303 | 2.300 | 6.4 | 19.8 |
| 8 9 | 19 27.34 | −17 9.0 | 1.316 | 2.271 | 11.3 | 20.0 |
| 8 19 | 19 20.39 | −17 27.0 | 1.351 | 2.242 | 15.9 | 20.2 |

**313342** 2002 $GH_{69}$ 7 17.8 94°.33 0°.3/17.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.57 | −20 13.8 | 1.483 | 2.328 | 17.4 | 21.4 |
| 6 20 | 20 15.57 | −20 31.1 | 1.424 | 2.344 | 13.5 | 21.2 |
| 6 30 | 20 7.72 | −20 55.9 | 1.384 | 2.361 | 9.0 | 21.0 |
| 7 10 | 19 57.83 | −21 24.2 | 1.368 | 2.377 | 4.0 | 20.7 |
| 7 20 | 19 47.05 | −21 51.5 | 1.377 | 2.392 | 1.2 | 20.6 |
| 7 30 | 19 36.76 | −22 14.2 | 1.412 | 2.408 | 6.2 | 20.9 |
| 8 9 | 19 28.21 | −22 30.2 | 1.472 | 2.423 | 10.7 | 21.2 |
| 8 19 | 19 22.27 | −22 39.1 | 1.554 | 2.438 | 14.6 | 21.5 |

**518203** 2016 $PQ_{97}$ 7 17.8 288°.90 2°.5/19.0 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.56 | −12 50.9 | 1.824 | 2.652 | 15.4 | 21.7 |
| 6 20 | 20 9.86 | −13 1.5 | 1.739 | 2.646 | 12.3 | 21.4 |
| 6 30 | 20 3.87 | −13 24.7 | 1.674 | 2.640 | 8.6 | 21.2 |
| 7 10 | 19 56.15 | −13 59.1 | 1.633 | 2.635 | 4.7 | 21.0 |
| 7 20 | 19 47.49 | −14 42.1 | 1.617 | 2.629 | 2.5 | 20.8 |
| 7 30 | 19 38.92 | −15 29.9 | 1.628 | 2.624 | 5.5 | 21.0 |
| 8 9 | 19 31.48 | −16 18.7 | 1.665 | 2.619 | 9.5 | 21.2 |
| 8 19 | 19 25.97 | −17 5.0 | 1.725 | 2.613 | 13.1 | 21.4 |

**482423** 2012 $BN_{137}$ 7 17.8 180°.36 0°.7/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.50 | −22 20.5 | 2.768 | 3.593 | 10.8 | 22.4 |
| 6 20 | 20 9.00 | −22 40.5 | 2.683 | 3.594 | 8.3 | 22.2 |
| 6 30 | 20 2.86 | −23 3.5 | 2.621 | 3.594 | 5.5 | 22.0 |
| 7 10 | 19 55.56 | −23 27.3 | 2.586 | 3.594 | 2.5 | 21.8 |
| 7 20 | 19 47.68 | −23 49.5 | 2.579 | 3.594 | 1.1 | 21.7 |
| 7 30 | 19 39.92 | −24 8.1 | 2.602 | 3.594 | 4.1 | 21.9 |
| 8 9 | 19 32.97 | −24 21.7 | 2.652 | 3.593 | 7.0 | 22.1 |
| 8 19 | 19 27.40 | −24 29.9 | 2.727 | 3.592 | 9.6 | 22.3 |

**507160** 2010 $AT_{32}$ 7 17.8 192°.49 1°.4/17.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.47 | −22 57.1 | 2.100 | 2.933 | 13.4 | 22.5 |
| 6 20 | 20 12.65 | −23 29.0 | 2.017 | 2.932 | 10.4 | 22.3 |
| 6 30 | 20 5.61 | −24 5.5 | 1.956 | 2.930 | 6.9 | 22.1 |
| 7 10 | 19 56.89 | −24 42.8 | 1.920 | 2.928 | 3.2 | 21.9 |
| 7 20 | 19 47.31 | −25 17.0 | 1.912 | 2.926 | 1.8 | 21.8 |
| 7 30 | 19 37.87 | −25 44.8 | 1.932 | 2.923 | 5.4 | 22.0 |
| 8 9 | 19 29.56 | −26 4.3 | 1.979 | 2.919 | 9.0 | 22.2 |
| 8 19 | 19 23.15 | −26 15.3 | 2.049 | 2.916 | 12.3 | 22.4 |

**263636** 2008 $GH_{67}$ 7 17.8 13°.38 0°.5/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.11 | −20 42.3 | 1.845 | 2.692 | 14.4 | 19.9 |
| 6 20 | 20 8.68 | −21 4.5 | 1.772 | 2.695 | 11.2 | 19.7 |
| 6 30 | 20 3.02 | −21 33.0 | 1.721 | 2.699 | 7.4 | 19.5 |
| 7 10 | 19 55.73 | −22 4.7 | 1.694 | 2.703 | 3.3 | 19.2 |
| 7 20 | 19 47.64 | −22 36.0 | 1.693 | 2.708 | 1.2 | 19.1 |
| 7 30 | 19 39.79 | −23 3.5 | 1.719 | 2.714 | 5.3 | 19.4 |
| 8 9 | 19 33.14 | −23 25.1 | 1.769 | 2.720 | 9.2 | 19.6 |
| 8 19 | 19 28.45 | −23 39.7 | 1.843 | 2.727 | 12.6 | 19.9 |

**365598** 2010 $TL_{170}$ 7 17.8 198°.30 8°.2/23.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.34 | +11 22.3 | 3.256 | 3.922 | 12.3 | 22.0 |
| 6 20 | 20 7.07 | +12 8.4 | 3.166 | 3.919 | 11.1 | 21.9 |
| 6 30 | 20 1.48 | +12 39.3 | 3.094 | 3.915 | 9.9 | 21.8 |
| 7 10 | 19 54.93 | +12 52.8 | 3.044 | 3.910 | 8.9 | 21.7 |
| 7 20 | 19 47.88 | +12 47.7 | 3.018 | 3.905 | 8.3 | 21.6 |
| 7 30 | 19 40.88 | +12 24.1 | 3.016 | 3.900 | 8.4 | 21.6 |
| 8 9 | 19 34.46 | +11 44.0 | 3.040 | 3.894 | 9.1 | 21.7 |
| 8 19 | 19 29.09 | +10 50.4 | 3.086 | 3.888 | 10.2 | 21.8 |

**138075** 2000 $DE_{57}$ 7 17.8 286°.93 0°.3/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.91 | −20 42.2 | 1.568 | 2.417 | 16.5 | 19.9 |
| 6 20 | 20 13.16 | −20 51.1 | 1.473 | 2.396 | 13.0 | 19.6 |
| 6 30 | 20 6.51 | −21 7.2 | 1.397 | 2.375 | 8.8 | 19.3 |
| 7 10 | 19 57.51 | −21 27.5 | 1.344 | 2.353 | 4.0 | 19.0 |
| 7 20 | 19 47.12 | −21 48.2 | 1.317 | 2.332 | 1.2 | 18.7 |
| 7 30 | 19 36.67 | −22 5.5 | 1.315 | 2.311 | 6.4 | 19.0 |
| 8 9 | 19 27.56 | −22 17.1 | 1.337 | 2.290 | 11.4 | 19.2 |
| 8 19 | 19 20.93 | −22 22.0 | 1.381 | 2.268 | 15.8 | 19.4 |

**481633** 2007 $VT_7$ 7 17.8 299°.14 5°.6/19.5 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.28 | − 8 42.7 | 1.832 | 2.645 | 15.9 | 21.0 |
| 6 20 | 20 10.43 | − 7 53.1 | 1.737 | 2.629 | 13.1 | 20.8 |
| 6 30 | 20 4.29 | − 7 14.5 | 1.663 | 2.613 | 10.0 | 20.5 |
| 7 10 | 19 56.38 | − 6 48.6 | 1.611 | 2.597 | 7.0 | 20.3 |
| 7 20 | 19 47.46 | − 6 36.4 | 1.584 | 2.581 | 5.6 | 20.2 |
| 7 30 | 19 38.56 | − 6 37.6 | 1.583 | 2.566 | 7.3 | 20.3 |
| 8 9 | 19 30.73 | − 6 50.3 | 1.607 | 2.551 | 10.5 | 20.4 |
| 8 19 | 19 24.82 | − 7 11.5 | 1.654 | 2.536 | 13.9 | 20.6 |

**191299** 2003 $GH_9$ 7 17.8 40°.86 3°.2/19.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.89 | −12 2.8 | 1.409 | 2.251 | 18.3 | 20.1 |
| 6 20 | 20 10.46 | −12 6.1 | 1.349 | 2.264 | 14.6 | 19.8 |
| 6 30 | 20 4.37 | −12 25.1 | 1.309 | 2.278 | 10.2 | 19.6 |
| 7 10 | 19 56.37 | −12 58.1 | 1.290 | 2.292 | 5.8 | 19.4 |
| 7 20 | 19 47.50 | −13 41.7 | 1.295 | 2.307 | 3.3 | 19.3 |
| 7 30 | 19 39.00 | −14 31.4 | 1.326 | 2.322 | 6.3 | 19.5 |
| 8 9 | 19 32.07 | −15 22.1 | 1.380 | 2.338 | 10.6 | 19.8 |
| 8 19 | 19 27.51 | −16 9.9 | 1.456 | 2.354 | 14.5 | 20.1 |

**91542** 1999 $RC_{207}$ 7 17.8 257°.69 4°.3/19.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.09 | − 7 59.3 | 2.512 | 3.303 | 12.7 | 19.4 |
| 6 20 | 20 8.83 | − 7 28.2 | 2.413 | 3.291 | 10.4 | 19.3 |
| 6 30 | 20 2.86 | − 7 6.5 | 2.336 | 3.279 | 7.9 | 19.1 |
| 7 10 | 19 55.62 | − 6 55.2 | 2.284 | 3.266 | 5.5 | 18.9 |
| 7 20 | 19 47.69 | − 6 54.1 | 2.258 | 3.254 | 4.3 | 18.8 |
| 7 30 | 19 39.81 | − 7 2.7 | 2.261 | 3.241 | 5.6 | 18.9 |
| 8 9 | 19 32.70 | − 7 19.1 | 2.290 | 3.228 | 8.1 | 19.0 |
| 8 19 | 19 26.97 | − 7 41.1 | 2.344 | 3.215 | 10.8 | 19.2 |

**255389** 2005 $WO_{158}$ 7 17.8 178°.01 8°.7/18.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 28.72 | −10 22.3 | 1.219 | 2.042 | 21.8 | 19.7 |
| 6 20 | 20 22.52 | − 8 16.4 | 1.147 | 2.043 | 18.0 | 19.5 |
| 6 30 | 20 12.76 | − 6 18.2 | 1.093 | 2.044 | 13.8 | 19.2 |
| 7 10 | 20 0.26 | − 4 33.7 | 1.061 | 2.045 | 10.0 | 19.0 |
| 7 20 | 19 46.40 | − 3 9.3 | 1.053 | 2.045 | 8.7 | 19.0 |
| 7 30 | 19 32.95 | − 2 9.2 | 1.070 | 2.044 | 11.1 | 19.1 |
| 8 9 | 19 21.59 | − 1 33.8 | 1.110 | 2.043 | 15.1 | 19.3 |
| 8 19 | 19 13.46 | − 1 19.8 | 1.169 | 2.042 | 19.1 | 19.6 |

**368529** 2003 $WX_{55}$ 7 17.8 180°.23 1°.2/18.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.95 | −17 52.0 | 1.811 | 2.639 | 15.4 | 21.4 |
| 6 20 | 20 14.77 | −17 44.1 | 1.730 | 2.640 | 12.1 | 21.2 |
| 6 30 | 20 7.09 | −17 43.2 | 1.670 | 2.641 | 8.2 | 21.0 |
| 7 10 | 19 57.58 | −17 47.3 | 1.634 | 2.641 | 4.0 | 20.7 |
| 7 20 | 19 47.15 | −17 54.2 | 1.626 | 2.641 | 1.5 | 20.6 |
| 7 30 | 19 36.95 | −18 1.8 | 1.644 | 2.640 | 5.5 | 20.8 |
| 8 9 | 19 28.08 | −18 8.5 | 1.689 | 2.638 | 9.7 | 21.1 |
| 8 19 | 19 21.39 | −18 13.1 | 1.757 | 2.637 | 13.4 | 21.3 |

**48042** 2001 $DO_{71}$ 7 17.8 347°.37 5°.5/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.25 | −30 6.4 | 0.978 | 1.874 | 20.3 | 17.2 |
| 6 20 | 20 9.42 | −30 31.1 | 0.912 | 1.860 | 16.2 | 16.9 |
| 6 30 | 20 4.69 | −30 54.5 | 0.862 | 1.848 | 11.4 | 16.6 |
| 7 10 | 19 56.85 | −31 9.1 | 0.831 | 1.837 | 6.9 | 16.3 |
| 7 20 | 19 47.35 | −31 7.5 | 0.820 | 1.829 | 5.9 | 16.2 |
| 7 30 | 19 38.21 | −30 45.5 | 0.830 | 1.822 | 10.0 | 16.4 |
| 8 9 | 19 31.37 | −30 4.2 | 0.859 | 1.818 | 15.1 | 16.7 |
| 8 19 | 19 28.09 | −29 7.8 | 0.904 | 1.815 | 19.8 | 17.0 |

**394234** 2006 $SA_{375}$ 7 17.8 234°.36 3°.5/15.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.37 | −27 33.9 | 2.117 | 2.958 | 13.1 | 21.4 |
| 6 20 | 20 11.16 | −28 36.5 | 2.039 | 2.957 | 10.2 | 21.3 |
| 6 30 | 20 4.70 | −29 41.6 | 1.984 | 2.956 | 7.0 | 21.1 |
| 7 10 | 19 56.54 | −30 44.2 | 1.954 | 2.956 | 4.2 | 20.9 |
| 7 20 | 19 47.47 | −31 38.9 | 1.951 | 2.955 | 3.8 | 20.9 |
| 7 30 | 19 38.50 | −32 21.5 | 1.976 | 2.954 | 6.5 | 21.0 |
| 8 9 | 19 30.67 | −32 50.1 | 2.026 | 2.953 | 9.7 | 21.2 |
| 8 19 | 19 24.75 | −33 4.9 | 2.100 | 2.952 | 12.6 | 21.4 |

**71809** 2000 $SX_{319}$ 7 17.8 173°.55 4°.6/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 25.20 | −31 54.1 | 1.794 | 2.629 | 15.3 | 19.5 |
| 6 20 | 20 19.13 | −32 24.9 | 1.720 | 2.632 | 12.1 | 19.3 |
| 6 30 | 20 10.14 | −32 52.9 | 1.667 | 2.634 | 8.6 | 19.1 |
| 7 10 | 19 58.99 | −33 11.8 | 1.638 | 2.636 | 5.4 | 18.9 |
| 7 20 | 19 46.81 | −33 16.7 | 1.636 | 2.637 | 4.9 | 18.9 |
| 7 30 | 19 35.02 | −33 5.1 | 1.661 | 2.637 | 7.6 | 19.1 |
| 8 9 | 19 24.95 | −32 38.0 | 1.711 | 2.637 | 11.2 | 19.3 |
| 8 19 | 19 17.51 | −31 58.5 | 1.784 | 2.636 | 14.5 | 19.5 |

**393053** 2013 $AQ_{49}$ 7 17.8 88°.11 4°.2/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.13 | −29 56.7 | 2.111 | 2.952 | 13.1 | 21.0 |
| 6 20 | 20 11.75 | −30 58.0 | 2.040 | 2.956 | 10.3 | 20.9 |
| 6 30 | 20 5.06 | −31 59.6 | 1.991 | 2.961 | 7.2 | 20.7 |
| 7 10 | 19 56.68 | −32 56.2 | 1.967 | 2.965 | 4.7 | 20.5 |
| 7 20 | 19 47.44 | −33 42.5 | 1.971 | 2.969 | 4.5 | 20.5 |
| 7 30 | 19 38.38 | −34 14.9 | 2.001 | 2.973 | 6.9 | 20.7 |
| 8 9 | 19 30.52 | −34 32.2 | 2.057 | 2.977 | 9.9 | 20.9 |
| 8 19 | 19 24.66 | −34 35.2 | 2.135 | 2.981 | 12.6 | 21.1 |

**503551** 2016 $FN_{42}$ 7 17.8 138°.10 3°.3/16.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 20.17 | −25 3.0 | 1.467 | 2.320 | 17.2 | 21.2 |
| 6 20 | 20 15.71 | −25 59.4 | 1.400 | 2.325 | 13.4 | 20.9 |
| 6 30 | 20 8.13 | −27 1.6 | 1.352 | 2.330 | 9.0 | 20.7 |
| 7 10 | 19 58.18 | −28 2.6 | 1.328 | 2.334 | 4.7 | 20.5 |
| 7 20 | 19 47.02 | −28 55.4 | 1.328 | 2.338 | 3.7 | 20.4 |
| 7 30 | 19 36.16 | −29 34.1 | 1.355 | 2.342 | 7.6 | 20.7 |
| 8 9 | 19 27.05 | −29 56.8 | 1.405 | 2.346 | 12.0 | 20.9 |
| 8 19 | 19 20.71 | −30 4.2 | 1.477 | 2.349 | 15.8 | 21.2 |

**482402** 2012 $BR_{31}$ 7 17.8 199°.06 3°.0/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.29 | −31 32.7 | 2.912 | 3.732 | 10.4 | 21.9 |
| 6 20 | 20 12.68 | −31 47.2 | 2.825 | 3.729 | 8.2 | 21.8 |
| 6 30 | 20 5.31 | −31 59.0 | 2.761 | 3.726 | 5.7 | 21.6 |
| 7 10 | 19 56.68 | −32 5.2 | 2.724 | 3.721 | 3.6 | 21.5 |
| 7 20 | 19 47.47 | −32 3.4 | 2.716 | 3.717 | 3.2 | 21.4 |
| 7 30 | 19 38.43 | −31 52.1 | 2.737 | 3.712 | 5.1 | 21.6 |
| 8 9 | 19 30.34 | −31 31.6 | 2.786 | 3.707 | 7.6 | 21.7 |
| 8 19 | 19 23.78 | −31 3.1 | 2.860 | 3.702 | 9.9 | 21.9 |

**149757** 2004 $PO_{55}$ 7 17.8 311°.16 0°.9/18.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.77 | −16 3.4 | 2.123 | 2.953 | 13.4 | 19.7 |
| 6 20 | 20 8.23 | −16 30.6 | 2.032 | 2.944 | 10.5 | 19.5 |
| 6 30 | 20 2.69 | −17 7.4 | 1.963 | 2.935 | 7.2 | 19.2 |
| 7 10 | 19 55.64 | −17 51.7 | 1.919 | 2.926 | 3.4 | 19.0 |
| 7 20 | 19 47.76 | −18 40.3 | 1.903 | 2.918 | 1.1 | 18.8 |
| 7 30 | 19 39.92 | −19 29.6 | 1.913 | 2.909 | 4.7 | 19.0 |
| 8 9 | 19 33.03 | −20 16.2 | 1.950 | 2.901 | 8.5 | 19.2 |
| 8 19 | 19 27.79 | −20 57.8 | 2.011 | 2.894 | 11.8 | 19.4 |

**348983** 2006 $UF_{159}$ 7 17.8 335°.81 1°.0/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.71 | −21 46.4 | 1.862 | 2.707 | 14.4 | 20.9 |
| 6 20 | 20 10.03 | −22 13.3 | 1.780 | 2.702 | 11.2 | 20.7 |
| 6 30 | 20 4.03 | −22 46.3 | 1.720 | 2.698 | 7.4 | 20.5 |
| 7 10 | 19 56.27 | −23 21.6 | 1.685 | 2.694 | 3.4 | 20.2 |
| 7 20 | 19 47.60 | −23 55.6 | 1.675 | 2.690 | 1.5 | 20.1 |
| 7 30 | 19 39.06 | −24 24.5 | 1.692 | 2.686 | 5.6 | 20.3 |
| 8 9 | 19 31.73 | −24 46.0 | 1.735 | 2.683 | 9.5 | 20.6 |
| 8 19 | 19 26.40 | −24 59.3 | 1.800 | 2.680 | 13.1 | 20.8 |

**302715** 2002 $TA_{249}$ 7 17.8 330°.46 3°.4/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.30 | −12 25.6 | 1.598 | 2.437 | 16.7 | 20.0 |
| 6 20 | 20 8.48 | −12 15.0 | 1.511 | 2.424 | 13.4 | 19.8 |
| 6 30 | 20 3.18 | −12 17.2 | 1.444 | 2.411 | 9.6 | 19.5 |
| 7 10 | 19 55.96 | −12 32.2 | 1.399 | 2.399 | 5.6 | 19.3 |
| 7 20 | 19 47.67 | −12 58.4 | 1.378 | 2.388 | 3.4 | 19.1 |
| 7 30 | 19 39.44 | −13 32.7 | 1.382 | 2.378 | 6.3 | 19.3 |
| 8 9 | 19 32.43 | −14 11.3 | 1.411 | 2.368 | 10.5 | 19.5 |
| 8 19 | 19 27.55 | −14 50.7 | 1.461 | 2.359 | 14.4 | 19.7 |

