| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **99180** 2001 $FJ_{176}$ | | | 8 9.9 78°.07 | 4°.2/ 5.9 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.11 | −26 56.9 | 2.290 | 3.192 | 9.9 | 19.2 |
| 7 20 | 21 35.68 | −27 57.7 | 2.238 | 3.196 | 7.2 | 19.0 |
| 7 30 | 21 28.67 | −28 55.8 | 2.211 | 3.200 | 4.9 | 18.9 |
| 8 9 | 21 20.77 | −29 45.7 | 2.211 | 3.204 | 4.4 | 18.8 |
| 8 19 | 21 12.78 | −30 23.1 | 2.238 | 3.208 | 6.2 | 19.0 |
| 8 29 | 21 5.56 | −30 45.1 | 2.292 | 3.212 | 8.8 | 19.1 |
| 9 8 | 20 59.85 | −30 51.3 | 2.370 | 3.216 | 11.4 | 19.3 |
| 9 18 | 20 56.13 | −30 42.7 | 2.468 | 3.220 | 13.6 | 19.5 |
| **119907** 2002 $EJ_{12}$ | | | 8 9.9 119°.36 | 1°.3/11.1 17 | | |
| 7 10 | 21 43.10 | − 9 34.9 | 1.982 | 2.859 | 12.4 | 20.1 |
| 7 20 | 21 37.06 | −10 3.2 | 1.926 | 2.874 | 8.9 | 19.9 |
| 7 30 | 21 29.40 | −10 42.3 | 1.894 | 2.888 | 5.1 | 19.7 |
| 8 9 | 21 20.84 | −11 28.3 | 1.889 | 2.901 | 1.6 | 19.5 |
| 8 19 | 21 12.23 | −12 16.7 | 1.912 | 2.914 | 3.5 | 19.7 |
| 8 29 | 21 4.49 | −13 3.0 | 1.963 | 2.927 | 7.2 | 19.9 |
| 9 8 | 20 58.36 | −13 43.4 | 2.040 | 2.939 | 10.6 | 20.2 |
| 9 18 | 20 54.32 | −14 15.6 | 2.138 | 2.951 | 13.5 | 20.4 |
| **72280** 2001 $BJ_{2}$ | | | 8 9.9 36°.47 | 8°.5/15.4 18 | | |
| 7 10 | 21 42.44 | + 4 16.6 | 1.519 | 2.356 | 17.5 | 18.5 |
| 7 20 | 21 36.98 | + 5 9.4 | 1.464 | 2.366 | 14.4 | 18.3 |
| 7 30 | 21 29.50 | + 5 38.0 | 1.429 | 2.377 | 11.3 | 18.2 |
| 8 9 | 21 20.85 | + 5 41.2 | 1.416 | 2.388 | 9.0 | 18.1 |
| 8 19 | 21 12.10 | + 5 20.4 | 1.426 | 2.399 | 8.6 | 18.1 |
| 8 29 | 21 4.38 | + 4 40.3 | 1.461 | 2.411 | 10.4 | 18.2 |
| 9 8 | 20 58.61 | + 3 48.2 | 1.518 | 2.424 | 13.2 | 18.4 |
| 9 18 | 20 55.38 | + 2 51.2 | 1.595 | 2.436 | 16.0 | 18.6 |
| **349370** 2007 $VW_{274}$ | | | 8 9.9 248°.72 | 1°.8/ 8.4 18 | | |
| 7 10 | 21 41.48 | −18 7.5 | 2.132 | 3.030 | 10.8 | 21.2 |
| 7 20 | 21 36.09 | −19 4.6 | 2.056 | 3.018 | 7.6 | 21.0 |
| 7 30 | 21 28.99 | −20 7.1 | 2.005 | 3.005 | 4.1 | 20.8 |
| 8 9 | 21 20.82 | −21 9.7 | 1.981 | 2.992 | 1.8 | 20.6 |
| 8 19 | 21 12.37 | −22 7.1 | 1.986 | 2.979 | 4.6 | 20.8 |
| 8 29 | 21 4.58 | −22 54.5 | 2.018 | 2.966 | 8.2 | 21.0 |
| 9 8 | 20 58.26 | −23 29.1 | 2.074 | 2.952 | 11.5 | 21.1 |
| 9 18 | 20 54.00 | −23 50.1 | 2.153 | 2.938 | 14.3 | 21.3 |
| **69225** 5043 $T_{-3}$ | | | 8 9.9 15°.76 | 5°.5/15.4 18 | | |
| 7 10 | 21 37.09 | + 3 22.1 | 1.917 | 2.753 | 14.5 | 18.9 |
| 7 20 | 21 32.97 | + 2 52.8 | 1.848 | 2.756 | 11.6 | 18.7 |
| 7 30 | 21 27.27 | + 2 0.9 | 1.800 | 2.759 | 8.6 | 18.6 |
| 8 9 | 21 20.66 | + 0 48.5 | 1.776 | 2.762 | 6.1 | 18.4 |
| 8 19 | 21 13.88 | − 0 40.1 | 1.778 | 2.766 | 5.7 | 18.4 |
| 8 29 | 21 7.82 | − 2 18.0 | 1.807 | 2.771 | 7.8 | 18.6 |
| 9 8 | 21 3.20 | − 3 57.8 | 1.862 | 2.776 | 10.7 | 18.7 |
| 9 18 | 21 0.55 | − 5 32.8 | 1.940 | 2.781 | 13.6 | 18.9 |
| **393010** 2012 $XM_{140}$ | | | 8 9.9 285°.21 | 3°.0/12.2 18 | | |
| 7 10 | 21 41.12 | − 6 3.0 | 1.837 | 2.710 | 13.4 | 21.3 |
| 7 20 | 21 35.90 | − 6 12.3 | 1.766 | 2.707 | 10.1 | 21.0 |
| 7 30 | 21 28.89 | − 6 36.1 | 1.717 | 2.704 | 6.4 | 20.8 |
| 8 9 | 21 20.81 | − 7 11.9 | 1.695 | 2.701 | 3.3 | 20.6 |
| 8 19 | 21 12.53 | − 7 55.8 | 1.698 | 2.698 | 4.2 | 20.7 |
| 8 29 | 21 5.02 | − 8 43.1 | 1.729 | 2.695 | 7.8 | 20.9 |
| 9 8 | 20 59.14 | − 9 28.8 | 1.784 | 2.693 | 11.4 | 21.1 |
| 9 18 | 20 55.46 | −10 9.0 | 1.860 | 2.690 | 14.6 | 21.3 |
| **337277** 2000 $UE_{92}$ | | | 8 9.9 274°.94 | 8°.5/15.8 18 | | |
| 7 10 | 21 41.73 | + 7 2.1 | 1.844 | 2.654 | 15.9 | 20.8 |
| 7 20 | 21 36.51 | + 7 39.1 | 1.755 | 2.637 | 13.5 | 20.6 |
| 7 30 | 21 29.33 | + 7 53.6 | 1.686 | 2.619 | 10.9 | 20.4 |
| 8 9 | 21 20.87 | + 7 43.8 | 1.640 | 2.601 | 9.0 | 20.3 |
| 8 19 | 21 11.97 | + 7 9.9 | 1.619 | 2.583 | 8.6 | 20.2 |
| 8 29 | 21 3.69 | + 6 15.4 | 1.622 | 2.565 | 10.2 | 20.2 |
| 9 8 | 20 56.98 | + 5 6.8 | 1.649 | 2.546 | 12.8 | 20.4 |
| 9 18 | 20 52.56 | + 3 51.5 | 1.697 | 2.528 | 15.7 | 20.5 |
| **443681** 2015 $KS_{14}$ | | | 8 10.0 55°.66 | 0°.0/10.0 16 | | |
| 7 10 | 21 40.79 | −11 53.9 | 1.598 | 2.495 | 13.7 | 20.9 |
| 7 20 | 21 35.73 | −12 54.2 | 1.551 | 2.511 | 9.7 | 20.7 |
| 7 30 | 21 28.78 | −14 6.1 | 1.527 | 2.526 | 5.2 | 20.5 |
| 8 9 | 21 20.80 | −15 23.1 | 1.528 | 2.542 | 0.5 | 20.1 |
| 8 19 | 21 12.78 | −16 38.1 | 1.557 | 2.558 | 4.2 | 20.5 |
| 8 29 | 21 5.79 | −17 44.6 | 1.611 | 2.575 | 8.5 | 20.8 |
| 9 8 | 21 0.66 | −18 38.2 | 1.689 | 2.591 | 12.3 | 21.0 |
| 9 18 | 20 57.93 | −19 17.0 | 1.788 | 2.608 | 15.5 | 21.3 |
| **357550** 2004 $SW_{43}$ | | | 8 10.0 21°.61 | 7°.0/16.7 18 | | |
| 7 10 | 21 37.08 | + 6 36.6 | 1.857 | 2.678 | 15.5 | 20.0 |
| 7 20 | 21 32.99 | + 6 25.8 | 1.792 | 2.683 | 12.8 | 19.9 |
| 7 30 | 21 27.29 | + 5 50.3 | 1.746 | 2.689 | 10.0 | 19.7 |
| 8 9 | 21 20.67 | + 4 51.1 | 1.724 | 2.696 | 7.7 | 19.6 |
| 8 19 | 21 13.91 | + 3 31.8 | 1.726 | 2.703 | 7.0 | 19.6 |
| 8 29 | 21 7.89 | + 1 58.7 | 1.754 | 2.711 | 8.5 | 19.7 |
| 9 8 | 21 3.38 | + 0 19.6 | 1.808 | 2.719 | 11.1 | 19.8 |
| 9 18 | 21 0.87 | − 1 18.0 | 1.883 | 2.727 | 13.8 | 20.0 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **393175** 2013 $CK_{66}$ | | | 8 10.0 29°.85 | 1°.5/11.3 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 38.55 | − 8 3.9 | 1.899 | 2.781 | 12.6 | 20.4 |
| 7 20 | 21 34.01 | − 8 50.8 | 1.836 | 2.785 | 9.2 | 20.2 |
| 7 30 | 21 27.84 | − 9 51.5 | 1.797 | 2.790 | 5.4 | 19.9 |
| 8 9 | 21 20.72 | −11 1.5 | 1.783 | 2.795 | 1.8 | 19.7 |
| 8 19 | 21 13.47 | −12 15.3 | 1.797 | 2.800 | 3.5 | 19.8 |
| 8 29 | 21 6.97 | −13 26.9 | 1.838 | 2.805 | 7.4 | 20.1 |
| 9 8 | 21 1.99 | −14 31.1 | 1.904 | 2.811 | 10.9 | 20.3 |
| 9 18 | 20 59.06 | −15 24.6 | 1.993 | 2.816 | 13.9 | 20.5 |
| **402398** 2005 $YX_{114}$ | | | 8 10.0 349°.61 | 2°.9/ 7.3 18 | | |
| 7 10 | 21 39.77 | −21 35.7 | 2.122 | 3.027 | 10.5 | 20.3 |
| 7 20 | 21 34.84 | −22 36.5 | 2.061 | 3.025 | 7.4 | 20.1 |
| 7 30 | 21 28.28 | −23 39.2 | 2.026 | 3.024 | 4.3 | 19.9 |
| 8 9 | 21 20.78 | −24 38.3 | 2.017 | 3.023 | 3.0 | 19.8 |
| 8 19 | 21 13.12 | −25 28.6 | 2.036 | 3.022 | 5.3 | 20.0 |
| 8 29 | 21 6.20 | −26 6.3 | 2.081 | 3.021 | 8.4 | 20.2 |
| 9 8 | 21 0.78 | −26 29.4 | 2.150 | 3.020 | 11.4 | 20.4 |
| 9 18 | 20 57.37 | −26 38.0 | 2.241 | 3.020 | 14.0 | 20.6 |
| **447358** 2005 $YR_{260}$ | | | 8 10.0 328°.45 | 6°.6/12.7 17 | | |
| 7 10 | 21 42.68 | − 2 28.4 | 1.606 | 2.470 | 15.5 | 20.1 |
| 7 20 | 21 37.44 | − 1 17.0 | 1.515 | 2.442 | 12.4 | 19.9 |
| 7 30 | 21 29.96 | − 0 18.8 | 1.445 | 2.416 | 9.2 | 19.6 |
| 8 9 | 21 20.96 | + 0 23.9 | 1.399 | 2.389 | 6.8 | 19.4 |
| 8 19 | 21 11.41 | + 0 50.2 | 1.378 | 2.364 | 7.3 | 19.4 |
| 8 29 | 21 2.53 | + 1 1.1 | 1.382 | 2.340 | 10.2 | 19.5 |
| 9 8 | 20 55.46 | + 1 0.1 | 1.409 | 2.317 | 13.9 | 19.7 |
| 9 18 | 20 50.99 | + 0 51.9 | 1.455 | 2.295 | 17.4 | 19.8 |
| **311955** 2007 $DT_{28}$ | | | 8 10.0 13°.81 | 1°.3/11.2 18 | | |
| 7 10 | 21 38.36 | − 8 54.1 | 2.094 | 2.975 | 11.7 | 20.4 |
| 7 20 | 21 33.78 | − 9 35.0 | 2.026 | 2.976 | 8.5 | 20.2 |
| 7 30 | 21 27.70 | −10 27.8 | 1.983 | 2.977 | 4.9 | 20.0 |
| 8 9 | 21 20.73 | −11 28.5 | 1.966 | 2.978 | 1.5 | 19.7 |
| 8 19 | 21 13.61 | −12 32.4 | 1.977 | 2.980 | 3.3 | 19.9 |
| 8 29 | 21 7.17 | −13 34.5 | 2.016 | 2.981 | 6.9 | 20.1 |
| 9 8 | 21 2.11 | −14 30.4 | 2.080 | 2.983 | 10.3 | 20.3 |
| 9 18 | 20 58.93 | −15 16.9 | 2.166 | 2.985 | 13.1 | 20.5 |
| **94123** 2000 $YN_{108}$ | | | 8 10.0 246°.14 | 0°.2/ 9.9 18 | | |
| 7 10 | 21 44.03 | −14 37.3 | 2.101 | 2.988 | 11.4 | 20.3 |
| 7 20 | 21 37.92 | −15 0.8 | 2.017 | 2.972 | 8.1 | 20.1 |
| 7 30 | 21 30.01 | −15 31.1 | 1.957 | 2.955 | 4.4 | 19.8 |
| 8 9 | 21 20.95 | −16 4.4 | 1.924 | 2.938 | 0.4 | 19.4 |
| 8 19 | 21 11.59 | −16 36.7 | 1.920 | 2.920 | 3.8 | 19.7 |
| 8 29 | 21 2.89 | −17 4.2 | 1.944 | 2.902 | 7.7 | 19.9 |
| 9 8 | 20 55.70 | −17 24.1 | 1.992 | 2.883 | 11.3 | 20.1 |
| 9 18 | 20 50.65 | −17 35.0 | 2.063 | 2.863 | 14.4 | 20.3 |
| **474604** 2004 $RR_{236}$ | | | 8 10.0 332°.53 | 3°.0/11.8 18 | | |
| 7 10 | 21 38.62 | − 7 49.4 | 1.242 | 2.145 | 16.5 | 21.0 |
| 7 20 | 21 34.89 | − 7 53.6 | 1.169 | 2.127 | 12.4 | 20.7 |
| 7 30 | 21 28.68 | − 8 16.3 | 1.115 | 2.110 | 7.7 | 20.4 |
| 8 9 | 21 20.84 | − 8 54.9 | 1.083 | 2.093 | 3.4 | 20.1 |
| 8 19 | 21 12.55 | − 9 44.1 | 1.075 | 2.078 | 5.1 | 20.2 |
| 8 29 | 21 5.23 | −10 36.9 | 1.090 | 2.064 | 10.1 | 20.4 |
| 9 8 | 21 0.11 | −11 26.1 | 1.125 | 2.052 | 15.0 | 20.7 |
| 9 18 | 20 57.99 | −12 6.1 | 1.180 | 2.040 | 19.3 | 20.9 |
| **513704** 2012 $CB_{43}$ | | | 8 10.0 219°.63 | 2°.4/ 7.6 18 | | |
| 7 10 | 21 40.13 | −20 55.1 | 2.482 | 3.380 | 9.4 | 21.5 |
| 7 20 | 21 34.93 | −21 52.4 | 2.414 | 3.375 | 6.6 | 21.4 |
| 7 30 | 21 28.29 | −22 51.9 | 2.373 | 3.371 | 3.8 | 21.2 |
| 8 9 | 21 20.79 | −23 48.9 | 2.359 | 3.366 | 2.4 | 21.1 |
| 8 19 | 21 13.12 | −24 38.9 | 2.374 | 3.361 | 4.5 | 21.2 |
| 8 29 | 21 6.06 | −25 18.4 | 2.416 | 3.355 | 7.5 | 21.4 |
| 9 8 | 21 0.28 | −25 45.5 | 2.484 | 3.350 | 10.2 | 21.6 |
| 9 18 | 20 56.27 | −25 59.9 | 2.574 | 3.344 | 12.6 | 21.7 |
| **117391** 2004 $YD_{31}$ | | | 8 10.0 279°.16 | 0°.7/ 9.4 18 | | |
| 7 10 | 21 40.75 | −13 49.6 | 1.764 | 2.662 | 12.6 | 19.8 |
| 7 20 | 21 35.85 | −14 51.7 | 1.689 | 2.650 | 9.0 | 19.6 |
| 7 30 | 21 28.98 | −16 5.0 | 1.637 | 2.638 | 4.8 | 19.3 |
| 8 9 | 21 20.86 | −17 23.6 | 1.612 | 2.626 | 0.7 | 19.0 |
| 8 19 | 21 12.41 | −18 40.6 | 1.614 | 2.613 | 4.4 | 19.2 |
| 8 29 | 21 4.71 | −19 49.3 | 1.642 | 2.601 | 8.8 | 19.5 |
| 9 8 | 20 58.70 | −20 45.0 | 1.694 | 2.589 | 12.7 | 19.7 |
| 9 18 | 20 55.06 | −21 25.3 | 1.767 | 2.576 | 16.1 | 19.9 |
| **330518** 2007 $SH_{5}$ | | | 8 10.0 337°.83 | 8°.2/ 5.5 18 | | |
| 7 10 | 21 40.63 | −27 39.9 | 0.929 | 1.867 | 17.1 | 19.2 |
| 7 20 | 21 37.12 | −28 57.4 | 0.875 | 1.850 | 12.8 | 18.9 |
| 7 30 | 21 30.17 | −30 12.3 | 0.839 | 1.835 | 9.1 | 18.7 |
| 8 9 | 21 20.99 | −31 11.0 | 0.824 | 1.821 | 8.5 | 18.6 |
| 8 19 | 21 11.35 | −31 42.0 | 0.828 | 1.809 | 11.7 | 18.7 |
| 8 29 | 21 3.34 | −31 39.3 | 0.852 | 1.798 | 16.4 | 18.9 |
| 9 8 | 20 58.58 | −31 4.2 | 0.892 | 1.789 | 20.9 | 19.1 |
| 9 18 | 20 57.87 | −30 2.0 | 0.946 | 1.782 | 24.8 | 19.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **330974** 2009 $TR_1$ | | | 8 10.0 334°.07 | 10°.8/17.3 16 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 38.54 | + 8 31.3 | 1.312 | 2.145 | 20.0 | 20.5 |
| 7 20 | 21 34.70 | + 9 11.5 | 1.240 | 2.134 | 17.1 | 20.3 |
| 7 30 | 21 28.53 | + 9 19.6 | 1.186 | 2.124 | 14.1 | 20.1 |
| 8 9 | 21 20.83 | + 8 52.7 | 1.151 | 2.115 | 11.6 | 19.9 |
| 8 19 | 21 12.72 | + 7 51.6 | 1.138 | 2.107 | 10.8 | 19.9 |
| 8 29 | 21 5.51 | + 6 22.7 | 1.146 | 2.099 | 12.3 | 19.9 |
| 9 8 | 21 0.39 | + 4 36.6 | 1.175 | 2.092 | 15.3 | 20.1 |
| 9 18 | 20 58.12 | + 2 45.0 | 1.224 | 2.086 | 18.6 | 20.3 |
| **9578** Klyazma | | | 8 10.0 165°.02 | 0°.9/10.7 18 | | R |
| 7 10 | 21 44.67 | −11 0.7 | 1.888 | 2.770 | 12.7 | 18.7 |
| 7 20 | 21 38.34 | −11 27.0 | 1.824 | 2.775 | 9.1 | 18.5 |
| 7 30 | 21 30.18 | −12 3.5 | 1.784 | 2.779 | 5.1 | 18.3 |
| 8 9 | 21 20.97 | −12 46.2 | 1.770 | 2.783 | 1.2 | 18.0 |
| 8 19 | 21 11.63 | −13 30.6 | 1.784 | 2.786 | 3.7 | 18.2 |
| 8 29 | 21 3.15 | −14 12.1 | 1.826 | 2.788 | 7.8 | 18.5 |
| 9 8 | 20 56.39 | −14 46.9 | 1.892 | 2.790 | 11.4 | 18.7 |
| 9 18 | 20 51.90 | −15 12.8 | 1.981 | 2.791 | 14.5 | 18.9 |
| **313057** 2000 $SU_{33}$ | | | 8 10.0 265°.81 | 4°.4/ 6.6 18 | | |
| 7 10 | 21 43.91 | −27 18.3 | 2.134 | 3.034 | 10.6 | 20.3 |
| 7 20 | 21 37.80 | −28 0.1 | 2.069 | 3.027 | 7.8 | 20.1 |
| 7 30 | 21 29.90 | −28 38.5 | 2.030 | 3.020 | 5.2 | 20.0 |
| 8 9 | 21 20.95 | −29 8.3 | 2.017 | 3.012 | 4.4 | 19.9 |
| 8 19 | 21 11.86 | −29 25.1 | 2.031 | 3.005 | 6.4 | 20.0 |
| 8 29 | 21 3.60 | −29 26.4 | 2.071 | 2.997 | 9.3 | 20.2 |
| 9 8 | 20 57.03 | −29 12.4 | 2.136 | 2.990 | 12.1 | 20.4 |
| 9 18 | 20 52.68 | −28 44.6 | 2.221 | 2.983 | 14.6 | 20.5 |
| **392705** 2012 $BJ_{20}$ | | | 8 10.0 163°.53 | 4°.2/ 6.4 18 | | |
| 7 10 | 21 43.23 | −27 58.2 | 2.396 | 3.293 | 9.8 | 21.0 |
| 7 20 | 21 37.12 | −28 39.5 | 2.339 | 3.295 | 7.2 | 20.9 |
| 7 30 | 21 29.45 | −29 16.9 | 2.308 | 3.296 | 4.9 | 20.7 |
| 8 9 | 21 20.91 | −29 45.8 | 2.304 | 3.297 | 4.2 | 20.7 |
| 8 19 | 21 12.31 | −30 2.4 | 2.328 | 3.299 | 5.9 | 20.8 |
| 8 29 | 21 4.51 | −30 5.0 | 2.379 | 3.300 | 8.5 | 21.0 |
| 9 8 | 20 58.21 | −29 53.5 | 2.454 | 3.301 | 11.0 | 21.1 |
| 9 18 | 20 53.91 | −29 29.3 | 2.550 | 3.301 | 13.2 | 21.3 |
| **294705** 2008 $BY_{14}$ | | | 8 10.0 119°.70 | 0°.7/ 9.6 17 | | |
| 7 10 | 21 45.46 | −14 44.9 | 1.599 | 2.496 | 13.8 | 21.5 |
| 7 20 | 21 39.08 | −15 28.1 | 1.548 | 2.508 | 9.7 | 21.3 |
| 7 30 | 21 30.64 | −16 19.6 | 1.519 | 2.519 | 5.1 | 21.0 |
| 8 9 | 21 21.04 | −17 13.3 | 1.517 | 2.530 | 0.7 | 20.7 |
| 8 19 | 21 11.39 | −18 3.2 | 1.541 | 2.541 | 4.5 | 21.1 |
| 8 29 | 21 2.85 | −18 44.2 | 1.592 | 2.551 | 9.0 | 21.3 |
| 9 8 | 20 56.37 | −19 13.1 | 1.666 | 2.561 | 12.9 | 21.6 |
| 9 18 | 20 52.49 | −19 29.0 | 1.761 | 2.570 | 16.1 | 21.8 |
| **328188** 2008 $DY_{70}$ | | | 8 10.0 85°.27 | 8°.7/ 4.3 17 | | |
| 7 10 | 21 48.61 | −33 44.7 | 1.448 | 2.355 | 14.3 | 20.5 |
| 7 20 | 21 41.75 | −35 10.5 | 1.412 | 2.363 | 11.2 | 20.3 |
| 7 30 | 21 32.21 | −36 24.5 | 1.398 | 2.372 | 9.0 | 20.2 |
| 8 9 | 21 21.18 | −37 16.5 | 1.408 | 2.380 | 9.0 | 20.2 |
| 8 19 | 21 10.19 | −37 40.2 | 1.441 | 2.389 | 11.0 | 20.4 |
| 8 29 | 21 0.76 | −37 34.2 | 1.497 | 2.398 | 13.9 | 20.6 |
| 9 8 | 20 54.05 | −37 1.7 | 1.574 | 2.406 | 16.8 | 20.8 |
| 9 18 | 20 50.62 | −36 8.2 | 1.667 | 2.415 | 19.3 | 21.0 |
| **49314** 1998 $VN_{19}$ | | | 8 10.0 215°.80 | 3°.6/ 7.2 18 | | |
| 7 10 | 21 45.54 | −22 52.4 | 1.905 | 2.806 | 11.7 | 19.5 |
| 7 20 | 21 39.15 | −23 53.8 | 1.838 | 2.799 | 8.3 | 19.2 |
| 7 30 | 21 30.73 | −24 56.5 | 1.795 | 2.792 | 5.0 | 19.0 |
| 8 9 | 21 21.06 | −25 53.9 | 1.780 | 2.784 | 3.7 | 18.9 |
| 8 19 | 21 11.13 | −26 39.8 | 1.792 | 2.775 | 6.2 | 19.1 |
| 8 29 | 21 2.07 | −27 10.1 | 1.830 | 2.766 | 9.7 | 19.3 |
| 9 8 | 20 54.84 | −27 23.5 | 1.892 | 2.756 | 13.0 | 19.4 |
| 9 18 | 20 50.07 | −27 20.6 | 1.974 | 2.746 | 15.9 | 19.6 |
| **424242** 2007 $RW_{214}$ | | | 8 10.0 106°.31 | 2°.5/ 8.7 17 | | |
| 7 10 | 21 49.77 | −20 23.4 | 1.390 | 2.295 | 14.9 | 20.5 |
| 7 20 | 21 42.33 | −20 47.1 | 1.342 | 2.306 | 10.5 | 20.3 |
| 7 30 | 21 32.43 | −21 12.6 | 1.317 | 2.317 | 5.7 | 20.1 |
| 8 9 | 21 21.21 | −21 33.4 | 1.317 | 2.328 | 2.5 | 19.9 |
| 8 19 | 21 10.04 | −21 44.4 | 1.343 | 2.339 | 5.9 | 20.2 |
| 8 29 | 21 0.35 | −21 42.7 | 1.394 | 2.349 | 10.4 | 20.4 |
| 9 8 | 20 53.20 | −21 27.9 | 1.467 | 2.359 | 14.5 | 20.7 |
| 9 18 | 20 49.14 | −21 1.6 | 1.560 | 2.368 | 17.9 | 21.0 |
| **75637** 2000 $AQ_{53}$ | | | 8 10.0 132°.58 | 2°.1/ 8.4 18 | | |
| 7 10 | 21 43.89 | −17 32.3 | 1.579 | 2.484 | 13.4 | 18.7 |
| 7 20 | 21 38.11 | −18 38.3 | 1.524 | 2.489 | 9.4 | 18.5 |
| 7 30 | 21 30.19 | −19 51.1 | 1.493 | 2.493 | 5.0 | 18.3 |
| 8 9 | 21 21.01 | −21 3.1 | 1.487 | 2.498 | 2.2 | 18.1 |
| 8 19 | 21 11.67 | −22 7.1 | 1.507 | 2.502 | 5.5 | 18.3 |
| 8 29 | 21 3.39 | −22 57.3 | 1.554 | 2.506 | 9.8 | 18.6 |
| 9 8 | 20 57.16 | −23 30.8 | 1.623 | 2.510 | 13.6 | 18.8 |
| 9 18 | 20 53.57 | −23 47.3 | 1.713 | 2.514 | 16.8 | 19.1 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **282239** 2002 $CP_{304}$ | | | 8 10.0 141°.24 | 4°.3/13.9 17 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.86 | − 0 3.8 | 2.130 | 2.969 | 13.1 | 21.2 |
| 7 20 | 21 36.17 | − 0 25.2 | 2.065 | 2.980 | 10.2 | 21.0 |
| 7 30 | 21 28.96 | − 1 4.1 | 2.022 | 2.990 | 7.2 | 20.8 |
| 8 9 | 21 20.89 | − 1 58.0 | 2.006 | 3.000 | 4.7 | 20.7 |
| 8 19 | 21 12.71 | − 3 3.3 | 2.017 | 3.009 | 4.7 | 20.7 |
| 8 29 | 21 5.26 | − 4 14.7 | 2.056 | 3.017 | 7.1 | 20.9 |
| 9 8 | 20 59.24 | − 5 26.6 | 2.122 | 3.025 | 10.1 | 21.1 |
| 9 18 | 20 55.15 | − 6 34.1 | 2.211 | 3.033 | 12.8 | 21.3 |
| **88135** 2000 $WD_{165}$ | | | 8 10.0 90°.29 | 1°.6/11.6 18 | | |
| 7 10 | 21 39.12 | − 7 22.8 | 2.205 | 3.077 | 11.5 | 19.5 |
| 7 20 | 21 34.22 | − 8 7.9 | 2.144 | 3.088 | 8.4 | 19.3 |
| 7 30 | 21 27.91 | − 9 5.2 | 2.107 | 3.098 | 5.0 | 19.1 |
| 8 9 | 21 20.80 | −10 10.8 | 2.097 | 3.108 | 1.9 | 18.9 |
| 8 19 | 21 13.60 | −11 20.0 | 2.116 | 3.118 | 3.2 | 19.0 |
| 8 29 | 21 7.07 | −12 27.8 | 2.162 | 3.127 | 6.6 | 19.2 |
| 9 8 | 21 1.89 | −13 29.8 | 2.235 | 3.137 | 9.7 | 19.5 |
| 9 18 | 20 58.50 | −14 22.8 | 2.331 | 3.147 | 12.4 | 19.7 |
| **169843** 2002 $RT_8$ | | | 8 10.0 294°.37 | 4°.6/ 6.5 18 | | |
| 7 10 | 21 43.83 | −25 26.7 | 1.849 | 2.755 | 11.7 | 19.8 |
| 7 20 | 21 38.22 | −26 25.4 | 1.764 | 2.726 | 8.6 | 19.5 |
| 7 30 | 21 30.38 | −27 24.7 | 1.703 | 2.697 | 5.6 | 19.3 |
| 8 9 | 21 21.05 | −28 17.2 | 1.668 | 2.667 | 4.7 | 19.1 |
| 8 19 | 21 11.24 | −28 56.6 | 1.660 | 2.638 | 7.2 | 19.2 |
| 8 29 | 21 2.15 | −29 18.2 | 1.677 | 2.608 | 10.7 | 19.4 |
| 9 8 | 20 54.89 | −29 20.5 | 1.716 | 2.578 | 14.3 | 19.5 |
| 9 18 | 20 50.22 | −29 4.7 | 1.775 | 2.548 | 17.4 | 19.7 |
| **205004** 1997 $AG_{10}$ | | | 8 10.0 305°.01 | 0°.9/10.5 18 | | |
| 7 10 | 21 42.36 | −12 9.3 | 1.529 | 2.427 | 14.2 | 20.6 |
| 7 20 | 21 37.38 | −12 22.9 | 1.439 | 2.398 | 10.4 | 20.3 |
| 7 30 | 21 30.03 | −12 48.2 | 1.371 | 2.369 | 5.9 | 19.9 |
| 8 9 | 21 21.04 | −13 21.8 | 1.328 | 2.341 | 1.2 | 19.5 |
| 8 19 | 21 11.47 | −13 58.8 | 1.309 | 2.312 | 4.5 | 19.7 |
| 8 29 | 21 2.61 | −14 33.6 | 1.316 | 2.284 | 9.6 | 19.9 |
| 9 8 | 20 55.70 | −15 1.6 | 1.346 | 2.256 | 14.3 | 20.1 |
| 9 18 | 20 51.56 | −15 19.6 | 1.395 | 2.228 | 18.3 | 20.3 |
| **486760** 2014 $GJ_2$ | | | 8 10.0 23°.69 | 1°.4/ 8.9 18 | | |
| 7 10 | 21 41.50 | −17 22.2 | 1.866 | 2.768 | 11.9 | 21.1 |
| 7 20 | 21 36.19 | −18 3.9 | 1.806 | 2.769 | 8.3 | 20.9 |
| 7 30 | 21 29.08 | −18 51.0 | 1.769 | 2.770 | 4.4 | 20.6 |
| 8 9 | 21 20.94 | −19 38.1 | 1.759 | 2.772 | 1.4 | 20.4 |
| 8 19 | 21 12.66 | −20 20.3 | 1.776 | 2.773 | 4.5 | 20.7 |
| 8 29 | 21 5.24 | −20 53.2 | 1.819 | 2.775 | 8.4 | 20.9 |
| 9 8 | 20 59.51 | −21 14.4 | 1.887 | 2.777 | 11.9 | 21.1 |
| 9 18 | 20 56.02 | −21 23.2 | 1.975 | 2.779 | 14.8 | 21.3 |
| **474447** 2003 $QL_{109}$ | | | 8 10.0 327°.86 | 3°.4/ 8.2 18 | | |
| 7 10 | 21 43.56 | −22 16.1 | 1.390 | 2.306 | 14.1 | 20.4 |
| 7 20 | 21 38.30 | −22 41.9 | 1.321 | 2.290 | 10.1 | 20.2 |
| 7 30 | 21 30.49 | −23 8.9 | 1.274 | 2.275 | 5.8 | 19.9 |
| 8 9 | 21 21.09 | −23 30.5 | 1.251 | 2.260 | 3.5 | 19.7 |
| 8 19 | 21 11.36 | −23 40.7 | 1.253 | 2.246 | 6.6 | 19.8 |
| 8 29 | 21 2.76 | −23 35.9 | 1.278 | 2.233 | 11.2 | 20.1 |
| 9 8 | 20 56.48 | −23 15.2 | 1.325 | 2.221 | 15.4 | 20.3 |
| 9 18 | 20 53.26 | −22 40.0 | 1.390 | 2.210 | 19.1 | 20.5 |
| **224682** 2006 $AX_{71}$ | | | 8 10.0 243°.97 | 0°.5/10.5 18 | | |
| 7 10 | 21 39.62 | −12 11.5 | 2.411 | 3.294 | 10.3 | 21.1 |
| 7 20 | 21 34.56 | −12 37.9 | 2.337 | 3.289 | 7.3 | 20.9 |
| 7 30 | 21 28.12 | −13 11.9 | 2.288 | 3.285 | 4.1 | 20.6 |
| 8 9 | 21 20.85 | −13 50.3 | 2.266 | 3.279 | 0.7 | 20.4 |
| 8 19 | 21 13.43 | −14 29.6 | 2.273 | 3.274 | 3.1 | 20.6 |
| 8 29 | 21 6.59 | −15 6.4 | 2.307 | 3.269 | 6.4 | 20.8 |
| 9 8 | 21 0.99 | −15 37.6 | 2.368 | 3.264 | 9.5 | 21.0 |
| 9 18 | 20 57.12 | −16 1.4 | 2.452 | 3.258 | 12.2 | 21.1 |
| **257802** 2000 $EO_{71}$ | | | 8 10.0 201°.28 | 0°.1/ 9.9 18 | | |
| 7 10 | 21 44.41 | −13 26.4 | 1.827 | 2.717 | 12.7 | 21.3 |
| 7 20 | 21 38.32 | −14 3.2 | 1.758 | 2.714 | 9.0 | 21.1 |
| 7 30 | 21 30.28 | −14 49.2 | 1.712 | 2.710 | 4.9 | 20.8 |
| 8 9 | 21 21.06 | −15 39.6 | 1.693 | 2.706 | 0.4 | 20.5 |
| 8 19 | 21 11.62 | −16 29.1 | 1.701 | 2.702 | 4.0 | 20.8 |
| 8 29 | 21 3.02 | −17 12.6 | 1.737 | 2.697 | 8.3 | 21.0 |
| 9 8 | 20 56.18 | −17 46.6 | 1.797 | 2.691 | 12.1 | 21.3 |
| 9 18 | 20 51.71 | −18 9.4 | 1.879 | 2.685 | 15.3 | 21.5 |
| **395711** 2012 $TQ_{98}$ | | | 8 10.0 184°.21 | 3°.1/12.9 16 | | |
| 7 10 | 21 41.53 | − 3 20.0 | 2.518 | 3.364 | 11.1 | 22.4 |
| 7 20 | 21 35.83 | − 3 32.3 | 2.441 | 3.365 | 8.5 | 22.3 |
| 7 30 | 21 28.78 | − 3 57.0 | 2.389 | 3.364 | 5.7 | 22.1 |
| 8 9 | 21 20.93 | − 4 32.6 | 2.364 | 3.364 | 3.4 | 21.9 |
| 8 19 | 21 12.93 | − 5 16.1 | 2.367 | 3.362 | 3.8 | 22.0 |
| 8 29 | 21 5.49 | − 6 4.0 | 2.399 | 3.360 | 6.3 | 22.1 |
| 9 8 | 20 59.26 | − 6 52.3 | 2.458 | 3.357 | 9.1 | 22.3 |
| 9 18 | 20 54.71 | − 7 37.6 | 2.541 | 3.354 | 11.6 | 22.5 |

**464090** 2014 $WP_{334}$ 8 10.0 221°.16 2°.7/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.35 | − 6 14.3 | 1.469 | 2.351 | 15.7 | 21.5 |
| 7 20 | 21 37.91 | − 6 47.6 | 1.400 | 2.347 | 11.7 | 21.3 |
| 7 30 | 21 30.21 | − 7 40.1 | 1.352 | 2.343 | 7.2 | 21.0 |
| 8 9 | 21 21.07 | − 8 47.8 | 1.329 | 2.338 | 3.1 | 20.8 |
| 8 19 | 21 11.63 | −10 4.1 | 1.332 | 2.334 | 4.6 | 20.9 |
| 8 29 | 21 3.14 | −11 21.2 | 1.360 | 2.329 | 9.2 | 21.1 |
| 9 8 | 20 56.70 | −12 31.8 | 1.411 | 2.323 | 13.6 | 21.4 |
| 9 18 | 20 53.00 | −13 30.9 | 1.483 | 2.318 | 17.4 | 21.6 |

**442111** 2010 $TS_{157}$ 8 10.0 207°.34 4°.4/ 6.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.98 | −28 11.1 | 2.339 | 3.237 | 9.9 | 21.3 |
| 7 20 | 21 37.04 | −29 0.1 | 2.280 | 3.236 | 7.3 | 21.2 |
| 7 30 | 21 29.49 | −29 45.4 | 2.247 | 3.234 | 5.1 | 21.0 |
| 8 9 | 21 21.00 | −30 21.9 | 2.241 | 3.232 | 4.5 | 21.0 |
| 8 19 | 21 12.41 | −30 45.5 | 2.262 | 3.230 | 6.3 | 21.1 |
| 8 29 | 21 4.60 | −30 53.9 | 2.309 | 3.228 | 8.8 | 21.3 |
| 9 8 | 20 58.31 | −30 47.1 | 2.381 | 3.225 | 11.4 | 21.4 |
| 9 18 | 20 54.07 | −30 26.5 | 2.473 | 3.223 | 13.6 | 21.6 |

**308043** 2004 $TH_{10}$ 8 10.0 38°.54 29°.3/31.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 5 46.16 | +35 49.0 | 0.374 | 0.692 | 143.2 | 23.0 |
| 7 20 | 4 20.76 | +50 58.7 | 0.275 | 0.874 | 113.8 | 19.9 |
| 7 30 | 0 36.70 | +60 9.8 | 0.236 | 1.034 | 79.0 | 18.3 |
| 8 9 | 21 29.86 | +43 52.4 | 0.275 | 1.176 | 48.2 | 18.0 |
| 8 19 | 20 29.91 | +27 1.1 | 0.374 | 1.305 | 33.1 | 18.4 |
| 8 29 | 20 8.29 | +16 26.4 | 0.507 | 1.421 | 29.4 | 19.2 |
| 9 8 | 20 1.00 | + 9 49.4 | 0.661 | 1.527 | 29.8 | 19.9 |
| 9 18 | 20 0.82 | + 5 28.2 | 0.829 | 1.623 | 30.8 | 20.6 |

**269379** 2009 $OW_3$ 8 10.0 332°.08 4°.8/11.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.78 | − 8 27.4 | 1.623 | 2.498 | 14.8 | 19.0 |
| 7 20 | 21 41.78 | − 6 55.4 | 1.533 | 2.473 | 11.3 | 18.7 |
| 7 30 | 21 32.35 | − 5 28.5 | 1.465 | 2.449 | 7.6 | 18.4 |
| 8 9 | 21 21.30 | − 4 8.9 | 1.424 | 2.425 | 4.9 | 18.2 |
| 8 19 | 21 9.75 | − 2 58.7 | 1.409 | 2.402 | 6.1 | 18.2 |
| 8 29 | 20 59.01 | − 1 59.1 | 1.422 | 2.380 | 9.9 | 18.4 |
| 9 8 | 20 50.27 | − 1 9.4 | 1.459 | 2.360 | 13.9 | 18.6 |
| 9 18 | 20 44.32 | − 0 27.9 | 1.516 | 2.340 | 17.5 | 18.8 |

**400365** 2007 $VQ_{297}$ 8 10.0 321°.34 5°.4/ 5.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.39 | −24 26.4 | 1.586 | 2.502 | 12.7 | 19.6 |
| 7 20 | 21 35.92 | −26 10.8 | 1.523 | 2.490 | 9.2 | 19.4 |
| 7 30 | 21 29.18 | −27 57.8 | 1.485 | 2.479 | 6.1 | 19.2 |
| 8 9 | 21 20.99 | −29 37.5 | 1.472 | 2.468 | 5.6 | 19.2 |
| 8 19 | 21 12.43 | −31 0.6 | 1.484 | 2.457 | 8.3 | 19.3 |
| 8 29 | 21 4.78 | −32 0.7 | 1.521 | 2.447 | 11.9 | 19.5 |
| 9 8 | 20 59.15 | −32 35.4 | 1.579 | 2.438 | 15.4 | 19.7 |
| 9 18 | 20 56.25 | −32 45.9 | 1.655 | 2.429 | 18.4 | 19.9 |

**442288** 2011 $SX_8$ 8 10.0 341°.46 4°.9/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 36.90 | − 1 19.4 | 1.479 | 2.352 | 16.1 | 20.2 |
| 7 20 | 21 33.33 | − 1 37.6 | 1.406 | 2.341 | 12.5 | 19.9 |
| 7 30 | 21 27.74 | − 2 19.5 | 1.352 | 2.331 | 8.7 | 19.7 |
| 8 9 | 21 20.85 | − 3 22.9 | 1.322 | 2.322 | 5.4 | 19.5 |
| 8 19 | 21 13.66 | − 4 42.9 | 1.316 | 2.314 | 5.5 | 19.5 |
| 8 29 | 21 7.28 | − 6 11.5 | 1.334 | 2.306 | 9.0 | 19.6 |
| 9 8 | 21 2.72 | − 7 40.1 | 1.376 | 2.300 | 13.0 | 19.9 |
| 9 18 | 21 0.64 | − 9 1.2 | 1.438 | 2.294 | 16.7 | 20.1 |

**27890** 1996 $GG_{18}$ 8 10.0 158°.47 2°.5/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.24 | − 6 51.5 | 1.919 | 2.792 | 12.9 | 18.4 |
| 7 20 | 21 35.95 | − 7 5.9 | 1.851 | 2.793 | 9.6 | 18.2 |
| 7 30 | 21 28.96 | − 7 33.6 | 1.805 | 2.793 | 6.0 | 18.0 |
| 8 9 | 21 20.97 | − 8 11.9 | 1.786 | 2.794 | 2.8 | 17.8 |
| 8 19 | 21 12.81 | − 8 56.9 | 1.794 | 2.794 | 3.9 | 17.9 |
| 8 29 | 21 5.42 | − 9 43.8 | 1.828 | 2.795 | 7.4 | 18.1 |
| 9 8 | 20 59.59 | −10 28.2 | 1.888 | 2.795 | 10.9 | 18.3 |
| 9 18 | 20 55.87 | −11 6.4 | 1.970 | 2.795 | 14.0 | 18.5 |

**395499** 2011 $UJ_{93}$ 8 10.0 253°.17 0°.5/ 9.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.96 | −15 29.3 | 2.031 | 2.925 | 11.4 | 21.6 |
| 7 20 | 21 36.43 | −15 56.4 | 1.962 | 2.921 | 8.1 | 21.4 |
| 7 30 | 21 29.21 | −16 29.6 | 1.917 | 2.917 | 4.3 | 21.1 |
| 8 9 | 21 20.99 | −17 4.8 | 1.899 | 2.913 | 0.6 | 20.8 |
| 8 19 | 21 12.60 | −17 37.9 | 1.909 | 2.909 | 3.8 | 21.1 |
| 8 29 | 21 4.97 | −18 5.1 | 1.946 | 2.904 | 7.6 | 21.3 |
| 9 8 | 20 58.88 | −18 23.9 | 2.007 | 2.900 | 11.1 | 21.5 |
| 9 18 | 20 54.89 | −18 33.0 | 2.090 | 2.896 | 14.0 | 21.7 |

**149914** 2005 $SB_{76}$ 8 10.0 278°.46 0°.2/10.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.79 | −13 23.8 | 2.147 | 3.036 | 11.1 | 21.3 |
| 7 20 | 21 35.61 | −13 49.5 | 2.066 | 3.022 | 7.9 | 21.0 |
| 7 30 | 21 28.79 | −14 22.9 | 2.009 | 3.007 | 4.3 | 20.8 |
| 8 9 | 21 20.96 | −15 0.6 | 1.979 | 2.993 | 0.5 | 20.5 |
| 8 19 | 21 12.88 | −15 38.7 | 1.977 | 2.978 | 3.5 | 20.7 |
| 8 29 | 21 5.41 | −16 13.0 | 2.002 | 2.964 | 7.3 | 20.9 |
| 9 8 | 20 59.36 | −16 40.7 | 2.053 | 2.949 | 10.7 | 21.1 |
| 9 18 | 20 55.27 | −16 59.6 | 2.126 | 2.935 | 13.7 | 21.3 |

**3303** Merta 8 10.0 348°.15 1°.7/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.48 | −18 7.9 | 1.793 | 2.697 | 12.1 | 16.2 |
| 7 20 | 21 36.27 | −18 44.7 | 1.730 | 2.694 | 8.5 | 15.9 |
| 7 30 | 21 29.18 | −19 26.3 | 1.691 | 2.692 | 4.6 | 15.7 |
| 8 9 | 21 20.99 | −20 7.4 | 1.678 | 2.690 | 1.7 | 15.5 |
| 8 19 | 21 12.65 | −20 43.0 | 1.692 | 2.688 | 4.7 | 15.7 |
| 8 29 | 21 5.19 | −21 9.0 | 1.731 | 2.687 | 8.7 | 15.9 |
| 9 8 | 20 59.48 | −21 23.1 | 1.795 | 2.686 | 12.3 | 16.2 |
| 9 18 | 20 56.09 | −21 24.7 | 1.879 | 2.685 | 15.3 | 16.4 |

**92661** 2000 $QG_{43}$ 8 10.0 298°.23 1°.5/11.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.70 | − 9 58.9 | 1.552 | 2.445 | 14.3 | 19.6 |
| 7 20 | 21 36.79 | −10 19.0 | 1.471 | 2.426 | 10.5 | 19.3 |
| 7 30 | 21 29.66 | −10 53.3 | 1.412 | 2.407 | 6.1 | 19.0 |
| 8 9 | 21 21.06 | −11 38.2 | 1.377 | 2.389 | 1.9 | 18.7 |
| 8 19 | 21 12.02 | −12 28.5 | 1.367 | 2.370 | 4.3 | 18.8 |
| 8 29 | 21 3.77 | −13 18.1 | 1.383 | 2.352 | 9.1 | 19.1 |
| 9 8 | 20 57.42 | −14 1.6 | 1.422 | 2.334 | 13.5 | 19.3 |
| 9 18 | 20 53.71 | −14 35.2 | 1.482 | 2.316 | 17.4 | 19.5 |