**9766** Bradbury 7 17.8 180°.20 0°.7/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.35 | −21 11.4 | 1.815 | 2.652 | 15.0 | 18.5 |
| 6 20 | 20 13.63 | −21 33.3 | 1.736 | 2.653 | 11.7 | 18.3 |
| 6 30 | 20 6.42 | −22 1.2 | 1.678 | 2.653 | 7.8 | 18.1 |
| 7 10 | 19 57.34 | −22 31.8 | 1.645 | 2.653 | 3.5 | 17.8 |
| 7 20 | 19 47.31 | −23 1.0 | 1.638 | 2.653 | 1.3 | 17.7 |
| 7 30 | 19 37.48 | −23 25.3 | 1.659 | 2.653 | 5.6 | 18.0 |
| 8 9 | 19 28.97 | −23 42.8 | 1.705 | 2.652 | 9.8 | 18.2 |
| 8 19 | 19 22.64 | −23 52.8 | 1.774 | 2.651 | 13.4 | 18.4 |

**281210** 2007 $GL_{66}$ 7 17.8 244°.14 5°.3/19.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.00 | − 6 36.6 | 2.114 | 2.905 | 14.8 | 21.2 |
| 6 20 | 20 11.50 | − 6 8.5 | 2.013 | 2.889 | 12.2 | 21.0 |
| 6 30 | 20 4.90 | − 5 53.0 | 1.932 | 2.873 | 9.4 | 20.7 |
| 7 10 | 19 56.66 | − 5 51.1 | 1.875 | 2.856 | 6.6 | 20.5 |
| 7 20 | 19 47.49 | − 6 3.1 | 1.844 | 2.839 | 5.3 | 20.4 |
| 7 30 | 19 38.28 | − 6 27.5 | 1.841 | 2.821 | 6.7 | 20.5 |
| 8 9 | 19 29.99 | − 7 1.9 | 1.863 | 2.802 | 9.6 | 20.6 |
| 8 19 | 19 23.38 | − 7 42.7 | 1.910 | 2.783 | 12.7 | 20.8 |

**461838** 2006 $DU_{35}$ 7 17.9 77°.67 4°.1/19.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.04 | −10 24.5 | 1.338 | 2.172 | 19.6 | 21.7 |
| 6 20 | 20 13.77 | −10 24.4 | 1.281 | 2.189 | 15.6 | 21.5 |
| 6 30 | 20 6.64 | −10 42.0 | 1.243 | 2.207 | 11.2 | 21.3 |
| 7 10 | 19 57.45 | −11 16.2 | 1.226 | 2.224 | 6.6 | 21.1 |
| 7 20 | 19 47.34 | −12 3.3 | 1.233 | 2.242 | 4.1 | 21.0 |
| 7 30 | 19 37.69 | −12 58.4 | 1.264 | 2.259 | 6.9 | 21.2 |
| 8 9 | 19 29.77 | −13 55.7 | 1.320 | 2.276 | 11.2 | 21.5 |
| 8 19 | 19 24.45 | −14 50.6 | 1.398 | 2.293 | 15.1 | 21.8 |

**139852** 2001 $RD_{57}$ 7 17.9 270°.00 0°.6/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.94 | −17 43.9 | 2.109 | 2.939 | 13.5 | 20.4 |
| 6 20 | 20 9.94 | −17 58.8 | 2.018 | 2.930 | 10.6 | 20.2 |
| 6 30 | 20 3.85 | −18 21.4 | 1.948 | 2.920 | 7.1 | 20.0 |
| 7 10 | 19 56.18 | −18 49.5 | 1.904 | 2.911 | 3.4 | 19.7 |
| 7 20 | 19 47.66 | −19 20.4 | 1.886 | 2.902 | 1.0 | 19.5 |
| 7 30 | 19 39.21 | −19 51.1 | 1.896 | 2.892 | 4.8 | 19.8 |
| 8 9 | 19 31.74 | −20 19.1 | 1.933 | 2.883 | 8.6 | 20.0 |
| 8 19 | 19 26.02 | −20 42.8 | 1.993 | 2.873 | 12.0 | 20.2 |

**475146** 2005 $UZ_{358}$ 7 17.9 235°.20 4°.1/19.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 12.56 | − 8 0.2 | 2.420 | 3.215 | 13.0 | 22.1 |
| 6 20 | 20 8.47 | − 7 40.2 | 2.329 | 3.210 | 10.6 | 21.9 |
| 6 30 | 20 2.65 | − 7 31.0 | 2.260 | 3.206 | 8.0 | 21.8 |
| 7 10 | 19 55.58 | − 7 32.8 | 2.216 | 3.201 | 5.4 | 21.6 |
| 7 20 | 19 47.84 | − 7 45.2 | 2.198 | 3.196 | 4.1 | 21.5 |
| 7 30 | 19 40.20 | − 8 6.9 | 2.208 | 3.191 | 5.5 | 21.6 |
| 8 9 | 19 33.37 | − 8 35.4 | 2.245 | 3.186 | 8.1 | 21.7 |
| 8 19 | 19 27.98 | − 9 8.2 | 2.306 | 3.181 | 10.8 | 21.9 |

**476994** 2008 $YZ_{108}$ 7 17.9 232°.94 0°.2/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.81 | −19 13.2 | 2.044 | 2.877 | 13.7 | 21.4 |
| 6 20 | 20 10.67 | −19 43.1 | 1.959 | 2.873 | 10.7 | 21.2 |
| 6 30 | 20 4.36 | −20 20.6 | 1.895 | 2.869 | 7.1 | 21.0 |
| 7 10 | 19 56.42 | −21 2.7 | 1.857 | 2.865 | 3.2 | 20.7 |
| 7 20 | 19 47.61 | −21 45.6 | 1.846 | 2.861 | 1.0 | 20.6 |
| 7 30 | 19 38.89 | −22 25.8 | 1.862 | 2.857 | 5.0 | 20.9 |
| 8 9 | 19 31.24 | −23 0.4 | 1.905 | 2.852 | 8.9 | 21.1 |
| 8 19 | 19 25.42 | −23 27.9 | 1.971 | 2.848 | 12.3 | 21.3 |

**203965** 2003 $SB_{140}$ 7 17.9 307°.61 4°.0/16.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.48 | −28 17.8 | 1.775 | 2.624 | 14.8 | 20.2 |
| 6 20 | 20 12.50 | −29 9.5 | 1.696 | 2.619 | 11.6 | 19.9 |
| 6 30 | 20 5.85 | −30 3.4 | 1.639 | 2.614 | 8.0 | 19.7 |
| 7 10 | 19 57.17 | −30 53.6 | 1.607 | 2.609 | 4.8 | 19.5 |
| 7 20 | 19 47.40 | −31 34.3 | 1.599 | 2.604 | 4.3 | 19.5 |
| 7 30 | 19 37.77 | −32 1.2 | 1.618 | 2.599 | 7.3 | 19.7 |
| 8 9 | 19 29.54 | −32 12.7 | 1.662 | 2.595 | 11.0 | 19.9 |
| 8 19 | 19 23.62 | −32 9.9 | 1.727 | 2.590 | 14.4 | 20.1 |

**371547** 2006 $UO_{337}$ 7 17.9 251°.81 1°.2/17.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.19 | −22 31.8 | 1.807 | 2.645 | 15.1 | 22.4 |
| 6 20 | 20 14.57 | −22 53.7 | 1.711 | 2.629 | 11.8 | 22.2 |
| 6 30 | 20 7.27 | −23 21.2 | 1.637 | 2.612 | 8.0 | 21.9 |
| 7 10 | 19 57.85 | −23 50.6 | 1.586 | 2.595 | 3.7 | 21.6 |
| 7 20 | 19 47.21 | −24 17.5 | 1.563 | 2.577 | 1.7 | 21.4 |
| 7 30 | 19 36.54 | −24 38.3 | 1.566 | 2.559 | 6.1 | 21.7 |
| 8 9 | 19 27.13 | −24 50.8 | 1.595 | 2.540 | 10.5 | 21.9 |
| 8 19 | 19 19.95 | −24 54.8 | 1.646 | 2.521 | 14.4 | 22.1 |

**44400** 1998 $ST_{97}$ 7 17.9 345°.69 3°.1/19.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.21 | −12 37.8 | 1.613 | 2.450 | 16.6 | 18.8 |
| 6 20 | 20 9.10 | −12 35.3 | 1.533 | 2.445 | 13.3 | 18.5 |
| 6 30 | 20 3.54 | −12 46.0 | 1.473 | 2.441 | 9.4 | 18.3 |
| 7 10 | 19 56.12 | −13 9.2 | 1.436 | 2.437 | 5.3 | 18.1 |
| 7 20 | 19 47.72 | −13 42.5 | 1.423 | 2.434 | 3.1 | 17.9 |
| 7 30 | 19 39.45 | −14 22.6 | 1.435 | 2.431 | 6.0 | 18.1 |
| 8 9 | 19 32.45 | −15 5.3 | 1.472 | 2.429 | 10.2 | 18.3 |
| 8 19 | 19 27.57 | −15 47.1 | 1.531 | 2.427 | 14.0 | 18.5 |

**436400** 2010 $WB_{8}$ 7 17.9 288°.55 3°.1/18.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.86 | −13 20.1 | 2.304 | 3.116 | 13.1 | 20.7 |
| 6 20 | 20 10.44 | −12 43.6 | 2.201 | 3.097 | 10.5 | 20.5 |
| 6 30 | 20 4.10 | −12 13.5 | 2.119 | 3.078 | 7.6 | 20.3 |
| 7 10 | 19 56.29 | −11 49.9 | 2.062 | 3.059 | 4.6 | 20.1 |
| 7 20 | 19 47.67 | −11 33.0 | 2.033 | 3.040 | 3.1 | 20.0 |
| 7 30 | 19 39.07 | −11 22.2 | 2.032 | 3.021 | 5.3 | 20.1 |
| 8 9 | 19 31.34 | −11 16.8 | 2.057 | 3.002 | 8.5 | 20.2 |
| 8 19 | 19 25.18 | −11 15.4 | 2.107 | 2.983 | 11.6 | 20.4 |

**14008** 1993 $TD_{17}$ 7 17.9 3°.65 0°.5/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.85 | −20 41.7 | 1.823 | 2.665 | 14.8 | 19.0 |
| 6 20 | 20 10.91 | −21 2.6 | 1.745 | 2.665 | 11.5 | 18.7 |
| 6 30 | 20 4.61 | −21 30.0 | 1.689 | 2.665 | 7.6 | 18.5 |
| 7 10 | 19 56.56 | −22 0.7 | 1.656 | 2.665 | 3.4 | 18.3 |
| 7 20 | 19 47.61 | −22 30.9 | 1.650 | 2.666 | 1.2 | 18.1 |
| 7 30 | 19 38.86 | −22 57.3 | 1.671 | 2.666 | 5.4 | 18.4 |
| 8 9 | 19 31.35 | −23 17.5 | 1.717 | 2.667 | 9.5 | 18.6 |
| 8 19 | 19 25.90 | −23 30.8 | 1.786 | 2.668 | 13.1 | 18.9 |

**136114** 2003 $GU_{37}$ 7 17.9 36°.98 1°.6/18.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.12 | −16 46.3 | 1.125 | 1.990 | 20.4 | 20.0 |
| 6 20 | 20 12.93 | −16 45.9 | 1.068 | 1.999 | 16.1 | 19.7 |
| 6 30 | 20 6.43 | −16 58.5 | 1.029 | 2.008 | 10.9 | 19.5 |
| 7 10 | 19 57.47 | −17 21.4 | 1.010 | 2.018 | 5.3 | 19.2 |
| 7 20 | 19 47.37 | −17 50.6 | 1.014 | 2.029 | 1.9 | 19.0 |
| 7 30 | 19 37.78 | −18 21.1 | 1.041 | 2.040 | 7.0 | 19.4 |
| 8 9 | 19 30.18 | −18 49.2 | 1.090 | 2.052 | 12.3 | 19.7 |
| 8 19 | 19 25.58 | −19 12.2 | 1.159 | 2.064 | 16.8 | 20.0 |

**254345** 2004 $TO_{8}$ 7 17.9 266°.23 6°.2/22.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.37 | + 1 59.8 | 2.631 | 3.375 | 13.3 | 20.2 |
| 6 20 | 20 7.51 | + 1 53.2 | 2.525 | 3.359 | 11.4 | 20.0 |
| 6 30 | 20 2.04 | + 1 29.5 | 2.439 | 3.343 | 9.3 | 19.9 |
| 7 10 | 19 55.34 | + 0 47.5 | 2.376 | 3.327 | 7.4 | 19.7 |
| 7 20 | 19 47.94 | − 0 12.3 | 2.340 | 3.311 | 6.2 | 19.6 |
| 7 30 | 19 40.51 | − 1 27.5 | 2.331 | 3.294 | 6.7 | 19.6 |
| 8 9 | 19 33.74 | − 2 54.3 | 2.349 | 3.277 | 8.4 | 19.7 |
| 8 19 | 19 28.23 | − 4 27.9 | 2.394 | 3.260 | 10.7 | 19.8 |

**350461** 1998 $HE_{9}$ 7 17.9 109°.18 3°.3/19.9 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.09 | − 8 54.0 | 2.406 | 3.203 | 13.0 | 22.0 |
| 6 20 | 20 8.79 | − 9 0.8 | 2.330 | 3.215 | 10.5 | 21.8 |
| 6 30 | 20 2.81 | − 9 19.1 | 2.277 | 3.228 | 7.6 | 21.7 |
| 7 10 | 19 55.64 | − 9 48.2 | 2.248 | 3.240 | 4.8 | 21.5 |
| 7 20 | 19 47.90 | −10 26.3 | 2.247 | 3.251 | 3.3 | 21.4 |
| 7 30 | 19 40.34 | −11 10.7 | 2.274 | 3.263 | 4.8 | 21.6 |
| 8 9 | 19 33.66 | −11 58.4 | 2.328 | 3.274 | 7.6 | 21.8 |
| 8 19 | 19 28.44 | −12 46.5 | 2.408 | 3.286 | 10.3 | 21.9 |

**100864** 1998 $HW_{54}$ 7 17.9 106°.53 0°.1/17.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.25 | −20 19.5 | 2.496 | 3.317 | 11.9 | 21.0 |
| 6 20 | 20 11.14 | −20 30.9 | 2.428 | 3.337 | 9.2 | 20.9 |
| 6 30 | 20 4.30 | −20 46.4 | 2.384 | 3.355 | 6.1 | 20.7 |
| 7 10 | 19 56.28 | −21 3.6 | 2.366 | 3.374 | 2.7 | 20.5 |
| 7 20 | 19 47.75 | −21 20.5 | 2.376 | 3.392 | 0.8 | 20.4 |
| 7 30 | 19 39.48 | −21 34.9 | 2.416 | 3.410 | 4.1 | 20.7 |
| 8 9 | 19 32.21 | −21 45.8 | 2.483 | 3.427 | 7.3 | 20.9 |
| 8 19 | 19 26.50 | −21 52.7 | 2.575 | 3.444 | 10.0 | 21.1 |

**286991** 2002 $QU_{53}$ 7 17.9 35°.41 6°.8/16.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 22.24 | −37 3.1 | 1.559 | 2.405 | 16.6 | 20.4 |
| 6 20 | 20 17.20 | −37 32.5 | 1.502 | 2.416 | 13.4 | 20.2 |
| 6 30 | 20 8.97 | −37 53.6 | 1.466 | 2.427 | 10.1 | 20.0 |
| 7 10 | 19 58.51 | −37 59.5 | 1.452 | 2.439 | 7.4 | 19.9 |
| 7 20 | 19 47.16 | −37 45.2 | 1.462 | 2.451 | 7.1 | 19.9 |
| 7 30 | 19 36.51 | −37 9.7 | 1.497 | 2.464 | 9.2 | 20.1 |
| 8 9 | 19 27.93 | −36 15.9 | 1.556 | 2.478 | 12.4 | 20.3 |
| 8 19 | 19 22.27 | −35 9.0 | 1.636 | 2.491 | 15.4 | 20.5 |

**299665** 2006 $PE_{7}$ 7 17.9 257°.48 4°.5/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 21.14 | −33 40.3 | 2.224 | 3.053 | 12.9 | 20.4 |
| 6 20 | 20 15.67 | −34 2.5 | 2.132 | 3.039 | 10.3 | 20.2 |
| 6 30 | 20 7.74 | −34 20.9 | 2.061 | 3.024 | 7.5 | 20.0 |
| 7 10 | 19 57.98 | −34 30.6 | 2.016 | 3.009 | 5.1 | 19.8 |
| 7 20 | 19 47.27 | −34 27.7 | 1.998 | 2.994 | 4.7 | 19.8 |
| 7 30 | 19 36.72 | −34 10.1 | 2.008 | 2.979 | 6.9 | 19.9 |
| 8 9 | 19 27.44 | −33 38.4 | 2.043 | 2.963 | 9.9 | 20.1 |
| 8 19 | 19 20.27 | −32 54.9 | 2.102 | 2.948 | 12.8 | 20.2 |

**259845** 2004 $CN_{56}$ 7 17.9 182°.94 1°.3/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.90 | −22 44.2 | 1.922 | 2.755 | 14.5 | 21.8 |
| 6 20 | 20 14.76 | −23 9.9 | 1.841 | 2.756 | 11.3 | 21.6 |
| 6 30 | 20 7.16 | −23 40.3 | 1.782 | 2.756 | 7.5 | 21.4 |
| 7 10 | 19 57.73 | −24 11.4 | 1.748 | 2.756 | 3.5 | 21.1 |
| 7 20 | 19 47.35 | −24 39.4 | 1.741 | 2.755 | 1.7 | 21.0 |
| 7 30 | 19 37.16 | −25 0.9 | 1.761 | 2.753 | 5.6 | 21.3 |
| 8 9 | 19 28.26 | −25 14.2 | 1.808 | 2.751 | 9.6 | 21.5 |
| 8 19 | 19 21.49 | −25 19.3 | 1.879 | 2.748 | 13.1 | 21.7 |

**231363** 2006 $GO_{49}$ 7 17.9 134°.37 0°.7/18.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.62 | −17 52.5 | 2.197 | 3.017 | 13.3 | 21.5 |
| 6 20 | 20 12.48 | −18 3.1 | 2.123 | 3.029 | 10.4 | 21.3 |
| 6 30 | 20 5.36 | −18 20.1 | 2.071 | 3.041 | 7.0 | 21.1 |
| 7 10 | 19 56.82 | −18 41.4 | 2.046 | 3.052 | 3.3 | 20.9 |
| 7 20 | 19 47.62 | −19 4.4 | 2.048 | 3.063 | 1.0 | 20.7 |
| 7 30 | 19 38.66 | −19 26.7 | 2.078 | 3.073 | 4.6 | 21.0 |
| 8 9 | 19 30.81 | −19 46.4 | 2.136 | 3.083 | 8.1 | 21.3 |
| 8 19 | 19 24.71 | −20 2.4 | 2.218 | 3.092 | 11.2 | 21.5 |

**187587** 2006 $WJ_{88}$ 7 17.9 247°.76 1°.6/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.84 | −22 39.6 | 1.893 | 2.729 | 14.6 | 21.3 |
| 6 20 | 20 14.24 | −23 16.3 | 1.795 | 2.712 | 11.4 | 21.0 |
| 6 30 | 20 7.04 | −23 59.5 | 1.720 | 2.695 | 7.7 | 20.8 |
| 7 10 | 19 57.78 | −24 45.0 | 1.669 | 2.677 | 3.6 | 20.5 |
| 7 20 | 19 47.31 | −25 28.0 | 1.646 | 2.659 | 2.1 | 20.3 |
| 7 30 | 19 36.77 | −26 4.0 | 1.649 | 2.640 | 6.1 | 20.6 |
| 8 9 | 19 27.39 | −26 30.3 | 1.679 | 2.621 | 10.3 | 20.8 |
| 8 19 | 19 20.15 | −26 46.2 | 1.731 | 2.601 | 14.0 | 21.0 |

**312342** 2008 $CT_{212}$ 7 17.9 269°.17 1°.7/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.55 | −24 11.7 | 2.214 | 3.052 | 12.7 | 20.9 |
| 6 20 | 20 10.36 | −24 43.5 | 2.130 | 3.048 | 9.8 | 20.7 |
| 6 30 | 20 4.11 | −25 18.8 | 2.069 | 3.044 | 6.6 | 20.5 |
| 7 10 | 19 56.33 | −25 54.0 | 2.033 | 3.040 | 3.2 | 20.3 |
| 7 20 | 19 47.75 | −26 25.6 | 2.024 | 3.036 | 2.1 | 20.2 |
| 7 30 | 19 39.28 | −26 50.6 | 2.043 | 3.032 | 5.2 | 20.4 |
| 8 9 | 19 31.85 | −27 7.1 | 2.088 | 3.028 | 8.6 | 20.6 |
| 8 19 | 19 26.18 | −27 15.1 | 2.157 | 3.025 | 11.7 | 20.8 |

**397726** 2008 $EN_{26}$ 7 17.9 83°.72 5°.0/20.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.08 | − 4 53.2 | 2.222 | 3.011 | 14.2 | 21.5 |
| 6 20 | 20 8.21 | − 4 42.8 | 2.142 | 3.015 | 11.7 | 21.4 |
| 6 30 | 20 2.54 | − 4 46.8 | 2.083 | 3.020 | 9.0 | 21.2 |
| 7 10 | 19 55.58 | − 5 5.5 | 2.047 | 3.025 | 6.4 | 21.1 |
| 7 20 | 19 47.97 | − 5 38.1 | 2.037 | 3.030 | 5.1 | 21.0 |
| 7 30 | 19 40.50 | − 6 22.2 | 2.054 | 3.034 | 6.1 | 21.0 |
| 8 9 | 19 33.94 | − 7 14.3 | 2.098 | 3.039 | 8.5 | 21.2 |
| 8 19 | 19 28.91 | − 8 10.5 | 2.165 | 3.044 | 11.2 | 21.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **342695** 2008 $VD_{71}$ | | | 7 17.9 184.°21 | | 2.°8/18.9 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.85 | −13 40.9 | 2.254 | 3.061 | 13.5 | 21.1 |
| 6 20 | 20 12.65 | −13 11.0 | 2.167 | 3.061 | 10.7 | 20.9 |
| 6 30 | 20 5.49 | −12 48.0 | 2.102 | 3.061 | 7.6 | 20.7 |
| 7 10 | 19 56.90 | −12 31.9 | 2.063 | 3.061 | 4.4 | 20.5 |
| 7 20 | 19 47.62 | −12 22.2 | 2.051 | 3.060 | 2.9 | 20.4 |
| 7 30 | 19 38.50 | −12 18.0 | 2.068 | 3.058 | 5.1 | 20.5 |
| 8 9 | 19 30.39 | −12 18.1 | 2.112 | 3.056 | 8.3 | 20.7 |
| 8 19 | 19 23.97 | −12 21.1 | 2.181 | 3.054 | 11.4 | 20.9 |
| **382587** 2002 $CL_{229}$ | | | 7 17.9 252.°34 | | 0.°8/17.6 18 | |
| 6 10 | 20 19.10 | −22 30.1 | 2.017 | 2.848 | 14.0 | 21.8 |
| 6 20 | 20 14.20 | −22 38.3 | 1.917 | 2.831 | 11.0 | 21.6 |
| 6 30 | 20 6.87 | −22 50.2 | 1.840 | 2.813 | 7.4 | 21.3 |
| 7 10 | 19 57.67 | −23 3.1 | 1.787 | 2.795 | 3.4 | 21.0 |
| 7 20 | 19 47.39 | −23 13.8 | 1.761 | 2.776 | 1.3 | 20.8 |
| 7 30 | 19 37.12 | −23 19.8 | 1.764 | 2.757 | 5.4 | 21.1 |
| 8 9 | 19 27.98 | −23 19.7 | 1.792 | 2.737 | 9.5 | 21.3 |
| 8 19 | 19 20.85 | −23 13.6 | 1.845 | 2.717 | 13.2 | 21.5 |
| **63551** 2001 $QS_{1}$ | | | 7 17.9 248.°46 | | 0.°8/18.1 17 | |
| 6 10 | 20 19.33 | −18 26.6 | 1.467 | 2.312 | 17.6 | 20.1 |
| 6 20 | 20 15.11 | −18 28.9 | 1.382 | 2.302 | 13.9 | 19.8 |
| 6 30 | 20 7.87 | −18 40.3 | 1.316 | 2.291 | 9.5 | 19.5 |
| 7 10 | 19 58.22 | −18 58.4 | 1.273 | 2.281 | 4.5 | 19.2 |
| 7 20 | 19 47.23 | −19 19.5 | 1.254 | 2.270 | 1.3 | 19.0 |
| 7 30 | 19 36.32 | −19 40.0 | 1.261 | 2.259 | 6.5 | 19.3 |
| 8 9 | 19 26.93 | −19 57.2 | 1.293 | 2.247 | 11.5 | 19.5 |
| 8 19 | 19 20.18 | −20 9.7 | 1.345 | 2.235 | 16.0 | 19.8 |
| **523123** 2016 $SL_{53}$ | | | 7 17.9 227.°45 | | 3.°9/16.0 18 | |
| 6 10 | 20 18.68 | −31 33.3 | 2.304 | 3.135 | 12.4 | 22.2 |
| 6 20 | 20 13.63 | −32 7.7 | 2.218 | 3.128 | 9.8 | 22.0 |
| 6 30 | 20 6.32 | −32 40.3 | 2.154 | 3.121 | 7.0 | 21.9 |
| 7 10 | 19 57.34 | −33 6.8 | 2.117 | 3.113 | 4.5 | 21.7 |
| 7 20 | 19 47.51 | −33 23.1 | 2.107 | 3.105 | 4.2 | 21.7 |
| 7 30 | 19 37.82 | −33 26.6 | 2.124 | 3.097 | 6.5 | 21.8 |
| 8 9 | 19 29.28 | −33 17.0 | 2.167 | 3.089 | 9.4 | 22.0 |
| 8 19 | 19 22.67 | −32 55.9 | 2.235 | 3.080 | 12.2 | 22.1 |
| **465354** 2008 $AV_{9}$ | | | 7 17.9 36.°81 | | 2.°5/18.9 17 | |
| 6 10 | 20 13.84 | −13 11.3 | 1.130 | 1.991 | 20.7 | 20.3 |
| 6 20 | 20 11.00 | −13 31.8 | 1.081 | 2.008 | 16.3 | 20.1 |
| 6 30 | 20 5.04 | −14 10.6 | 1.050 | 2.026 | 11.2 | 19.8 |
| 7 10 | 19 56.85 | −15 4.3 | 1.039 | 2.045 | 5.8 | 19.6 |
| 7 20 | 19 47.67 | −16 7.3 | 1.050 | 2.064 | 2.5 | 19.5 |
| 7 30 | 19 39.03 | −17 12.7 | 1.085 | 2.085 | 6.8 | 19.8 |
| 8 9 | 19 32.29 | −18 14.0 | 1.143 | 2.106 | 11.7 | 20.1 |
| 8 19 | 19 28.36 | −19 7.3 | 1.221 | 2.128 | 16.0 | 20.4 |
| **137384** 1999 $TS_{154}$ | | | 7 17.9 244.°17 | | 3.°1/16.6 18 | |
| 6 10 | 20 21.41 | −27 18.4 | 1.864 | 2.701 | 14.7 | 21.1 |
| 6 20 | 20 16.35 | −27 51.5 | 1.769 | 2.685 | 11.6 | 20.9 |
| 6 30 | 20 8.51 | −28 26.8 | 1.696 | 2.669 | 8.0 | 20.6 |
| 7 10 | 19 58.48 | −28 59.2 | 1.648 | 2.652 | 4.3 | 20.4 |
| 7 20 | 19 47.19 | −29 23.4 | 1.626 | 2.634 | 3.5 | 20.3 |
| 7 30 | 19 35.91 | −29 35.8 | 1.631 | 2.616 | 6.9 | 20.5 |
| 8 9 | 19 25.95 | −29 34.9 | 1.662 | 2.597 | 10.8 | 20.7 |
| 8 19 | 19 18.33 | −29 22.0 | 1.715 | 2.577 | 14.5 | 20.8 |
| **512913** 2016 $XT_{4}$ | | | 7 17.9 203.°33 | | 2.°0/16.6 18 | |
| 6 10 | 20 13.96 | −25 13.0 | 2.738 | 3.566 | 10.8 | 21.7 |
| 6 20 | 20 9.55 | −25 57.6 | 2.651 | 3.563 | 8.3 | 21.6 |
| 6 30 | 20 3.41 | −26 45.0 | 2.588 | 3.560 | 5.6 | 21.4 |
| 7 10 | 19 55.99 | −27 31.6 | 2.551 | 3.557 | 2.9 | 21.2 |
| 7 20 | 19 47.90 | −28 14.3 | 2.544 | 3.553 | 2.3 | 21.1 |
| 7 30 | 19 39.86 | −28 50.0 | 2.565 | 3.549 | 4.7 | 21.3 |
| 8 9 | 19 32.64 | −29 17.0 | 2.614 | 3.545 | 7.5 | 21.5 |
| 8 19 | 19 26.84 | −29 35.1 | 2.687 | 3.541 | 10.1 | 21.6 |
| **25390** 1999 $UU_{10}$ | | | 7 17.9 236.°19 | | 11.°5/ 9.7 18 | |
| 6 10 | 20 30.78 | −53 47.4 | 2.317 | 3.091 | 14.1 | 19.2 |
| 6 20 | 20 24.56 | −55 28.3 | 2.250 | 3.079 | 12.8 | 19.1 |
| 6 30 | 20 14.52 | −56 56.2 | 2.203 | 3.067 | 11.8 | 19.0 |
| 7 10 | 20 1.35 | −58 1.7 | 2.178 | 3.054 | 11.5 | 18.9 |
| 7 20 | 19 46.40 | −58 37.3 | 2.176 | 3.042 | 11.9 | 18.9 |
| 7 30 | 19 31.56 | −58 39.6 | 2.196 | 3.028 | 12.9 | 19.0 |
| 8 9 | 19 18.77 | −58 10.5 | 2.236 | 3.014 | 14.4 | 19.1 |
| 8 19 | 19 9.39 | −57 15.5 | 2.295 | 3.000 | 15.9 | 19.2 |
| **324941** 2007 $XR_{49}$ | | | 7 17.9 241.°49 | | 0.°9/18.2 17 | |
| 6 10 | 20 19.25 | −18 31.9 | 1.644 | 2.481 | 16.4 | 21.7 |
| 6 20 | 20 14.70 | −18 26.9 | 1.557 | 2.472 | 12.9 | 21.5 |
| 6 30 | 20 7.39 | −18 29.2 | 1.489 | 2.463 | 8.8 | 21.2 |
| 7 10 | 19 57.96 | −18 36.7 | 1.446 | 2.453 | 4.2 | 20.9 |
| 7 20 | 19 47.35 | −18 47.0 | 1.427 | 2.443 | 1.3 | 20.7 |
| 7 30 | 19 36.85 | −18 57.2 | 1.436 | 2.432 | 6.0 | 21.0 |
| 8 9 | 19 27.73 | −19 5.3 | 1.469 | 2.421 | 10.6 | 21.2 |
| 8 19 | 19 20.98 | −19 10.5 | 1.525 | 2.410 | 14.7 | 21.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **69675** 1998 $HT_{7}$ | | | 7 17.9 142.°67 | | 11.°3/24.9 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.55 | +11 33.1 | 2.076 | 2.766 | 17.9 | 19.8 |
| 6 20 | 20 12.54 | +12 26.3 | 2.006 | 2.779 | 16.1 | 19.7 |
| 6 30 | 20 5.47 | +12 55.8 | 1.953 | 2.791 | 14.1 | 19.6 |
| 7 10 | 19 56.93 | +12 57.8 | 1.920 | 2.803 | 12.5 | 19.5 |
| 7 20 | 19 47.66 | +12 30.7 | 1.908 | 2.814 | 11.4 | 19.5 |
| 7 30 | 19 38.59 | +11 35.7 | 1.920 | 2.824 | 11.4 | 19.5 |
| 8 9 | 19 30.60 | +10 17.3 | 1.956 | 2.833 | 12.4 | 19.6 |
| 8 19 | 19 24.39 | + 8 42.3 | 2.014 | 2.841 | 14.0 | 19.7 |
| **187088** 2005 $OF_{14}$ | | | 7 17.9 279.°83 | | 4.°3/16.0 18 | |
| 6 10 | 20 18.19 | −28 13.3 | 1.625 | 2.477 | 15.8 | 20.5 |
| 6 20 | 20 14.29 | −29 6.9 | 1.537 | 2.461 | 12.5 | 20.2 |
| 6 30 | 20 7.39 | −30 4.0 | 1.470 | 2.445 | 8.7 | 20.0 |
| 7 10 | 19 58.05 | −30 58.3 | 1.426 | 2.429 | 5.2 | 19.7 |
| 7 20 | 19 47.31 | −31 42.6 | 1.408 | 2.412 | 4.7 | 19.7 |
| 7 30 | 19 36.55 | −32 11.6 | 1.415 | 2.396 | 8.1 | 19.8 |
| 8 9 | 19 27.26 | −32 23.1 | 1.446 | 2.380 | 12.2 | 20.0 |
| 8 19 | 19 20.57 | −32 18.3 | 1.498 | 2.364 | 16.0 | 20.2 |
| **42756** 1998 $SA_{63}$ | | | 7 17.9 313.°98 | | 3.°4/19.7 18 | |
| 6 10 | 20 11.40 | − 9 47.0 | 2.288 | 3.095 | 13.3 | 19.3 |
| 6 20 | 20 7.74 | − 9 42.5 | 2.199 | 3.090 | 10.7 | 19.1 |
| 6 30 | 20 2.28 | − 9 49.2 | 2.131 | 3.086 | 7.8 | 18.9 |
| 7 10 | 19 55.50 | −10 6.8 | 2.088 | 3.081 | 4.9 | 18.8 |
| 7 20 | 19 48.04 | −10 34.0 | 2.072 | 3.077 | 3.4 | 18.7 |
| 7 30 | 19 40.65 | −11 8.6 | 2.082 | 3.072 | 5.1 | 18.8 |
| 8 9 | 19 34.12 | −11 47.8 | 2.120 | 3.068 | 8.1 | 18.9 |
| 8 19 | 19 29.09 | −12 28.8 | 2.181 | 3.064 | 11.0 | 19.1 |
| **401481** 2013 $CT_{204}$ | | | 7 17.9 97.°48 | | 0.°6/17.6 14 | C |
| 6 10 | 20 14.66 | −21 16.8 | 2.319 | 3.149 | 12.4 | 22.1 |
| 6 20 | 20 10.19 | −21 40.2 | 2.246 | 3.160 | 9.6 | 21.9 |
| 6 30 | 20 3.85 | −22 8.1 | 2.196 | 3.170 | 6.3 | 21.7 |
| 7 10 | 19 56.17 | −22 37.6 | 2.172 | 3.180 | 2.8 | 21.5 |
| 7 20 | 19 47.88 | −23 5.9 | 2.175 | 3.190 | 1.1 | 21.4 |
| 7 30 | 19 39.79 | −23 30.3 | 2.207 | 3.200 | 4.5 | 21.6 |
| 8 9 | 19 32.71 | −23 49.2 | 2.265 | 3.210 | 7.8 | 21.9 |
| 8 19 | 19 27.28 | −24 2.0 | 2.349 | 3.220 | 10.7 | 22.1 |
| **122607** 2000 $RT_{43}$ | | | 7 17.9 274.°90 | | 3.°4/16.9 18 | |
| 6 10 | 20 21.12 | −29 23.7 | 1.811 | 2.652 | 14.9 | 19.2 |
| 6 20 | 20 16.15 | −29 34.7 | 1.718 | 2.636 | 11.8 | 19.0 |
| 6 30 | 20 8.36 | −29 44.3 | 1.647 | 2.619 | 8.2 | 18.7 |
| 7 10 | 19 58.40 | −29 47.7 | 1.599 | 2.603 | 4.6 | 18.5 |
| 7 20 | 19 47.26 | −29 40.8 | 1.578 | 2.586 | 3.7 | 18.4 |
| 7 30 | 19 36.25 | −29 21.3 | 1.583 | 2.569 | 6.9 | 18.6 |
| 8 9 | 19 26.69 | −28 49.4 | 1.614 | 2.552 | 10.9 | 18.8 |
| 8 19 | 19 19.56 | −28 7.6 | 1.667 | 2.535 | 14.6 | 18.9 |
| **414090** 2007 $TS_{192}$ | | | 7 17.9 156.°58 | | 0.°3/17.8 17 | |
| 6 10 | 20 20.67 | −20 35.7 | 1.623 | 2.462 | 16.4 | 21.1 |
| 6 20 | 20 15.69 | −20 46.6 | 1.549 | 2.466 | 12.8 | 20.9 |
| 6 30 | 20 7.94 | −21 4.1 | 1.496 | 2.471 | 8.6 | 20.6 |
| 7 10 | 19 58.15 | −21 24.7 | 1.466 | 2.475 | 3.9 | 20.4 |
| 7 20 | 19 47.35 | −21 44.6 | 1.462 | 2.478 | 1.1 | 20.2 |
| 7 30 | 19 36.84 | −22 0.6 | 1.485 | 2.481 | 6.0 | 20.5 |
| 8 9 | 19 27.87 | −22 10.8 | 1.534 | 2.483 | 10.4 | 20.8 |
| 8 19 | 19 21.35 | −22 14.8 | 1.604 | 2.485 | 14.3 | 21.0 |
| **206522** 2003 $UL_{145}$ | | | 7 17.9 207.°22 | | 3.°1/19.6 18 | |
| 6 10 | 20 15.07 | −10 3.1 | 2.642 | 3.434 | 12.1 | 21.4 |
| 6 20 | 20 10.31 | − 9 56.2 | 2.545 | 3.427 | 9.8 | 21.2 |
| 6 30 | 20 3.88 | − 9 58.5 | 2.470 | 3.420 | 7.1 | 21.1 |
| 7 10 | 19 56.21 | −10 9.9 | 2.421 | 3.413 | 4.5 | 20.9 |
| 7 20 | 19 47.87 | −10 29.3 | 2.400 | 3.404 | 3.1 | 20.8 |
| 7 30 | 19 39.59 | −10 55.0 | 2.408 | 3.395 | 4.7 | 20.9 |
| 8 9 | 19 32.07 | −11 24.9 | 2.444 | 3.386 | 7.5 | 21.0 |
| 8 19 | 19 25.90 | −11 56.8 | 2.505 | 3.376 | 10.2 | 21.2 |
| **153078** Giovale | | | 7 17.9 285.°75 | | 3.°8/19.5 18 | |
| 6 10 | 20 14.02 | −10 36.4 | 1.715 | 2.539 | 16.4 | 20.2 |
| 6 20 | 20 10.50 | −10 30.7 | 1.623 | 2.526 | 13.3 | 19.9 |
| 6 30 | 20 4.54 | −10 39.2 | 1.551 | 2.513 | 9.6 | 19.7 |
| 7 10 | 19 56.68 | −11 1.6 | 1.502 | 2.499 | 5.9 | 19.4 |
| 7 20 | 19 47.73 | −11 36.5 | 1.478 | 2.486 | 3.8 | 19.3 |
| 7 30 | 19 38.78 | −12 20.7 | 1.480 | 2.473 | 6.3 | 19.4 |
| 8 9 | 19 30.96 | −13 10.0 | 1.507 | 2.460 | 10.3 | 19.6 |
| 8 19 | 19 25.19 | −14 0.3 | 1.556 | 2.447 | 14.1 | 19.8 |
| **151484** 2002 $JP_{16}$ | | | 7 17.9 116.°25 | | 1.°6/16.9 18 | |
| 6 10 | 20 13.79 | −22 58.4 | 2.357 | 3.190 | 12.1 | 20.0 |
| 6 20 | 20 9.65 | −23 47.6 | 2.277 | 3.193 | 9.4 | 19.8 |
| 6 30 | 20 3.59 | −24 41.5 | 2.221 | 3.195 | 6.2 | 19.6 |
| 7 10 | 19 56.12 | −25 36.4 | 2.191 | 3.198 | 3.0 | 19.4 |
| 7 20 | 19 47.91 | −26 28.3 | 2.188 | 3.200 | 2.0 | 19.4 |
| 7 30 | 19 39.81 | −27 13.5 | 2.214 | 3.203 | 5.0 | 19.6 |
| 8 9 | 19 32.66 | −27 49.8 | 2.267 | 3.205 | 8.2 | 19.8 |
| 8 19 | 19 27.13 | −28 16.4 | 2.345 | 3.208 | 11.1 | 20.0 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **367463** 2009 $BT_{138}$ | | | 7 17.9 | 56°.88 | 0°.5/18.1 17 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 18.91 | −19 16.6 | 1.247 | 2.105 | 19.3 | 21.1 |
| 6 20 | 20 14.85 | −19 17.0 | 1.189 | 2.117 | 15.1 | 20.8 |
| 6 30 | 20 7.60 | −19 26.3 | 1.149 | 2.128 | 10.1 | 20.6 |
| 7 10 | 19 58.03 | −19 41.5 | 1.131 | 2.140 | 4.6 | 20.3 |
| 7 20 | 19 47.42 | −19 58.5 | 1.136 | 2.152 | 1.2 | 20.1 |
| 7 30 | 19 37.32 | −20 13.7 | 1.166 | 2.164 | 6.7 | 20.5 |
| 8 9 | 19 29.17 | −20 24.8 | 1.219 | 2.177 | 11.7 | 20.8 |
| 8 19 | 19 23.91 | −20 30.9 | 1.293 | 2.190 | 16.0 | 21.1 |
| **41985** 2000 $YY_{28}$ | | | 7 17.9 | 329°.26 | 4°.6/15.7 18 | |
| 6 10 | 20 6.86 | −23 33.1 | 1.018 | 1.912 | 19.8 | 17.8 |
| 6 20 | 20 6.85 | −24 53.0 | 0.934 | 1.884 | 15.7 | 17.5 |
| 6 30 | 20 3.27 | −26 30.0 | 0.868 | 1.856 | 10.8 | 17.1 |
| 7 10 | 19 56.55 | −28 16.6 | 0.822 | 1.830 | 5.9 | 16.8 |
| 7 20 | 19 47.71 | −30 1.1 | 0.796 | 1.806 | 5.4 | 16.6 |
| 7 30 | 19 38.56 | −31 30.7 | 0.791 | 1.783 | 10.5 | 16.8 |
| 8 9 | 19 31.20 | −32 36.5 | 0.805 | 1.762 | 16.2 | 17.0 |
| 8 19 | 19 27.31 | −33 15.4 | 0.836 | 1.742 | 21.5 | 17.3 |
| **218895** 2007 $DM_{68}$ | | | 7 17.9 | 351°.47 | 0°.6/18.2 18 | |
| 6 10 | 20 12.07 | −17 41.1 | 2.052 | 2.887 | 13.6 | 19.8 |
| 6 20 | 20 8.52 | −17 56.7 | 1.970 | 2.885 | 10.6 | 19.6 |
| 6 30 | 20 2.94 | −18 20.1 | 1.909 | 2.883 | 7.2 | 19.4 |
| 7 10 | 19 55.86 | −18 49.1 | 1.873 | 2.881 | 3.4 | 19.2 |
| 7 20 | 19 48.00 | −19 20.9 | 1.864 | 2.879 | 1.0 | 19.0 |
| 7 30 | 19 40.27 | −19 52.5 | 1.881 | 2.878 | 4.8 | 19.3 |
| 8 9 | 19 33.57 | −20 21.3 | 1.925 | 2.877 | 8.5 | 19.5 |
| 8 19 | 19 28.60 | −20 45.6 | 1.992 | 2.877 | 11.8 | 19.7 |
| **388959** 2008 $TL_{83}$ | | | 7 17.9 | 226°.46 | 4°.8/15.5 18 | |
| 6 10 | 20 21.68 | −34 4.8 | 2.391 | 3.215 | 12.3 | 22.1 |
| 6 20 | 20 16.03 | −34 48.3 | 2.299 | 3.203 | 9.9 | 21.9 |
| 6 30 | 20 8.01 | −35 29.1 | 2.231 | 3.190 | 7.3 | 21.7 |
| 7 10 | 19 58.18 | −36 2.0 | 2.188 | 3.176 | 5.2 | 21.5 |
| 7 20 | 19 47.38 | −36 22.3 | 2.173 | 3.162 | 5.0 | 21.5 |
| 7 30 | 19 36.66 | −36 27.3 | 2.185 | 3.148 | 7.1 | 21.6 |
| 8 9 | 19 27.10 | −36 16.6 | 2.224 | 3.132 | 9.8 | 21.8 |
| 8 19 | 19 19.53 | −35 52.3 | 2.287 | 3.117 | 12.5 | 21.9 |
| **234347** 2001 $FQ_{126}$ | | | 7 17.9 | 90°.31 | 2°.9/19.5 17 | |
| 6 10 | 20 15.23 | −10 41.7 | 1.956 | 2.769 | 15.0 | 20.7 |
| 6 20 | 20 10.83 | −10 55.7 | 1.888 | 2.785 | 12.0 | 20.5 |
| 6 30 | 20 4.38 | −11 22.8 | 1.842 | 2.801 | 8.5 | 20.3 |
| 7 10 | 19 56.46 | −12 1.4 | 1.819 | 2.817 | 4.9 | 20.2 |
| 7 20 | 19 47.87 | −12 48.7 | 1.824 | 2.833 | 2.9 | 20.1 |
| 7 30 | 19 39.52 | −13 41.0 | 1.855 | 2.849 | 5.2 | 20.2 |
| 8 9 | 19 32.33 | −14 34.4 | 1.913 | 2.864 | 8.6 | 20.5 |
| 8 19 | 19 26.96 | −15 25.7 | 1.996 | 2.879 | 11.8 | 20.7 |
| **478572** 2012 $TT_{73}$ | | | 7 17.9 | 237°.20 | 2°.5/16.9 17 | |
| 6 10 | 20 18.48 | −26 44.3 | 2.023 | 2.860 | 13.7 | 22.0 |
| 6 20 | 20 13.69 | −27 8.5 | 1.936 | 2.853 | 10.7 | 21.8 |
| 6 30 | 20 6.51 | −27 34.1 | 1.871 | 2.845 | 7.3 | 21.6 |
| 7 10 | 19 57.51 | −27 57.1 | 1.832 | 2.837 | 3.8 | 21.3 |
| 7 20 | 19 47.56 | −28 13.5 | 1.819 | 2.829 | 2.8 | 21.3 |
| 7 30 | 19 37.76 | −28 20.5 | 1.834 | 2.821 | 6.0 | 21.4 |
| 8 9 | 19 29.18 | −28 17.2 | 1.874 | 2.812 | 9.6 | 21.6 |
| 8 19 | 19 22.65 | −28 4.6 | 1.938 | 2.803 | 12.9 | 21.8 |
| **116110** 2003 $WV_{134}$ | | | 7 17.9 | 203°.64 | 2°.0/16.9 18 | |
| 6 10 | 20 19.35 | −23 22.2 | 1.744 | 2.585 | 15.4 | 20.3 |
| 6 20 | 20 14.72 | −24 4.8 | 1.663 | 2.582 | 12.0 | 20.1 |
| 6 30 | 20 7.38 | −24 53.5 | 1.603 | 2.579 | 8.0 | 19.8 |
| 7 10 | 19 57.97 | −25 43.2 | 1.567 | 2.575 | 3.9 | 19.6 |
| 7 20 | 19 47.44 | −26 28.6 | 1.558 | 2.571 | 2.5 | 19.5 |
| 7 30 | 19 37.03 | −27 5.0 | 1.576 | 2.566 | 6.4 | 19.7 |
| 8 9 | 19 28.00 | −27 29.9 | 1.620 | 2.561 | 10.6 | 20.0 |
| 8 19 | 19 21.30 | −27 43.2 | 1.685 | 2.556 | 14.3 | 20.2 |
| **58001** 2002 $TX_{126}$ | | | 7 17.9 | 15°.81 | 0°.7/17.6 18 | |
| 6 10 | 20 14.71 | −20 23.8 | 1.865 | 2.706 | 14.5 | 19.2 |
| 6 20 | 20 10.82 | −20 57.5 | 1.787 | 2.707 | 11.3 | 19.0 |
| 6 30 | 20 4.60 | −21 38.5 | 1.731 | 2.707 | 7.5 | 18.8 |
| 7 10 | 19 56.66 | −22 23.2 | 1.699 | 2.708 | 3.4 | 18.5 |
| 7 20 | 19 47.81 | −23 7.4 | 1.694 | 2.709 | 1.3 | 18.4 |
| 7 30 | 19 39.13 | −23 47.1 | 1.716 | 2.710 | 5.4 | 18.7 |
| 8 9 | 19 31.65 | −24 19.5 | 1.763 | 2.711 | 9.4 | 18.9 |
| 8 19 | 19 26.17 | −24 43.3 | 1.833 | 2.712 | 12.9 | 19.1 |
| **149043** 2002 $AT_{208}$ | | | 7 17.9 | 124°.70 | 3°.6/15.7 18 | |
| 6 10 | 20 15.79 | −29 20.9 | 2.421 | 3.255 | 11.8 | 20.2 |
| 6 20 | 20 11.24 | −30 20.0 | 2.348 | 3.261 | 9.2 | 20.0 |
| 6 30 | 20 4.67 | −31 19.6 | 2.298 | 3.267 | 6.5 | 19.9 |
| 7 10 | 19 56.63 | −32 15.0 | 2.275 | 3.273 | 4.1 | 19.7 |
| 7 20 | 19 47.84 | −33 1.9 | 2.280 | 3.279 | 3.9 | 19.7 |
| 7 30 | 19 39.20 | −33 36.9 | 2.312 | 3.284 | 6.1 | 19.9 |
| 8 9 | 19 31.58 | −33 58.8 | 2.371 | 3.290 | 8.8 | 20.1 |
| 8 19 | 19 25.68 | −34 8.0 | 2.453 | 3.295 | 11.3 | 20.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **231275** 2006 $AP_{71}$ | | | 7 17.9 | 247°.69 | 0°.1/17.9 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 18.17 | −20 35.9 | 1.908 | 2.742 | 14.6 | 21.4 |
| 6 20 | 20 13.51 | −20 35.9 | 1.817 | 2.732 | 11.4 | 21.2 |
| 6 30 | 20 6.43 | −20 40.7 | 1.747 | 2.721 | 7.7 | 20.9 |
| 7 10 | 19 57.51 | −20 48.2 | 1.702 | 2.710 | 3.5 | 20.7 |
| 7 20 | 19 47.60 | −20 55.6 | 1.684 | 2.699 | 0.9 | 20.4 |
| 7 30 | 19 37.78 | −21 0.7 | 1.693 | 2.688 | 5.4 | 20.7 |
| 8 9 | 19 29.16 | −21 2.1 | 1.728 | 2.677 | 9.5 | 21.0 |
| 8 19 | 19 22.60 | −20 59.4 | 1.786 | 2.665 | 13.2 | 21.2 |
| **444084** 2004 $SC_{24}$ | | | 7 17.9 | 350°.89 | 12°.1/12.9 15 | |
| 6 10 | 20 7.49 | −41 56.3 | 1.180 | 2.059 | 18.8 | 19.7 |
| 6 20 | 20 7.42 | −43 22.0 | 1.114 | 2.039 | 16.1 | 19.5 |
| 6 30 | 20 3.52 | −44 37.2 | 1.066 | 2.022 | 13.6 | 19.3 |
| 7 10 | 19 56.53 | −45 30.5 | 1.037 | 2.007 | 12.2 | 19.1 |
| 7 20 | 19 47.85 | −45 51.8 | 1.028 | 1.995 | 12.6 | 19.1 |
| 7 30 | 19 39.49 | −45 35.6 | 1.038 | 1.985 | 14.7 | 19.2 |
| 8 9 | 19 33.40 | −44 43.7 | 1.066 | 1.978 | 17.6 | 19.3 |
| 8 19 | 19 30.84 | −43 22.5 | 1.111 | 1.973 | 20.6 | 19.5 |
| **161772** 2006 $TG_{89}$ | | | 7 17.9 | 306°.41 | 4°.8/19.2 18 | R |
| 6 10 | 20 15.25 | −11 54.3 | 1.422 | 2.260 | 18.4 | 20.1 |
| 6 20 | 20 11.94 | −11 14.7 | 1.336 | 2.247 | 14.9 | 19.8 |
| 6 30 | 20 5.77 | −10 47.1 | 1.269 | 2.234 | 10.9 | 19.5 |
| 7 10 | 19 57.34 | −10 32.8 | 1.224 | 2.221 | 6.8 | 19.3 |
| 7 20 | 19 47.64 | −10 31.8 | 1.201 | 2.209 | 4.8 | 19.1 |
| 7 30 | 19 37.99 | −10 42.7 | 1.204 | 2.196 | 7.5 | 19.3 |
| 8 9 | 19 29.74 | −11 2.6 | 1.229 | 2.184 | 11.9 | 19.5 |
| 8 19 | 19 23.97 | −11 28.1 | 1.275 | 2.173 | 16.1 | 19.7 |
| **256789** 2008 $CY_{45}$ | | | 7 17.9 | 153°.59 | 2°.5/18.9 17 | |
| 6 10 | 20 18.93 | −13 25.4 | 1.912 | 2.727 | 15.2 | 21.3 |
| 6 20 | 20 13.85 | −13 25.3 | 1.835 | 2.735 | 12.1 | 21.1 |
| 6 30 | 20 6.49 | −13 35.7 | 1.779 | 2.742 | 8.4 | 20.9 |
| 7 10 | 19 57.48 | −13 55.3 | 1.748 | 2.749 | 4.6 | 20.7 |
| 7 20 | 19 47.65 | −14 21.9 | 1.743 | 2.755 | 2.5 | 20.6 |
| 7 30 | 19 38.04 | −14 52.5 | 1.766 | 2.760 | 5.4 | 20.8 |
| 8 9 | 19 29.65 | −15 24.3 | 1.816 | 2.765 | 9.1 | 21.0 |
| 8 19 | 19 23.24 | −15 54.9 | 1.890 | 2.769 | 12.6 | 21.2 |
| **254144** 2004 $PF_{66}$ | | | 7 17.9 | 263°.82 | 4°.0/20.5 18 | |
| 6 10 | 20 11.64 | − 6 5.5 | 2.486 | 3.273 | 12.9 | 20.6 |
| 6 20 | 20 7.86 | − 6 16.4 | 2.385 | 3.261 | 10.6 | 20.4 |
| 6 30 | 20 2.38 | − 6 40.9 | 2.306 | 3.248 | 8.0 | 20.2 |
| 7 10 | 19 55.62 | − 7 18.9 | 2.252 | 3.236 | 5.4 | 20.1 |
| 7 20 | 19 48.13 | − 8 9.0 | 2.224 | 3.223 | 4.0 | 19.9 |
| 7 30 | 19 40.64 | − 9 8.4 | 2.224 | 3.210 | 5.2 | 20.0 |
| 8 9 | 19 33.88 | −10 13.7 | 2.252 | 3.197 | 7.9 | 20.1 |
| 8 19 | 19 28.47 | −11 21.0 | 2.305 | 3.184 | 10.6 | 20.3 |
| **202482** 2006 $BG_{11}$ | | | 7 17.9 | 288°.93 | 0°.7/17.6 18 | |
| 6 10 | 20 15.16 | −19 38.6 | 1.738 | 2.581 | 15.3 | 20.1 |
| 6 20 | 20 11.44 | −20 18.3 | 1.655 | 2.575 | 12.0 | 19.9 |
| 6 30 | 20 5.19 | −21 7.2 | 1.593 | 2.570 | 8.0 | 19.6 |
| 7 10 | 19 57.01 | −22 1.6 | 1.556 | 2.565 | 3.6 | 19.3 |
| 7 20 | 19 47.76 | −22 56.6 | 1.544 | 2.559 | 1.3 | 19.2 |
| 7 30 | 19 38.60 | −23 47.1 | 1.559 | 2.554 | 5.8 | 19.5 |
| 8 9 | 19 30.68 | −24 29.5 | 1.600 | 2.549 | 10.1 | 19.7 |
| 8 19 | 19 24.92 | −25 2.1 | 1.663 | 2.544 | 13.9 | 19.9 |
| **45811** 2000 $QN_{38}$ | | | 7 17.9 | 177°.79 | 0°.7/18.2 18 | |
| 6 10 | 20 16.91 | −17 45.7 | 1.846 | 2.679 | 15.0 | 19.7 |
| 6 20 | 20 12.50 | −17 58.3 | 1.766 | 2.679 | 11.8 | 19.5 |
| 6 30 | 20 5.72 | −18 19.1 | 1.707 | 2.680 | 7.9 | 19.3 |
| 7 10 | 19 57.18 | −18 45.7 | 1.673 | 2.680 | 3.7 | 19.0 |
| 7 20 | 19 47.74 | −19 15.0 | 1.665 | 2.680 | 1.1 | 18.8 |
| 7 30 | 19 38.47 | −19 43.8 | 1.684 | 2.680 | 5.3 | 19.1 |
| 8 9 | 19 30.44 | −20 9.3 | 1.729 | 2.680 | 9.4 | 19.4 |
| 8 19 | 19 24.44 | −20 30.2 | 1.797 | 2.679 | 13.0 | 19.6 |
| **372829** 2010 $UQ_{57}$ | | | 7 17.9 | 274°.88 | 3°.9/16.4 18 | |
| 6 10 | 20 19.12 | −27 31.8 | 1.530 | 2.383 | 16.6 | 21.1 |
| 6 20 | 20 15.13 | −28 15.1 | 1.446 | 2.371 | 13.0 | 20.8 |
| 6 30 | 20 8.01 | −29 1.7 | 1.383 | 2.360 | 9.0 | 20.6 |
| 7 10 | 19 58.40 | −29 45.3 | 1.343 | 2.348 | 5.1 | 20.3 |
| 7 20 | 19 47.39 | −30 19.2 | 1.328 | 2.336 | 4.3 | 20.2 |
| 7 30 | 19 36.47 | −30 38.6 | 1.338 | 2.324 | 7.9 | 20.4 |
| 8 9 | 19 27.15 | −30 41.7 | 1.372 | 2.312 | 12.3 | 20.6 |
| 8 19 | 19 20.56 | −30 30.1 | 1.427 | 2.300 | 16.3 | 20.9 |
| **210014** 2006 $KO_{10}$ | | | 7 17.9 | 49°.64 | 4°.7/19.4 18 | |
| 6 10 | 20 17.00 | −11 25.5 | 1.308 | 2.148 | 19.6 | 19.8 |
| 6 20 | 20 13.23 | −10 53.5 | 1.243 | 2.154 | 15.8 | 19.6 |
| 6 30 | 20 6.51 | −10 36.5 | 1.196 | 2.161 | 11.4 | 19.4 |
| 7 10 | 19 57.60 | −10 35.0 | 1.170 | 2.168 | 7.0 | 19.1 |
| 7 20 | 19 47.64 | −10 47.8 | 1.167 | 2.175 | 4.7 | 19.0 |
| 7 30 | 19 38.03 | −11 12.0 | 1.189 | 2.182 | 7.4 | 19.2 |
| 8 9 | 19 30.11 | −11 43.5 | 1.233 | 2.190 | 11.7 | 19.5 |
| 8 19 | 19 24.82 | −12 18.1 | 1.299 | 2.198 | 15.8 | 19.7 |