**213047** 1998 $SJ_{75}$ 8 10.0 254°.95 7°.0/ 3.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.95 | −36 6.9 | 2.310 | 3.194 | 10.6 | 20.8 |
| 7 20 | 21 40.88 | −37 12.9 | 2.238 | 3.173 | 8.6 | 20.6 |
| 7 30 | 21 31.73 | −38 10.5 | 2.191 | 3.151 | 7.2 | 20.5 |
| 8 9 | 21 21.25 | −38 52.7 | 2.170 | 3.128 | 7.3 | 20.5 |
| 8 19 | 21 10.45 | −39 14.4 | 2.176 | 3.105 | 8.8 | 20.5 |
| 8 29 | 21 0.46 | −39 13.5 | 2.207 | 3.082 | 11.1 | 20.7 |
| 9 8 | 20 52.28 | −38 50.8 | 2.260 | 3.057 | 13.5 | 20.8 |
| 9 18 | 20 46.58 | −38 9.6 | 2.333 | 3.033 | 15.6 | 20.9 |

**360659** 2004 $RR_{63}$ 8 10.0 341°.35 3°.3/12.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 36.89 | − 4 0.8 | 1.727 | 2.603 | 14.0 | 20.1 |
| 7 20 | 21 33.10 | − 4 29.7 | 1.652 | 2.593 | 10.7 | 19.8 |
| 7 30 | 21 27.52 | − 5 17.3 | 1.599 | 2.583 | 7.0 | 19.6 |
| 8 9 | 21 20.85 | − 6 20.7 | 1.570 | 2.575 | 3.8 | 19.4 |
| 8 19 | 21 13.91 | − 7 34.9 | 1.566 | 2.567 | 4.4 | 19.4 |
| 8 29 | 21 7.69 | − 8 53.2 | 1.589 | 2.560 | 7.9 | 19.6 |
| 9 8 | 21 3.04 | −10 8.9 | 1.636 | 2.554 | 11.7 | 19.8 |
| 9 18 | 21 0.58 | −11 16.5 | 1.705 | 2.548 | 15.1 | 20.0 |

**392776** 2012 $TT_{95}$ 8 10.0 216°.84 0°.8/ 9.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.69 | −16 29.9 | 2.329 | 3.216 | 10.4 | 22.2 |
| 7 20 | 21 37.54 | −16 58.4 | 2.252 | 3.208 | 7.3 | 22.0 |
| 7 30 | 21 29.79 | −17 31.5 | 2.200 | 3.199 | 3.9 | 21.8 |
| 8 9 | 21 21.08 | −18 5.5 | 2.177 | 3.190 | 0.8 | 21.5 |
| 8 19 | 21 12.16 | −18 36.6 | 2.182 | 3.180 | 3.7 | 21.8 |
| 8 29 | 21 3.90 | −19 1.6 | 2.216 | 3.169 | 7.2 | 22.0 |
| 9 8 | 20 57.04 | −19 18.2 | 2.275 | 3.158 | 10.4 | 22.1 |
| 9 18 | 20 52.11 | −19 25.6 | 2.357 | 3.147 | 13.1 | 22.3 |

**283005** 2007 $TZ_{411}$ 8 10.0 356°.94 9°.0/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.09 | + 2 14.8 | 1.365 | 2.221 | 18.2 | 19.3 |
| 7 20 | 21 37.10 | + 3 33.6 | 1.302 | 2.216 | 15.0 | 19.1 |
| 7 30 | 21 29.81 | + 4 30.3 | 1.257 | 2.213 | 11.8 | 18.9 |
| 8 9 | 21 21.09 | + 5 1.8 | 1.234 | 2.211 | 9.4 | 18.8 |
| 8 19 | 21 12.09 | + 5 7.6 | 1.234 | 2.210 | 9.3 | 18.8 |
| 8 29 | 21 4.11 | + 4 51.0 | 1.257 | 2.210 | 11.5 | 18.9 |
| 9 8 | 20 58.23 | + 4 18.6 | 1.301 | 2.212 | 14.6 | 19.1 |
| 9 18 | 20 55.15 | + 3 37.7 | 1.364 | 2.214 | 17.8 | 19.3 |

**358432** 2007 $DZ_{23}$ 8 10.0 46°.95 2°.0/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.59 | − 6 48.1 | 2.150 | 3.022 | 11.8 | 21.1 |
| 7 20 | 21 33.94 | − 7 24.5 | 2.084 | 3.026 | 8.7 | 20.9 |
| 7 30 | 21 27.85 | − 8 13.8 | 2.041 | 3.030 | 5.3 | 20.7 |
| 8 9 | 21 20.90 | − 9 12.5 | 2.025 | 3.034 | 2.3 | 20.5 |
| 8 19 | 21 13.83 | −10 16.3 | 2.037 | 3.038 | 3.3 | 20.6 |
| 8 29 | 21 7.42 | −11 20.2 | 2.076 | 3.043 | 6.7 | 20.8 |
| 9 8 | 21 2.35 | −12 19.5 | 2.141 | 3.047 | 9.9 | 21.0 |
| 9 18 | 20 59.11 | −13 10.8 | 2.230 | 3.052 | 12.7 | 21.2 |

**455596** 2004 $TL_{27}$ 8 10.0 195°.69 3°.0/11.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.34 | − 6 30.2 | 1.425 | 2.308 | 16.0 | 21.4 |
| 7 20 | 21 38.64 | − 6 49.6 | 1.360 | 2.307 | 11.9 | 21.1 |
| 7 30 | 21 30.62 | − 7 27.3 | 1.316 | 2.306 | 7.4 | 20.8 |
| 8 9 | 21 21.18 | − 8 19.6 | 1.296 | 2.305 | 3.3 | 20.6 |
| 8 19 | 21 11.47 | − 9 20.8 | 1.302 | 2.304 | 4.8 | 20.7 |
| 8 29 | 21 2.81 | −10 23.8 | 1.333 | 2.302 | 9.3 | 21.0 |
| 9 8 | 20 56.28 | −11 21.8 | 1.387 | 2.300 | 13.7 | 21.2 |
| 9 18 | 20 52.56 | −12 10.2 | 1.461 | 2.298 | 17.5 | 21.4 |

**158779** 2003 $SJ_{75}$ 8 10.0 250°.34 1°.8/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.95 | − 7 42.8 | 2.566 | 3.433 | 10.3 | 19.9 |
| 7 20 | 21 34.07 | − 8 1.3 | 2.484 | 3.425 | 7.6 | 19.7 |
| 7 30 | 21 27.89 | − 8 29.8 | 2.428 | 3.416 | 4.6 | 19.5 |
| 8 9 | 21 20.91 | − 9 5.9 | 2.398 | 3.407 | 2.0 | 19.3 |
| 8 19 | 21 13.76 | − 9 46.6 | 2.397 | 3.398 | 3.0 | 19.4 |
| 8 29 | 21 7.12 | −10 28.7 | 2.424 | 3.388 | 6.0 | 19.5 |
| 9 8 | 21 1.60 | −11 8.5 | 2.478 | 3.379 | 8.9 | 19.7 |
| 9 18 | 20 57.68 | −11 43.6 | 2.555 | 3.370 | 11.5 | 19.9 |

**477487** 2010 $BW_{66}$ 8 10.0 235°.60 2°.1/ 8.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.54 | −21 3.0 | 2.106 | 2.999 | 11.1 | 21.1 |
| 7 20 | 21 39.72 | −21 22.8 | 2.029 | 2.988 | 7.9 | 20.9 |
| 7 30 | 21 31.03 | −21 43.5 | 1.978 | 2.976 | 4.4 | 20.6 |
| 8 9 | 21 21.23 | −22 0.8 | 1.954 | 2.964 | 2.1 | 20.5 |
| 8 19 | 21 11.21 | −22 10.8 | 1.958 | 2.951 | 4.7 | 20.6 |
| 8 29 | 21 1.98 | −22 11.1 | 1.990 | 2.938 | 8.3 | 20.8 |
| 9 8 | 20 54.42 | −22 0.6 | 2.048 | 2.924 | 11.6 | 21.0 |
| 9 18 | 20 49.11 | −21 40.0 | 2.127 | 2.910 | 14.5 | 21.2 |

**104180** 2000 $EM_{91}$ 8 10.0 152°.42 4°.0/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.73 | − 2 56.4 | 2.276 | 3.121 | 12.2 | 19.9 |
| 7 20 | 21 37.46 | − 2 38.6 | 2.207 | 3.127 | 9.4 | 19.7 |
| 7 30 | 21 29.70 | − 2 33.5 | 2.162 | 3.133 | 6.5 | 19.5 |
| 8 9 | 21 21.10 | − 2 40.2 | 2.143 | 3.139 | 4.2 | 19.4 |
| 8 19 | 21 12.38 | − 2 56.9 | 2.153 | 3.144 | 4.5 | 19.4 |
| 8 29 | 21 4.36 | − 3 20.5 | 2.191 | 3.149 | 7.0 | 19.6 |
| 9 8 | 20 57.74 | − 3 47.4 | 2.254 | 3.153 | 9.8 | 19.8 |
| 9 18 | 20 52.99 | − 4 14.3 | 2.341 | 3.157 | 12.4 | 20.0 |

**366140** 2012 $DS_{87}$ 8 10.0 131°.89 4°.2/12.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.96 | − 5 43.5 | 1.460 | 2.337 | 16.0 | 20.5 |
| 7 20 | 21 39.69 | − 5 23.3 | 1.398 | 2.339 | 12.2 | 20.3 |
| 7 30 | 21 31.14 | − 5 19.4 | 1.356 | 2.341 | 7.9 | 20.1 |
| 8 9 | 21 21.24 | − 5 30.3 | 1.339 | 2.343 | 4.5 | 19.9 |
| 8 19 | 21 11.16 | − 5 52.8 | 1.347 | 2.345 | 5.4 | 19.9 |
| 8 29 | 21 2.16 | − 6 22.1 | 1.381 | 2.347 | 9.3 | 20.2 |
| 9 8 | 20 55.31 | − 6 52.8 | 1.437 | 2.349 | 13.4 | 20.4 |
| 9 18 | 20 51.25 | − 7 20.6 | 1.514 | 2.351 | 17.0 | 20.7 |

**64222** 2001 $TB_{110}$ 8 10.0 207°.32 2°.5/11.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.90 | − 8 31.9 | 1.444 | 2.330 | 15.6 | 20.3 |
| 7 20 | 21 39.75 | − 8 39.0 | 1.378 | 2.328 | 11.5 | 20.0 |
| 7 30 | 21 31.23 | − 9 1.1 | 1.333 | 2.326 | 6.9 | 19.8 |
| 8 9 | 21 21.25 | − 9 35.1 | 1.312 | 2.323 | 2.8 | 19.5 |
| 8 19 | 21 11.01 | −10 15.8 | 1.317 | 2.319 | 4.7 | 19.6 |
| 8 29 | 21 1.83 | −10 57.6 | 1.348 | 2.316 | 9.4 | 19.9 |
| 9 8 | 20 54.82 | −11 35.2 | 1.402 | 2.312 | 13.8 | 20.1 |
| 9 18 | 20 50.67 | −12 4.7 | 1.475 | 2.308 | 17.5 | 20.4 |

**279566** 2011 $DF_{3}$ 8 10.1 174°.66 1°.9/ 8.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.53 | −19 10.5 | 1.674 | 2.574 | 13.0 | 21.3 |
| 7 20 | 21 39.93 | −19 35.7 | 1.613 | 2.575 | 9.2 | 21.1 |
| 7 30 | 21 31.21 | −20 4.0 | 1.576 | 2.576 | 5.0 | 20.9 |
| 8 9 | 21 21.25 | −20 30.3 | 1.565 | 2.577 | 1.9 | 20.7 |
| 8 19 | 21 11.17 | −20 49.6 | 1.581 | 2.577 | 5.1 | 20.9 |
| 8 29 | 21 2.16 | −20 58.5 | 1.623 | 2.577 | 9.3 | 21.1 |
| 9 8 | 20 55.19 | −20 55.8 | 1.688 | 2.577 | 13.1 | 21.4 |
| 9 18 | 20 50.86 | −20 41.8 | 1.774 | 2.577 | 16.3 | 21.6 |

**183270** 2002 $TC_{241}$ 8 10.1 241°.88 1°.7/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.03 | −17 41.6 | 1.710 | 2.610 | 12.9 | 20.4 |
| 7 20 | 21 38.99 | −18 25.0 | 1.638 | 2.600 | 9.1 | 20.2 |
| 7 30 | 21 30.79 | −19 14.6 | 1.589 | 2.589 | 4.9 | 19.9 |
| 8 9 | 21 21.22 | −20 4.5 | 1.566 | 2.578 | 1.7 | 19.6 |
| 8 19 | 21 11.33 | −20 48.7 | 1.570 | 2.566 | 5.1 | 19.8 |
| 8 29 | 21 2.33 | −21 22.3 | 1.600 | 2.554 | 9.4 | 20.1 |
| 9 8 | 20 55.24 | −21 42.5 | 1.654 | 2.542 | 13.3 | 20.3 |
| 9 18 | 20 50.75 | −21 48.7 | 1.728 | 2.529 | 16.7 | 20.5 |

**513171** 2004 $MD_{6}$ 8 10.1 220°.82 41°.1/27.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 22 38.66 | +38 21.6 | 0.872 | 1.483 | 41.8 | 22.6 |
| 7 20 | 22 25.09 | +44 14.6 | 0.811 | 1.473 | 41.3 | 22.4 |
| 7 30 | 22 1.16 | +49 39.7 | 0.760 | 1.456 | 41.1 | 22.2 |
| 8 9 | 21 24.74 | +53 56.2 | 0.718 | 1.430 | 41.7 | 22.1 |
| 8 19 | 20 37.18 | +56 15.1 | 0.686 | 1.397 | 43.2 | 22.0 |
| 8 29 | 19 46.44 | +56 4.8 | 0.664 | 1.355 | 45.7 | 21.9 |
| 9 8 | 19 2.77 | +53 39.0 | 0.648 | 1.305 | 49.1 | 21.9 |
| 9 18 | 18 31.06 | +49 41.8 | 0.635 | 1.247 | 53.2 | 21.8 |

**243234** 2007 $VE_{122}$ 8 10.1 40°.89 0°.0/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.80 | −14 18.3 | 1.750 | 2.646 | 12.8 | 20.9 |
| 7 20 | 21 37.16 | −14 35.4 | 1.692 | 2.651 | 9.1 | 20.7 |
| 7 30 | 21 29.66 | −15 0.0 | 1.656 | 2.655 | 4.9 | 20.4 |
| 8 9 | 21 21.10 | −15 27.9 | 1.647 | 2.660 | 0.5 | 20.1 |
| 8 19 | 21 12.46 | −15 54.9 | 1.664 | 2.665 | 4.0 | 20.4 |
| 8 29 | 21 4.75 | −16 17.0 | 1.707 | 2.670 | 8.1 | 20.7 |
| 9 8 | 20 58.85 | −16 31.5 | 1.775 | 2.676 | 11.9 | 20.9 |
| 9 18 | 20 55.28 | −16 37.1 | 1.863 | 2.681 | 15.0 | 21.1 |

**504448** 2008 $CR_{91}$ 8 10.1 101°.53 0°.9/10.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.79 | −10 6.1 | 1.538 | 2.428 | 14.6 | 21.8 |
| 7 20 | 21 38.00 | −10 52.6 | 1.486 | 2.441 | 10.5 | 21.6 |
| 7 30 | 21 30.16 | −11 52.9 | 1.456 | 2.453 | 5.9 | 21.3 |
| 8 9 | 21 21.15 | −13 1.2 | 1.452 | 2.465 | 1.3 | 21.0 |
| 8 19 | 21 12.07 | −14 10.6 | 1.474 | 2.477 | 4.2 | 21.3 |
| 8 29 | 21 4.07 | −15 14.4 | 1.522 | 2.488 | 8.7 | 21.6 |
| 9 8 | 20 58.08 | −16 7.8 | 1.594 | 2.499 | 12.7 | 21.9 |
| 9 18 | 20 54.66 | −16 47.8 | 1.687 | 2.510 | 16.1 | 22.1 |

**232865** 2004 $TG_{295}$ 8 10.1 205°.51 2°.3/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.93 | − 7 41.6 | 1.922 | 2.795 | 12.9 | 20.7 |
| 7 20 | 21 37.20 | − 7 50.5 | 1.850 | 2.793 | 9.6 | 20.5 |
| 7 30 | 21 29.69 | − 8 11.8 | 1.801 | 2.790 | 5.9 | 20.3 |
| 8 9 | 21 21.12 | − 8 42.9 | 1.779 | 2.788 | 2.6 | 20.1 |
| 8 19 | 21 12.35 | − 9 20.2 | 1.784 | 2.784 | 3.9 | 20.1 |
| 8 29 | 21 4.35 | − 9 59.2 | 1.816 | 2.781 | 7.6 | 20.4 |
| 9 8 | 20 57.95 | −10 35.8 | 1.873 | 2.777 | 11.1 | 20.6 |
| 9 18 | 20 53.72 | −11 6.8 | 1.952 | 2.774 | 14.3 | 20.8 |

**257146** 2008 $HA_{13}$ 8 10.1 338°.40 5°.1/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 37.76 | + 0 22.6 | 1.843 | 2.695 | 14.3 | 20.0 |
| 7 20 | 21 33.63 | + 0 12.9 | 1.767 | 2.687 | 11.3 | 19.8 |
| 7 30 | 21 27.81 | − 0 16.9 | 1.712 | 2.680 | 8.2 | 19.6 |
| 8 9 | 21 20.94 | − 1 5.6 | 1.681 | 2.674 | 5.6 | 19.4 |
| 8 19 | 21 13.83 | − 2 9.4 | 1.676 | 2.668 | 5.5 | 19.4 |
| 8 29 | 21 7.41 | − 3 22.8 | 1.697 | 2.662 | 8.0 | 19.5 |
| 9 8 | 21 2.48 | − 4 39.0 | 1.742 | 2.657 | 11.2 | 19.7 |
| 9 18 | 20 59.63 | − 5 52.0 | 1.810 | 2.652 | 14.3 | 19.9 |

**302192** 2001 $TU_{252}$ 8 10.1 250°.15 1°.5/ 8.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.69 | −17 54.2 | 2.189 | 3.085 | 10.6 | 21.4 |
| 7 20 | 21 36.25 | −18 36.1 | 2.114 | 3.074 | 7.5 | 21.2 |
| 7 30 | 21 29.17 | −19 22.7 | 2.064 | 3.064 | 4.0 | 21.0 |
| 8 9 | 21 21.07 | −20 9.3 | 2.041 | 3.053 | 1.5 | 20.8 |
| 8 19 | 21 12.76 | −20 51.5 | 2.047 | 3.042 | 4.2 | 20.9 |
| 8 29 | 21 5.10 | −21 25.3 | 2.080 | 3.031 | 7.7 | 21.1 |
| 9 8 | 20 58.88 | −21 48.3 | 2.138 | 3.020 | 11.0 | 21.3 |
| 9 18 | 20 54.66 | −21 59.7 | 2.217 | 3.008 | 13.8 | 21.5 |

**478390** 2012 $BG_{29}$ 8 10.1 110°.26 1°.5/ 8.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.88 | −17 35.0 | 2.332 | 3.228 | 10.1 | 20.7 |
| 7 20 | 21 34.81 | −18 32.7 | 2.273 | 3.234 | 7.0 | 20.6 |
| 7 30 | 21 28.31 | −19 34.8 | 2.240 | 3.240 | 3.7 | 20.4 |
| 8 9 | 21 20.99 | −20 36.5 | 2.235 | 3.246 | 1.5 | 20.2 |
| 8 19 | 21 13.56 | −21 33.0 | 2.258 | 3.252 | 4.0 | 20.4 |
| 8 29 | 21 6.80 | −22 20.5 | 2.309 | 3.258 | 7.2 | 20.6 |
| 9 8 | 21 1.37 | −22 56.6 | 2.385 | 3.263 | 10.1 | 20.8 |
| 9 18 | 20 57.74 | −23 20.2 | 2.483 | 3.269 | 12.6 | 21.0 |

**482519** 2012 $TB_{167}$ 8 10.1 284°.47 4°.9/14.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.92 | + 0 4.0 | 1.789 | 2.641 | 14.7 | 20.7 |
| 7 20 | 21 35.31 | − 0 14.4 | 1.702 | 2.623 | 11.6 | 20.5 |
| 7 30 | 21 28.80 | − 0 54.4 | 1.635 | 2.606 | 8.3 | 20.2 |
| 8 9 | 21 21.05 | − 1 54.6 | 1.593 | 2.589 | 5.4 | 20.0 |
| 8 19 | 21 12.91 | − 3 11.1 | 1.578 | 2.571 | 5.4 | 20.0 |
| 8 29 | 21 5.40 | − 4 37.5 | 1.588 | 2.554 | 8.4 | 20.1 |
| 9 8 | 20 59.46 | − 6 6.2 | 1.623 | 2.537 | 12.0 | 20.3 |
| 9 18 | 20 55.77 | − 7 30.5 | 1.680 | 2.519 | 15.5 | 20.5 |

**105469** 2000 $QA_{209}$ 8 10.1 307°.44 2°.9/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.42 | − 7 18.4 | 1.224 | 2.122 | 17.0 | 20.0 |
| 7 20 | 21 37.02 | − 7 35.0 | 1.150 | 2.105 | 12.8 | 19.7 |
| 7 30 | 21 29.99 | − 8 12.2 | 1.095 | 2.089 | 7.9 | 19.4 |
| 8 9 | 21 21.18 | − 9 6.8 | 1.063 | 2.073 | 3.3 | 19.0 |
| 8 19 | 21 11.84 | −10 12.5 | 1.054 | 2.057 | 5.2 | 19.1 |
| 8 29 | 21 3.47 | −11 20.8 | 1.068 | 2.042 | 10.4 | 19.4 |
| 9 8 | 20 57.42 | −12 23.7 | 1.104 | 2.027 | 15.5 | 19.6 |
| 9 18 | 20 54.53 | −13 15.1 | 1.158 | 2.013 | 19.9 | 19.8 |

**496755** 2016 $TS_{62}$ 8 10.1 268°.99 1°.9/11.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.05 | − 8 19.2 | 1.875 | 2.754 | 12.9 | 21.5 |
| 7 20 | 21 35.93 | − 8 42.7 | 1.803 | 2.750 | 9.5 | 21.3 |
| 7 30 | 21 29.03 | − 9 19.2 | 1.754 | 2.746 | 5.7 | 21.1 |
| 8 9 | 21 21.07 | −10 5.4 | 1.732 | 2.742 | 2.2 | 20.8 |
| 8 19 | 21 12.90 | −10 56.8 | 1.736 | 2.738 | 3.7 | 20.9 |
| 8 29 | 21 5.47 | −11 48.3 | 1.767 | 2.734 | 7.6 | 21.2 |
| 9 8 | 20 59.63 | −12 35.2 | 1.823 | 2.730 | 11.3 | 21.4 |
| 9 18 | 20 55.95 | −13 14.2 | 1.901 | 2.726 | 14.5 | 21.6 |

**271476** 2004 $FD_{13}$ 8 10.1 163°.18 0°.9/ 9.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.25 | −17 0.9 | 1.627 | 2.525 | 13.5 | 20.6 |
| 7 20 | 21 40.46 | −17 13.8 | 1.566 | 2.527 | 9.6 | 20.4 |
| 7 30 | 21 31.51 | −17 31.5 | 1.528 | 2.528 | 5.1 | 20.2 |
| 8 9 | 21 21.31 | −17 49.6 | 1.517 | 2.530 | 0.9 | 19.9 |
| 8 19 | 21 11.00 | −18 3.6 | 1.532 | 2.531 | 4.6 | 20.1 |
| 8 29 | 21 1.79 | −18 10.2 | 1.573 | 2.532 | 9.1 | 20.4 |
| 9 8 | 20 54.67 | −18 7.6 | 1.638 | 2.533 | 13.0 | 20.7 |
| 9 18 | 20 50.23 | −17 55.7 | 1.724 | 2.534 | 16.3 | 20.9 |