**419776** 2010 $VF_{161}$ 7 17.9 269°.94 3°.3/18.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 17.24 | −13 46.1 | 1.553 | 2.386 | 17.3 | 21.3 |
| 6 20 | 20 13.26 | −13 22.7 | 1.466 | 2.376 | 13.9 | 21.0 |
| 6 30 | 20 6.53 | −13 10.0 | 1.399 | 2.366 | 9.9 | 20.7 |
| 7 10 | 19 57.66 | −13 7.9 | 1.355 | 2.356 | 5.6 | 20.5 |
| 7 20 | 19 47.61 | −13 15.4 | 1.335 | 2.346 | 3.4 | 20.3 |
| 7 30 | 19 37.63 | −13 30.2 | 1.340 | 2.335 | 6.6 | 20.5 |
| 8 9 | 19 29.01 | −13 49.5 | 1.370 | 2.325 | 11.0 | 20.7 |
| 8 19 | 19 22.75 | −14 10.8 | 1.422 | 2.314 | 15.2 | 20.9 |

**282589** 2005 $EP_{203}$ 7 17.9 2°.71 1°.6/18.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.77 | −13 53.1 | 1.658 | 2.496 | 16.2 | 20.3 |
| 6 20 | 20 9.55 | −14 25.4 | 1.581 | 2.496 | 12.8 | 20.0 |
| 6 30 | 20 3.90 | −15 12.0 | 1.524 | 2.496 | 8.8 | 19.8 |
| 7 10 | 19 56.42 | −16 10.2 | 1.490 | 2.496 | 4.4 | 19.5 |
| 7 20 | 19 47.96 | −17 15.7 | 1.482 | 2.497 | 1.7 | 19.4 |
| 7 30 | 19 39.63 | −18 23.2 | 1.500 | 2.498 | 5.5 | 19.6 |
| 8 9 | 19 32.54 | −19 27.5 | 1.543 | 2.499 | 9.8 | 19.9 |
| 8 19 | 19 27.54 | −20 25.0 | 1.609 | 2.501 | 13.7 | 20.1 |

**261087** 2005 $SN_{240}$ 7 17.9 56°.78 4°.0/16.3 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 18.10 | −31 39.4 | 2.068 | 2.906 | 13.4 | 20.2 |
| 6 20 | 20 13.26 | −32 7.6 | 2.000 | 2.915 | 10.5 | 20.0 |
| 6 30 | 20 6.09 | −32 33.2 | 1.956 | 2.924 | 7.4 | 19.8 |
| 7 10 | 19 57.29 | −32 51.5 | 1.936 | 2.933 | 4.7 | 19.7 |
| 7 20 | 19 47.76 | −32 58.9 | 1.942 | 2.942 | 4.3 | 19.7 |
| 7 30 | 19 38.57 | −32 53.4 | 1.975 | 2.952 | 6.6 | 19.8 |
| 8 9 | 19 30.75 | −32 35.3 | 2.034 | 2.961 | 9.6 | 20.0 |
| 8 19 | 19 25.00 | −32 6.5 | 2.116 | 2.971 | 12.4 | 20.2 |

**137938** 2000 $BK_{35}$ 7 17.9 255°.00 2°.2/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.99 | −24 7.9 | 1.761 | 2.603 | 15.2 | 20.1 |
| 6 20 | 20 14.61 | −24 45.5 | 1.668 | 2.588 | 11.9 | 19.9 |
| 6 30 | 20 7.46 | −25 28.8 | 1.596 | 2.572 | 8.1 | 19.6 |
| 7 10 | 19 58.12 | −26 13.0 | 1.548 | 2.556 | 4.0 | 19.4 |
| 7 20 | 19 47.49 | −26 52.8 | 1.527 | 2.539 | 2.7 | 19.2 |
| 7 30 | 19 36.82 | −27 23.5 | 1.532 | 2.522 | 6.6 | 19.4 |
| 8 9 | 19 27.44 | −27 42.6 | 1.562 | 2.504 | 10.9 | 19.6 |
| 8 19 | 19 20.38 | −27 50.1 | 1.615 | 2.486 | 14.8 | 19.8 |

**75513** 1999 $XY_{202}$ 7 17.9 111°.08 4°.4/16.2 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 20.34 | −31 57.6 | 2.002 | 2.839 | 13.9 | 19.6 |
| 6 20 | 20 15.11 | −32 32.3 | 1.934 | 2.847 | 10.9 | 19.4 |
| 6 30 | 20 7.39 | −33 4.3 | 1.888 | 2.854 | 7.8 | 19.2 |
| 7 10 | 19 57.90 | −33 28.5 | 1.866 | 2.862 | 5.0 | 19.1 |
| 7 20 | 19 47.59 | −33 40.6 | 1.871 | 2.870 | 4.6 | 19.1 |
| 7 30 | 19 37.64 | −33 38.3 | 1.903 | 2.877 | 7.0 | 19.2 |
| 8 9 | 19 29.13 | −33 21.9 | 1.961 | 2.885 | 10.1 | 19.4 |
| 8 19 | 19 22.84 | −32 53.8 | 2.041 | 2.892 | 13.0 | 19.6 |

**137812** 1999 $YU_{14}$ 7 17.9 234°.92 0°.5/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.66 | −21 39.6 | 1.770 | 2.607 | 15.4 | 20.9 |
| 6 20 | 20 14.90 | −21 46.9 | 1.682 | 2.599 | 12.0 | 20.6 |
| 6 30 | 20 7.50 | −21 59.2 | 1.615 | 2.590 | 8.1 | 20.4 |
| 7 10 | 19 58.06 | −22 13.4 | 1.572 | 2.580 | 3.7 | 20.1 |
| 7 20 | 19 47.53 | −22 26.2 | 1.555 | 2.570 | 1.2 | 19.9 |
| 7 30 | 19 37.11 | −22 34.7 | 1.565 | 2.560 | 5.8 | 20.2 |
| 8 9 | 19 28.02 | −22 37.4 | 1.601 | 2.550 | 10.2 | 20.4 |
| 8 19 | 19 21.20 | −22 34.2 | 1.660 | 2.539 | 14.0 | 20.6 |

**264936** 2002 $VO_{41}$ 7 17.9 191°.91 0°.9/17.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.51 | −21 59.4 | 1.971 | 2.802 | 14.3 | 21.6 |
| 6 20 | 20 14.46 | −22 21.3 | 1.887 | 2.801 | 11.1 | 21.4 |
| 6 30 | 20 7.01 | −22 48.2 | 1.825 | 2.799 | 7.4 | 21.2 |
| 7 10 | 19 57.78 | −23 16.7 | 1.789 | 2.797 | 3.4 | 20.9 |
| 7 20 | 19 47.61 | −23 43.0 | 1.779 | 2.794 | 1.4 | 20.8 |
| 7 30 | 19 37.60 | −24 4.0 | 1.798 | 2.791 | 5.4 | 21.0 |
| 8 9 | 19 28.81 | −24 17.8 | 1.842 | 2.787 | 9.4 | 21.3 |
| 8 19 | 19 22.08 | −24 24.3 | 1.911 | 2.782 | 12.8 | 21.5 |

**439716** 2014 $MJ_{42}$ 7 17.9 285°.97 2°.0/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.27 | −11 46.6 | 2.227 | 3.041 | 13.4 | 20.9 |
| 6 20 | 20 8.64 | −12 20.4 | 2.127 | 3.027 | 10.7 | 20.7 |
| 6 30 | 20 3.07 | −13 7.2 | 2.049 | 3.012 | 7.5 | 20.5 |
| 7 10 | 19 56.01 | −14 5.4 | 1.996 | 2.998 | 4.1 | 20.3 |
| 7 20 | 19 48.07 | −15 12.0 | 1.971 | 2.983 | 2.0 | 20.1 |
| 7 30 | 19 40.10 | −16 22.9 | 1.973 | 2.969 | 4.7 | 20.2 |
| 8 9 | 19 32.94 | −17 33.8 | 2.003 | 2.954 | 8.3 | 20.4 |
| 8 19 | 19 27.34 | −18 41.0 | 2.058 | 2.940 | 11.6 | 20.6 |

**369045** 2008 $CB_{29}$ 7 17.9 334°.12 0°.1/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.17 | −19 30.5 | 1.871 | 2.713 | 14.5 | 20.8 |
| 6 20 | 20 9.67 | −19 52.3 | 1.788 | 2.707 | 11.3 | 20.6 |
| 6 30 | 20 3.89 | −20 21.6 | 1.726 | 2.702 | 7.6 | 20.4 |
| 7 10 | 19 56.39 | −20 55.6 | 1.688 | 2.696 | 3.4 | 20.1 |
| 7 20 | 19 47.98 | −21 30.8 | 1.676 | 2.691 | 0.9 | 19.9 |
| 7 30 | 19 39.69 | −22 3.6 | 1.690 | 2.687 | 5.3 | 20.2 |
| 8 9 | 19 32.54 | −22 31.3 | 1.731 | 2.682 | 9.3 | 20.5 |
| 8 19 | 19 27.32 | −22 52.4 | 1.794 | 2.678 | 12.9 | 20.7 |

**444676** 2007 $DQ_{45}$ 7 17.9 121°.25 0°.5/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.24 | −22 36.5 | 2.292 | 3.122 | 12.6 | 21.1 |
| 6 20 | 20 11.50 | −22 34.8 | 2.210 | 3.123 | 9.7 | 20.9 |
| 6 30 | 20 4.79 | −22 35.5 | 2.152 | 3.125 | 6.5 | 20.7 |
| 7 10 | 19 56.69 | −22 36.6 | 2.119 | 3.127 | 2.9 | 20.5 |
| 7 20 | 19 47.93 | −22 36.0 | 2.114 | 3.129 | 1.0 | 20.4 |
| 7 30 | 19 39.38 | −22 32.1 | 2.136 | 3.130 | 4.6 | 20.6 |
| 8 9 | 19 31.88 | −22 24.4 | 2.186 | 3.132 | 8.0 | 20.8 |
| 8 19 | 19 26.08 | −22 12.8 | 2.261 | 3.134 | 11.0 | 21.0 |

**166064** 2002 $CF_{62}$ 7 17.9 258°.58 3°.2/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.24 | −24 9.5 | 1.565 | 2.414 | 16.5 | 20.3 |
| 6 20 | 20 15.26 | −25 12.7 | 1.475 | 2.398 | 12.9 | 20.0 |
| 6 30 | 20 8.19 | −26 24.9 | 1.405 | 2.382 | 8.8 | 19.7 |
| 7 10 | 19 58.56 | −27 39.7 | 1.358 | 2.365 | 4.6 | 19.4 |
| 7 20 | 19 47.37 | −28 49.3 | 1.337 | 2.347 | 3.7 | 19.3 |
| 7 30 | 19 36.05 | −29 46.7 | 1.343 | 2.329 | 7.7 | 19.5 |
| 8 9 | 19 26.13 | −30 27.8 | 1.372 | 2.311 | 12.3 | 19.7 |
| 8 19 | 19 18.83 | −30 52.0 | 1.423 | 2.293 | 16.5 | 20.0 |

**261068** 2005 $SA_{201}$ 7 17.9 109°.80 3°.6/16.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 24.02 | −30 7.7 | 2.212 | 3.036 | 13.2 | 21.8 |
| 6 20 | 20 17.50 | −30 51.9 | 2.157 | 3.064 | 10.2 | 21.7 |
| 6 30 | 20 8.73 | −31 34.3 | 2.125 | 3.090 | 7.1 | 21.5 |
| 7 10 | 19 58.43 | −32 10.0 | 2.119 | 3.117 | 4.3 | 21.4 |
| 7 20 | 19 47.51 | −32 34.8 | 2.141 | 3.142 | 3.9 | 21.4 |
| 7 30 | 19 37.03 | −32 46.4 | 2.192 | 3.166 | 6.2 | 21.6 |
| 8 9 | 19 27.96 | −32 45.1 | 2.270 | 3.190 | 9.1 | 21.8 |
| 8 19 | 19 20.98 | −32 32.6 | 2.371 | 3.212 | 11.7 | 22.0 |

**344777** 2003 $WU_{170}$ 7 17.9 259°.87 3°.2/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.33 | −10 5.2 | 2.164 | 2.970 | 14.0 | 21.5 |
| 6 20 | 20 10.30 | −10 12.6 | 2.061 | 2.952 | 11.3 | 21.3 |
| 6 30 | 20 4.22 | −10 32.7 | 1.978 | 2.934 | 8.2 | 21.1 |
| 7 10 | 19 56.55 | −11 5.0 | 1.921 | 2.916 | 5.0 | 20.9 |
| 7 20 | 19 47.95 | −11 47.7 | 1.890 | 2.897 | 3.2 | 20.7 |
| 7 30 | 19 39.29 | −12 37.9 | 1.886 | 2.878 | 5.3 | 20.8 |
| 8 9 | 19 31.47 | −13 31.9 | 1.910 | 2.859 | 8.8 | 21.0 |
| 8 19 | 19 25.28 | −14 26.4 | 1.958 | 2.839 | 12.1 | 21.2 |

**181518** 2006 $UL_{86}$ 7 17.9 103°.71 2°.4/16.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.21 | −27 11.9 | 2.509 | 3.337 | 11.6 | 20.9 |
| 6 20 | 20 12.06 | −27 47.1 | 2.445 | 3.356 | 9.0 | 20.8 |
| 6 30 | 20 5.06 | −28 22.6 | 2.404 | 3.375 | 6.1 | 20.6 |
| 7 10 | 19 56.78 | −28 55.0 | 2.390 | 3.394 | 3.3 | 20.5 |
| 7 20 | 19 47.94 | −29 21.0 | 2.405 | 3.412 | 2.7 | 20.5 |
| 7 30 | 19 39.37 | −29 38.4 | 2.447 | 3.430 | 5.1 | 20.6 |
| 8 9 | 19 31.86 | −29 46.4 | 2.517 | 3.447 | 7.8 | 20.8 |
| 8 19 | 19 26.00 | −29 45.7 | 2.612 | 3.465 | 10.4 | 21.0 |

**345862** 2007 $PU_{46}$ 7 17.9 237°.10 0°.6/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.70 | −21 24.4 | 2.172 | 3.002 | 13.1 | 22.1 |
| 6 20 | 20 12.13 | −21 40.3 | 2.079 | 2.992 | 10.3 | 21.9 |
| 6 30 | 20 5.41 | −22 1.0 | 2.009 | 2.983 | 6.9 | 21.7 |
| 7 10 | 19 57.06 | −22 23.6 | 1.964 | 2.973 | 3.1 | 21.4 |
| 7 20 | 19 47.84 | −22 45.4 | 1.947 | 2.962 | 1.1 | 21.3 |
| 7 30 | 19 38.70 | −23 3.5 | 1.958 | 2.952 | 4.9 | 21.5 |
| 8 9 | 19 30.57 | −23 16.2 | 1.995 | 2.941 | 8.7 | 21.7 |
| 8 19 | 19 24.24 | −23 23.0 | 2.057 | 2.929 | 12.0 | 21.9 |

**368277** 2002 $JX_{9}$ 7 17.9 7°.81 10°.7/10.0 17 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.41 | −28 34.9 | 1.029 | 1.916 | 20.3 | 19.1 |
| 6 20 | 20 13.13 | −32 33.5 | 0.975 | 1.916 | 16.2 | 18.8 |
| 6 30 | 20 7.75 | −36 46.9 | 0.944 | 1.918 | 12.4 | 18.6 |
| 7 10 | 19 58.73 | −40 52.1 | 0.936 | 1.921 | 10.7 | 18.5 |
| 7 20 | 19 47.32 | −44 24.6 | 0.952 | 1.926 | 12.3 | 18.7 |
| 7 30 | 19 35.72 | −47 6.9 | 0.991 | 1.932 | 15.8 | 18.9 |
| 8 9 | 19 26.36 | −48 54.3 | 1.049 | 1.939 | 19.6 | 19.1 |
| 8 19 | 19 21.07 | −49 52.4 | 1.123 | 1.948 | 22.9 | 19.4 |

**19103** 1981 $ER_{11}$ 7 17.9 146°.92 0°.1/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.75 | −19 49.0 | 1.912 | 2.745 | 14.6 | 19.9 |
| 6 20 | 20 13.05 | −19 56.3 | 1.835 | 2.749 | 11.4 | 19.7 |
| 6 30 | 20 6.04 | −20 9.5 | 1.779 | 2.752 | 7.6 | 19.5 |
| 7 10 | 19 57.35 | −20 26.0 | 1.748 | 2.756 | 3.5 | 19.2 |
| 7 20 | 19 47.82 | −20 43.0 | 1.744 | 2.759 | 0.9 | 19.1 |
| 7 30 | 19 38.52 | −20 58.0 | 1.767 | 2.762 | 5.1 | 19.4 |
| 8 9 | 19 30.47 | −21 9.0 | 1.816 | 2.765 | 9.1 | 19.6 |
| 8 19 | 19 24.43 | −21 15.5 | 1.889 | 2.768 | 12.6 | 19.8 |