**399425** 2001 $XY_{57}$ 8 10.1 242°.31 16°.5/18.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.98 | +17 32.7 | 1.346 | 2.111 | 22.9 | 20.8 |
| 7 20 | 21 40.98 | +19 25.3 | 1.276 | 2.102 | 20.8 | 20.6 |
| 7 30 | 21 32.18 | +20 44.1 | 1.222 | 2.093 | 18.7 | 20.4 |
| 8 9 | 21 21.41 | +21 21.2 | 1.184 | 2.084 | 17.1 | 20.3 |
| 8 19 | 21 9.96 | +21 11.9 | 1.166 | 2.074 | 16.5 | 20.2 |
| 8 29 | 20 59.41 | +20 18.1 | 1.167 | 2.064 | 17.2 | 20.2 |
| 9 8 | 20 51.21 | +18 49.0 | 1.187 | 2.054 | 18.9 | 20.3 |
| 9 18 | 20 46.31 | +16 57.1 | 1.224 | 2.043 | 21.2 | 20.4 |

**189865** 2003 *NC* 8 10.1 130°.51 8°.6/14.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 22 14.39 | + 6 56.1 | 1.523 | 2.292 | 20.5 | 23.0 |
| 7 20 | 21 59.43 | + 7 14.1 | 1.469 | 2.334 | 16.5 | 22.9 |
| 7 30 | 21 41.58 | + 7 2.4 | 1.439 | 2.373 | 12.4 | 22.7 |
| 8 9 | 21 22.28 | + 6 20.8 | 1.437 | 2.407 | 9.2 | 22.6 |
| 8 19 | 21 3.31 | + 5 13.9 | 1.468 | 2.436 | 8.9 | 22.7 |
| 8 29 | 20 46.43 | + 3 50.8 | 1.531 | 2.462 | 11.5 | 22.9 |
| 9 8 | 20 32.86 | + 2 21.9 | 1.621 | 2.484 | 14.9 | 23.2 |
| 9 18 | 20 23.12 | + 0 56.0 | 1.735 | 2.503 | 17.9 | 23.4 |

**78507** 2002 $RY_{84}$ 8 10.1 261°.21 0°.9/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.57 | −11 43.0 | 1.674 | 2.564 | 13.7 | 20.2 |
| 7 20 | 21 38.74 | −12 3.9 | 1.592 | 2.547 | 9.9 | 20.0 |
| 7 30 | 21 30.72 | −12 36.3 | 1.533 | 2.530 | 5.6 | 19.7 |
| 8 9 | 21 21.25 | −13 16.2 | 1.499 | 2.512 | 1.2 | 19.3 |
| 8 19 | 21 11.37 | −13 58.6 | 1.492 | 2.494 | 4.2 | 19.5 |
| 8 29 | 21 2.27 | −14 38.3 | 1.511 | 2.476 | 8.9 | 19.8 |
| 9 8 | 20 55.03 | −15 10.9 | 1.555 | 2.457 | 13.1 | 20.0 |
| 9 18 | 20 50.37 | −15 33.7 | 1.619 | 2.439 | 16.8 | 20.2 |

**380816** 2005 $YZ_{99}$ 8 10.1 122°.23 0°.6/10.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.23 | −12 50.5 | 1.824 | 2.711 | 12.8 | 21.3 |
| 7 20 | 21 38.78 | −13 2.0 | 1.766 | 2.720 | 9.2 | 21.1 |
| 7 30 | 21 30.51 | −13 21.4 | 1.732 | 2.729 | 5.1 | 20.9 |
| 8 9 | 21 21.22 | −13 45.4 | 1.724 | 2.738 | 0.9 | 20.6 |
| 8 19 | 21 11.87 | −14 9.8 | 1.744 | 2.746 | 3.8 | 20.9 |
| 8 29 | 21 3.48 | −14 31.2 | 1.791 | 2.754 | 7.9 | 21.1 |
| 9 8 | 20 56.89 | −14 46.5 | 1.863 | 2.762 | 11.5 | 21.4 |
| 9 18 | 20 52.63 | −14 54.5 | 1.956 | 2.769 | 14.6 | 21.6 |

**239623** 2008 $UG_{338}$ 8 10.1 241°.52 3°.7/ 7.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.43 | −24 22.7 | 1.924 | 2.826 | 11.6 | 20.4 |
| 7 20 | 21 39.10 | −25 5.3 | 1.857 | 2.818 | 8.3 | 20.2 |
| 7 30 | 21 30.78 | −25 47.0 | 1.814 | 2.809 | 5.1 | 20.0 |
| 8 9 | 21 21.25 | −26 21.9 | 1.798 | 2.801 | 3.8 | 19.9 |
| 8 19 | 21 11.53 | −26 45.1 | 1.809 | 2.792 | 6.1 | 20.0 |
| 8 29 | 21 2.70 | −26 53.4 | 1.846 | 2.783 | 9.5 | 20.2 |
| 9 8 | 20 55.70 | −26 46.3 | 1.907 | 2.774 | 12.8 | 20.4 |
| 9 18 | 20 51.13 | −26 25.1 | 1.988 | 2.764 | 15.6 | 20.6 |

**400175** 2006 $WC_{45}$ 8 10.1 21°.80 3°.5/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.85 | − 3 40.4 | 1.942 | 2.805 | 13.2 | 21.4 |
| 7 20 | 21 34.98 | − 3 54.2 | 1.873 | 2.806 | 10.1 | 21.2 |
| 7 30 | 21 28.49 | − 4 23.8 | 1.827 | 2.807 | 6.7 | 21.0 |
| 8 9 | 21 21.03 | − 5 7.0 | 1.806 | 2.808 | 3.9 | 20.8 |
| 8 19 | 21 13.41 | − 5 59.9 | 1.812 | 2.810 | 4.3 | 20.8 |
| 8 29 | 21 6.51 | − 6 57.4 | 1.845 | 2.811 | 7.4 | 21.0 |
| 9 8 | 21 1.12 | − 7 54.4 | 1.903 | 2.813 | 10.7 | 21.2 |
| 9 18 | 20 57.74 | − 8 46.4 | 1.983 | 2.815 | 13.7 | 21.4 |

**355076** 2006 $SP_{268}$ 8 10.1 90°.75 0°.8/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.16 | −12 2.1 | 2.013 | 2.899 | 11.9 | 21.2 |
| 7 20 | 21 36.55 | −12 15.2 | 1.949 | 2.902 | 8.5 | 21.0 |
| 7 30 | 21 29.30 | −12 36.5 | 1.909 | 2.905 | 4.8 | 20.8 |
| 8 9 | 21 21.11 | −13 3.0 | 1.895 | 2.908 | 1.1 | 20.6 |
| 8 19 | 21 12.81 | −13 30.9 | 1.909 | 2.911 | 3.5 | 20.8 |
| 8 29 | 21 5.30 | −13 56.7 | 1.950 | 2.914 | 7.2 | 21.0 |
| 9 8 | 20 59.34 | −14 17.3 | 2.017 | 2.917 | 10.7 | 21.2 |
| 9 18 | 20 55.44 | −14 31.1 | 2.105 | 2.920 | 13.6 | 21.4 |

**316592** 2011 $US_{173}$ 8 10.1 107°.28 6°.9/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.18 | + 7 48.2 | 2.151 | 2.951 | 14.3 | 20.3 |
| 7 20 | 21 34.39 | + 7 43.1 | 2.080 | 2.956 | 11.9 | 20.2 |
| 7 30 | 21 28.13 | + 7 15.9 | 2.030 | 2.961 | 9.5 | 20.0 |
| 8 9 | 21 21.00 | + 6 26.9 | 2.003 | 2.966 | 7.5 | 19.9 |
| 8 19 | 21 13.72 | + 5 18.9 | 2.003 | 2.971 | 6.9 | 19.9 |
| 8 29 | 21 7.10 | + 3 56.8 | 2.028 | 2.976 | 8.1 | 20.0 |
| 9 8 | 21 1.84 | + 2 27.4 | 2.080 | 2.981 | 10.4 | 20.1 |
| 9 18 | 20 58.41 | + 0 57.0 | 2.155 | 2.986 | 12.8 | 20.3 |

**276239** 2002 $RZ_{77}$ 8 10.1 319°.52 1°.0/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.39 | −15 43.4 | 1.167 | 2.086 | 16.0 | 20.1 |
| 7 20 | 21 37.24 | −16 9.8 | 1.090 | 2.061 | 11.5 | 19.8 |
| 7 30 | 21 30.23 | −16 47.7 | 1.033 | 2.036 | 6.3 | 19.4 |
| 8 9 | 21 21.23 | −17 31.0 | 0.998 | 2.011 | 1.0 | 19.0 |
| 8 19 | 21 11.58 | −18 12.3 | 0.986 | 1.988 | 5.8 | 19.2 |
| 8 29 | 21 2.93 | −18 44.3 | 0.996 | 1.965 | 11.7 | 19.5 |
| 9 8 | 20 56.78 | −19 2.1 | 1.026 | 1.943 | 17.0 | 19.7 |
| 9 18 | 20 54.05 | −19 3.9 | 1.074 | 1.923 | 21.6 | 19.9 |

**301262** 2009 $BZ_{76}$ 8 10.1 166°.86 0°.8/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.68 | −15 27.4 | 2.337 | 3.225 | 10.3 | 20.9 |
| 7 20 | 21 36.09 | −16 20.2 | 2.272 | 3.229 | 7.2 | 20.8 |
| 7 30 | 21 29.02 | −17 19.0 | 2.234 | 3.233 | 3.8 | 20.5 |
| 8 9 | 21 21.09 | −18 19.2 | 2.223 | 3.236 | 0.9 | 20.3 |
| 8 19 | 21 13.02 | −19 16.1 | 2.241 | 3.238 | 3.6 | 20.5 |
| 8 29 | 21 5.62 | −20 5.7 | 2.287 | 3.241 | 7.0 | 20.8 |
| 9 8 | 20 59.57 | −20 45.2 | 2.360 | 3.242 | 10.1 | 21.0 |
| 9 18 | 20 55.36 | −21 13.2 | 2.455 | 3.243 | 12.7 | 21.2 |

**515214** 2011 $YJ_{43}$ 8 10.1 257°.89 1°.6/ 8.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.92 | −18 14.9 | 2.306 | 3.201 | 10.2 | 21.6 |
| 7 20 | 21 35.69 | −19 2.8 | 2.228 | 3.188 | 7.1 | 21.4 |
| 7 30 | 21 28.88 | −19 55.3 | 2.175 | 3.175 | 3.9 | 21.2 |
| 8 9 | 21 21.09 | −20 47.7 | 2.150 | 3.161 | 1.6 | 21.0 |
| 8 19 | 21 13.06 | −21 35.5 | 2.154 | 3.148 | 4.2 | 21.1 |
| 8 29 | 21 5.62 | −22 14.7 | 2.184 | 3.134 | 7.6 | 21.3 |
| 9 8 | 20 59.53 | −22 42.9 | 2.241 | 3.119 | 10.7 | 21.5 |
| 9 18 | 20 55.33 | −22 59.1 | 2.319 | 3.105 | 13.4 | 21.7 |

**204053** 2003 $UX_{236}$ 8 10.1 233°.99 6°.4/ 4.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.77 | −33 48.1 | 2.303 | 3.192 | 10.4 | 21.2 |
| 7 20 | 21 40.00 | −34 56.5 | 2.237 | 3.179 | 8.2 | 21.0 |
| 7 30 | 21 31.27 | −35 57.9 | 2.196 | 3.165 | 6.6 | 20.9 |
| 8 9 | 21 21.32 | −36 45.6 | 2.183 | 3.150 | 6.6 | 20.9 |
| 8 19 | 21 11.12 | −37 14.6 | 2.196 | 3.135 | 8.2 | 21.0 |
| 8 29 | 21 1.72 | −37 22.7 | 2.234 | 3.120 | 10.5 | 21.1 |
| 9 8 | 20 54.05 | −37 10.3 | 2.296 | 3.104 | 12.9 | 21.2 |
| 9 18 | 20 48.74 | −36 40.1 | 2.376 | 3.087 | 15.1 | 21.4 |

**302208** 2001 $UV_{145}$ 8 10.1 302°.20 0°.7/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.27 | −15 38.1 | 1.878 | 2.776 | 12.0 | 20.9 |
| 7 20 | 21 36.17 | −16 8.4 | 1.802 | 2.763 | 8.5 | 20.7 |
| 7 30 | 21 29.23 | −16 45.7 | 1.750 | 2.750 | 4.5 | 20.4 |
| 8 9 | 21 21.13 | −17 25.7 | 1.724 | 2.737 | 0.7 | 20.1 |
| 8 19 | 21 12.76 | −18 3.5 | 1.724 | 2.724 | 4.1 | 20.3 |
| 8 29 | 21 5.12 | −18 34.8 | 1.752 | 2.712 | 8.2 | 20.6 |
| 9 8 | 20 59.12 | −18 56.6 | 1.803 | 2.699 | 12.0 | 20.8 |
| 9 18 | 20 55.36 | −19 7.3 | 1.875 | 2.687 | 15.2 | 21.0 |

**225891** 2001 $YC_{116}$ 8 10.1 239°.94 2°.8/ 7.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.47 | −20 52.5 | 1.989 | 2.888 | 11.4 | 20.5 |
| 7 20 | 21 38.44 | −21 48.7 | 1.913 | 2.874 | 8.1 | 20.3 |
| 7 30 | 21 30.47 | −22 48.2 | 1.862 | 2.861 | 4.6 | 20.0 |
| 8 9 | 21 21.25 | −23 45.1 | 1.839 | 2.846 | 2.8 | 19.9 |
| 8 19 | 21 11.72 | −24 33.4 | 1.843 | 2.831 | 5.4 | 20.0 |
| 8 29 | 21 2.93 | −25 8.8 | 1.874 | 2.816 | 9.1 | 20.2 |
| 9 8 | 20 55.81 | −25 29.1 | 1.929 | 2.800 | 12.5 | 20.4 |
| 9 18 | 20 51.01 | −25 34.4 | 2.005 | 2.783 | 15.5 | 20.6 |

**394641** 2007 $YM_{39}$ 8 10.1 323°.83 4°.5/ 6.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.98 | −23 36.4 | 1.505 | 2.423 | 13.2 | 20.1 |
| 7 20 | 21 36.47 | −24 39.2 | 1.434 | 2.402 | 9.5 | 19.8 |
| 7 30 | 21 29.59 | −25 44.3 | 1.385 | 2.383 | 5.9 | 19.6 |
| 8 9 | 21 21.17 | −26 43.6 | 1.360 | 2.364 | 4.7 | 19.4 |
| 8 19 | 21 12.34 | −27 29.5 | 1.360 | 2.345 | 7.5 | 19.6 |
| 8 29 | 21 4.45 | −27 56.5 | 1.384 | 2.327 | 11.5 | 19.7 |
| 9 8 | 20 58.66 | −28 2.6 | 1.430 | 2.311 | 15.5 | 19.9 |
| 9 18 | 20 55.72 | −27 48.8 | 1.493 | 2.294 | 18.8 | 20.1 |

**293342** 2007 $DR_{97}$ 8 10.1 332°.46 2°.6/ 8.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.83 | −22 38.5 | 2.171 | 3.071 | 10.5 | 20.1 |
| 7 20 | 21 37.00 | −23 3.9 | 2.107 | 3.068 | 7.4 | 19.9 |
| 7 30 | 21 29.54 | −23 29.0 | 2.069 | 3.066 | 4.3 | 19.7 |
| 8 9 | 21 21.15 | −23 49.7 | 2.057 | 3.064 | 2.7 | 19.6 |
| 8 19 | 21 12.66 | −24 2.2 | 2.073 | 3.062 | 4.9 | 19.7 |
| 8 29 | 21 4.97 | −24 4.3 | 2.116 | 3.061 | 8.1 | 19.9 |
| 9 8 | 20 58.83 | −23 55.2 | 2.184 | 3.059 | 11.1 | 20.1 |
| 9 18 | 20 54.76 | −23 35.5 | 2.273 | 3.057 | 13.7 | 20.3 |

**363472** 2003 $SS_{283}$ 8 10.1 349°.76 6°.8/15.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.33 | + 4 56.1 | 2.032 | 2.853 | 14.3 | 19.9 |
| 7 20 | 21 33.91 | + 5 15.7 | 1.957 | 2.850 | 11.8 | 19.7 |
| 7 30 | 21 27.93 | + 5 15.1 | 1.903 | 2.846 | 9.3 | 19.6 |
| 8 9 | 21 21.01 | + 4 54.2 | 1.873 | 2.844 | 7.3 | 19.5 |
| 8 19 | 21 13.88 | + 4 14.7 | 1.868 | 2.841 | 6.9 | 19.4 |
| 8 29 | 21 7.40 | + 3 20.7 | 1.888 | 2.839 | 8.4 | 19.5 |
| 9 8 | 21 2.30 | + 2 17.8 | 1.933 | 2.838 | 10.9 | 19.7 |
| 9 18 | 20 59.12 | + 1 12.0 | 2.000 | 2.837 | 13.4 | 19.8 |

**25389** 1999 $UJ_{9}$ 8 10.1 270°.36 0°.8/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.32 | −11 40.7 | 1.822 | 2.710 | 12.8 | 18.8 |
| 7 20 | 21 36.93 | −12 2.8 | 1.747 | 2.701 | 9.2 | 18.6 |
| 7 30 | 21 29.64 | −12 35.3 | 1.696 | 2.692 | 5.2 | 18.3 |
| 8 9 | 21 21.18 | −13 14.5 | 1.670 | 2.683 | 1.1 | 18.0 |
| 8 19 | 21 12.46 | −13 55.6 | 1.672 | 2.674 | 3.8 | 18.2 |
| 8 29 | 21 4.51 | −14 34.2 | 1.700 | 2.665 | 8.0 | 18.4 |
| 9 8 | 20 58.24 | −15 6.1 | 1.753 | 2.656 | 11.9 | 18.7 |
| 9 18 | 20 54.26 | −15 29.1 | 1.827 | 2.646 | 15.2 | 18.9 |

**453623** 2010 $RN_{61}$ 8 10.1 312°.93 4°.8/14.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.54 | − 0 0.8 | 1.999 | 2.847 | 13.5 | 21.3 |
| 7 20 | 21 34.12 | − 0 8.7 | 1.918 | 2.837 | 10.7 | 21.1 |
| 7 30 | 21 28.09 | − 0 34.8 | 1.859 | 2.827 | 7.7 | 20.9 |
| 8 9 | 21 21.04 | − 1 18.1 | 1.825 | 2.817 | 5.2 | 20.7 |
| 8 19 | 21 13.74 | − 2 15.4 | 1.816 | 2.808 | 5.2 | 20.7 |
| 8 29 | 21 7.06 | − 3 21.7 | 1.835 | 2.799 | 7.6 | 20.8 |
| 9 8 | 21 1.78 | − 4 31.1 | 1.878 | 2.790 | 10.8 | 21.0 |
| 9 18 | 20 58.46 | − 5 38.1 | 1.944 | 2.781 | 13.7 | 21.2 |

**257629** 1999 $TK_{169}$ 8 10.1 309°.20 1°.8/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.84 | −19 21.5 | 1.972 | 2.873 | 11.3 | 20.6 |
| 7 20 | 21 36.54 | −19 47.8 | 1.896 | 2.859 | 8.0 | 20.3 |
| 7 30 | 21 29.42 | −20 17.4 | 1.844 | 2.844 | 4.4 | 20.1 |
| 8 9 | 21 21.18 | −20 45.7 | 1.818 | 2.830 | 1.8 | 19.9 |
| 8 19 | 21 12.69 | −21 8.4 | 1.820 | 2.816 | 4.6 | 20.0 |
| 8 29 | 21 4.95 | −21 22.2 | 1.848 | 2.802 | 8.4 | 20.2 |
| 9 8 | 20 58.81 | −21 25.2 | 1.900 | 2.788 | 11.9 | 20.4 |
| 9 18 | 20 54.87 | −21 17.1 | 1.974 | 2.775 | 14.9 | 20.6 |

**476853** 2008 $UT_{326}$ 8 10.1 279°.28 7°.9/14.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.20 | + 3 28.0 | 1.878 | 2.700 | 15.3 | 20.4 |
| 7 20 | 21 39.68 | + 4 41.6 | 1.797 | 2.689 | 12.7 | 20.2 |
| 7 30 | 21 31.17 | + 5 38.3 | 1.738 | 2.679 | 10.1 | 20.0 |
| 8 9 | 21 21.37 | + 6 15.4 | 1.703 | 2.669 | 8.2 | 19.9 |
| 8 19 | 21 11.20 | + 6 31.9 | 1.693 | 2.659 | 8.2 | 19.8 |
| 8 29 | 21 1.74 | + 6 29.6 | 1.710 | 2.649 | 10.0 | 19.9 |
| 9 8 | 20 53.94 | + 6 12.8 | 1.750 | 2.638 | 12.7 | 20.1 |
| 9 18 | 20 48.48 | + 5 46.6 | 1.812 | 2.628 | 15.4 | 20.2 |

**131188** 2001 $DE_{2}$ 8 10.1 46°.47 0°.8/10.7 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.23 | − 9 28.0 | 1.693 | 2.583 | 13.5 | 19.3 |
| 7 20 | 21 35.48 | −10 32.0 | 1.632 | 2.586 | 9.7 | 19.1 |
| 7 30 | 21 28.86 | −11 50.8 | 1.593 | 2.590 | 5.5 | 18.8 |
| 8 9 | 21 21.13 | −13 18.4 | 1.581 | 2.594 | 1.1 | 18.5 |
| 8 19 | 21 13.21 | −14 47.7 | 1.595 | 2.598 | 3.9 | 18.7 |
| 8 29 | 21 6.15 | −16 11.3 | 1.636 | 2.602 | 8.2 | 19.0 |
| 9 8 | 21 0.82 | −17 23.4 | 1.702 | 2.606 | 12.1 | 19.3 |
| 9 18 | 20 57.79 | −18 20.7 | 1.789 | 2.610 | 15.4 | 19.5 |

**20554** 1999 $RW_{114}$ 8 10.1 63°.51 1°.3/11.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.75 | −11 16.0 | 2.030 | 2.912 | 11.9 | 18.1 |
| 7 20 | 21 36.90 | −11 14.9 | 1.971 | 2.921 | 8.6 | 17.9 |
| 7 30 | 21 29.48 | −11 22.0 | 1.936 | 2.930 | 4.9 | 17.7 |
| 8 9 | 21 21.18 | −11 34.7 | 1.928 | 2.939 | 1.5 | 17.5 |
| 8 19 | 21 12.84 | −11 50.2 | 1.947 | 2.949 | 3.4 | 17.6 |
| 8 29 | 21 5.32 | −12 5.2 | 1.994 | 2.958 | 7.1 | 17.9 |
| 9 8 | 20 59.37 | −12 17.2 | 2.066 | 2.968 | 10.4 | 18.1 |
| 9 18 | 20 55.44 | −12 24.4 | 2.160 | 2.978 | 13.2 | 18.3 |

**93404** 2000 $SQ_{293}$ 8 10.1 8°.01 8°.5/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.25 | −33 45.4 | 1.193 | 2.106 | 16.2 | 18.3 |
| 7 20 | 21 43.24 | −34 4.5 | 1.149 | 2.107 | 12.6 | 18.1 |
| 7 30 | 21 33.19 | −34 8.5 | 1.126 | 2.109 | 9.4 | 17.9 |
| 8 9 | 21 21.54 | −33 49.3 | 1.125 | 2.112 | 8.5 | 17.9 |
| 8 19 | 21 10.10 | −33 2.8 | 1.146 | 2.117 | 10.6 | 18.0 |
| 8 29 | 21 0.60 | −31 50.7 | 1.190 | 2.123 | 14.0 | 18.2 |
| 9 8 | 20 54.25 | −30 18.7 | 1.255 | 2.129 | 17.6 | 18.5 |
| 9 18 | 20 51.52 | −28 33.8 | 1.336 | 2.137 | 20.7 | 18.7 |