**43847** 1993 $QQ_{5}$ 7 17.9 317°.64 3°.1/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.99 | −12 48.8 | 1.717 | 2.550 | 16.0 | 18.9 |
| 6 20 | 20 9.71 | −12 40.3 | 1.629 | 2.538 | 12.8 | 18.6 |
| 6 30 | 20 4.04 | −12 43.6 | 1.561 | 2.527 | 9.1 | 18.4 |
| 7 10 | 19 56.54 | −12 58.5 | 1.516 | 2.517 | 5.2 | 18.1 |
| 7 20 | 19 48.02 | −13 23.1 | 1.496 | 2.506 | 3.1 | 18.0 |
| 7 30 | 19 39.55 | −13 54.6 | 1.501 | 2.496 | 5.9 | 18.1 |
| 8 9 | 19 32.24 | −14 29.7 | 1.531 | 2.487 | 10.0 | 18.3 |
| 8 19 | 19 26.95 | −15 5.1 | 1.584 | 2.478 | 13.8 | 18.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **188499** 2004 $PT_{90}$ | | | 7 17.9 308.°10 | | 8.°8/22.9 18 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 10.21 | + 4 42.4 | 2.190 | 2.934 | 15.7 | 19.9 |
| 6 20 | 20 7.03 | + 5 16.6 | 2.093 | 2.918 | 13.8 | 19.7 |
| 6 30 | 20 1.99 | + 5 31.7 | 2.014 | 2.903 | 11.7 | 19.5 |
| 7 10 | 19 55.54 | + 5 24.8 | 1.957 | 2.887 | 9.9 | 19.4 |
| 7 20 | 19 48.29 | + 4 54.8 | 1.922 | 2.872 | 8.8 | 19.3 |
| 7 30 | 19 41.01 | + 4 2.5 | 1.913 | 2.857 | 9.1 | 19.3 |
| 8 9 | 19 34.53 | + 2 51.6 | 1.928 | 2.843 | 10.7 | 19.4 |
| 8 19 | 19 29.55 | + 1 27.3 | 1.965 | 2.828 | 12.9 | 19.5 |
| **218754** 2005 $VV_{30}$ | | | 7 17.9 33.°31 | | 8.°0/21.1 18 | |
| 6 10 | 20 13.38 | − 1 27.6 | 1.944 | 2.724 | 16.2 | 19.1 |
| 6 20 | 20 9.43 | − 0 18.8 | 1.876 | 2.734 | 13.8 | 18.9 |
| 6 30 | 20 3.49 | + 0 34.2 | 1.828 | 2.745 | 11.2 | 18.8 |
| 7 10 | 19 56.15 | + 1 8.6 | 1.802 | 2.756 | 9.0 | 18.7 |
| 7 20 | 19 48.15 | + 1 22.9 | 1.800 | 2.768 | 8.0 | 18.6 |
| 7 30 | 19 40.38 | + 1 17.7 | 1.823 | 2.780 | 8.6 | 18.7 |
| 8 9 | 19 33.70 | + 0 55.7 | 1.870 | 2.793 | 10.6 | 18.9 |
| 8 19 | 19 28.75 | + 0 21.1 | 1.940 | 2.805 | 12.9 | 19.0 |
| **103260** 2000 $AF_{22}$ | | | 7 17.9 303.°93 | | 3.°1/16.1 18 | |
| 6 10 | 20 13.82 | −26 46.5 | 2.206 | 3.047 | 12.6 | 19.4 |
| 6 20 | 20 10.04 | −27 42.5 | 2.118 | 3.037 | 9.8 | 19.2 |
| 6 30 | 20 4.11 | −28 41.9 | 2.054 | 3.027 | 6.7 | 19.0 |
| 7 10 | 19 56.53 | −29 40.0 | 2.014 | 3.017 | 3.8 | 18.8 |
| 7 20 | 19 48.03 | −30 32.0 | 2.002 | 3.008 | 3.4 | 18.7 |
| 7 30 | 19 39.56 | −31 13.8 | 2.017 | 2.998 | 6.1 | 18.9 |
| 8 9 | 19 32.09 | −31 43.3 | 2.058 | 2.989 | 9.3 | 19.1 |
| 8 19 | 19 26.40 | −32 0.1 | 2.123 | 2.979 | 12.3 | 19.2 |
| **22926** 1999 $TK_{106}$ | | | 7 17.9 160.°46 | | 5.°8/20.5 18 | |
| 6 10 | 20 16.24 | − 4 37.3 | 2.206 | 2.985 | 14.6 | 18.8 |
| 6 20 | 20 11.47 | − 4 0.2 | 2.125 | 2.990 | 12.1 | 18.6 |
| 6 30 | 20 4.80 | − 3 36.1 | 2.064 | 2.994 | 9.5 | 18.5 |
| 7 10 | 19 56.74 | − 3 26.4 | 2.027 | 2.998 | 7.0 | 18.3 |
| 7 20 | 19 48.00 | − 3 31.3 | 2.017 | 3.002 | 5.8 | 18.3 |
| 7 30 | 19 39.41 | − 3 49.7 | 2.033 | 3.005 | 6.8 | 18.3 |
| 8 9 | 19 31.79 | − 4 18.9 | 2.076 | 3.008 | 9.1 | 18.5 |
| 8 19 | 19 25.80 | − 4 55.5 | 2.142 | 3.010 | 11.8 | 18.7 |
| **519102** 2010 $LD_{114}$ | | | 7 17.9 161.°64 | | 5.°1/20.5 18 | |
| 6 10 | 20 13.35 | − 5 9.7 | 2.459 | 3.239 | 13.2 | 21.6 |
| 6 20 | 20 9.07 | − 4 38.4 | 2.374 | 3.241 | 11.0 | 21.4 |
| 6 30 | 20 3.12 | − 4 18.8 | 2.311 | 3.243 | 8.5 | 21.3 |
| 7 10 | 19 55.97 | − 4 11.8 | 2.272 | 3.245 | 6.2 | 21.1 |
| 7 20 | 19 48.21 | − 4 17.4 | 2.259 | 3.246 | 5.1 | 21.1 |
| 7 30 | 19 40.57 | − 4 34.6 | 2.274 | 3.248 | 6.1 | 21.1 |
| 8 9 | 19 33.76 | − 5 1.1 | 2.315 | 3.249 | 8.2 | 21.3 |
| 8 19 | 19 28.36 | − 5 34.1 | 2.381 | 3.250 | 10.7 | 21.4 |
| **518306** 2017 $BP_{34}$ | | | 7 17.9 217.°05 | | 5.°8/22.8 18 | |
| 6 10 | 20 11.45 | + 4 8.4 | 3.340 | 4.054 | 11.3 | 22.3 |
| 6 20 | 20 7.24 | + 4 11.5 | 3.236 | 4.045 | 9.8 | 22.1 |
| 6 30 | 20 1.75 | + 4 0.8 | 3.153 | 4.035 | 8.1 | 22.0 |
| 7 10 | 19 55.33 | + 3 35.2 | 3.095 | 4.024 | 6.7 | 21.9 |
| 7 20 | 19 48.39 | + 2 55.0 | 3.062 | 4.014 | 5.8 | 21.8 |
| 7 30 | 19 41.47 | + 2 1.5 | 3.058 | 4.002 | 6.1 | 21.8 |
| 8 9 | 19 35.09 | + 0 57.2 | 3.081 | 3.991 | 7.3 | 21.9 |
| 8 19 | 19 29.70 | − 0 14.6 | 3.130 | 3.978 | 9.0 | 22.0 |
| **368309** 2002 $PM_{65}$ | | | 7 17.9 334.°93 | | 2.°2/18.3 17 | |
| 6 10 | 20 13.33 | −19 3.0 | 1.125 | 1.998 | 19.9 | 20.3 |
| 6 20 | 20 11.24 | −18 20.9 | 1.046 | 1.982 | 15.8 | 19.9 |
| 6 30 | 20 5.74 | −17 44.5 | 0.985 | 1.966 | 11.0 | 19.6 |
| 7 10 | 19 57.53 | −17 13.5 | 0.944 | 1.952 | 5.5 | 19.3 |
| 7 20 | 19 47.78 | −16 47.3 | 0.924 | 1.939 | 2.4 | 19.0 |
| 7 30 | 19 38.17 | −16 25.1 | 0.927 | 1.927 | 7.5 | 19.3 |
| 8 9 | 19 30.37 | −16 6.2 | 0.951 | 1.916 | 13.1 | 19.6 |
| 8 19 | 19 25.61 | −15 49.9 | 0.993 | 1.907 | 18.2 | 19.8 |
| **172080** 2002 $CA_{18}$ | | | 7 17.9 276.°27 | | 3.°6/16.9 17 | |
| 6 10 | 20 21.58 | −28 5.5 | 1.416 | 2.271 | 17.6 | 20.2 |
| 6 20 | 20 17.29 | −28 25.2 | 1.333 | 2.258 | 13.9 | 19.9 |
| 6 30 | 20 9.59 | −28 45.8 | 1.269 | 2.246 | 9.6 | 19.6 |
| 7 10 | 19 59.21 | −29 1.2 | 1.228 | 2.234 | 5.2 | 19.3 |
| 7 20 | 19 47.35 | −29 5.7 | 1.211 | 2.221 | 4.0 | 19.2 |
| 7 30 | 19 35.65 | −28 55.8 | 1.219 | 2.208 | 8.0 | 19.4 |
| 8 9 | 19 25.77 | −28 31.3 | 1.251 | 2.196 | 12.7 | 19.6 |
| 8 19 | 19 18.89 | −27 55.0 | 1.303 | 2.183 | 17.0 | 19.9 |
| **393030** 2013 $AQ_{4}$ | | | 7 17.9 276.°09 | | 1.°0/18.3 18 | |
| 6 10 | 20 15.41 | −17 56.6 | 2.034 | 2.864 | 13.9 | 21.6 |
| 6 20 | 20 11.20 | −17 52.2 | 1.944 | 2.856 | 11.0 | 21.4 |
| 6 30 | 20 4.83 | −17 54.2 | 1.877 | 2.848 | 7.5 | 21.2 |
| 7 10 | 19 56.84 | −18 1.0 | 1.834 | 2.840 | 3.6 | 20.9 |
| 7 20 | 19 48.00 | −18 10.6 | 1.817 | 2.832 | 1.2 | 20.7 |
| 7 30 | 19 39.26 | −18 21.1 | 1.828 | 2.825 | 4.9 | 21.0 |
| 8 9 | 19 31.59 | −18 30.6 | 1.866 | 2.817 | 8.8 | 21.2 |
| 8 19 | 19 25.75 | −18 37.9 | 1.927 | 2.809 | 12.2 | 21.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **426776** 2013 $TG_{112}$ | | | 7 17.9 5.°91 | | 5.°1/19.7 17 | |
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 7.30 | −11 27.6 | 0.973 | 1.851 | 21.9 | 19.5 |
| 6 20 | 20 6.53 | −10 59.3 | 0.917 | 1.850 | 17.7 | 19.3 |
| 6 30 | 20 2.48 | −10 50.6 | 0.876 | 1.852 | 12.9 | 19.0 |
| 7 10 | 19 55.97 | −11 2.5 | 0.853 | 1.855 | 7.9 | 18.8 |
| 7 20 | 19 48.22 | −11 33.1 | 0.851 | 1.861 | 5.1 | 18.6 |
| 7 30 | 19 40.84 | −12 17.5 | 0.869 | 1.868 | 8.1 | 18.8 |
| 8 9 | 19 35.34 | −13 8.9 | 0.907 | 1.877 | 13.0 | 19.1 |
| 8 19 | 19 32.76 | −14 0.9 | 0.964 | 1.888 | 17.6 | 19.4 |
| **11807** Wannberg | | | 7 17.9 9.°81 | | 4.°9/20.4 18 | |
| 6 10 | 20 11.41 | − 7 12.8 | 1.910 | 2.720 | 15.4 | 18.3 |
| 6 20 | 20 8.08 | − 6 56.4 | 1.832 | 2.721 | 12.7 | 18.1 |
| 6 30 | 20 2.72 | − 6 54.5 | 1.774 | 2.723 | 9.5 | 17.9 |
| 7 10 | 19 55.87 | − 7 7.6 | 1.739 | 2.725 | 6.5 | 17.8 |
| 7 20 | 19 48.27 | − 7 34.6 | 1.729 | 2.728 | 4.9 | 17.7 |
| 7 30 | 19 40.81 | − 8 13.3 | 1.745 | 2.731 | 6.3 | 17.8 |
| 8 9 | 19 34.40 | − 8 59.8 | 1.786 | 2.735 | 9.3 | 18.0 |
| 8 19 | 19 29.73 | − 9 50.1 | 1.850 | 2.739 | 12.4 | 18.2 |
| **91421** 1999 $NA_{65}$ | | | 7 17.9 251.°03 | | 1.°3/18.7 18 | |
| 6 10 | 20 15.50 | −13 54.7 | 2.086 | 2.904 | 14.0 | 19.3 |
| 6 20 | 20 11.37 | −14 33.7 | 1.985 | 2.889 | 11.1 | 19.1 |
| 6 30 | 20 5.05 | −15 25.5 | 1.906 | 2.873 | 7.7 | 18.8 |
| 7 10 | 19 57.01 | −16 27.8 | 1.853 | 2.858 | 3.9 | 18.6 |
| 7 20 | 19 47.94 | −17 36.9 | 1.827 | 2.841 | 1.4 | 18.4 |
| 7 30 | 19 38.79 | −18 48.1 | 1.829 | 2.825 | 5.0 | 18.6 |
| 8 9 | 19 30.55 | −19 56.7 | 1.858 | 2.808 | 8.9 | 18.8 |
| 8 19 | 19 24.04 | −20 59.5 | 1.913 | 2.791 | 12.5 | 19.0 |
| **246712** 2009 $BS_{10}$ | | | 7 17.9 320.°92 | | 3.°2/19.4 17 | |
| 6 10 | 20 13.64 | −11 32.1 | 1.886 | 2.707 | 15.2 | 20.8 |
| 6 20 | 20 9.92 | −11 29.0 | 1.802 | 2.704 | 12.2 | 20.6 |
| 6 30 | 20 4.02 | −11 38.0 | 1.739 | 2.701 | 8.7 | 20.4 |
| 7 10 | 19 56.49 | −11 58.6 | 1.700 | 2.698 | 5.2 | 20.1 |
| 7 20 | 19 48.10 | −12 28.9 | 1.686 | 2.696 | 3.2 | 20.0 |
| 7 30 | 19 39.83 | −13 6.2 | 1.700 | 2.693 | 5.6 | 20.2 |
| 8 9 | 19 32.64 | −13 46.8 | 1.738 | 2.691 | 9.2 | 20.4 |
| 8 19 | 19 27.31 | −14 27.7 | 1.800 | 2.689 | 12.7 | 20.6 |
| **846** Lipperta | | | 7 17.9 284.°07 | | 0.°1/17.9 18 | |
| 6 10 | 20 13.81 | −19 42.9 | 2.321 | 3.150 | 12.4 | 15.3 |
| 6 20 | 20 9.81 | −19 54.4 | 2.221 | 3.133 | 9.7 | 15.1 |
| 6 30 | 20 3.85 | −20 11.4 | 2.143 | 3.116 | 6.6 | 14.9 |
| 7 10 | 19 56.40 | −20 31.8 | 2.091 | 3.099 | 3.0 | 14.6 |
| 7 20 | 19 48.12 | −20 53.2 | 2.066 | 3.081 | 0.8 | 14.4 |
| 7 30 | 19 39.85 | −21 13.2 | 2.068 | 3.064 | 4.6 | 14.7 |
| 8 9 | 19 32.45 | −21 29.9 | 2.098 | 3.046 | 8.1 | 14.9 |
| 8 19 | 19 26.63 | −21 42.1 | 2.152 | 3.029 | 11.4 | 15.0 |
| **244196** 2001 $YQ_{40}$ | | | 7 17.9 38.°42 | | 2.°1/18.4 17 | |
| 6 10 | 20 19.38 | −18 24.1 | 1.156 | 2.017 | 20.3 | 19.4 |
| 6 20 | 20 15.44 | −17 47.3 | 1.097 | 2.025 | 16.0 | 19.2 |
| 6 30 | 20 8.15 | −17 18.5 | 1.057 | 2.035 | 10.9 | 18.9 |
| 7 10 | 19 58.43 | −16 56.9 | 1.037 | 2.044 | 5.4 | 18.7 |
| 7 20 | 19 47.62 | −16 41.0 | 1.040 | 2.055 | 2.3 | 18.5 |
| 7 30 | 19 37.39 | −16 29.3 | 1.067 | 2.066 | 7.1 | 18.8 |
| 8 9 | 19 29.23 | −16 20.3 | 1.116 | 2.077 | 12.2 | 19.2 |
| 8 19 | 19 24.08 | −16 13.0 | 1.186 | 2.089 | 16.7 | 19.5 |
| **263307** 2008 $CN_{25}$ | | | 7 17.9 66.°66 | | 1.°4/18.5 17 | |
| 6 10 | 20 18.01 | −16 27.5 | 1.436 | 2.280 | 17.9 | 21.0 |
| 6 20 | 20 13.76 | −16 33.7 | 1.377 | 2.296 | 14.0 | 20.8 |
| 6 30 | 20 6.73 | −16 50.9 | 1.337 | 2.311 | 9.5 | 20.6 |
| 7 10 | 19 57.72 | −17 16.6 | 1.320 | 2.327 | 4.6 | 20.3 |
| 7 20 | 19 47.81 | −17 46.9 | 1.327 | 2.342 | 1.6 | 20.2 |
| 7 30 | 19 38.34 | −18 17.9 | 1.361 | 2.358 | 6.0 | 20.5 |
| 8 9 | 19 30.54 | −18 46.3 | 1.418 | 2.374 | 10.5 | 20.8 |
| 8 19 | 19 25.23 | −19 10.3 | 1.497 | 2.390 | 14.5 | 21.1 |
| **6294** Czerny | | | 7 17.9 41.°68 | | 0.°1/17.9 18 | |
| 6 10 | 20 18.45 | −20 31.3 | 1.227 | 2.089 | 19.3 | 17.0 |
| 6 20 | 20 14.67 | −20 29.8 | 1.167 | 2.097 | 15.1 | 16.8 |
| 6 30 | 20 7.63 | −20 36.0 | 1.126 | 2.106 | 10.1 | 16.5 |
| 7 10 | 19 58.21 | −20 46.5 | 1.105 | 2.115 | 4.6 | 16.2 |
| 7 20 | 19 47.68 | −20 57.4 | 1.109 | 2.124 | 1.2 | 16.0 |
| 7 30 | 19 37.65 | −21 5.4 | 1.136 | 2.134 | 6.8 | 16.4 |
| 8 9 | 19 29.58 | −21 8.6 | 1.186 | 2.144 | 11.9 | 16.7 |
| 8 19 | 19 24.43 | −21 6.7 | 1.256 | 2.155 | 16.2 | 17.0 |
| **11990** 1995 $WM_{6}$ | | | 7 17.9 175.°38 | | 1.°6/18.7 18 | |
| 6 10 | 20 16.55 | −15 9.0 | 2.331 | 3.143 | 12.9 | 18.8 |
| 6 20 | 20 11.71 | −15 14.7 | 2.245 | 3.145 | 10.2 | 18.6 |
| 6 30 | 20 4.98 | −15 28.3 | 2.182 | 3.147 | 7.0 | 18.4 |
| 7 10 | 19 56.86 | −15 48.3 | 2.145 | 3.149 | 3.6 | 18.2 |
| 7 20 | 19 48.04 | −16 12.5 | 2.136 | 3.149 | 1.6 | 18.0 |
| 7 30 | 19 39.35 | −16 38.8 | 2.155 | 3.150 | 4.5 | 18.3 |
| 8 9 | 19 31.61 | −17 4.9 | 2.202 | 3.150 | 7.8 | 18.5 |
| 8 19 | 19 25.48 | −17 29.0 | 2.274 | 3.149 | 10.9 | 18.7 |

**346665** 2008 $YH_{21}$ 7 17.9 185°.27 0°.4/18.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 16.68 | −19 14.8 | 2.146 | 2.972 | 13.4 | 21.4 |
| 6 20 | 20 12.02 | −19 18.0 | 2.062 | 2.972 | 10.5 | 21.2 |
| 6 30 | 20 5.28 | −19 26.6 | 2.000 | 2.972 | 7.0 | 21.0 |
| 7 10 | 19 57.02 | −19 38.7 | 1.964 | 2.972 | 3.3 | 20.8 |
| 7 20 | 19 48.00 | −19 51.9 | 1.955 | 2.971 | 0.9 | 20.6 |
| 7 30 | 19 39.15 | −20 4.0 | 1.975 | 2.970 | 4.7 | 20.8 |
| 8 9 | 19 31.36 | −20 13.5 | 2.020 | 2.969 | 8.4 | 21.1 |
| 8 19 | 19 25.36 | −20 19.6 | 2.090 | 2.967 | 11.6 | 21.3 |

**513300** 2007 $CN_3$ 7 17.9 181°.93 1°.6/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.20 | −13 59.6 | 2.733 | 3.540 | 11.4 | 21.8 |
| 6 20 | 20 8.86 | −14 10.5 | 2.644 | 3.541 | 9.0 | 21.7 |
| 6 30 | 20 2.96 | −14 29.0 | 2.579 | 3.541 | 6.2 | 21.5 |
| 7 10 | 19 55.92 | −14 53.9 | 2.539 | 3.541 | 3.3 | 21.3 |
| 7 20 | 19 48.29 | −15 23.4 | 2.528 | 3.540 | 1.7 | 21.2 |
| 7 30 | 19 40.75 | −15 55.4 | 2.545 | 3.539 | 3.9 | 21.3 |
| 8 9 | 19 33.97 | −16 27.7 | 2.591 | 3.538 | 6.8 | 21.5 |
| 8 19 | 19 28.48 | −16 58.5 | 2.662 | 3.537 | 9.5 | 21.7 |

**150588** 2000 $WS_{26}$ 7 17.9 236°.86 0°.9/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.75 | −22 19.7 | 2.587 | 3.413 | 11.4 | 20.8 |
| 6 20 | 20 10.31 | −22 42.0 | 2.491 | 3.403 | 8.9 | 20.6 |
| 6 30 | 20 4.06 | −23 7.9 | 2.420 | 3.392 | 5.9 | 20.4 |
| 7 10 | 19 56.46 | −23 35.1 | 2.374 | 3.382 | 2.7 | 20.2 |
| 7 20 | 19 48.14 | −24 0.7 | 2.357 | 3.371 | 1.2 | 20.1 |
| 7 30 | 19 39.87 | −24 22.3 | 2.368 | 3.360 | 4.4 | 20.3 |
| 8 9 | 19 32.43 | −24 38.4 | 2.407 | 3.349 | 7.6 | 20.5 |
| 8 19 | 19 26.47 | −24 48.4 | 2.471 | 3.337 | 10.4 | 20.6 |

**344802** 2004 $BC_6$ 7 17.9 223°.50 1°.0/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.14 | −15 40.8 | 2.459 | 3.273 | 12.3 | 21.5 |
| 6 20 | 20 10.67 | −16 4.7 | 2.361 | 3.263 | 9.7 | 21.3 |
| 6 30 | 20 4.34 | −16 37.0 | 2.286 | 3.253 | 6.6 | 21.1 |
| 7 10 | 19 56.61 | −17 15.9 | 2.238 | 3.243 | 3.2 | 20.8 |
| 7 20 | 19 48.10 | −17 58.6 | 2.217 | 3.232 | 1.1 | 20.6 |
| 7 30 | 19 39.60 | −18 42.2 | 2.225 | 3.220 | 4.3 | 20.9 |
| 8 9 | 19 31.91 | −19 24.0 | 2.261 | 3.208 | 7.7 | 21.1 |
| 8 19 | 19 25.70 | −20 1.8 | 2.322 | 3.196 | 10.8 | 21.2 |

**444057** 2004 $RH_{136}$ 7 17.9 330°.34 4°.4/17.0 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.48 | −33 31.5 | 1.802 | 2.644 | 14.9 | 20.2 |
| 6 20 | 20 15.71 | −33 26.3 | 1.713 | 2.628 | 11.9 | 20.0 |
| 6 30 | 20 8.11 | −33 14.6 | 1.644 | 2.613 | 8.6 | 19.8 |
| 7 10 | 19 58.41 | −32 52.0 | 1.600 | 2.598 | 5.4 | 19.5 |
| 7 20 | 19 47.65 | −32 15.0 | 1.581 | 2.584 | 4.6 | 19.5 |
| 7 30 | 19 37.19 | −31 22.8 | 1.588 | 2.570 | 7.3 | 19.6 |
| 8 9 | 19 28.31 | −30 17.4 | 1.621 | 2.558 | 10.9 | 19.8 |
| 8 19 | 19 21.90 | −29 3.0 | 1.676 | 2.546 | 14.4 | 20.0 |

**97390** 2000 $AD_{99}$ 7 17.9 261°.22 0°.4/18.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.55 | −18 2.8 | 2.182 | 3.005 | 13.3 | 20.5 |
| 6 20 | 20 12.15 | −18 22.8 | 2.075 | 2.983 | 10.5 | 20.2 |
| 6 30 | 20 5.57 | −18 50.6 | 1.990 | 2.961 | 7.1 | 20.0 |
| 7 10 | 19 57.27 | −19 24.1 | 1.931 | 2.938 | 3.3 | 19.7 |
| 7 20 | 19 47.93 | −20 0.2 | 1.899 | 2.914 | 0.9 | 19.5 |
| 7 30 | 19 38.49 | −20 35.8 | 1.895 | 2.890 | 4.9 | 19.7 |
| 8 9 | 19 29.94 | −21 8.0 | 1.918 | 2.865 | 8.8 | 19.9 |
| 8 19 | 19 23.11 | −21 35.1 | 1.966 | 2.840 | 12.4 | 20.1 |

**443595** 2014 $KQ_{92}$ 7 17.9 309°.94 3°.2/16.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.81 | −26 23.9 | 2.044 | 2.889 | 13.3 | 20.3 |
| 6 20 | 20 10.26 | −27 22.8 | 1.955 | 2.876 | 10.4 | 20.1 |
| 6 30 | 20 4.40 | −28 26.1 | 1.888 | 2.863 | 7.1 | 19.9 |
| 7 10 | 19 56.75 | −29 28.7 | 1.846 | 2.850 | 4.0 | 19.7 |
| 7 20 | 19 48.07 | −30 25.3 | 1.831 | 2.837 | 3.6 | 19.6 |
| 7 30 | 19 39.39 | −31 11.2 | 1.843 | 2.825 | 6.5 | 19.8 |
| 8 9 | 19 31.76 | −31 43.8 | 1.880 | 2.813 | 9.9 | 20.0 |
| 8 19 | 19 26.05 | −32 2.8 | 1.940 | 2.801 | 13.1 | 20.1 |

**398264** 2010 $TQ_{42}$ 7 17.9 46°.02 4°.2/20.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.68 | − 8 16.9 | 2.251 | 3.051 | 13.7 | 21.4 |
| 6 20 | 20 8.75 | − 7 58.2 | 2.169 | 3.053 | 11.2 | 21.2 |
| 6 30 | 20 3.02 | − 7 51.0 | 2.107 | 3.055 | 8.3 | 21.0 |
| 7 10 | 19 55.99 | − 7 55.5 | 2.071 | 3.057 | 5.6 | 20.9 |
| 7 20 | 19 48.31 | − 8 11.0 | 2.060 | 3.059 | 4.2 | 20.8 |
| 7 30 | 19 40.76 | − 8 35.9 | 2.076 | 3.062 | 5.6 | 20.9 |
| 8 9 | 19 34.11 | − 9 7.4 | 2.119 | 3.064 | 8.3 | 21.0 |
| 8 19 | 19 28.99 | − 9 42.8 | 2.186 | 3.066 | 11.1 | 21.2 |

**21081** 1991 $RC_{19}$ 7 17.9 295°.56 0°.2/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.08 | −21 2.5 | 1.718 | 2.560 | 15.5 | 18.7 |
| 6 20 | 20 13.26 | −21 4.4 | 1.612 | 2.532 | 12.3 | 18.4 |
| 6 30 | 20 6.71 | −21 11.9 | 1.527 | 2.503 | 8.3 | 18.1 |
| 7 10 | 19 57.93 | −21 22.5 | 1.465 | 2.474 | 3.8 | 17.8 |
| 7 20 | 19 47.77 | −21 33.1 | 1.429 | 2.445 | 1.1 | 17.5 |
| 7 30 | 19 37.45 | −21 40.7 | 1.420 | 2.416 | 6.0 | 17.7 |
| 8 9 | 19 28.30 | −21 43.3 | 1.435 | 2.387 | 10.8 | 18.0 |
| 8 19 | 19 21.39 | −21 40.6 | 1.472 | 2.358 | 15.1 | 18.1 |

**182140** 2000 $SX_{42}$ 7 17.9 251°.43 2°.6/19.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.97 | −12 44.8 | 2.438 | 3.246 | 12.5 | 20.8 |
| 6 20 | 20 9.73 | −12 34.4 | 2.339 | 3.234 | 10.0 | 20.6 |
| 6 30 | 20 3.70 | −12 32.2 | 2.263 | 3.222 | 7.2 | 20.4 |
| 7 10 | 19 56.33 | −12 37.8 | 2.213 | 3.210 | 4.2 | 20.2 |
| 7 20 | 19 48.24 | −12 50.0 | 2.189 | 3.198 | 2.6 | 20.1 |
| 7 30 | 19 40.17 | −13 7.4 | 2.194 | 3.186 | 4.7 | 20.2 |
| 8 9 | 19 32.92 | −13 28.0 | 2.226 | 3.173 | 7.8 | 20.4 |
| 8 19 | 19 27.12 | −13 49.8 | 2.282 | 3.160 | 10.8 | 20.6 |

**211935** 2004 $XB_8$ 7 17.9 240°.95 4°.2/19.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.80 | −10 44.9 | 1.591 | 2.414 | 17.5 | 20.9 |
| 6 20 | 20 13.68 | −10 28.3 | 1.503 | 2.404 | 14.2 | 20.7 |
| 6 30 | 20 6.87 | −10 25.8 | 1.434 | 2.394 | 10.3 | 20.4 |
| 7 10 | 19 57.94 | −10 37.5 | 1.388 | 2.384 | 6.4 | 20.2 |
| 7 20 | 19 47.81 | −11 2.1 | 1.366 | 2.374 | 4.2 | 20.0 |
| 7 30 | 19 37.70 | −11 36.9 | 1.371 | 2.363 | 6.8 | 20.2 |
| 8 9 | 19 28.88 | −12 17.9 | 1.399 | 2.352 | 11.0 | 20.4 |
| 8 19 | 19 22.35 | −13 1.2 | 1.450 | 2.340 | 15.0 | 20.6 |

**119688** 2001 $XK_{126}$ 7 17.9 147°.54 0°.6/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.99 | −18 13.0 | 1.905 | 2.734 | 14.7 | 20.6 |
| 6 20 | 20 13.26 | −18 23.2 | 1.828 | 2.739 | 11.5 | 20.4 |
| 6 30 | 20 6.22 | −18 40.8 | 1.773 | 2.744 | 7.8 | 20.2 |
| 7 10 | 19 57.50 | −19 3.4 | 1.742 | 2.749 | 3.6 | 19.9 |
| 7 20 | 19 47.95 | −19 27.9 | 1.738 | 2.754 | 1.0 | 19.8 |
| 7 30 | 19 38.62 | −19 51.5 | 1.762 | 2.758 | 5.1 | 20.1 |
| 8 9 | 19 30.52 | −20 11.9 | 1.812 | 2.762 | 9.1 | 20.3 |
| 8 19 | 19 24.42 | −20 27.9 | 1.885 | 2.765 | 12.6 | 20.5 |

**22858** Suesong 7 17.9 133°.68 4°.0/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.32 | −10 42.9 | 1.587 | 2.411 | 17.5 | 19.3 |
| 6 20 | 20 13.12 | −10 30.8 | 1.513 | 2.415 | 14.1 | 19.1 |
| 6 30 | 20 6.34 | −10 33.1 | 1.458 | 2.419 | 10.2 | 18.9 |
| 7 10 | 19 57.63 | −10 49.5 | 1.426 | 2.423 | 6.2 | 18.7 |
| 7 20 | 19 47.94 | −11 18.2 | 1.418 | 2.426 | 4.0 | 18.6 |
| 7 30 | 19 38.47 | −11 55.9 | 1.437 | 2.430 | 6.5 | 18.7 |
| 8 9 | 19 30.38 | −12 38.4 | 1.480 | 2.433 | 10.5 | 18.9 |
| 8 19 | 19 24.54 | −13 21.9 | 1.545 | 2.436 | 14.2 | 19.2 |

**121266** 1999 $RU_{106}$ 7 17.9 2°.22 4°.7/17.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 21.50 | −33 12.1 | 1.280 | 2.142 | 18.6 | 18.3 |
| 6 20 | 20 17.26 | −32 53.4 | 1.213 | 2.140 | 14.8 | 18.1 |
| 6 30 | 20 9.46 | −32 26.3 | 1.165 | 2.140 | 10.5 | 17.8 |
| 7 10 | 19 59.08 | −31 45.5 | 1.138 | 2.140 | 6.2 | 17.6 |
| 7 20 | 19 47.60 | −30 47.9 | 1.135 | 2.142 | 4.9 | 17.5 |
| 7 30 | 19 36.79 | −29 34.3 | 1.156 | 2.145 | 8.3 | 17.7 |
| 8 9 | 19 28.24 | −28 9.2 | 1.200 | 2.149 | 12.7 | 18.0 |
| 8 19 | 19 22.88 | −26 38.7 | 1.264 | 2.155 | 16.8 | 18.3 |

**136203** 2003 $WD_6$ 7 17.9 290°.44 2°.7/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.93 | −15 31.9 | 1.465 | 2.308 | 17.7 | 20.0 |
| 6 20 | 20 13.47 | −15 12.4 | 1.368 | 2.285 | 14.2 | 19.7 |
| 6 30 | 20 7.03 | −15 2.7 | 1.290 | 2.262 | 10.0 | 19.4 |
| 7 10 | 19 58.15 | −15 2.5 | 1.234 | 2.239 | 5.4 | 19.0 |
| 7 20 | 19 47.77 | −15 10.3 | 1.202 | 2.216 | 2.8 | 18.8 |
| 7 30 | 19 37.25 | −15 23.6 | 1.196 | 2.192 | 6.8 | 19.0 |
| 8 9 | 19 28.06 | −15 39.7 | 1.212 | 2.169 | 11.8 | 19.2 |
| 8 19 | 19 21.38 | −15 56.4 | 1.250 | 2.147 | 16.5 | 19.4 |

**362530** 2010 $UY_9$ 7 17.9 265°.65 4°.1/15.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.16 | −31 43.4 | 2.392 | 3.226 | 12.0 | 20.9 |
| 6 20 | 20 11.74 | −32 29.6 | 2.307 | 3.218 | 9.5 | 20.7 |
| 6 30 | 20 5.20 | −33 14.8 | 2.245 | 3.211 | 6.8 | 20.5 |
| 7 10 | 19 57.07 | −33 54.4 | 2.209 | 3.203 | 4.6 | 20.3 |
| 7 20 | 19 48.10 | −34 24.1 | 2.200 | 3.196 | 4.4 | 20.3 |
| 7 30 | 19 39.22 | −34 41.2 | 2.218 | 3.188 | 6.5 | 20.4 |
| 8 9 | 19 31.39 | −34 44.6 | 2.262 | 3.180 | 9.2 | 20.6 |
| 8 19 | 19 25.33 | −34 35.5 | 2.330 | 3.173 | 11.8 | 20.8 |

**507985** 2015 $BM_{140}$ 7 17.9 305°.26 3°.6/16.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 15.48 | −24 44.1 | 1.345 | 2.211 | 17.7 | 21.0 |
| 6 20 | 20 12.81 | −25 43.3 | 1.260 | 2.192 | 13.9 | 20.7 |
| 6 30 | 20 6.85 | −26 51.8 | 1.193 | 2.174 | 9.5 | 20.4 |
| 7 10 | 19 58.15 | −28 2.8 | 1.149 | 2.156 | 5.1 | 20.1 |
| 7 20 | 19 47.77 | −29 8.1 | 1.128 | 2.138 | 4.2 | 20.0 |
| 7 30 | 19 37.28 | −29 59.9 | 1.131 | 2.120 | 8.5 | 20.2 |
| 8 9 | 19 28.37 | −30 34.0 | 1.157 | 2.103 | 13.4 | 20.4 |
| 8 19 | 19 22.36 | −30 49.8 | 1.202 | 2.087 | 17.9 | 20.6 |

**404872** 2014 $KC_{44}$ 7 17.9 16°.10 2°.8/19.5 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 11.21 | −11 32.0 | 1.859 | 2.685 | 15.2 | 21.1 |
| 6 20 | 20 8.04 | −11 42.0 | 1.784 | 2.689 | 12.1 | 20.9 |
| 6 30 | 20 2.77 | −12 5.2 | 1.730 | 2.694 | 8.6 | 20.7 |
| 7 10 | 19 55.97 | −12 40.2 | 1.700 | 2.699 | 4.9 | 20.5 |
| 7 20 | 19 48.40 | −13 24.5 | 1.695 | 2.705 | 2.9 | 20.4 |
| 7 30 | 19 41.00 | −14 14.4 | 1.716 | 2.712 | 5.3 | 20.6 |
| 8 9 | 19 34.70 | −15 6.0 | 1.763 | 2.718 | 8.9 | 20.8 |
| 8 19 | 19 30.20 | −15 55.7 | 1.833 | 2.726 | 12.3 | 21.0 |

**165094** 2000 $GV_{89}$ 7 17.9 216°.59 3°.9/20.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.89 | − 7 38.5 | 2.296 | 3.090 | 13.6 | 20.5 |
| 6 20 | 20 9.76 | − 7 41.4 | 2.204 | 3.085 | 11.1 | 20.4 |
| 6 30 | 20 3.77 | − 7 57.3 | 2.132 | 3.079 | 8.3 | 20.2 |
| 7 10 | 19 56.40 | − 8 25.9 | 2.086 | 3.074 | 5.4 | 20.0 |
| 7 20 | 19 48.28 | − 9 6.0 | 2.066 | 3.068 | 3.9 | 19.9 |
| 7 30 | 19 40.21 | − 9 54.8 | 2.074 | 3.061 | 5.4 | 20.0 |
| 8 9 | 19 32.98 | −10 48.8 | 2.109 | 3.054 | 8.2 | 20.1 |
| 8 19 | 19 27.27 | −11 44.7 | 2.168 | 3.047 | 11.2 | 20.3 |

**400465** 2008 $FV_{134}$ 7 17.9 80°.53 3°.4/19.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.70 | − 9 11.3 | 2.282 | 3.084 | 13.5 | 22.0 |
| 6 20 | 20 8.73 | − 9 15.0 | 2.206 | 3.094 | 10.8 | 21.9 |
| 6 30 | 20 2.99 | − 9 30.6 | 2.151 | 3.104 | 7.9 | 21.7 |
| 7 10 | 19 56.00 | − 9 57.4 | 2.121 | 3.113 | 5.0 | 21.5 |
| 7 20 | 19 48.41 | −10 33.6 | 2.118 | 3.123 | 3.4 | 21.4 |
| 7 30 | 19 40.97 | −11 16.7 | 2.143 | 3.133 | 5.0 | 21.6 |
| 8 9 | 19 34.45 | −12 3.3 | 2.194 | 3.143 | 7.8 | 21.7 |
| 8 19 | 19 29.44 | −12 50.4 | 2.270 | 3.152 | 10.7 | 21.9 |

**73097** 2002 $GN_{21}$ 7 17.9 82°.41 1°.4/17.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.37 | −22 22.1 | 1.427 | 2.279 | 17.6 | 19.7 |
| 6 20 | 20 15.14 | −22 48.4 | 1.360 | 2.286 | 13.7 | 19.5 |
| 6 30 | 20 7.89 | −23 21.2 | 1.314 | 2.292 | 9.1 | 19.2 |
| 7 10 | 19 58.39 | −23 55.9 | 1.290 | 2.299 | 4.2 | 18.9 |
| 7 20 | 19 47.79 | −24 27.1 | 1.291 | 2.305 | 2.0 | 18.8 |
| 7 30 | 19 37.54 | −24 50.4 | 1.317 | 2.312 | 6.7 | 19.1 |
| 8 9 | 19 29.03 | −25 4.0 | 1.367 | 2.318 | 11.3 | 19.4 |
| 8 19 | 19 23.21 | −25 7.9 | 1.439 | 2.324 | 15.4 | 19.7 |

**356318** 2010 $HT_{104}$ 7 17.9 41°.26 4°.5/17.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 23.08 | −29 22.9 | 0.932 | 1.814 | 22.3 | 19.7 |
| 6 20 | 20 18.95 | −29 34.9 | 0.897 | 1.836 | 17.4 | 19.5 |
| 6 30 | 20 10.66 | −29 44.4 | 0.877 | 1.859 | 11.8 | 19.3 |
| 7 10 | 19 59.57 | −29 44.3 | 0.877 | 1.883 | 6.5 | 19.1 |
| 7 20 | 19 47.55 | −29 29.1 | 0.898 | 1.908 | 4.9 | 19.1 |
| 7 30 | 19 36.73 | −28 57.9 | 0.941 | 1.934 | 9.0 | 19.4 |
| 8 9 | 19 28.79 | −28 13.8 | 1.005 | 1.960 | 13.9 | 19.8 |
| 8 19 | 19 24.54 | −27 21.8 | 1.088 | 1.987 | 18.2 | 20.1 |

**172355** 2002 $XM$ 7 17.9 205°.52 2°.1/16.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 16.42 | −24 37.4 | 2.570 | 3.396 | 11.5 | 20.3 |
| 6 20 | 20 11.70 | −25 30.1 | 2.480 | 3.391 | 8.9 | 20.1 |
| 6 30 | 20 5.08 | −26 26.6 | 2.414 | 3.386 | 6.0 | 19.9 |
| 7 10 | 19 57.01 | −27 23.1 | 2.375 | 3.380 | 3.1 | 19.7 |
| 7 20 | 19 48.15 | −28 15.4 | 2.365 | 3.374 | 2.4 | 19.7 |
| 7 30 | 19 39.31 | −29 0.2 | 2.383 | 3.367 | 5.0 | 19.8 |
| 8 9 | 19 31.32 | −29 35.2 | 2.429 | 3.360 | 8.1 | 20.0 |
| 8 19 | 19 24.87 | −29 59.9 | 2.500 | 3.352 | 10.8 | 20.2 |

**513235** 2005 $WD_{66}$ 7 17.9 187°.22 0°.7/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.34 | −22 4.9 | 2.937 | 3.757 | 10.3 | 23.3 |
| 6 20 | 20 9.73 | −22 27.9 | 2.849 | 3.757 | 8.0 | 23.1 |
| 6 30 | 20 3.56 | −22 54.1 | 2.784 | 3.756 | 5.3 | 22.9 |
| 7 10 | 19 56.25 | −23 21.2 | 2.747 | 3.754 | 2.4 | 22.7 |
| 7 20 | 19 48.37 | −23 46.9 | 2.738 | 3.752 | 1.0 | 22.6 |
| 7 30 | 19 40.58 | −24 9.1 | 2.758 | 3.750 | 3.9 | 22.8 |
| 8 9 | 19 33.54 | −24 26.4 | 2.807 | 3.748 | 6.7 | 23.0 |
| 8 19 | 19 27.79 | −24 38.3 | 2.882 | 3.745 | 9.2 | 23.2 |

**194448** 2001 $VA_{114}$ 7 17.9 146°.77 0°.2/18.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.58 | −19 36.9 | 2.180 | 3.001 | 13.4 | 20.9 |
| 6 20 | 20 14.16 | −19 44.3 | 2.104 | 3.011 | 10.4 | 20.7 |
| 6 30 | 20 6.67 | −19 56.9 | 2.051 | 3.021 | 7.0 | 20.5 |
| 7 10 | 19 57.69 | −20 12.2 | 2.023 | 3.030 | 3.2 | 20.3 |
| 7 20 | 19 48.02 | −20 27.8 | 2.023 | 3.038 | 0.8 | 20.1 |
| 7 30 | 19 38.59 | −20 41.3 | 2.052 | 3.046 | 4.6 | 20.4 |
| 8 9 | 19 30.30 | −20 51.5 | 2.108 | 3.053 | 8.2 | 20.6 |
| 8 19 | 19 23.83 | −20 57.6 | 2.188 | 3.060 | 11.4 | 20.8 |

**196971** 2003 $UG_{61}$ 7 17.9 301°.39 2°.3/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.68 | −22 50.1 | 1.699 | 2.549 | 15.3 | 20.1 |
| 6 20 | 20 11.49 | −23 42.6 | 1.602 | 2.527 | 12.0 | 19.9 |
| 6 30 | 20 5.60 | −24 44.1 | 1.526 | 2.504 | 8.1 | 19.6 |
| 7 10 | 19 57.49 | −25 49.7 | 1.473 | 2.481 | 4.0 | 19.3 |
| 7 20 | 19 48.01 | −26 53.2 | 1.447 | 2.459 | 2.7 | 19.1 |
| 7 30 | 19 38.38 | −27 48.7 | 1.446 | 2.437 | 6.8 | 19.3 |
| 8 9 | 19 29.92 | −28 32.0 | 1.470 | 2.415 | 11.2 | 19.5 |
| 8 19 | 19 23.72 | −29 1.6 | 1.516 | 2.393 | 15.2 | 19.7 |

**277386** 2005 $UL_{103}$ 7 17.9 279°.49 1°.4/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 13.47 | −15 54.9 | 2.286 | 3.108 | 12.8 | 21.3 |
| 6 20 | 20 9.56 | −16 0.0 | 2.188 | 3.094 | 10.1 | 21.1 |
| 6 30 | 20 3.72 | −16 12.8 | 2.111 | 3.079 | 7.0 | 20.9 |
| 7 10 | 19 56.43 | −16 32.1 | 2.060 | 3.065 | 3.6 | 20.6 |
| 7 20 | 19 48.33 | −16 55.8 | 2.036 | 3.050 | 1.5 | 20.5 |
| 7 30 | 19 40.24 | −17 21.5 | 2.040 | 3.036 | 4.5 | 20.7 |
| 8 9 | 19 33.01 | −17 47.1 | 2.071 | 3.021 | 8.1 | 20.8 |
| 8 19 | 19 27.34 | −18 10.6 | 2.126 | 3.007 | 11.3 | 21.0 |

**294424** 2007 $VL_{229}$ 7 17.9 2°.37 1°.2/18.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 14.91 | −17 49.1 | 1.734 | 2.574 | 15.5 | 20.8 |
| 6 20 | 20 11.13 | −17 42.2 | 1.657 | 2.574 | 12.2 | 20.6 |
| 6 30 | 20 4.96 | −17 42.8 | 1.600 | 2.573 | 8.3 | 20.3 |
| 7 10 | 19 57.02 | −17 49.1 | 1.567 | 2.574 | 4.0 | 20.1 |
| 7 20 | 19 48.19 | −17 59.1 | 1.559 | 2.574 | 1.4 | 19.9 |
| 7 30 | 19 39.58 | −18 10.3 | 1.578 | 2.575 | 5.4 | 20.2 |
| 8 9 | 19 32.24 | −18 20.8 | 1.622 | 2.577 | 9.5 | 20.4 |
| 8 19 | 19 26.98 | −18 29.1 | 1.688 | 2.579 | 13.2 | 20.7 |

**42361** 2002 $CS_{101}$ 7 17.9 280°.31 2°.7/17.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.33 | −24 30.3 | 1.467 | 2.321 | 17.1 | 19.5 |
| 6 20 | 20 15.62 | −25 4.9 | 1.372 | 2.298 | 13.6 | 19.2 |
| 6 30 | 20 8.67 | −25 46.2 | 1.297 | 2.275 | 9.3 | 18.9 |
| 7 10 | 19 59.00 | −26 28.8 | 1.244 | 2.251 | 4.6 | 18.5 |
| 7 20 | 19 47.63 | −27 6.4 | 1.216 | 2.228 | 3.1 | 18.4 |
| 7 30 | 19 36.09 | −27 33.3 | 1.212 | 2.204 | 7.6 | 18.6 |
| 8 9 | 19 26.03 | −27 46.4 | 1.233 | 2.180 | 12.7 | 18.8 |
| 8 19 | 19 18.75 | −27 46.1 | 1.274 | 2.156 | 17.2 | 19.0 |

**193523** 2000 $YE_{73}$ 7 17.9 144°.89 1°.6/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.91 | −22 55.4 | 2.076 | 2.909 | 13.6 | 20.3 |
| 6 20 | 20 13.14 | −23 37.0 | 2.001 | 2.916 | 10.5 | 20.1 |
| 6 30 | 20 6.14 | −24 23.5 | 1.949 | 2.923 | 7.0 | 19.9 |
| 7 10 | 19 57.52 | −25 10.6 | 1.922 | 2.929 | 3.3 | 19.7 |
| 7 20 | 19 48.08 | −25 54.2 | 1.922 | 2.935 | 2.0 | 19.6 |
| 7 30 | 19 38.82 | −26 30.4 | 1.950 | 2.940 | 5.4 | 19.8 |
| 8 9 | 19 30.72 | −26 57.4 | 2.005 | 2.946 | 8.9 | 20.1 |
| 8 19 | 19 24.54 | −27 14.6 | 2.084 | 2.950 | 12.1 | 20.3 |

**48750** 1997 $GG_{8}$ 7 17.9 187°.56 3°.8/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.51 | −11 25.4 | 1.730 | 2.549 | 16.4 | 19.2 |
| 6 20 | 20 13.13 | −11 8.2 | 1.649 | 2.549 | 13.2 | 19.0 |
| 6 30 | 20 6.31 | −11 3.2 | 1.588 | 2.548 | 9.6 | 18.8 |
| 7 10 | 19 57.66 | −11 10.3 | 1.551 | 2.548 | 5.8 | 18.5 |
| 7 20 | 19 48.05 | −11 28.3 | 1.539 | 2.547 | 3.8 | 18.4 |
| 7 30 | 19 38.59 | −11 54.5 | 1.553 | 2.546 | 6.2 | 18.6 |
| 8 9 | 19 30.39 | −12 25.9 | 1.593 | 2.544 | 10.0 | 18.8 |
| 8 19 | 19 24.29 | −12 59.2 | 1.656 | 2.542 | 13.7 | 19.0 |

**398896** 2013 $CG_{117}$ 7 17.9 214°.60 0°.6/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.59 | −20 40.2 | 2.436 | 3.263 | 12.0 | 21.7 |
| 6 20 | 20 10.30 | −21 10.1 | 2.347 | 3.259 | 9.3 | 21.5 |
| 6 30 | 20 4.14 | −21 45.4 | 2.282 | 3.254 | 6.2 | 21.3 |
| 7 10 | 19 56.60 | −22 23.4 | 2.242 | 3.250 | 2.8 | 21.1 |
| 7 20 | 19 48.32 | −23 0.9 | 2.230 | 3.245 | 1.0 | 21.0 |
| 7 30 | 19 40.11 | −23 34.9 | 2.247 | 3.241 | 4.5 | 21.2 |
| 8 9 | 19 32.78 | −24 3.5 | 2.291 | 3.236 | 7.8 | 21.4 |
| 8 19 | 19 27.00 | −24 25.4 | 2.360 | 3.230 | 10.7 | 21.6 |

**481738** 2008 $GP_{23}$ 7 17.9 150°.26 4°.8/15.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.03 | −34 18.3 | 2.445 | 3.273 | 11.9 | 21.6 |
| 6 20 | 20 13.13 | −35 11.3 | 2.372 | 3.277 | 9.5 | 21.5 |
| 6 30 | 20 6.09 | −36 1.4 | 2.322 | 3.281 | 7.0 | 21.3 |
| 7 10 | 19 57.48 | −36 43.6 | 2.298 | 3.284 | 5.2 | 21.2 |
| 7 20 | 19 48.10 | −37 13.6 | 2.301 | 3.287 | 5.1 | 21.2 |
| 7 30 | 19 38.90 | −37 28.8 | 2.331 | 3.290 | 6.9 | 21.3 |
| 8 9 | 19 30.83 | −37 28.9 | 2.388 | 3.293 | 9.3 | 21.5 |
| 8 19 | 19 24.59 | −37 15.5 | 2.467 | 3.296 | 11.7 | 21.7 |