**386423** 2008 $VJ_{1}$ 8 10.1 329°.81 6°.4/ 7.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.49 | −29 41.5 | 1.376 | 2.287 | 14.6 | 19.9 |
| 7 20 | 21 41.93 | −30 4.3 | 1.313 | 2.274 | 11.0 | 19.7 |
| 7 30 | 21 32.56 | −30 18.8 | 1.272 | 2.261 | 7.6 | 19.4 |
| 8 9 | 21 21.50 | −30 17.2 | 1.254 | 2.250 | 6.5 | 19.3 |
| 8 19 | 21 10.26 | −29 54.5 | 1.260 | 2.239 | 8.8 | 19.5 |
| 8 29 | 21 0.43 | −29 9.3 | 1.290 | 2.228 | 12.7 | 19.6 |
| 9 8 | 20 53.30 | −28 4.6 | 1.341 | 2.219 | 16.5 | 19.9 |
| 9 18 | 20 49.52 | −26 45.1 | 1.411 | 2.210 | 19.9 | 20.1 |

**512504** 2016 $RP_{11}$ 8 10.1 326°.21 3°.1/ 7.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.21 | −18 10.7 | 1.349 | 2.268 | 14.3 | 20.3 |
| 7 20 | 21 35.36 | −19 35.8 | 1.281 | 2.252 | 10.1 | 20.1 |
| 7 30 | 21 29.07 | −21 11.5 | 1.234 | 2.237 | 5.6 | 19.8 |
| 8 9 | 21 21.17 | −22 48.7 | 1.212 | 2.222 | 3.2 | 19.6 |
| 8 19 | 21 12.83 | −24 17.1 | 1.214 | 2.207 | 6.8 | 19.8 |
| 8 29 | 21 5.44 | −25 28.1 | 1.240 | 2.194 | 11.6 | 20.0 |
| 9 8 | 21 0.22 | −26 16.6 | 1.288 | 2.181 | 15.9 | 20.2 |
| 9 18 | 20 57.96 | −26 41.7 | 1.353 | 2.170 | 19.7 | 20.4 |

**264024** 2009 $QB_{8}$ 8 10.1 346°.13 4°.1/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.62 | − 2 49.2 | 2.039 | 2.897 | 12.9 | 20.1 |
| 7 20 | 21 34.81 | − 2 40.7 | 1.966 | 2.894 | 10.0 | 19.9 |
| 7 30 | 21 28.42 | − 2 46.9 | 1.916 | 2.891 | 6.9 | 19.7 |
| 8 9 | 21 21.10 | − 3 6.7 | 1.890 | 2.888 | 4.5 | 19.6 |
| 8 19 | 21 13.59 | − 3 37.6 | 1.892 | 2.885 | 4.7 | 19.6 |
| 8 29 | 21 6.76 | − 4 15.7 | 1.919 | 2.883 | 7.3 | 19.7 |
| 9 8 | 21 1.34 | − 4 56.7 | 1.972 | 2.882 | 10.4 | 19.9 |
| 9 18 | 20 57.86 | − 5 36.1 | 2.047 | 2.880 | 13.3 | 20.1 |

**401735** 2013 $JE_{26}$ 8 10.1 163°.78 6°.3/17.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.35 | + 9 17.5 | 2.771 | 3.546 | 12.0 | 20.9 |
| 7 20 | 21 33.59 | + 9 18.7 | 2.694 | 3.549 | 10.2 | 20.8 |
| 7 30 | 21 27.65 | + 9 1.9 | 2.638 | 3.552 | 8.3 | 20.6 |
| 8 9 | 21 21.02 | + 8 27.2 | 2.606 | 3.555 | 6.8 | 20.5 |
| 8 19 | 21 14.27 | + 7 36.3 | 2.601 | 3.557 | 6.3 | 20.5 |
| 8 29 | 21 8.01 | + 6 32.6 | 2.624 | 3.559 | 7.1 | 20.6 |
| 9 8 | 21 2.79 | + 5 20.6 | 2.672 | 3.561 | 8.8 | 20.7 |
| 9 18 | 20 59.04 | + 4 5.4 | 2.745 | 3.562 | 10.7 | 20.8 |

**258721** 2002 $GS_{84}$ 8 10.1 60°.48 6°.0/ 6.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.16 | −25 47.4 | 1.284 | 2.202 | 15.0 | 19.9 |
| 7 20 | 21 40.21 | −27 8.2 | 1.242 | 2.209 | 10.9 | 19.7 |
| 7 30 | 21 31.57 | −28 26.5 | 1.222 | 2.216 | 7.2 | 19.5 |
| 8 9 | 21 21.41 | −29 31.6 | 1.226 | 2.224 | 6.2 | 19.5 |
| 8 19 | 21 11.19 | −30 15.5 | 1.254 | 2.232 | 8.9 | 19.6 |
| 8 29 | 21 2.46 | −30 34.1 | 1.305 | 2.240 | 12.8 | 19.9 |
| 9 8 | 20 56.37 | −30 28.2 | 1.376 | 2.248 | 16.5 | 20.1 |
| 9 18 | 20 53.52 | −30 1.3 | 1.465 | 2.256 | 19.6 | 20.4 |

**249363** 2008 $YG_{142}$ 8 10.1 68°.68 0°.4/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.78 | −15 35.4 | 1.804 | 2.700 | 12.5 | 20.6 |
| 7 20 | 21 37.85 | −15 52.9 | 1.745 | 2.705 | 8.8 | 20.4 |
| 7 30 | 21 30.08 | −16 16.3 | 1.710 | 2.710 | 4.7 | 20.1 |
| 8 9 | 21 21.27 | −16 41.6 | 1.701 | 2.715 | 0.6 | 19.8 |
| 8 19 | 21 12.38 | −17 4.6 | 1.719 | 2.720 | 4.0 | 20.1 |
| 8 29 | 21 4.42 | −17 21.7 | 1.764 | 2.725 | 8.1 | 20.4 |
| 9 8 | 20 58.26 | −17 30.8 | 1.833 | 2.730 | 11.8 | 20.6 |
| 9 18 | 20 54.41 | −17 30.8 | 1.923 | 2.735 | 14.8 | 20.8 |

**97048** 1999 $US_{42}$ 8 10.1 232°.10 5°.5/14.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.43 | + 1 32.4 | 2.157 | 2.987 | 13.3 | 19.8 |
| 7 20 | 21 36.80 | + 1 47.8 | 2.073 | 2.977 | 10.7 | 19.6 |
| 7 30 | 21 29.53 | + 1 46.4 | 2.010 | 2.967 | 8.0 | 19.4 |
| 8 9 | 21 21.23 | + 1 28.2 | 1.973 | 2.956 | 5.9 | 19.3 |
| 8 19 | 21 12.65 | + 0 55.2 | 1.962 | 2.945 | 5.8 | 19.3 |
| 8 29 | 21 4.65 | + 0 10.7 | 1.979 | 2.933 | 7.9 | 19.4 |
| 9 8 | 20 58.04 | − 0 40.3 | 2.021 | 2.921 | 10.7 | 19.5 |
| 9 18 | 20 53.37 | − 1 32.8 | 2.086 | 2.909 | 13.4 | 19.7 |

**16014** Sinha 8 10.1 139°.28 1°.5/ 8.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.08 | −17 39.3 | 2.013 | 2.911 | 11.3 | 18.6 |
| 7 20 | 21 36.58 | −18 21.4 | 1.952 | 2.913 | 7.9 | 18.4 |
| 7 30 | 21 29.39 | −19 8.1 | 1.915 | 2.915 | 4.2 | 18.2 |
| 8 9 | 21 21.21 | −19 54.6 | 1.905 | 2.917 | 1.5 | 18.0 |
| 8 19 | 21 12.91 | −20 36.1 | 1.922 | 2.918 | 4.3 | 18.2 |
| 8 29 | 21 5.40 | −21 8.6 | 1.966 | 2.920 | 8.0 | 18.5 |
| 9 8 | 20 59.48 | −21 29.8 | 2.035 | 2.921 | 11.3 | 18.7 |
| 9 18 | 20 55.66 | −21 39.2 | 2.126 | 2.923 | 14.1 | 18.9 |

**495877** 2004 $RP_{124}$ 8 10.1 352°.39 1°.9/11.4 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.72 | − 9 13.5 | 1.647 | 2.539 | 13.7 | 21.2 |
| 7 20 | 21 34.48 | − 9 26.9 | 1.580 | 2.534 | 10.0 | 21.0 |
| 7 30 | 21 28.36 | − 9 53.5 | 1.534 | 2.529 | 6.0 | 20.7 |
| 8 9 | 21 21.12 | −10 30.1 | 1.514 | 2.525 | 2.2 | 20.5 |
| 8 19 | 21 13.67 | −11 12.1 | 1.519 | 2.522 | 4.0 | 20.6 |
| 8 29 | 21 7.05 | −11 54.3 | 1.549 | 2.519 | 8.1 | 20.8 |
| 9 8 | 21 2.15 | −12 32.1 | 1.603 | 2.518 | 12.1 | 21.1 |
| 9 18 | 20 59.56 | −13 1.9 | 1.678 | 2.517 | 15.4 | 21.3 |

**346526** 2008 $UA_{187}$ 8 10.1 306°.30 0°.5/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.70 | −14 17.4 | 1.638 | 2.539 | 13.3 | 20.9 |
| 7 20 | 21 36.69 | −14 56.7 | 1.569 | 2.530 | 9.4 | 20.6 |
| 7 30 | 21 29.61 | −15 45.7 | 1.522 | 2.522 | 5.1 | 20.3 |
| 8 9 | 21 21.25 | −16 39.3 | 1.500 | 2.513 | 0.6 | 20.0 |
| 8 19 | 21 12.61 | −17 31.3 | 1.504 | 2.505 | 4.4 | 20.3 |
| 8 29 | 21 4.83 | −18 16.2 | 1.535 | 2.497 | 8.9 | 20.5 |
| 9 8 | 20 58.90 | −18 50.0 | 1.588 | 2.490 | 13.0 | 20.7 |
| 9 18 | 20 55.48 | −19 10.8 | 1.662 | 2.482 | 16.4 | 21.0 |

**313936** 2004 $RS_{98}$ 8 10.1 351°.36 0°.6/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.91 | −17 16.8 | 1.816 | 2.714 | 12.3 | 19.8 |
| 7 20 | 21 37.99 | −17 10.7 | 1.750 | 2.711 | 8.7 | 19.6 |
| 7 30 | 21 30.18 | −17 8.2 | 1.707 | 2.707 | 4.7 | 19.3 |
| 8 9 | 21 21.30 | −17 5.9 | 1.691 | 2.705 | 0.7 | 19.0 |
| 8 19 | 21 12.29 | −17 0.9 | 1.702 | 2.702 | 4.0 | 19.3 |
| 8 29 | 21 4.21 | −16 51.1 | 1.739 | 2.701 | 8.2 | 19.5 |
| 9 8 | 20 57.92 | −16 35.1 | 1.801 | 2.700 | 11.8 | 19.8 |
| 9 18 | 20 53.98 | −16 12.6 | 1.883 | 2.699 | 15.0 | 20.0 |

**434703** 2006 $BG_{283}$ 8 10.1 141°.28 1°.9/ 8.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.58 | −18 52.3 | 1.985 | 2.881 | 11.5 | 21.8 |
| 7 20 | 21 38.33 | −19 37.5 | 1.929 | 2.889 | 8.1 | 21.6 |
| 7 30 | 21 30.32 | −20 26.2 | 1.898 | 2.897 | 4.4 | 21.4 |
| 8 9 | 21 21.32 | −21 12.9 | 1.894 | 2.905 | 1.9 | 21.2 |
| 8 19 | 21 12.24 | −21 52.7 | 1.918 | 2.912 | 4.6 | 21.4 |
| 8 29 | 21 4.06 | −22 22.0 | 1.970 | 2.919 | 8.2 | 21.7 |
| 9 8 | 20 57.57 | −22 39.0 | 2.046 | 2.925 | 11.5 | 21.9 |
| 9 18 | 20 53.30 | −22 43.7 | 2.143 | 2.931 | 14.3 | 22.1 |

**227150** 2005 $PM_{15}$ 8 10.1 358°.03 1°.1/ 9.5 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 36.05 | −15 17.4 | 0.916 | 1.851 | 17.6 | 19.8 |
| 7 20 | 21 33.56 | −15 51.6 | 0.866 | 1.844 | 12.5 | 19.5 |
| 7 30 | 21 28.22 | −16 39.3 | 0.835 | 1.839 | 6.7 | 19.1 |
| 8 9 | 21 21.13 | −17 32.5 | 0.823 | 1.837 | 1.1 | 18.8 |
| 8 19 | 21 13.79 | −18 22.1 | 0.833 | 1.836 | 6.1 | 19.1 |
| 8 29 | 21 7.87 | −18 59.6 | 0.863 | 1.838 | 12.0 | 19.4 |
| 9 8 | 21 4.69 | −19 20.1 | 0.911 | 1.842 | 17.2 | 19.7 |
| 9 18 | 21 4.91 | −19 22.0 | 0.976 | 1.847 | 21.5 | 20.0 |

**259870** 2004 $CY_{122}$ 8 10.1 255°.19 0°.1/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.47 | −14 7.4 | 1.662 | 2.556 | 13.5 | 21.4 |
| 7 20 | 21 39.43 | −14 32.7 | 1.583 | 2.541 | 9.7 | 21.2 |
| 7 30 | 21 31.15 | −15 7.2 | 1.527 | 2.525 | 5.3 | 20.9 |
| 8 9 | 21 21.42 | −15 46.4 | 1.496 | 2.510 | 0.5 | 20.5 |
| 8 19 | 21 11.30 | −16 24.8 | 1.492 | 2.493 | 4.4 | 20.7 |
| 8 29 | 21 2.01 | −16 57.6 | 1.515 | 2.477 | 9.1 | 21.0 |
| 9 8 | 20 54.64 | −17 21.0 | 1.561 | 2.460 | 13.3 | 21.2 |
| 9 18 | 20 49.91 | −17 33.4 | 1.628 | 2.443 | 17.0 | 21.4 |

**57909** 2002 $ED_{33}$ 8 10.1 206°.98 5°.8/ 6.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.38 | −30 47.4 | 1.957 | 2.851 | 11.7 | 20.4 |
| 7 20 | 21 41.92 | −31 29.8 | 1.897 | 2.848 | 8.9 | 20.3 |
| 7 30 | 21 32.33 | −32 5.2 | 1.862 | 2.844 | 6.4 | 20.1 |
| 8 9 | 21 21.53 | −32 27.1 | 1.853 | 2.839 | 5.9 | 20.1 |
| 8 19 | 21 10.62 | −32 31.2 | 1.871 | 2.835 | 7.7 | 20.2 |
| 8 29 | 21 0.81 | −32 15.6 | 1.915 | 2.829 | 10.6 | 20.3 |
| 9 8 | 20 53.05 | −31 42.0 | 1.982 | 2.824 | 13.4 | 20.5 |
| 9 18 | 20 47.93 | −30 53.5 | 2.069 | 2.818 | 15.9 | 20.7 |

**111948** 2002 $GG_{56}$ 8 10.1 109°.83 0°.7/10.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.60 | −12 39.7 | 1.483 | 2.376 | 14.9 | 20.0 |
| 7 20 | 21 40.77 | −12 54.1 | 1.432 | 2.389 | 10.6 | 19.7 |
| 7 30 | 21 31.72 | −13 18.6 | 1.404 | 2.401 | 5.9 | 19.5 |
| 8 9 | 21 21.46 | −13 48.4 | 1.400 | 2.413 | 1.0 | 19.2 |
| 8 19 | 21 11.19 | −14 18.6 | 1.423 | 2.425 | 4.3 | 19.5 |
| 8 29 | 21 2.16 | −14 44.5 | 1.472 | 2.437 | 9.0 | 19.8 |
| 9 8 | 20 55.35 | −15 2.8 | 1.544 | 2.448 | 13.2 | 20.1 |
| 9 18 | 20 51.31 | −15 12.0 | 1.637 | 2.459 | 16.6 | 20.3 |

**168469** 1999 $KS_{10}$ 8 10.1 117°.51 3°.4/ 7.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.41 | −20 11.2 | 1.456 | 2.364 | 14.1 | 19.9 |
| 7 20 | 21 40.10 | −21 23.2 | 1.409 | 2.374 | 9.9 | 19.7 |
| 7 30 | 21 31.44 | −22 39.1 | 1.385 | 2.384 | 5.6 | 19.4 |
| 8 9 | 21 21.45 | −23 50.0 | 1.386 | 2.394 | 3.4 | 19.3 |
| 8 19 | 21 11.37 | −24 48.2 | 1.413 | 2.403 | 6.5 | 19.5 |
| 8 29 | 21 2.54 | −25 28.5 | 1.465 | 2.412 | 10.7 | 19.8 |
| 9 8 | 20 56.02 | −25 49.2 | 1.539 | 2.420 | 14.5 | 20.1 |
| 9 18 | 20 52.40 | −25 51.5 | 1.633 | 2.429 | 17.7 | 20.3 |

**401678** 2013 $GA_{133}$ 8 10.1 85°.99 0°.9/ 9.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.94 | −17 6.3 | 2.241 | 3.134 | 10.5 | 21.1 |
| 7 20 | 21 36.29 | −17 29.4 | 2.183 | 3.142 | 7.4 | 20.9 |
| 7 30 | 21 29.16 | −17 56.3 | 2.150 | 3.150 | 3.9 | 20.7 |
| 8 9 | 21 21.23 | −18 23.4 | 2.144 | 3.157 | 0.9 | 20.5 |
| 8 19 | 21 13.24 | −18 47.0 | 2.166 | 3.165 | 3.6 | 20.7 |
| 8 29 | 21 6.00 | −19 4.5 | 2.216 | 3.172 | 7.0 | 21.0 |
| 9 8 | 21 0.20 | −19 13.9 | 2.292 | 3.180 | 10.1 | 21.2 |
| 9 18 | 20 56.30 | −19 14.8 | 2.389 | 3.187 | 12.7 | 21.4 |

**360696** 2004 $SE_{58}$ 8 10.1 316°.19 6°.7/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 37.54 | + 6 3.7 | 2.046 | 2.862 | 14.4 | 20.4 |
| 7 20 | 21 33.46 | + 6 1.3 | 1.959 | 2.848 | 12.0 | 20.2 |
| 7 30 | 21 27.79 | + 5 36.6 | 1.893 | 2.835 | 9.4 | 20.0 |
| 8 9 | 21 21.11 | + 4 49.6 | 1.851 | 2.822 | 7.3 | 19.8 |
| 8 19 | 21 14.14 | + 3 42.7 | 1.833 | 2.809 | 6.8 | 19.8 |
| 8 29 | 21 7.74 | + 2 20.7 | 1.842 | 2.796 | 8.4 | 19.8 |
| 9 8 | 21 2.68 | + 0 50.4 | 1.876 | 2.784 | 10.9 | 20.0 |
| 9 18 | 20 59.54 | − 0 41.2 | 1.932 | 2.772 | 13.7 | 20.1 |

**451169** 2009 $SO_{215}$ 8 10.1 276°.89 1°.5/ 8.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.38 | −19 4.5 | 2.438 | 3.332 | 9.7 | 22.0 |
| 7 20 | 21 35.99 | −19 33.8 | 2.355 | 3.314 | 6.9 | 21.8 |
| 7 30 | 21 29.08 | −20 6.0 | 2.296 | 3.296 | 3.7 | 21.5 |
| 8 9 | 21 21.23 | −20 37.5 | 2.266 | 3.277 | 1.5 | 21.4 |
| 8 19 | 21 13.15 | −21 4.6 | 2.263 | 3.258 | 3.9 | 21.5 |
| 8 29 | 21 5.62 | −21 24.3 | 2.289 | 3.239 | 7.2 | 21.7 |
| 9 8 | 20 59.37 | −21 34.6 | 2.340 | 3.220 | 10.2 | 21.8 |
| 9 18 | 20 54.95 | −21 35.1 | 2.413 | 3.201 | 12.9 | 22.0 |

**510589** 2012 $SG_{19}$ 8 10.1 289°.37 3°.3/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.54 | − 8 3.7 | 1.690 | 2.567 | 14.2 | 21.4 |
| 7 20 | 21 39.45 | − 7 34.5 | 1.605 | 2.548 | 10.7 | 21.1 |
| 7 30 | 21 31.17 | − 7 16.2 | 1.542 | 2.529 | 6.8 | 20.9 |
| 8 9 | 21 21.46 | − 7 8.2 | 1.504 | 2.511 | 3.6 | 20.6 |
| 8 19 | 21 11.33 | − 7 8.4 | 1.493 | 2.492 | 4.8 | 20.7 |
| 8 29 | 21 1.96 | − 7 14.1 | 1.508 | 2.473 | 8.8 | 20.9 |
| 9 8 | 20 54.42 | − 7 21.7 | 1.547 | 2.454 | 12.9 | 21.1 |
| 9 18 | 20 49.45 | − 7 28.1 | 1.607 | 2.436 | 16.5 | 21.2 |

**224110** 2005 $PV_{3}$ 8 10.1 359°.91 2°.6/ 8.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.98 | −19 10.5 | 0.975 | 1.908 | 17.0 | 19.2 |
| 7 20 | 21 36.28 | −19 36.8 | 0.926 | 1.903 | 12.1 | 19.0 |
| 7 30 | 21 29.66 | −20 9.2 | 0.897 | 1.901 | 6.6 | 18.7 |
| 8 9 | 21 21.30 | −20 39.7 | 0.888 | 1.900 | 2.6 | 18.4 |
| 8 19 | 21 12.76 | −21 0.8 | 0.900 | 1.901 | 6.8 | 18.7 |
| 8 29 | 21 5.75 | −21 7.3 | 0.934 | 1.903 | 12.2 | 19.0 |
| 9 8 | 21 1.55 | −20 57.0 | 0.987 | 1.907 | 17.1 | 19.3 |
| 9 18 | 21 0.80 | −20 30.7 | 1.056 | 1.913 | 21.2 | 19.6 |

**339404** 2005 $CG_{24}$ 8 10.1 255°.87 0°.1/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.76 | −12 26.9 | 2.210 | 3.092 | 11.1 | 21.4 |
| 7 20 | 21 37.15 | −13 11.5 | 2.117 | 3.069 | 8.0 | 21.1 |
| 7 30 | 21 29.81 | −14 5.9 | 2.049 | 3.046 | 4.4 | 20.9 |
| 8 9 | 21 21.32 | −15 6.1 | 2.008 | 3.022 | 0.5 | 20.5 |
| 8 19 | 21 12.45 | −16 7.4 | 1.997 | 2.997 | 3.5 | 20.7 |
| 8 29 | 21 4.08 | −17 4.6 | 2.013 | 2.972 | 7.4 | 20.9 |
| 9 8 | 20 57.07 | −17 53.8 | 2.056 | 2.946 | 11.0 | 21.1 |
| 9 18 | 20 52.05 | −18 32.4 | 2.121 | 2.919 | 14.1 | 21.3 |

**494327** 2016 $TL_{13}$ 8 10.1 266°.35 0°.5/ 9.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.28 | −15 54.8 | 1.987 | 2.881 | 11.6 | 21.2 |
| 7 20 | 21 37.52 | −16 13.5 | 1.913 | 2.871 | 8.3 | 21.0 |
| 7 30 | 21 29.97 | −16 37.9 | 1.863 | 2.862 | 4.4 | 20.7 |
| 8 9 | 21 21.33 | −17 4.0 | 1.839 | 2.852 | 0.6 | 20.4 |
| 8 19 | 21 12.47 | −17 27.9 | 1.843 | 2.843 | 3.9 | 20.7 |
| 8 29 | 21 4.36 | −17 46.2 | 1.874 | 2.833 | 7.9 | 20.9 |
| 9 8 | 20 57.85 | −17 56.5 | 1.929 | 2.823 | 11.4 | 21.1 |
| 9 18 | 20 53.52 | −17 57.7 | 2.007 | 2.813 | 14.5 | 21.3 |

**456202** 2006 $JQ_{16}$ 8 10.1 118°.56 0°.4/10.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.31 | −11 49.3 | 1.491 | 2.384 | 14.8 | 21.4 |
| 7 20 | 21 39.89 | −12 29.8 | 1.440 | 2.397 | 10.6 | 21.2 |
| 7 30 | 21 31.29 | −13 22.2 | 1.412 | 2.410 | 5.8 | 20.9 |
| 8 9 | 21 21.47 | −14 20.7 | 1.408 | 2.422 | 0.8 | 20.6 |
| 8 19 | 21 11.58 | −15 18.5 | 1.432 | 2.434 | 4.4 | 20.9 |
| 8 29 | 21 2.87 | −16 9.7 | 1.481 | 2.445 | 9.1 | 21.2 |
| 9 8 | 20 56.32 | −16 49.9 | 1.554 | 2.456 | 13.2 | 21.5 |
| 9 18 | 20 52.50 | −17 17.4 | 1.647 | 2.466 | 16.6 | 21.7 |

**250769** 2005 $SX_{279}$ 8 10.1 352°.35 6°.4/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.44 | + 5 34.1 | 2.055 | 2.873 | 14.3 | 20.5 |
| 7 20 | 21 34.01 | + 5 29.8 | 1.981 | 2.871 | 11.8 | 20.3 |
| 7 30 | 21 28.04 | + 5 3.7 | 1.927 | 2.870 | 9.1 | 20.1 |
| 8 9 | 21 21.14 | + 4 16.6 | 1.897 | 2.870 | 7.0 | 20.0 |
| 8 19 | 21 14.06 | + 3 11.2 | 1.892 | 2.869 | 6.5 | 20.0 |
| 8 29 | 21 7.61 | + 1 52.6 | 1.914 | 2.868 | 8.1 | 20.1 |
| 9 8 | 21 2.54 | + 0 27.5 | 1.961 | 2.868 | 10.6 | 20.2 |
| 9 18 | 20 59.36 | − 0 57.9 | 2.031 | 2.868 | 13.2 | 20.4 |

**191044** 2002 $CQ_{31}$ 8 10.1 28°.86 5°.0/ 7.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.83 | −27 43.7 | 1.465 | 2.371 | 14.2 | 19.0 |
| 7 20 | 21 43.20 | −27 52.4 | 1.415 | 2.375 | 10.4 | 18.8 |
| 7 30 | 21 33.08 | −27 54.1 | 1.387 | 2.380 | 6.7 | 18.6 |
| 8 9 | 21 21.64 | −27 42.7 | 1.384 | 2.385 | 5.0 | 18.5 |
| 8 19 | 21 10.31 | −27 14.8 | 1.407 | 2.391 | 7.4 | 18.7 |
| 8 29 | 21 0.50 | −26 30.1 | 1.454 | 2.397 | 11.2 | 18.9 |
| 9 8 | 20 53.29 | −25 31.2 | 1.525 | 2.403 | 14.8 | 19.1 |
| 9 18 | 20 49.18 | −24 22.0 | 1.614 | 2.410 | 17.9 | 19.4 |

**298181** 2002 $TW_{172}$ 8 10.1 295°.42 9°.5/ 2.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.41 | −39 24.5 | 1.806 | 2.693 | 13.0 | 20.1 |
| 7 20 | 21 42.49 | −40 31.5 | 1.742 | 2.672 | 10.9 | 19.9 |
| 7 30 | 21 32.90 | −41 25.3 | 1.700 | 2.651 | 9.6 | 19.8 |
| 8 9 | 21 21.65 | −41 56.8 | 1.681 | 2.630 | 9.8 | 19.8 |
| 8 19 | 21 10.08 | −42 0.1 | 1.687 | 2.609 | 11.4 | 19.8 |
| 8 29 | 20 59.71 | −41 33.4 | 1.716 | 2.588 | 13.9 | 19.9 |
| 9 8 | 20 51.78 | −40 39.7 | 1.764 | 2.567 | 16.4 | 20.1 |
| 9 18 | 20 47.01 | −39 24.3 | 1.831 | 2.547 | 18.8 | 20.2 |

**510740** 2012 $WG_{13}$ 8 10.1 201°.21 1°.8/ 8.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.71 | −18 14.6 | 1.977 | 2.875 | 11.5 | 22.0 |
| 7 20 | 21 37.11 | −19 1.8 | 1.913 | 2.874 | 8.0 | 21.8 |
| 7 30 | 21 29.74 | −19 53.7 | 1.873 | 2.873 | 4.3 | 21.5 |
| 8 9 | 21 21.32 | −20 44.9 | 1.860 | 2.871 | 1.8 | 21.4 |
| 8 19 | 21 12.73 | −21 30.2 | 1.874 | 2.869 | 4.6 | 21.6 |
| 8 29 | 21 4.93 | −22 5.4 | 1.916 | 2.867 | 8.3 | 21.8 |
| 9 8 | 20 58.76 | −22 28.4 | 1.982 | 2.865 | 11.7 | 22.0 |
| 9 18 | 20 54.77 | −22 38.3 | 2.069 | 2.863 | 14.5 | 22.2 |

**393614** 2003 $YW_{77}$ 8 10.1 205°.94 3°.9/ 6.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.28 | −24 42.8 | 2.169 | 3.069 | 10.5 | 21.4 |
| 7 20 | 21 37.48 | −25 50.1 | 2.106 | 3.066 | 7.6 | 21.2 |
| 7 30 | 21 29.94 | −26 57.1 | 2.069 | 3.062 | 4.8 | 21.0 |
| 8 9 | 21 21.35 | −27 57.6 | 2.059 | 3.058 | 4.0 | 21.0 |
| 8 19 | 21 12.56 | −28 46.2 | 2.078 | 3.054 | 6.1 | 21.1 |
| 8 29 | 21 4.52 | −29 19.4 | 2.122 | 3.049 | 9.0 | 21.3 |
| 9 8 | 20 58.06 | −29 35.9 | 2.191 | 3.044 | 11.9 | 21.4 |
| 9 18 | 20 53.73 | −29 36.6 | 2.280 | 3.039 | 14.4 | 21.6 |

**317961** 2003 $YM_{19}$ 8 10.1 96°.09 4°.5/ 7.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.34 | −22 42.9 | 1.431 | 2.344 | 14.0 | 20.2 |
| 7 20 | 21 39.48 | −24 0.4 | 1.382 | 2.349 | 10.0 | 20.0 |
| 7 30 | 21 31.19 | −25 19.4 | 1.356 | 2.354 | 6.0 | 19.8 |
| 8 9 | 21 21.48 | −26 30.6 | 1.355 | 2.359 | 4.6 | 19.7 |
| 8 19 | 21 11.63 | −27 26.2 | 1.379 | 2.364 | 7.5 | 19.9 |
| 8 29 | 21 3.02 | −28 0.9 | 1.428 | 2.368 | 11.5 | 20.1 |
| 9 8 | 20 56.75 | −28 13.8 | 1.498 | 2.373 | 15.2 | 20.4 |
| 9 18 | 20 53.43 | −28 6.9 | 1.586 | 2.378 | 18.3 | 20.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **294987** 2008 $EK_{20}$ | | | 8 10.1 222°.06 | | 0°.8/10.7 17 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.32 | −11 28.8 | 1.779 | 2.663 | 13.2 | 21.8 |
| 7 20 | 21 39.16 | −11 52.8 | 1.703 | 2.655 | 9.6 | 21.6 |
| 7 30 | 21 30.95 | −12 27.5 | 1.651 | 2.647 | 5.4 | 21.3 |
| 8 9 | 21 21.47 | −13 9.1 | 1.625 | 2.638 | 1.2 | 21.0 |
| 8 19 | 21 11.68 | −13 52.7 | 1.626 | 2.628 | 3.9 | 21.2 |
| 8 29 | 21 2.71 | −14 33.3 | 1.655 | 2.618 | 8.3 | 21.5 |
| 9 8 | 20 55.53 | −15 7.0 | 1.708 | 2.608 | 12.3 | 21.7 |
| 9 18 | 20 50.79 | −15 31.2 | 1.782 | 2.596 | 15.7 | 21.9 |
| **7290** Johnrather | | | 8 10.1 356°.00 | | 19°.9/ 1.1 18 | |
| 7 10 | 21 33.96 | +28 21.8 | 1.277 | 1.987 | 26.4 | 17.1 |
| 7 20 | 21 31.77 | +29 52.6 | 1.217 | 1.980 | 25.0 | 17.0 |
| 7 30 | 21 27.20 | +30 37.9 | 1.167 | 1.975 | 23.4 | 16.8 |
| 8 9 | 21 21.09 | +30 29.9 | 1.130 | 1.971 | 21.9 | 16.7 |
| 8 19 | 21 14.58 | +29 24.5 | 1.105 | 1.969 | 20.6 | 16.6 |
| 8 29 | 21 9.04 | +27 24.0 | 1.096 | 1.968 | 20.0 | 16.6 |
| 9 8 | 21 5.71 | +24 38.5 | 1.104 | 1.970 | 20.1 | 16.6 |
| 9 18 | 21 5.35 | +21 23.3 | 1.130 | 1.973 | 21.1 | 16.7 |
| **443295** 2014 $FY_{14}$ | | | 8 10.1 26°.38 | | 2°.3/ 8.3 18 | |
| 7 10 | 21 40.10 | −17 32.3 | 1.588 | 2.498 | 13.1 | 20.1 |
| 7 20 | 21 35.52 | −18 46.2 | 1.537 | 2.505 | 9.1 | 19.8 |
| 7 30 | 21 28.96 | −20 6.9 | 1.510 | 2.512 | 4.9 | 19.6 |
| 8 9 | 21 21.26 | −21 26.8 | 1.509 | 2.519 | 2.3 | 19.5 |
| 8 19 | 21 13.43 | −22 38.4 | 1.533 | 2.527 | 5.5 | 19.7 |
| 8 29 | 21 6.59 | −23 35.7 | 1.583 | 2.536 | 9.5 | 19.9 |
| 9 8 | 21 1.63 | −24 15.6 | 1.655 | 2.545 | 13.2 | 20.2 |
| 9 18 | 20 59.13 | −24 37.5 | 1.748 | 2.555 | 16.3 | 20.4 |
| **517131** 2013 $HZ_{106}$ | | | 8 10.1 225°.12 | | 1°.0/ 9.2 18 | |
| 7 10 | 21 41.36 | −17 0.2 | 2.477 | 3.368 | 9.8 | 22.6 |
| 7 20 | 21 35.90 | −17 33.3 | 2.403 | 3.361 | 6.9 | 22.4 |
| 7 30 | 21 29.01 | −18 10.6 | 2.354 | 3.354 | 3.7 | 22.2 |
| 8 9 | 21 21.27 | −18 48.5 | 2.334 | 3.346 | 1.0 | 22.0 |
| 8 19 | 21 13.35 | −19 23.4 | 2.341 | 3.339 | 3.5 | 22.2 |
| 8 29 | 21 6.03 | −19 51.9 | 2.377 | 3.331 | 6.8 | 22.4 |
| 9 8 | 20 59.97 | −20 12.0 | 2.439 | 3.322 | 9.8 | 22.6 |
| 9 18 | 20 55.66 | −20 22.7 | 2.524 | 3.314 | 12.3 | 22.7 |
| **307124** 2002 $CL_{127}$ | | | 8 10.1 183°.51 | | 0°.4/ 9.8 18 | |
| 7 10 | 21 39.96 | −13 37.4 | 2.242 | 3.131 | 10.7 | 20.5 |
| 7 20 | 21 35.00 | −14 30.3 | 2.174 | 3.131 | 7.5 | 20.3 |
| 7 30 | 21 28.55 | −15 31.1 | 2.132 | 3.131 | 4.0 | 20.1 |
| 8 9 | 21 21.22 | −16 35.4 | 2.117 | 3.130 | 0.5 | 19.8 |
| 8 19 | 21 13.73 | −17 38.2 | 2.130 | 3.130 | 3.5 | 20.1 |
| 8 29 | 21 6.87 | −18 34.9 | 2.172 | 3.130 | 7.0 | 20.3 |
| 9 8 | 21 1.36 | −19 22.0 | 2.239 | 3.129 | 10.2 | 20.5 |
| 9 18 | 20 57.69 | −19 57.9 | 2.328 | 3.129 | 12.9 | 20.7 |
| **256995** 2008 $EJ_{147}$ | | | 8 10.1 151°.57 | | 1°.4/11.1 17 | |
| 7 10 | 21 45.60 | −10 6.7 | 1.797 | 2.677 | 13.3 | 21.6 |
| 7 20 | 21 39.18 | −10 28.2 | 1.736 | 2.685 | 9.7 | 21.4 |
| 7 30 | 21 30.87 | −11 1.0 | 1.698 | 2.692 | 5.6 | 21.1 |
| 8 9 | 21 21.47 | −11 41.2 | 1.686 | 2.698 | 1.6 | 20.9 |
| 8 19 | 21 11.95 | −12 24.1 | 1.702 | 2.704 | 3.8 | 21.1 |
| 8 29 | 21 3.36 | −13 5.1 | 1.745 | 2.709 | 7.9 | 21.3 |
| 9 8 | 20 56.57 | −13 40.1 | 1.813 | 2.714 | 11.7 | 21.6 |
| 9 18 | 20 52.13 | −14 6.7 | 1.902 | 2.718 | 14.8 | 21.8 |
| **20582** Reichenbach | | | 8 10.1 164°.68 | | 1°.5/11.3 18 | |
| 7 10 | 21 43.05 | − 9 21.5 | 2.046 | 2.921 | 12.1 | 19.0 |
| 7 20 | 21 37.24 | − 9 44.9 | 1.979 | 2.925 | 8.8 | 18.8 |
| 7 30 | 21 29.78 | −10 19.0 | 1.936 | 2.928 | 5.2 | 18.6 |
| 8 9 | 21 21.36 | −11 0.7 | 1.920 | 2.931 | 1.7 | 18.4 |
| 8 19 | 21 12.80 | −11 45.7 | 1.932 | 2.934 | 3.5 | 18.5 |
| 8 29 | 21 4.99 | −12 29.7 | 1.972 | 2.936 | 7.2 | 18.7 |
| 9 8 | 20 58.70 | −13 8.8 | 2.037 | 2.938 | 10.6 | 19.0 |
| 9 18 | 20 54.47 | −13 40.5 | 2.125 | 2.939 | 13.5 | 19.2 |
| **360890** 2005 $SB_{110}$ | | | 8 10.1 242°.13 | | 1°.6/11.5 18 | |
| 7 10 | 21 40.35 | − 8 42.5 | 2.358 | 3.230 | 10.9 | 21.8 |
| 7 20 | 21 35.24 | − 9 3.0 | 2.278 | 3.222 | 8.0 | 21.6 |
| 7 30 | 21 28.69 | − 9 33.6 | 2.223 | 3.214 | 4.8 | 21.4 |
| 8 9 | 21 21.25 | −10 11.6 | 2.195 | 3.205 | 1.8 | 21.2 |
| 8 19 | 21 13.62 | −10 53.9 | 2.195 | 3.196 | 3.2 | 21.2 |
| 8 29 | 21 6.55 | −11 36.5 | 2.223 | 3.187 | 6.4 | 21.4 |
| 9 8 | 21 0.73 | −12 15.9 | 2.277 | 3.178 | 9.6 | 21.6 |
| 9 18 | 20 56.66 | −12 49.4 | 2.355 | 3.169 | 12.4 | 21.8 |
| **290804** 2005 $VM_{90}$ | | | 8 10.1 307°.59 | | 5°.8/ 5.4 18 | |
| 7 10 | 21 43.77 | −30 32.8 | 2.004 | 2.906 | 11.2 | 20.4 |
| 7 20 | 21 38.03 | −31 27.6 | 1.941 | 2.895 | 8.5 | 20.2 |
| 7 30 | 21 30.31 | −32 16.9 | 1.902 | 2.884 | 6.3 | 20.1 |
| 8 9 | 21 21.42 | −32 54.2 | 1.889 | 2.873 | 5.9 | 20.0 |
| 8 19 | 21 12.33 | −33 14.7 | 1.902 | 2.863 | 7.8 | 20.1 |
| 8 29 | 21 4.13 | −33 15.7 | 1.940 | 2.853 | 10.5 | 20.3 |
| 9 8 | 20 57.73 | −32 57.7 | 2.000 | 2.843 | 13.3 | 20.4 |
| 9 18 | 20 53.74 | −32 22.9 | 2.081 | 2.833 | 15.8 | 20.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **171140** 2005 $GX_{56}$ | | | 8 10.1 49°.01 | | 1°.6/ 8.9 18 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.50 | −17 43.1 | 1.738 | 2.641 | 12.5 | 20.1 |
| 7 20 | 21 37.06 | −18 24.5 | 1.684 | 2.648 | 8.8 | 19.8 |
| 7 30 | 21 29.74 | −19 10.9 | 1.654 | 2.655 | 4.7 | 19.6 |
| 8 9 | 21 21.36 | −19 56.8 | 1.650 | 2.662 | 1.6 | 19.4 |
| 8 19 | 21 12.89 | −20 36.7 | 1.672 | 2.669 | 4.7 | 19.7 |
| 8 29 | 21 5.39 | −21 6.6 | 1.721 | 2.677 | 8.7 | 19.9 |
| 9 8 | 20 59.71 | −21 24.0 | 1.793 | 2.684 | 12.3 | 20.1 |
| 9 18 | 20 56.38 | −21 28.7 | 1.885 | 2.692 | 15.3 | 20.4 |
| **75605** 2000 $AA_{32}$ | | | 8 10.1 74°.77 | | 4°.8/ 6.9 18 | R |
| 7 10 | 21 45.77 | −23 54.0 | 1.429 | 2.341 | 14.1 | 18.8 |
| 7 20 | 21 39.73 | −25 5.9 | 1.386 | 2.352 | 10.0 | 18.6 |
| 7 30 | 21 31.29 | −26 17.2 | 1.365 | 2.362 | 6.2 | 18.4 |
| 8 9 | 21 21.52 | −27 18.9 | 1.370 | 2.372 | 4.9 | 18.4 |
| 8 19 | 21 11.71 | −28 3.7 | 1.399 | 2.382 | 7.6 | 18.6 |
| 8 29 | 21 3.22 | −28 27.6 | 1.453 | 2.392 | 11.4 | 18.8 |
| 9 8 | 20 57.10 | −28 30.4 | 1.529 | 2.403 | 15.0 | 19.1 |
| 9 18 | 20 53.91 | −28 14.5 | 1.623 | 2.413 | 18.1 | 19.3 |
| **71591** 2000 $DP_{71}$ | | | 8 10.1 239°.13 | | 0°.4/10.5 18 | |
| 7 10 | 21 39.89 | −12 25.8 | 2.703 | 3.582 | 9.4 | 19.5 |
| 7 20 | 21 34.78 | −12 50.5 | 2.622 | 3.572 | 6.7 | 19.3 |
| 7 30 | 21 28.40 | −13 21.9 | 2.566 | 3.561 | 3.7 | 19.1 |
| 8 9 | 21 21.24 | −13 57.2 | 2.537 | 3.551 | 0.6 | 18.8 |
| 8 19 | 21 13.90 | −14 33.4 | 2.538 | 3.540 | 2.8 | 19.0 |
| 8 29 | 21 7.05 | −15 7.4 | 2.568 | 3.528 | 5.9 | 19.2 |
| 9 8 | 21 1.29 | −15 36.4 | 2.624 | 3.517 | 8.8 | 19.3 |
| 9 18 | 20 57.10 | −15 58.9 | 2.704 | 3.505 | 11.3 | 19.5 |
| **336761** 2011 $AP_{4}$ | | | 8 10.1 310°.81 | | 9°.2/ 1.6 17 | |
| 7 10 | 21 41.49 | −21 8.0 | 0.903 | 1.839 | 17.7 | 19.1 |
| 7 20 | 21 38.20 | −25 36.1 | 0.851 | 1.828 | 12.8 | 18.8 |
| 7 30 | 21 31.26 | −30 24.6 | 0.823 | 1.818 | 9.4 | 18.6 |
| 8 9 | 21 21.59 | −35 2.5 | 0.820 | 1.809 | 10.6 | 18.6 |
| 8 19 | 21 10.87 | −38 59.5 | 0.842 | 1.800 | 15.2 | 18.8 |
| 8 29 | 21 1.43 | −41 56.4 | 0.884 | 1.791 | 20.3 | 19.1 |
| 9 8 | 20 55.35 | −43 50.2 | 0.942 | 1.783 | 24.7 | 19.4 |
| 9 18 | 20 53.86 | −44 47.9 | 1.012 | 1.775 | 28.2 | 19.6 |
| **266701** 2009 $QL_{7}$ | | | 8 10.1 323°.50 | | 3°.3/12.6 18 | |
| 7 10 | 21 40.81 | − 5 16.3 | 2.139 | 3.002 | 12.2 | 20.3 |
| 7 20 | 21 35.65 | − 5 4.6 | 2.063 | 2.996 | 9.3 | 20.1 |
| 7 30 | 21 28.94 | − 5 5.0 | 2.010 | 2.991 | 6.1 | 19.9 |
| 8 9 | 21 21.30 | − 5 16.1 | 1.984 | 2.986 | 3.6 | 19.7 |
| 8 19 | 21 13.47 | − 5 35.9 | 1.985 | 2.981 | 4.1 | 19.7 |
| 8 29 | 21 6.29 | − 6 1.1 | 2.012 | 2.977 | 7.0 | 19.9 |
| 9 8 | 21 0.48 | − 6 28.0 | 2.065 | 2.972 | 10.2 | 20.1 |
| 9 18 | 20 56.58 | − 6 53.2 | 2.141 | 2.968 | 13.0 | 20.3 |
| **207731** 2007 $RZ_{187}$ | | | 8 10.1 200°.55 | | 2°.8/ 7.8 18 | |
| 7 10 | 21 43.93 | −22 4.7 | 2.131 | 3.029 | 10.8 | 21.4 |
| 7 20 | 21 37.92 | −22 52.0 | 2.066 | 3.027 | 7.6 | 21.2 |
| 7 30 | 21 30.18 | −23 40.4 | 2.027 | 3.024 | 4.4 | 21.0 |
| 8 9 | 21 21.43 | −24 24.5 | 2.015 | 3.021 | 2.9 | 20.9 |
| 8 19 | 21 12.51 | −24 59.8 | 2.031 | 3.018 | 5.2 | 21.1 |
| 8 29 | 21 4.37 | −25 22.8 | 2.073 | 3.014 | 8.4 | 21.3 |
| 9 8 | 20 57.82 | −25 32.2 | 2.141 | 3.010 | 11.5 | 21.5 |
| 9 18 | 20 53.40 | −25 28.5 | 2.229 | 3.006 | 14.2 | 21.6 |
| **216057** 2006 $PU_{26}$ | | | 8 10.1 352°.98 | | 4°.7/ 7.7 17 | |
| 7 10 | 21 36.14 | −21 20.6 | 0.839 | 1.784 | 17.6 | 19.0 |
| 7 20 | 21 33.97 | −22 13.6 | 0.790 | 1.772 | 12.6 | 18.7 |
| 7 30 | 21 28.62 | −23 12.2 | 0.759 | 1.763 | 7.3 | 18.4 |
| 8 9 | 21 21.29 | −24 5.3 | 0.747 | 1.756 | 4.8 | 18.2 |
| 8 19 | 21 13.64 | −24 42.4 | 0.755 | 1.752 | 8.7 | 18.4 |
| 8 29 | 21 7.56 | −24 56.1 | 0.782 | 1.749 | 14.2 | 18.7 |
| 9 8 | 21 4.52 | −24 44.6 | 0.825 | 1.749 | 19.3 | 19.0 |
| 9 18 | 21 5.20 | −24 9.8 | 0.884 | 1.752 | 23.5 | 19.3 |
| **193233** 2000 $RE_{103}$ | | | 8 10.1 347°.39 | | 10°.0/15.3 18 | |
| 7 10 | 21 39.03 | + 3 30.1 | 1.193 | 2.057 | 19.7 | 18.4 |
| 7 20 | 21 35.32 | + 4 38.0 | 1.127 | 2.045 | 16.5 | 18.2 |
| 7 30 | 21 29.14 | + 5 19.1 | 1.078 | 2.036 | 13.1 | 18.0 |
| 8 9 | 21 21.35 | + 5 30.1 | 1.049 | 2.027 | 10.5 | 17.8 |
| 8 19 | 21 13.15 | + 5 10.8 | 1.041 | 2.020 | 10.2 | 17.8 |
| 8 29 | 21 5.95 | + 4 26.0 | 1.055 | 2.015 | 12.3 | 17.9 |
| 9 8 | 21 0.98 | + 3 24.3 | 1.088 | 2.011 | 15.7 | 18.1 |
| 9 18 | 20 59.04 | + 2 15.6 | 1.139 | 2.008 | 19.2 | 18.3 |
| **433808** 2015 $BZ_{118}$ | | | 8 10.1 58°.89 | | 2°.0/ 9.0 17 | |
| 7 10 | 21 46.87 | −19 11.8 | 1.418 | 2.325 | 14.5 | 20.4 |
| 7 20 | 21 40.38 | −19 33.3 | 1.372 | 2.337 | 10.2 | 20.2 |
| 7 30 | 21 31.60 | −19 58.1 | 1.348 | 2.348 | 5.5 | 19.9 |
| 8 9 | 21 21.58 | −20 20.2 | 1.348 | 2.360 | 2.0 | 19.8 |
| 8 19 | 21 11.59 | −20 34.7 | 1.375 | 2.372 | 5.4 | 20.0 |
| 8 29 | 21 2.96 | −20 38.3 | 1.426 | 2.385 | 9.9 | 20.3 |
| 9 8 | 20 56.66 | −20 29.9 | 1.500 | 2.397 | 13.9 | 20.6 |
| 9 18 | 20 53.23 | −20 10.3 | 1.593 | 2.409 | 17.2 | 20.8 |