**185134** 2006 $SF_{112}$ 7 17.9 291°.78 8°.9/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 23.61 | −38 6.0 | 1.520 | 2.366 | 17.1 | 20.3 |
| 6 20 | 20 19.53 | −39 14.4 | 1.427 | 2.337 | 14.2 | 20.0 |
| 6 30 | 20 11.64 | −40 19.1 | 1.353 | 2.308 | 11.3 | 19.8 |
| 7 10 | 20 0.48 | −41 10.2 | 1.301 | 2.279 | 9.2 | 19.6 |
| 7 20 | 19 47.27 | −41 37.5 | 1.272 | 2.250 | 9.4 | 19.5 |
| 7 30 | 19 33.90 | −41 34.4 | 1.266 | 2.220 | 11.9 | 19.6 |
| 8 9 | 19 22.39 | −41 0.9 | 1.283 | 2.191 | 15.5 | 19.7 |
| 8 19 | 19 14.25 | −40 2.1 | 1.318 | 2.161 | 19.1 | 19.8 |

**259027** 2002 $TD_{215}$ 7 17.9 228°.00 1°.0/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 18.17 | −16 12.5 | 1.988 | 2.810 | 14.5 | 21.6 |
| 6 20 | 20 13.56 | −16 33.3 | 1.892 | 2.799 | 11.5 | 21.3 |
| 6 30 | 20 6.60 | −17 4.0 | 1.818 | 2.787 | 7.8 | 21.1 |
| 7 10 | 19 57.83 | −17 42.3 | 1.769 | 2.775 | 3.8 | 20.8 |
| 7 20 | 19 48.01 | −18 25.0 | 1.747 | 2.762 | 1.2 | 20.6 |
| 7 30 | 19 38.17 | −19 8.2 | 1.752 | 2.748 | 5.2 | 20.8 |
| 8 9 | 19 29.37 | −19 48.8 | 1.785 | 2.734 | 9.3 | 21.1 |
| 8 19 | 19 22.49 | −20 24.4 | 1.841 | 2.719 | 12.9 | 21.3 |

**59788** 1999 $ND_{56}$ 7 17.9 1°.34 10°.5/21.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 10.55 | + 1 16.9 | 1.613 | 2.401 | 18.7 | 17.6 |
| 6 20 | 20 7.82 | + 2 42.3 | 1.542 | 2.399 | 16.3 | 17.4 |
| 6 30 | 20 2.81 | + 3 48.2 | 1.488 | 2.398 | 13.8 | 17.3 |
| 7 10 | 19 56.09 | + 4 30.0 | 1.454 | 2.398 | 11.6 | 17.1 |
| 7 20 | 19 48.48 | + 4 44.6 | 1.442 | 2.399 | 10.5 | 17.1 |
| 7 30 | 19 41.03 | + 4 32.1 | 1.452 | 2.402 | 11.0 | 17.1 |
| 8 9 | 19 34.76 | + 3 55.8 | 1.484 | 2.405 | 12.9 | 17.2 |
| 8 19 | 19 30.47 | + 3 1.7 | 1.537 | 2.410 | 15.3 | 17.4 |

**126218** 2002 $AC_{48}$ 7 17.9 65°.22 0°.7/18.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 15.66 | −16 12.3 | 1.649 | 2.488 | 16.2 | 19.4 |
| 6 20 | 20 11.82 | −16 48.0 | 1.580 | 2.496 | 12.7 | 19.2 |
| 6 30 | 20 5.48 | −17 35.7 | 1.531 | 2.505 | 8.6 | 19.0 |
| 7 10 | 19 57.30 | −18 31.8 | 1.506 | 2.514 | 4.0 | 18.8 |
| 7 20 | 19 48.19 | −19 31.5 | 1.507 | 2.523 | 1.0 | 18.6 |
| 7 30 | 19 39.31 | −20 29.7 | 1.535 | 2.532 | 5.5 | 18.9 |
| 8 9 | 19 31.79 | −21 22.1 | 1.587 | 2.541 | 9.8 | 19.2 |
| 8 19 | 19 26.44 | −22 6.3 | 1.663 | 2.550 | 13.6 | 19.4 |

**193317** 2000 $SS_{322}$ 7 17.9 206°.21 3°.1/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 23.05 | −29 56.8 | 2.215 | 3.040 | 13.1 | 21.1 |
| 6 20 | 20 17.11 | −30 10.9 | 2.127 | 3.035 | 10.3 | 20.9 |
| 6 30 | 20 8.80 | −30 23.0 | 2.062 | 3.030 | 7.1 | 20.7 |
| 7 10 | 19 58.75 | −30 29.1 | 2.023 | 3.024 | 4.1 | 20.5 |
| 7 20 | 19 47.83 | −30 25.9 | 2.011 | 3.017 | 3.4 | 20.4 |
| 7 30 | 19 37.11 | −30 11.4 | 2.028 | 3.010 | 6.0 | 20.6 |
| 8 9 | 19 27.67 | −29 46.0 | 2.072 | 3.002 | 9.3 | 20.8 |
| 8 19 | 19 20.28 | −29 11.6 | 2.140 | 2.994 | 12.3 | 21.0 |

**324904** 2007 $VU_{192}$ 7 17.9 189°.53 0°.5/17.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.00 | −20 14.1 | 1.856 | 2.687 | 15.0 | 22.2 |
| 6 20 | 20 15.07 | −20 41.9 | 1.773 | 2.686 | 11.7 | 22.0 |
| 6 30 | 20 7.63 | −21 17.0 | 1.712 | 2.685 | 7.8 | 21.8 |
| 7 10 | 19 58.29 | −21 55.8 | 1.675 | 2.683 | 3.6 | 21.5 |
| 7 20 | 19 47.93 | −22 34.1 | 1.665 | 2.681 | 1.2 | 21.3 |
| 7 30 | 19 37.70 | −23 7.9 | 1.683 | 2.678 | 5.5 | 21.6 |
| 8 9 | 19 28.74 | −23 34.7 | 1.728 | 2.674 | 9.7 | 21.9 |
| 8 19 | 19 21.92 | −23 53.5 | 1.795 | 2.670 | 13.4 | 22.1 |

**93265** 2000 $SV_{171}$ 7 17.9 218°.15 0°.5/17.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.18 | −18 55.2 | 2.257 | 3.079 | 13.0 | 19.7 |
| 6 20 | 20 12.55 | −19 45.0 | 2.162 | 3.071 | 10.1 | 19.5 |
| 6 30 | 20 5.82 | −20 43.5 | 2.090 | 3.062 | 6.8 | 19.2 |
| 7 10 | 19 57.45 | −21 47.1 | 2.045 | 3.053 | 3.1 | 19.0 |
| 7 20 | 19 48.15 | −22 51.6 | 2.027 | 3.043 | 1.1 | 18.8 |
| 7 30 | 19 38.82 | −23 52.4 | 2.039 | 3.032 | 4.9 | 19.1 |
| 8 9 | 19 30.39 | −24 46.1 | 2.079 | 3.021 | 8.5 | 19.3 |
| 8 19 | 19 23.66 | −25 30.8 | 2.143 | 3.009 | 11.8 | 19.5 |

**162190** 1999 $RP_{14}$ 7 17.9 309°.06 16°.6/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 43.28 | −51 44.1 | 1.049 | 1.878 | 24.1 | 19.7 |
| 6 20 | 20 37.16 | −52 44.7 | 0.992 | 1.872 | 21.5 | 19.5 |
| 6 30 | 20 24.32 | −53 21.0 | 0.949 | 1.867 | 18.9 | 19.3 |
| 7 10 | 20 6.23 | −53 14.2 | 0.922 | 1.862 | 17.0 | 19.2 |
| 7 20 | 19 46.02 | −52 10.7 | 0.914 | 1.858 | 16.7 | 19.1 |
| 7 30 | 19 27.66 | −50 9.0 | 0.925 | 1.853 | 18.1 | 19.2 |
| 8 9 | 19 14.22 | −47 22.4 | 0.956 | 1.849 | 20.8 | 19.4 |
| 8 19 | 19 6.85 | −44 10.3 | 1.003 | 1.845 | 23.8 | 19.6 |

**266745** 2009 $SS_{50}$ 7 17.9 15°.38 4°.8/16.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.07 | −29 46.0 | 1.377 | 2.238 | 17.6 | 20.6 |
| 6 20 | 20 15.27 | −30 23.2 | 1.312 | 2.240 | 13.9 | 20.3 |
| 6 30 | 20 8.19 | −31 0.2 | 1.266 | 2.242 | 9.7 | 20.1 |
| 7 10 | 19 58.64 | −31 30.1 | 1.242 | 2.245 | 5.8 | 19.9 |
| 7 20 | 19 47.88 | −31 46.5 | 1.243 | 2.248 | 5.1 | 19.9 |
| 7 30 | 19 37.54 | −31 45.8 | 1.267 | 2.251 | 8.4 | 20.1 |
| 8 9 | 19 29.12 | −31 28.2 | 1.314 | 2.255 | 12.6 | 20.3 |
| 8 19 | 19 23.63 | −30 56.8 | 1.382 | 2.260 | 16.4 | 20.6 |

**83422** 2001 $SV_{43}$ 7 17.9 205°.92 0°.4/18.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 14.87 | −18 7.8 | 2.234 | 3.060 | 13.0 | 19.6 |
| 6 20 | 20 10.64 | −18 24.7 | 2.148 | 3.058 | 10.1 | 19.4 |
| 6 30 | 20 4.44 | −18 48.6 | 2.085 | 3.056 | 6.8 | 19.2 |
| 7 10 | 19 56.78 | −19 17.1 | 2.047 | 3.054 | 3.2 | 19.0 |
| 7 20 | 19 48.37 | −19 47.6 | 2.036 | 3.052 | 0.8 | 18.8 |
| 7 30 | 19 40.07 | −20 17.2 | 2.054 | 3.049 | 4.5 | 19.1 |
| 8 9 | 19 32.73 | −20 43.7 | 2.098 | 3.047 | 8.1 | 19.3 |
| 8 19 | 19 27.04 | −21 5.8 | 2.167 | 3.044 | 11.3 | 19.5 |

**354529** 2004 $RZ_{176}$ 7 17.9 349°.00 5°.3/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 12.17 | − 7 53.3 | 1.915 | 2.725 | 15.4 | 19.8 |
| 6 20 | 20 8.77 | − 7 15.3 | 1.831 | 2.720 | 12.7 | 19.6 |
| 6 30 | 20 3.30 | − 6 49.7 | 1.768 | 2.716 | 9.6 | 19.4 |
| 7 10 | 19 56.30 | − 6 37.8 | 1.728 | 2.713 | 6.7 | 19.3 |
| 7 20 | 19 48.50 | − 6 39.8 | 1.713 | 2.710 | 5.3 | 19.2 |
| 7 30 | 19 40.82 | − 6 54.5 | 1.724 | 2.708 | 6.7 | 19.2 |
| 8 9 | 19 34.16 | − 7 19.2 | 1.760 | 2.706 | 9.6 | 19.4 |
| 8 19 | 19 29.26 | − 7 50.6 | 1.818 | 2.704 | 12.7 | 19.6 |

**1185** Nikko 7 17.9 227°.05 2°.8/16.8 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 20.40 | −24 29.5 | 1.585 | 2.431 | 16.4 | 15.9 |
| 6 20 | 20 16.04 | −25 19.0 | 1.503 | 2.425 | 12.9 | 15.7 |
| 6 30 | 20 8.67 | −26 14.9 | 1.442 | 2.418 | 8.7 | 15.4 |
| 7 10 | 19 58.92 | −27 11.4 | 1.404 | 2.410 | 4.4 | 15.1 |
| 7 20 | 19 47.83 | −28 1.8 | 1.392 | 2.403 | 3.3 | 15.0 |
| 7 30 | 19 36.81 | −28 40.6 | 1.406 | 2.394 | 7.2 | 15.3 |
| 8 9 | 19 27.29 | −29 4.9 | 1.444 | 2.386 | 11.6 | 15.5 |
| 8 19 | 19 20.38 | −29 15.1 | 1.504 | 2.377 | 15.6 | 15.7 |

**11974** Yasuhidefujita 7 17.9 294°.13 0°.1/18.0 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 6 10 | 20 13.62 | −19 13.3 | 2.208 | 3.039 | 12.9 | 18.0 |
| 6 20 | 20 9.87 | −19 30.0 | 2.105 | 3.019 | 10.1 | 17.8 |
| 6 30 | 20 4.08 | −19 53.4 | 2.025 | 2.998 | 6.9 | 17.5 |
| 7 10 | 19 56.70 | −20 21.3 | 1.970 | 2.978 | 3.2 | 17.3 |
| 7 20 | 19 48.40 | −20 50.8 | 1.942 | 2.957 | 0.8 | 17.0 |
| 7 30 | 19 40.06 | −21 19.2 | 1.941 | 2.937 | 4.7 | 17.3 |
| 8 9 | 19 32.61 | −21 43.9 | 1.967 | 2.917 | 8.5 | 17.5 |
| 8 19 | 19 26.80 | −22 3.6 | 2.017 | 2.897 | 11.9 | 17.7 |

**12301** Eötvös 7 17.9 278°.25 2°.5/17.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 19.48 | −24 49.3 | 1.650 | 2.496 | 15.9 | 18.9 |
| 6 20 | 20 15.42 | −25 20.8 | 1.550 | 2.471 | 12.6 | 18.7 |
| 6 30 | 20 8.37 | −25 57.8 | 1.470 | 2.446 | 8.6 | 18.4 |
| 7 10 | 19 58.86 | −26 35.2 | 1.414 | 2.421 | 4.3 | 18.1 |
| 7 20 | 19 47.82 | −27 7.7 | 1.384 | 2.395 | 2.9 | 17.9 |
| 7 30 | 19 36.62 | −27 30.2 | 1.379 | 2.369 | 7.1 | 18.1 |
| 8 9 | 19 26.72 | −27 40.4 | 1.399 | 2.343 | 11.7 | 18.3 |
| 8 19 | 19 19.30 | −27 38.4 | 1.440 | 2.317 | 15.9 | 18.5 |

**8237** Constable 7 17.9 318°.87 5°.2/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 10 | 20 17.56 | −28 34.2 | 1.232 | 2.103 | 18.7 | 17.5 |
| 6 20 | 20 14.71 | −29 27.6 | 1.159 | 2.092 | 14.8 | 17.2 |
| 6 30 | 20 8.25 | −30 24.7 | 1.103 | 2.082 | 10.4 | 17.0 |
| 7 10 | 19 58.87 | −31 17.5 | 1.069 | 2.073 | 6.3 | 16.7 |
| 7 20 | 19 47.84 | −31 57.2 | 1.058 | 2.063 | 5.6 | 16.6 |
| 7 30 | 19 36.96 | −32 17.5 | 1.069 | 2.055 | 9.4 | 16.8 |
| 8 9 | 19 28.04 | −32 16.8 | 1.102 | 2.046 | 14.1 | 17.1 |
| 8 19 | 19 22.37 | −31 57.6 | 1.154 | 2.039 | 18.4 | 17.3 |

**255647** 2006 $QA_{19}$ 7 17.9 282°.33 1°.7/18.8 17

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|---|---|---|---|---|---|---|
| 6 10 | 20 15.55 | −14 11.5 | 1.497 | 2.338 | 17.5 | 20.3 |
| 6 20 | 20 12.22 | −14 36.8 | 1.412 | 2.328 | 13.9 | 20.1 |
| 6 30 | 20 6.10 | −15 17.5 | 1.347 | 2.319 | 9.7 | 19.8 |
| 7 10 | 19 57.76 | −16 11.4 | 1.304 | 2.309 | 4.9 | 19.5 |
| 7 20 | 19 48.13 | −17 14.1 | 1.285 | 2.300 | 1.8 | 19.3 |
| 7 30 | 19 38.49 | −18 19.9 | 1.292 | 2.290 | 6.2 | 19.5 |
| 8 9 | 19 30.20 | −19 23.0 | 1.323 | 2.281 | 11.0 | 19.8 |
| 8 19 | 19 24.31 | −20 19.4 | 1.377 | 2.271 | 15.4 | 20.0 |

**278540** 2008 $EX_{87}$ 7 17.9 31°.63 6°.3/14.8 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 16.96 | −35 17.0 | 1.902 | 2.746 | 14.2 | 19.7 |
| 6 20 | 20 12.92 | −36 26.3 | 1.842 | 2.755 | 11.4 | 19.5 |
| 6 30 | 20 6.27 | −37 31.7 | 1.804 | 2.764 | 8.6 | 19.4 |
| 7 10 | 19 57.69 | −38 26.4 | 1.790 | 2.773 | 6.6 | 19.3 |
| 7 20 | 19 48.19 | −39 4.7 | 1.801 | 2.783 | 6.7 | 19.3 |
| 7 30 | 19 38.99 | −39 23.0 | 1.837 | 2.793 | 8.6 | 19.4 |
| 8 9 | 19 31.25 | −39 21.6 | 1.898 | 2.804 | 11.3 | 19.6 |
| 8 19 | 19 25.83 | −39 2.9 | 1.979 | 2.815 | 13.9 | 19.8 |

**330616** 2008 $DN_{85}$ 7 18.0 62°.91 0°.1/17.9 17

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|---|---|---|---|---|---|---|
| 6 10 | 20 18.14 | −19 7.8 | 1.427 | 2.276 | 17.7 | 21.1 |
| 6 20 | 20 14.03 | −19 30.3 | 1.368 | 2.291 | 13.8 | 20.9 |
| 6 30 | 20 7.08 | −20 2.1 | 1.328 | 2.305 | 9.2 | 20.6 |
| 7 10 | 19 58.06 | −20 39.2 | 1.311 | 2.320 | 4.2 | 20.4 |
| 7 20 | 19 48.11 | −21 16.9 | 1.319 | 2.335 | 1.1 | 20.2 |
| 7 30 | 19 38.58 | −21 50.6 | 1.353 | 2.350 | 6.1 | 20.6 |
| 8 9 | 19 30.74 | −22 17.6 | 1.411 | 2.365 | 10.7 | 20.9 |
| 8 19 | 19 25.45 | −22 36.6 | 1.490 | 2.381 | 14.7 | 21.2 |

**504875** 2010 $VR_{78}$ 7 18.0 244°.33 1°.2/17.5 17

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|---|---|---|---|---|---|---|
| 6 10 | 20 19.58 | −21 35.4 | 1.798 | 2.634 | 15.2 | 22.5 |
| 6 20 | 20 15.06 | −22 6.8 | 1.703 | 2.620 | 11.9 | 22.3 |
| 6 30 | 20 7.87 | −22 45.5 | 1.630 | 2.605 | 8.0 | 22.0 |
| 7 10 | 19 58.54 | −23 27.6 | 1.581 | 2.589 | 3.7 | 21.7 |
| 7 20 | 19 47.95 | −24 8.2 | 1.558 | 2.573 | 1.7 | 21.5 |
| 7 30 | 19 37.32 | −24 43.0 | 1.563 | 2.556 | 6.0 | 21.8 |
| 8 9 | 19 27.90 | −25 9.1 | 1.593 | 2.539 | 10.4 | 22.0 |
| 8 19 | 19 20.71 | −25 25.6 | 1.646 | 2.521 | 14.4 | 22.2 |

**137740** 1999 $XN_{131}$ 7 18.0 295°.95 4°.8/15.9 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 17.36 | −27 36.9 | 1.439 | 2.300 | 17.0 | 20.2 |
| 6 20 | 20 14.20 | −28 43.5 | 1.354 | 2.283 | 13.5 | 19.9 |
| 6 30 | 20 7.77 | −29 56.2 | 1.289 | 2.266 | 9.4 | 19.7 |
| 7 10 | 19 58.66 | −31 7.4 | 1.247 | 2.250 | 5.7 | 19.4 |
| 7 20 | 19 47.91 | −32 8.6 | 1.229 | 2.233 | 5.3 | 19.3 |
| 7 30 | 19 37.08 | −32 52.6 | 1.235 | 2.217 | 8.9 | 19.5 |
| 8 9 | 19 27.84 | −33 16.2 | 1.264 | 2.201 | 13.3 | 19.7 |
| 8 19 | 19 21.44 | −33 20.2 | 1.313 | 2.185 | 17.4 | 19.9 |

**479283** 2013 $GO_{39}$ 7 18.0 160°.31 5°.7/22.1 18

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|---|---|---|---|---|---|---|
| 6 10 | 20 12.74 | + 1 15.4 | 3.036 | 3.771 | 11.9 | 22.5 |
| 6 20 | 20 8.34 | + 1 30.9 | 2.950 | 3.778 | 10.1 | 22.4 |
| 6 30 | 20 2.59 | + 1 33.1 | 2.886 | 3.784 | 8.3 | 22.3 |
| 7 10 | 19 55.87 | + 1 21.3 | 2.846 | 3.789 | 6.6 | 22.2 |
| 7 20 | 19 48.67 | + 0 55.6 | 2.832 | 3.794 | 5.7 | 22.1 |
| 7 30 | 19 41.56 | + 0 17.3 | 2.845 | 3.799 | 6.1 | 22.1 |
| 8 9 | 19 35.11 | − 0 31.1 | 2.886 | 3.803 | 7.5 | 22.2 |
| 8 19 | 19 29.78 | − 1 26.4 | 2.953 | 3.807 | 9.3 | 22.4 |