**242563** 2005 $EV_{181}$ 8 10.1 181°.92 0°.7/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.61 | −15 19.0 | 2.117 | 3.008 | 11.2 | 21.2 |
| 7 20 | 21 36.95 | −16 1.8 | 2.051 | 3.008 | 7.9 | 21.0 |
| 7 30 | 21 29.65 | −16 51.1 | 2.009 | 3.008 | 4.2 | 20.8 |
| 8 9 | 21 21.39 | −17 42.2 | 1.995 | 3.008 | 0.7 | 20.5 |
| 8 19 | 21 12.96 | −18 30.6 | 2.009 | 3.008 | 3.8 | 20.8 |
| 8 29 | 21 5.26 | −19 12.0 | 2.051 | 3.007 | 7.5 | 21.0 |
| 9 8 | 20 59.06 | −19 43.6 | 2.118 | 3.006 | 10.8 | 21.2 |
| 9 18 | 20 54.88 | −20 4.0 | 2.207 | 3.004 | 13.6 | 21.4 |

**163914** 2003 $SU_{247}$ 8 10.1 52°.24 8°.9/ 5.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 51.68 | −36 57.2 | 1.544 | 2.440 | 14.3 | 18.9 |
| 7 20 | 21 43.79 | −37 43.3 | 1.513 | 2.454 | 11.4 | 18.7 |
| 7 30 | 21 33.38 | −38 13.7 | 1.503 | 2.469 | 9.3 | 18.7 |
| 8 9 | 21 21.75 | −38 20.8 | 1.517 | 2.484 | 9.0 | 18.7 |
| 8 19 | 21 10.41 | −38 0.9 | 1.555 | 2.499 | 10.6 | 18.8 |
| 8 29 | 21 0.81 | −37 15.0 | 1.616 | 2.515 | 13.1 | 19.0 |
| 9 8 | 20 53.96 | −36 7.8 | 1.698 | 2.530 | 15.8 | 19.2 |
| 9 18 | 20 50.28 | −34 45.2 | 1.799 | 2.546 | 18.1 | 19.4 |

**199607** 2006 $FP_{34}$ 8 10.1 194°.82 4°.2/ 7.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.45 | −27 13.5 | 2.165 | 3.058 | 10.8 | 20.6 |
| 7 20 | 21 41.09 | −27 46.2 | 2.102 | 3.056 | 7.9 | 20.4 |
| 7 30 | 21 31.88 | −28 14.9 | 2.064 | 3.053 | 5.2 | 20.2 |
| 8 9 | 21 21.62 | −28 34.4 | 2.053 | 3.050 | 4.2 | 20.2 |
| 8 19 | 21 11.26 | −28 40.8 | 2.071 | 3.047 | 6.1 | 20.3 |
| 8 29 | 21 1.82 | −28 32.4 | 2.115 | 3.043 | 9.1 | 20.5 |
| 9 8 | 20 54.17 | −28 9.6 | 2.185 | 3.038 | 11.9 | 20.6 |
| 9 18 | 20 48.84 | −27 34.3 | 2.275 | 3.033 | 14.4 | 20.8 |

**82280** 2001 $KY_{26}$ 8 10.1 47°.34 2°.3/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.18 | −18 24.0 | 1.222 | 2.138 | 15.7 | 19.3 |
| 7 20 | 21 39.40 | −19 6.5 | 1.184 | 2.153 | 11.0 | 19.1 |
| 7 30 | 21 31.13 | −19 54.3 | 1.166 | 2.168 | 5.9 | 18.9 |
| 8 9 | 21 21.54 | −20 39.7 | 1.172 | 2.184 | 2.3 | 18.7 |
| 8 19 | 21 12.02 | −21 15.6 | 1.203 | 2.200 | 6.0 | 19.0 |
| 8 29 | 21 4.00 | −21 37.4 | 1.257 | 2.217 | 10.7 | 19.3 |
| 9 8 | 20 58.50 | −21 43.4 | 1.332 | 2.234 | 14.9 | 19.6 |
| 9 18 | 20 56.06 | −21 34.4 | 1.426 | 2.251 | 18.4 | 19.9 |

**113510** 2002 $TP_{8}$ 8 10.1 267°.88 2°.8/ 7.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.90 | −21 15.9 | 1.928 | 2.831 | 11.5 | 19.5 |
| 7 20 | 21 37.36 | −22 5.1 | 1.862 | 2.825 | 8.1 | 19.3 |
| 7 30 | 21 29.96 | −22 56.6 | 1.821 | 2.819 | 4.6 | 19.1 |
| 8 9 | 21 21.44 | −23 44.7 | 1.806 | 2.813 | 2.9 | 18.9 |
| 8 19 | 21 12.71 | −24 23.9 | 1.818 | 2.807 | 5.4 | 19.1 |
| 8 29 | 21 4.79 | −24 50.5 | 1.857 | 2.801 | 9.0 | 19.3 |
| 9 8 | 20 58.58 | −25 2.7 | 1.919 | 2.795 | 12.3 | 19.5 |
| 9 18 | 20 54.64 | −25 0.7 | 2.002 | 2.789 | 15.2 | 19.7 |

**442582** 2012 $BL_{98}$ 8 10.1 196°.59 0°.8/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.02 | −12 2.4 | 2.870 | 3.742 | 9.2 | 22.0 |
| 7 20 | 21 36.18 | −12 9.0 | 2.793 | 3.739 | 6.6 | 21.8 |
| 7 30 | 21 29.12 | −12 21.1 | 2.742 | 3.735 | 3.7 | 21.6 |
| 8 9 | 21 21.35 | −12 36.7 | 2.719 | 3.732 | 0.9 | 21.4 |
| 8 19 | 21 13.46 | −12 53.6 | 2.726 | 3.727 | 2.7 | 21.5 |
| 8 29 | 21 6.09 | −13 9.5 | 2.763 | 3.723 | 5.6 | 21.7 |
| 9 8 | 20 59.82 | −13 22.4 | 2.826 | 3.718 | 8.3 | 21.9 |
| 9 18 | 20 55.06 | −13 30.8 | 2.914 | 3.712 | 10.6 | 22.0 |

**316016** 2009 $FO_{21}$ 8 10.1 96°.26 2°.4/ 8.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.68 | −18 1.5 | 1.360 | 2.270 | 14.9 | 21.2 |
| 7 20 | 21 39.74 | −19 2.2 | 1.310 | 2.277 | 10.4 | 20.9 |
| 7 30 | 21 31.37 | −20 9.5 | 1.283 | 2.284 | 5.6 | 20.7 |
| 8 9 | 21 21.59 | −21 15.2 | 1.280 | 2.291 | 2.4 | 20.5 |
| 8 19 | 21 11.70 | −22 11.3 | 1.303 | 2.299 | 6.0 | 20.8 |
| 8 29 | 21 3.08 | −22 52.0 | 1.350 | 2.306 | 10.6 | 21.0 |
| 9 8 | 20 56.83 | −23 14.8 | 1.419 | 2.313 | 14.8 | 21.3 |
| 9 18 | 20 53.56 | −23 20.2 | 1.507 | 2.319 | 18.2 | 21.6 |

**129921** 1999 $TF_{123}$ 8 10.1 313°.91 1°.6/ 9.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.95 | −17 7.4 | 1.532 | 2.441 | 13.6 | 19.7 |
| 7 20 | 21 37.11 | −17 48.3 | 1.460 | 2.426 | 9.6 | 19.5 |
| 7 30 | 21 30.01 | −18 37.1 | 1.410 | 2.411 | 5.2 | 19.2 |
| 8 9 | 21 21.47 | −19 27.5 | 1.384 | 2.397 | 1.6 | 18.9 |
| 8 19 | 21 12.56 | −20 13.3 | 1.384 | 2.383 | 5.2 | 19.1 |
| 8 29 | 21 4.56 | −20 48.6 | 1.410 | 2.369 | 9.8 | 19.4 |
| 9 8 | 20 58.54 | −21 10.2 | 1.457 | 2.356 | 14.1 | 19.6 |
| 9 18 | 20 55.22 | −21 16.9 | 1.524 | 2.344 | 17.7 | 19.8 |

**43424** 2000 $YF_{5}$ 8 10.1 94°.30 10°.5/ 1.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.63 | −36 29.3 | 1.477 | 2.378 | 14.5 | 18.8 |
| 7 20 | 21 42.83 | −39 8.2 | 1.457 | 2.397 | 11.9 | 18.7 |
| 7 30 | 21 33.14 | −41 30.7 | 1.461 | 2.416 | 10.6 | 18.7 |
| 8 9 | 21 21.78 | −43 23.6 | 1.490 | 2.434 | 11.1 | 18.8 |
| 8 19 | 21 10.29 | −44 39.1 | 1.542 | 2.452 | 13.1 | 19.0 |
| 8 29 | 21 0.36 | −45 15.6 | 1.616 | 2.470 | 15.5 | 19.2 |
| 9 8 | 20 53.25 | −45 17.3 | 1.708 | 2.487 | 17.8 | 19.4 |
| 9 18 | 20 49.59 | −44 51.2 | 1.815 | 2.504 | 19.8 | 19.6 |

**499713** 2011 $AU_{61}$ 8 10.1 257°.78 1°.3/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.13 | −15 45.8 | 1.632 | 2.532 | 13.4 | 21.7 |
| 7 20 | 21 38.59 | −16 41.1 | 1.556 | 2.518 | 9.5 | 21.4 |
| 7 30 | 21 30.81 | −17 46.2 | 1.504 | 2.504 | 5.1 | 21.1 |
| 8 9 | 21 21.56 | −18 54.6 | 1.476 | 2.489 | 1.3 | 20.8 |
| 8 19 | 21 11.90 | −19 59.2 | 1.476 | 2.474 | 5.0 | 21.0 |
| 8 29 | 21 3.07 | −20 53.5 | 1.502 | 2.459 | 9.6 | 21.3 |
| 9 8 | 20 56.15 | −21 33.5 | 1.551 | 2.443 | 13.8 | 21.5 |
| 9 18 | 20 51.89 | −21 57.5 | 1.620 | 2.427 | 17.3 | 21.7 |

**395414** 2011 $SP_{166}$ 8 10.1 280°.10 0°.0/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.13 | −13 57.8 | 1.955 | 2.847 | 11.9 | 21.3 |
| 7 20 | 21 36.76 | −14 21.4 | 1.883 | 2.840 | 8.5 | 21.1 |
| 7 30 | 21 29.63 | −14 52.6 | 1.835 | 2.833 | 4.6 | 20.9 |
| 8 9 | 21 21.43 | −15 27.6 | 1.813 | 2.826 | 0.5 | 20.5 |
| 8 19 | 21 13.02 | −16 2.2 | 1.818 | 2.819 | 3.7 | 20.8 |
| 8 29 | 21 5.36 | −16 32.3 | 1.850 | 2.813 | 7.7 | 21.0 |
| 9 8 | 20 59.27 | −16 54.8 | 1.907 | 2.806 | 11.3 | 21.2 |
| 9 18 | 20 55.32 | −17 8.2 | 1.986 | 2.799 | 14.4 | 21.4 |

**356649** 2011 $UG_{61}$ 8 10.1 192°.58 2°.2/ 8.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.78 | −20 29.4 | 2.354 | 3.250 | 9.9 | 21.3 |
| 7 20 | 21 36.29 | −21 17.4 | 2.289 | 3.249 | 7.0 | 21.1 |
| 7 30 | 21 29.28 | −22 7.5 | 2.250 | 3.248 | 3.9 | 20.9 |
| 8 9 | 21 21.39 | −22 55.2 | 2.238 | 3.247 | 2.2 | 20.8 |
| 8 19 | 21 13.35 | −23 36.1 | 2.255 | 3.245 | 4.5 | 20.9 |
| 8 29 | 21 5.99 | −24 6.9 | 2.299 | 3.243 | 7.6 | 21.1 |
| 9 8 | 20 59.99 | −24 25.9 | 2.369 | 3.241 | 10.5 | 21.3 |
| 9 18 | 20 55.87 | −24 32.8 | 2.460 | 3.238 | 12.9 | 21.5 |

**96544** 1998 $SK_{52}$ 8 10.1 342°.05 0°.0/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.76 | −14 2.7 | 1.789 | 2.688 | 12.4 | 18.8 |
| 7 20 | 21 35.21 | −14 25.3 | 1.719 | 2.680 | 8.9 | 18.5 |
| 7 30 | 21 28.83 | −14 56.3 | 1.672 | 2.672 | 4.8 | 18.3 |
| 8 9 | 21 21.35 | −15 31.6 | 1.651 | 2.664 | 0.5 | 17.9 |
| 8 19 | 21 13.66 | −16 6.6 | 1.656 | 2.658 | 3.9 | 18.2 |
| 8 29 | 21 6.75 | −16 36.9 | 1.686 | 2.652 | 8.1 | 18.4 |
| 9 8 | 21 1.48 | −16 59.3 | 1.741 | 2.646 | 11.8 | 18.6 |
| 9 18 | 20 58.44 | −17 11.8 | 1.817 | 2.641 | 15.1 | 18.8 |

**395015** 2009 $BU_{187}$ 8 10.1 199°.86 1°.1/ 9.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.78 | −18 1.2 | 2.329 | 3.217 | 10.4 | 21.2 |
| 7 20 | 21 38.38 | −18 19.9 | 2.258 | 3.214 | 7.3 | 21.0 |
| 7 30 | 21 30.41 | −18 41.6 | 2.212 | 3.211 | 3.9 | 20.8 |
| 8 9 | 21 21.52 | −19 2.5 | 2.194 | 3.207 | 1.1 | 20.6 |
| 8 19 | 21 12.49 | −19 19.6 | 2.205 | 3.202 | 3.7 | 20.8 |
| 8 29 | 21 4.17 | −19 30.1 | 2.245 | 3.198 | 7.1 | 21.0 |
| 9 8 | 20 57.29 | −19 32.6 | 2.310 | 3.192 | 10.3 | 21.2 |
| 9 18 | 20 52.37 | −19 26.6 | 2.397 | 3.187 | 12.9 | 21.4 |

**29225** 1992 $DW_{7}$ 8 10.1 211°.48 1°.5/ 9.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.03 | −17 7.6 | 1.773 | 2.671 | 12.6 | 19.4 |
| 7 20 | 21 38.98 | −17 50.9 | 1.706 | 2.667 | 8.9 | 19.2 |
| 7 30 | 21 30.90 | −18 40.3 | 1.663 | 2.663 | 4.8 | 18.9 |
| 8 9 | 21 21.58 | −19 30.3 | 1.645 | 2.658 | 1.5 | 18.7 |
| 8 19 | 21 12.02 | −20 15.1 | 1.655 | 2.653 | 4.7 | 18.9 |
| 8 29 | 21 3.35 | −20 50.0 | 1.692 | 2.647 | 8.9 | 19.2 |
| 9 8 | 20 56.52 | −21 12.4 | 1.753 | 2.641 | 12.7 | 19.4 |
| 9 18 | 20 52.15 | −21 21.5 | 1.834 | 2.635 | 15.9 | 19.6 |

**99227** 2001 $HR_{60}$ 8 10.1 242°.35 7°.3/ 1.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.21 | −38 3.1 | 2.527 | 3.411 | 9.8 | 18.8 |
| 7 20 | 21 37.55 | −39 41.1 | 2.477 | 3.405 | 8.2 | 18.7 |
| 7 30 | 21 30.09 | −41 10.0 | 2.453 | 3.398 | 7.3 | 18.6 |
| 8 9 | 21 21.50 | −42 23.2 | 2.455 | 3.392 | 7.7 | 18.7 |
| 8 19 | 21 12.63 | −43 15.8 | 2.483 | 3.386 | 9.0 | 18.7 |
| 8 29 | 21 4.47 | −43 45.4 | 2.535 | 3.379 | 10.9 | 18.8 |
| 9 8 | 20 57.88 | −43 52.6 | 2.609 | 3.373 | 12.7 | 19.0 |
| 9 18 | 20 53.44 | −43 40.0 | 2.701 | 3.366 | 14.3 | 19.1 |

**22732** Jakpor 8 10.1 9°.31 0°.7/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.08 | −15 51.8 | 1.634 | 2.540 | 13.0 | 17.6 |
| 7 20 | 21 35.47 | −16 15.6 | 1.578 | 2.543 | 9.2 | 17.3 |
| 7 30 | 21 28.96 | −16 46.3 | 1.545 | 2.546 | 4.9 | 17.1 |
| 8 9 | 21 21.38 | −17 19.0 | 1.537 | 2.551 | 0.8 | 16.8 |
| 8 19 | 21 13.70 | −17 48.9 | 1.555 | 2.556 | 4.3 | 17.1 |
| 8 29 | 21 6.97 | −18 12.0 | 1.598 | 2.562 | 8.5 | 17.3 |
| 9 8 | 21 2.05 | −18 25.3 | 1.664 | 2.569 | 12.3 | 17.6 |
| 9 18 | 20 59.49 | −18 27.9 | 1.751 | 2.577 | 15.5 | 17.8 |

**65993** 1998 $KP_{52}$ 8 10.1 18°.16 7°.6/15.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.30 | + 4 5.4 | 1.434 | 2.281 | 17.9 | 18.1 |
| 7 20 | 21 35.09 | + 4 17.0 | 1.374 | 2.286 | 14.6 | 17.9 |
| 7 30 | 21 28.84 | + 4 1.3 | 1.334 | 2.291 | 11.1 | 17.7 |
| 8 9 | 21 21.37 | + 3 18.6 | 1.315 | 2.297 | 8.4 | 17.6 |
| 8 19 | 21 13.72 | + 2 12.8 | 1.319 | 2.303 | 7.8 | 17.6 |
| 8 29 | 21 7.03 | + 0 51.0 | 1.347 | 2.310 | 9.9 | 17.7 |
| 9 8 | 21 2.26 | − 0 37.6 | 1.399 | 2.318 | 13.1 | 17.9 |
| 9 18 | 21 0.01 | − 2 4.4 | 1.470 | 2.327 | 16.3 | 18.2 |

**286856** 2002 $NE_{69}$ 8 10.1 253°.54 0°.9/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.46 | −12 43.6 | 2.109 | 2.989 | 11.6 | 20.7 |
| 7 20 | 21 39.07 | −12 40.9 | 2.024 | 2.974 | 8.4 | 20.5 |
| 7 30 | 21 30.90 | −12 44.8 | 1.963 | 2.958 | 4.8 | 20.2 |
| 8 9 | 21 21.59 | −12 53.0 | 1.929 | 2.942 | 1.1 | 19.9 |
| 8 19 | 21 12.00 | −13 2.7 | 1.923 | 2.925 | 3.5 | 20.1 |
| 8 29 | 21 3.07 | −13 11.0 | 1.946 | 2.908 | 7.4 | 20.3 |
| 9 8 | 20 55.67 | −13 15.7 | 1.994 | 2.891 | 11.0 | 20.5 |
| 9 18 | 20 50.39 | −13 15.1 | 2.065 | 2.873 | 14.1 | 20.7 |

**357789** 2005 $SF_{293}$ 8 10.1 331°.89 2°.3/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 36.41 | − 5 31.6 | 1.555 | 2.442 | 14.7 | 20.1 |
| 7 20 | 21 33.14 | − 6 27.1 | 1.472 | 2.422 | 11.0 | 19.8 |
| 7 30 | 21 27.88 | − 7 44.6 | 1.411 | 2.403 | 6.8 | 19.6 |
| 8 9 | 21 21.30 | − 9 19.8 | 1.374 | 2.384 | 2.8 | 19.3 |
| 8 19 | 21 14.30 | −11 5.6 | 1.363 | 2.367 | 4.2 | 19.3 |
| 8 29 | 21 8.00 | −12 52.8 | 1.377 | 2.350 | 8.7 | 19.5 |
| 9 8 | 21 3.41 | −14 32.4 | 1.415 | 2.334 | 13.1 | 19.8 |
| 9 18 | 21 1.25 | −15 58.0 | 1.474 | 2.320 | 16.9 | 20.0 |

**438934** 2010 $FN_{84}$ 8 10.1 51°.89 11°.0/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.25 | +18 10.2 | 1.767 | 2.511 | 18.9 | 20.2 |
| 7 20 | 21 34.80 | +18 9.2 | 1.704 | 2.523 | 16.7 | 20.1 |
| 7 30 | 21 28.59 | +17 34.2 | 1.659 | 2.536 | 14.3 | 19.9 |
| 8 9 | 21 21.36 | +16 24.0 | 1.633 | 2.548 | 12.3 | 19.8 |
| 8 19 | 21 14.00 | +14 41.2 | 1.629 | 2.561 | 11.1 | 19.8 |
| 8 29 | 21 7.51 | +12 32.9 | 1.650 | 2.574 | 11.3 | 19.8 |
| 9 8 | 21 2.68 | +10 9.4 | 1.695 | 2.587 | 12.8 | 20.0 |
| 9 18 | 21 0.06 | + 7 41.6 | 1.763 | 2.601 | 14.9 | 20.1 |

**166619** 2002 $SA_{7}$ 8 10.1 66°.54 3°.4/ 7.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.29 | −22 43.1 | 1.762 | 2.668 | 12.2 | 19.4 |
| 7 20 | 21 38.34 | −23 30.3 | 1.715 | 2.678 | 8.7 | 19.2 |
| 7 30 | 21 30.47 | −24 17.6 | 1.691 | 2.689 | 5.1 | 19.0 |
| 8 9 | 21 21.55 | −24 58.6 | 1.694 | 2.699 | 3.4 | 18.9 |
| 8 19 | 21 12.60 | −25 28.4 | 1.723 | 2.710 | 5.9 | 19.1 |
| 8 29 | 21 4.71 | −25 43.8 | 1.777 | 2.721 | 9.4 | 19.3 |
| 9 8 | 20 58.73 | −25 44.0 | 1.855 | 2.731 | 12.7 | 19.6 |
| 9 18 | 20 55.18 | −25 30.2 | 1.954 | 2.742 | 15.5 | 19.8 |

**214083** 2004 $HH_{57}$ 8 10.1 353°.73 0°.5/10.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.97 | −12 13.1 | 1.950 | 2.839 | 12.0 | 20.9 |
| 7 20 | 21 35.91 | −12 42.4 | 1.884 | 2.839 | 8.6 | 20.7 |
| 7 30 | 21 29.16 | −13 21.0 | 1.841 | 2.838 | 4.8 | 20.5 |
| 8 9 | 21 21.42 | −14 4.8 | 1.824 | 2.838 | 0.8 | 20.2 |
| 8 19 | 21 13.52 | −14 49.5 | 1.835 | 2.837 | 3.5 | 20.4 |
| 8 29 | 21 6.37 | −15 30.6 | 1.873 | 2.837 | 7.5 | 20.7 |
| 9 8 | 21 0.76 | −16 4.4 | 1.936 | 2.837 | 11.0 | 20.9 |
| 9 18 | 20 57.24 | −16 28.8 | 2.020 | 2.837 | 14.0 | 21.1 |

**428522** 2008 $AQ_{38}$ 8 10.1 294°.79 3°.2/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.97 | − 7 32.0 | 1.346 | 2.236 | 16.3 | 21.2 |
| 7 20 | 21 38.94 | − 7 30.2 | 1.259 | 2.210 | 12.3 | 20.9 |
| 7 30 | 21 31.24 | − 7 45.8 | 1.192 | 2.183 | 7.8 | 20.5 |
| 8 9 | 21 21.67 | − 8 16.7 | 1.148 | 2.157 | 3.6 | 20.2 |
| 8 19 | 21 11.39 | − 8 58.9 | 1.128 | 2.130 | 5.2 | 20.2 |
| 8 29 | 21 1.87 | − 9 46.0 | 1.133 | 2.104 | 10.3 | 20.4 |
| 9 8 | 20 54.51 | −10 31.4 | 1.159 | 2.078 | 15.3 | 20.7 |
| 9 18 | 20 50.25 | −11 9.7 | 1.204 | 2.052 | 19.8 | 20.9 |

**250274** 2003 $GU_{4}$ 8 10.1 10°.29 5°.2/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.91 | + 0 57.6 | 1.907 | 2.752 | 14.2 | 19.5 |
| 7 20 | 21 34.46 | + 0 51.4 | 1.838 | 2.753 | 11.3 | 19.3 |
| 7 30 | 21 28.38 | + 0 25.6 | 1.790 | 2.755 | 8.2 | 19.1 |
| 8 9 | 21 21.34 | − 0 18.3 | 1.766 | 2.756 | 5.7 | 19.0 |
| 8 19 | 21 14.13 | − 1 17.0 | 1.769 | 2.758 | 5.5 | 19.0 |
| 8 29 | 21 7.62 | − 2 25.1 | 1.797 | 2.761 | 7.8 | 19.1 |
| 9 8 | 21 2.59 | − 3 36.4 | 1.851 | 2.763 | 10.8 | 19.3 |
| 9 18 | 20 59.57 | − 4 45.1 | 1.927 | 2.766 | 13.7 | 19.5 |

**72579** 2001 $EU_{19}$ 8 10.1 6°.27 4°.2/ 7.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.08 | −26 44.0 | 1.920 | 2.824 | 11.5 | 18.5 |
| 7 20 | 21 38.15 | −27 12.2 | 1.864 | 2.825 | 8.3 | 18.3 |
| 7 30 | 21 30.36 | −27 36.7 | 1.833 | 2.826 | 5.4 | 18.1 |
| 8 9 | 21 21.54 | −27 52.2 | 1.828 | 2.827 | 4.3 | 18.0 |
| 8 19 | 21 12.67 | −27 54.9 | 1.849 | 2.829 | 6.3 | 18.2 |
| 8 29 | 21 4.79 | −27 43.0 | 1.895 | 2.831 | 9.4 | 18.4 |
| 9 8 | 20 58.73 | −27 16.8 | 1.966 | 2.834 | 12.4 | 18.6 |
| 9 18 | 20 55.02 | −26 38.2 | 2.056 | 2.837 | 15.1 | 18.8 |

**126449** 2002 $CH_{20}$ 8 10.1 273°.27 2°.4/ 8.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.79 | −19 9.2 | 1.723 | 2.626 | 12.6 | 19.9 |
| 7 20 | 21 38.30 | −20 2.7 | 1.646 | 2.610 | 8.9 | 19.7 |
| 7 30 | 21 30.65 | −21 1.9 | 1.594 | 2.594 | 4.9 | 19.4 |
| 8 9 | 21 21.60 | −22 0.4 | 1.568 | 2.578 | 2.5 | 19.2 |
| 8 19 | 21 12.17 | −22 51.6 | 1.568 | 2.561 | 5.5 | 19.4 |
| 8 29 | 21 3.54 | −23 30.3 | 1.594 | 2.545 | 9.7 | 19.6 |
| 9 8 | 20 56.77 | −23 53.4 | 1.643 | 2.528 | 13.6 | 19.8 |
| 9 18 | 20 52.56 | −24 0.7 | 1.713 | 2.511 | 16.9 | 20.0 |

**340494** 2006 $HE_{97}$ 8 10.1 168°.60 1°.4/ 9.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.71 | −17 32.2 | 1.834 | 2.733 | 12.2 | 21.3 |
| 7 20 | 21 37.95 | −18 8.3 | 1.772 | 2.734 | 8.6 | 21.1 |
| 7 30 | 21 30.30 | −18 49.5 | 1.734 | 2.734 | 4.6 | 20.9 |
| 8 9 | 21 21.56 | −19 30.6 | 1.722 | 2.735 | 1.4 | 20.7 |
| 8 19 | 21 12.66 | −20 6.6 | 1.738 | 2.735 | 4.5 | 20.9 |
| 8 29 | 21 4.65 | −20 33.5 | 1.780 | 2.735 | 8.5 | 21.1 |
| 9 8 | 20 58.41 | −20 49.0 | 1.846 | 2.736 | 12.1 | 21.3 |
| 9 18 | 20 54.48 | −20 52.6 | 1.933 | 2.736 | 15.1 | 21.6 |

**483621** 2004 $TN_{132}$ 8 10.1 323°.73 3°.2/12.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.23 | − 7 32.4 | 1.766 | 2.646 | 13.5 | 20.8 |
| 7 20 | 21 36.39 | − 7 11.0 | 1.678 | 2.623 | 10.2 | 20.6 |
| 7 30 | 21 29.59 | − 7 1.4 | 1.613 | 2.600 | 6.6 | 20.3 |
| 8 9 | 21 21.50 | − 7 2.4 | 1.572 | 2.578 | 3.5 | 20.1 |
| 8 19 | 21 13.02 | − 7 12.2 | 1.557 | 2.557 | 4.5 | 20.1 |
| 8 29 | 21 5.20 | − 7 27.3 | 1.568 | 2.536 | 8.3 | 20.3 |
| 9 8 | 20 59.01 | − 7 43.9 | 1.603 | 2.516 | 12.2 | 20.5 |
| 9 18 | 20 55.13 | − 7 58.6 | 1.659 | 2.497 | 15.7 | 20.6 |

**121707** 1999 $XY_{99}$ 8 10.1 319°.68 8°.2/ 1.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.19 | −33 46.4 | 1.815 | 2.722 | 11.9 | 18.8 |
| 7 20 | 21 36.69 | −35 43.9 | 1.751 | 2.699 | 9.6 | 18.6 |
| 7 30 | 21 29.89 | −37 36.2 | 1.710 | 2.677 | 8.3 | 18.5 |
| 8 9 | 21 21.54 | −39 13.2 | 1.695 | 2.656 | 8.7 | 18.5 |
| 8 19 | 21 12.68 | −40 26.5 | 1.704 | 2.635 | 10.8 | 18.5 |
| 8 29 | 21 4.63 | −41 11.1 | 1.737 | 2.615 | 13.5 | 18.7 |
| 9 8 | 20 58.53 | −41 26.9 | 1.789 | 2.595 | 16.1 | 18.8 |
| 9 18 | 20 55.17 | −41 16.3 | 1.858 | 2.576 | 18.5 | 19.0 |

**260502** 2005 $ED_{23}$ 8 10.1 94°.21 0°.5/ 9.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.33 | −14 52.0 | 1.451 | 2.350 | 14.8 | 20.9 |
| 7 20 | 21 40.67 | −15 22.2 | 1.405 | 2.366 | 10.4 | 20.7 |
| 7 30 | 21 31.79 | −16 0.5 | 1.382 | 2.382 | 5.6 | 20.4 |
| 8 9 | 21 21.71 | −16 41.1 | 1.384 | 2.397 | 0.7 | 20.1 |
| 8 19 | 21 11.66 | −17 18.2 | 1.412 | 2.413 | 4.6 | 20.5 |
| 8 29 | 21 2.90 | −17 47.0 | 1.465 | 2.428 | 9.3 | 20.8 |
| 9 8 | 20 56.39 | −18 4.8 | 1.542 | 2.442 | 13.4 | 21.1 |
| 9 18 | 20 52.69 | −18 10.8 | 1.639 | 2.457 | 16.7 | 21.3 |

**108369** 2001 $KZ_{17}$ 8 10.1 32°.86 6°.8/14.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.42 | + 1 10.0 | 1.177 | 2.049 | 19.4 | 19.0 |
| 7 20 | 21 36.11 | + 1 11.4 | 1.130 | 2.061 | 15.3 | 18.8 |
| 7 30 | 21 29.46 | + 0 43.5 | 1.101 | 2.074 | 11.1 | 18.6 |
| 8 9 | 21 21.48 | − 0 11.3 | 1.093 | 2.087 | 7.6 | 18.4 |
| 8 19 | 21 13.41 | − 1 27.2 | 1.108 | 2.102 | 7.2 | 18.5 |
| 8 29 | 21 6.58 | − 2 54.7 | 1.146 | 2.117 | 10.2 | 18.7 |
| 9 8 | 21 2.04 | − 4 23.5 | 1.205 | 2.133 | 14.1 | 19.0 |
| 9 18 | 21 0.36 | − 5 45.0 | 1.285 | 2.149 | 17.7 | 19.2 |

**515332** 2013 $AB_{49}$ 8 10.1 230°.05 2°.5/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.01 | − 4 31.8 | 2.510 | 3.362 | 11.0 | 22.8 |
| 7 20 | 21 35.73 | − 5 0.4 | 2.420 | 3.349 | 8.3 | 22.6 |
| 7 30 | 21 29.03 | − 5 42.0 | 2.355 | 3.336 | 5.4 | 22.4 |
| 8 9 | 21 21.44 | − 6 34.2 | 2.318 | 3.322 | 2.9 | 22.2 |
| 8 19 | 21 13.60 | − 7 33.8 | 2.309 | 3.307 | 3.4 | 22.2 |
| 8 29 | 21 6.24 | − 8 36.5 | 2.329 | 3.292 | 6.3 | 22.4 |
| 9 8 | 21 0.02 | − 9 37.9 | 2.376 | 3.277 | 9.3 | 22.6 |
| 9 18 | 20 55.47 | −10 34.3 | 2.447 | 3.260 | 12.0 | 22.7 |

**423703** 2006 $AV_{69}$ 8 10.1 76°.38 1°.4/10.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.61 | −12 19.4 | 1.648 | 2.533 | 14.1 | 21.0 |
| 7 20 | 21 41.27 | −12 3.8 | 1.601 | 2.553 | 10.1 | 20.8 |
| 7 30 | 21 32.00 | −11 56.4 | 1.579 | 2.574 | 5.7 | 20.6 |
| 8 9 | 21 21.74 | −11 54.7 | 1.582 | 2.594 | 1.6 | 20.4 |
| 8 19 | 21 11.60 | −11 55.6 | 1.612 | 2.614 | 4.0 | 20.6 |
| 8 29 | 21 2.67 | −11 56.3 | 1.669 | 2.634 | 8.2 | 20.9 |
| 9 8 | 20 55.81 | −11 54.6 | 1.751 | 2.654 | 11.9 | 21.2 |
| 9 18 | 20 51.49 | −11 48.8 | 1.854 | 2.674 | 15.0 | 21.4 |

**259646** 2003 $WB_{82}$ 8 10.1 348°.24 0°.4/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.57 | −17 23.1 | 0.914 | 1.845 | 18.1 | 19.3 |
| 7 20 | 21 38.44 | −16 58.8 | 0.857 | 1.832 | 13.0 | 18.9 |
| 7 30 | 21 31.07 | −16 39.9 | 0.818 | 1.822 | 7.1 | 18.6 |
| 8 9 | 21 21.68 | −16 22.3 | 0.799 | 1.813 | 0.8 | 18.1 |
| 8 19 | 21 11.94 | −16 1.9 | 0.802 | 1.806 | 5.9 | 18.5 |
| 8 29 | 21 3.75 | −15 35.5 | 0.824 | 1.801 | 12.2 | 18.8 |
| 9 8 | 20 58.61 | −15 1.8 | 0.866 | 1.798 | 17.7 | 19.1 |
| 9 18 | 20 57.26 | −14 20.7 | 0.924 | 1.796 | 22.3 | 19.4 |

**134879** 2000 $QZ_{214}$ 8 10.2 321°.27 2°.8/ 8.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.38 | −21 29.8 | 1.908 | 2.813 | 11.5 | 19.9 |
| 7 20 | 21 37.03 | −22 11.5 | 1.844 | 2.807 | 8.1 | 19.6 |
| 7 30 | 21 29.83 | −22 54.9 | 1.803 | 2.802 | 4.7 | 19.4 |
| 8 9 | 21 21.54 | −23 34.8 | 1.788 | 2.796 | 2.8 | 19.3 |
| 8 19 | 21 13.06 | −24 6.0 | 1.801 | 2.791 | 5.3 | 19.4 |
| 8 29 | 21 5.41 | −24 25.0 | 1.839 | 2.786 | 8.9 | 19.6 |
| 9 8 | 20 59.45 | −24 30.4 | 1.901 | 2.781 | 12.2 | 19.9 |
| 9 18 | 20 55.77 | −24 22.3 | 1.984 | 2.777 | 15.1 | 20.0 |

**79957** 1999 $CS_{109}$ 8 10.2 234°.79 1°.6/11.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.18 | − 9 38.0 | 2.333 | 3.204 | 11.0 | 20.2 |
| 7 20 | 21 37.33 | − 9 43.6 | 2.249 | 3.192 | 8.1 | 19.9 |
| 7 30 | 21 29.92 | − 9 57.9 | 2.190 | 3.181 | 4.8 | 19.7 |
| 8 9 | 21 21.56 | −10 18.9 | 2.158 | 3.168 | 1.8 | 19.5 |
| 8 19 | 21 12.96 | −10 43.7 | 2.154 | 3.156 | 3.3 | 19.6 |
| 8 29 | 21 4.95 | −11 9.1 | 2.179 | 3.143 | 6.6 | 19.8 |
| 9 8 | 20 58.24 | −11 32.2 | 2.230 | 3.129 | 9.9 | 20.0 |
| 9 18 | 20 53.39 | −11 50.7 | 2.305 | 3.115 | 12.7 | 20.1 |

**504375** 2007 $VV_{73}$ 8 10.2 220°.67 3°.7/12.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.49 | − 4 20.3 | 1.579 | 2.448 | 15.4 | 22.3 |
| 7 20 | 21 38.80 | − 4 34.3 | 1.505 | 2.443 | 11.7 | 22.0 |
| 7 30 | 21 30.93 | − 5 7.1 | 1.453 | 2.437 | 7.7 | 21.8 |
| 8 9 | 21 21.68 | − 5 56.3 | 1.426 | 2.430 | 4.2 | 21.6 |
| 8 19 | 21 12.09 | − 6 57.0 | 1.424 | 2.424 | 4.9 | 21.6 |
| 8 29 | 21 3.37 | − 8 2.6 | 1.448 | 2.416 | 8.8 | 21.8 |
| 9 8 | 20 56.56 | − 9 6.5 | 1.497 | 2.409 | 13.0 | 22.0 |
| 9 18 | 20 52.36 | −10 3.3 | 1.566 | 2.401 | 16.6 | 22.3 |

**96483** 1998 $HS_{144}$ 8 10.2 144°.12 8°.0/16.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.62 | + 7 22.5 | 1.836 | 2.645 | 16.1 | 19.6 |
| 7 20 | 21 36.49 | + 7 44.0 | 1.765 | 2.646 | 13.5 | 19.4 |
| 7 30 | 21 29.56 | + 7 41.3 | 1.714 | 2.647 | 10.8 | 19.3 |
| 8 9 | 21 21.54 | + 7 14.0 | 1.686 | 2.648 | 8.7 | 19.1 |
| 8 19 | 21 13.30 | + 6 23.9 | 1.682 | 2.649 | 8.1 | 19.1 |
| 8 29 | 21 5.81 | + 5 15.9 | 1.704 | 2.650 | 9.5 | 19.2 |
| 9 8 | 20 59.92 | + 3 57.1 | 1.750 | 2.651 | 12.0 | 19.4 |
| 9 18 | 20 56.22 | + 2 34.8 | 1.817 | 2.652 | 14.6 | 19.5 |

**428374** 2007 $RQ_{215}$ 8 10.2 307°.83 4°.3/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.25 | − 5 0.8 | 1.186 | 2.079 | 17.8 | 21.0 |
| 7 20 | 21 37.20 | − 5 4.8 | 1.105 | 2.055 | 13.7 | 20.7 |
| 7 30 | 21 30.40 | − 5 32.2 | 1.043 | 2.032 | 9.0 | 20.3 |
| 8 9 | 21 21.66 | − 6 21.3 | 1.003 | 2.009 | 4.8 | 20.0 |
| 8 19 | 21 12.22 | − 7 27.2 | 0.985 | 1.987 | 5.8 | 20.0 |
| 8 29 | 21 3.65 | − 8 41.6 | 0.990 | 1.965 | 10.8 | 20.2 |
| 9 8 | 20 57.38 | − 9 54.9 | 1.016 | 1.944 | 16.1 | 20.4 |
| 9 18 | 20 54.40 | −10 59.3 | 1.060 | 1.923 | 20.8 | 20.7 |

**43472** 2001 $AH_{33}$ 8 10.2 94°.36 0°.2/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.30 | −15 25.3 | 2.410 | 3.295 | 10.2 | 18.8 |
| 7 20 | 21 37.17 | −15 40.0 | 2.360 | 3.314 | 7.2 | 18.6 |
| 7 30 | 21 29.70 | −15 59.0 | 2.335 | 3.333 | 3.8 | 18.4 |
| 8 9 | 21 21.54 | −16 19.1 | 2.338 | 3.351 | 0.4 | 18.2 |
| 8 19 | 21 13.41 | −16 37.4 | 2.369 | 3.370 | 3.1 | 18.4 |
| 8 29 | 21 6.03 | −16 51.6 | 2.430 | 3.388 | 6.4 | 18.7 |
| 9 8 | 21 0.03 | −16 59.8 | 2.516 | 3.405 | 9.3 | 18.9 |
| 9 18 | 20 55.81 | −17 1.3 | 2.625 | 3.423 | 11.7 | 19.1 |

**379256** 2009 $TZ_{47}$ 8 10.2 335°.89 4°.9/13.1 13 C

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.17 | − 3 36.5 | 1.271 | 2.157 | 17.3 | 21.0 |
| 7 20 | 21 36.09 | − 3 32.6 | 1.202 | 2.146 | 13.4 | 20.7 |
| 7 30 | 21 29.60 | − 3 51.1 | 1.153 | 2.137 | 9.1 | 20.5 |
| 8 9 | 21 21.56 | − 4 30.5 | 1.125 | 2.128 | 5.4 | 20.2 |
| 8 19 | 21 13.14 | − 5 26.1 | 1.121 | 2.120 | 5.9 | 20.2 |
| 8 29 | 21 5.70 | − 6 30.8 | 1.140 | 2.113 | 9.9 | 20.5 |
| 9 8 | 21 0.42 | − 7 36.0 | 1.180 | 2.107 | 14.4 | 20.7 |
| 9 18 | 20 58.05 | − 8 35.0 | 1.240 | 2.101 | 18.5 | 20.9 |

**246450** 2007 $VJ_{212}$ 8 10.2 57°.78 0°.6/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.48 | −11 36.8 | 1.838 | 2.728 | 12.6 | 20.8 |
| 7 20 | 21 36.34 | −12 12.1 | 1.777 | 2.732 | 9.0 | 20.6 |
| 7 30 | 21 29.45 | −12 57.8 | 1.739 | 2.736 | 5.0 | 20.4 |
| 8 9 | 21 21.53 | −13 49.5 | 1.727 | 2.740 | 0.9 | 20.1 |
| 8 19 | 21 13.48 | −14 42.1 | 1.741 | 2.744 | 3.7 | 20.3 |
| 8 29 | 21 6.24 | −15 30.5 | 1.783 | 2.748 | 7.7 | 20.6 |
| 9 8 | 21 0.65 | −16 10.8 | 1.850 | 2.752 | 11.4 | 20.8 |
| 9 18 | 20 57.23 | −16 40.7 | 1.937 | 2.757 | 14.5 | 21.1 |

**71946** 2000 $WS_{87}$ 8 10.2 233°.53 4°.8/ 6.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.73 | −24 11.1 | 1.521 | 2.430 | 13.6 | 19.6 |
| 7 20 | 21 40.59 | −25 20.1 | 1.461 | 2.425 | 9.8 | 19.4 |
| 7 30 | 21 31.97 | −26 29.7 | 1.424 | 2.419 | 6.2 | 19.2 |
| 8 9 | 21 21.81 | −27 31.0 | 1.412 | 2.413 | 4.9 | 19.1 |
| 8 19 | 21 11.37 | −28 16.6 | 1.425 | 2.407 | 7.6 | 19.2 |
| 8 29 | 21 2.05 | −28 41.6 | 1.463 | 2.400 | 11.5 | 19.4 |
| 9 8 | 20 55.00 | −28 45.3 | 1.523 | 2.394 | 15.3 | 19.7 |
| 9 18 | 20 50.94 | −28 29.8 | 1.602 | 2.387 | 18.5 | 19.9 |

**85270** 1994 $AY_{5}$ 8 10.2 297°.14 3°.1/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.41 | − 8 59.2 | 1.569 | 2.451 | 14.8 | 20.2 |
| 7 20 | 21 40.23 | − 8 26.0 | 1.491 | 2.438 | 11.1 | 19.9 |
| 7 30 | 21 31.75 | − 8 3.5 | 1.434 | 2.424 | 6.9 | 19.6 |
| 8 9 | 21 21.79 | − 7 50.7 | 1.403 | 2.411 | 3.4 | 19.4 |
| 8 19 | 21 11.47 | − 7 45.8 | 1.397 | 2.398 | 4.8 | 19.4 |
| 8 29 | 21 2.03 | − 7 46.0 | 1.418 | 2.385 | 9.1 | 19.7 |
| 9 8 | 20 54.59 | − 7 47.9 | 1.462 | 2.372 | 13.3 | 19.9 |
| 9 18 | 20 49.87 | − 7 48.4 | 1.526 | 2.359 | 17.0 | 20.1 |

**509080** 2005 $UU_{62}$ 8 10.2 297°.47 1°.3/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.90 | −10 44.8 | 1.499 | 2.394 | 14.6 | 21.5 |
| 7 20 | 21 37.94 | −11 2.9 | 1.415 | 2.371 | 10.8 | 21.2 |
| 7 30 | 21 30.62 | −11 34.9 | 1.352 | 2.348 | 6.2 | 20.9 |
| 8 9 | 21 21.69 | −12 17.0 | 1.313 | 2.325 | 1.7 | 20.5 |
| 8 19 | 21 12.22 | −13 4.1 | 1.299 | 2.303 | 4.4 | 20.7 |
| 8 29 | 21 3.52 | −13 50.0 | 1.311 | 2.280 | 9.4 | 20.9 |
| 9 8 | 20 56.77 | −14 29.2 | 1.346 | 2.257 | 14.1 | 21.1 |
| 9 18 | 20 52.81 | −14 58.2 | 1.400 | 2.235 | 18.2 | 21.3 |

**480267** 2015 $HY_{78}$ 8 10.2 40°.64 0°.4/10.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.25 | −13 7.4 | 1.442 | 2.343 | 14.7 | 20.8 |
| 7 20 | 21 37.83 | −13 27.5 | 1.395 | 2.356 | 10.4 | 20.5 |
| 7 30 | 21 30.30 | −13 57.7 | 1.370 | 2.369 | 5.7 | 20.3 |
| 8 9 | 21 21.63 | −14 33.0 | 1.370 | 2.383 | 0.8 | 20.0 |
| 8 19 | 21 12.95 | −15 8.0 | 1.395 | 2.398 | 4.3 | 20.3 |
| 8 29 | 21 5.44 | −15 37.8 | 1.445 | 2.412 | 8.9 | 20.6 |
| 9 8 | 21 0.03 | −15 59.0 | 1.518 | 2.428 | 13.0 | 20.9 |
| 9 18 | 20 57.24 | −16 9.7 | 1.611 | 2.443 | 16.3 | 21.2 |

**26835** 1990 $SH_{13}$ 8 10.2 305°.20 1°.0/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.73 | −11 31.0 | 1.407 | 2.307 | 15.1 | 18.8 |
| 7 20 | 21 37.86 | −11 51.1 | 1.331 | 2.291 | 11.0 | 18.5 |
| 7 30 | 21 30.56 | −12 24.8 | 1.277 | 2.275 | 6.3 | 18.2 |
| 8 9 | 21 21.69 | −13 7.8 | 1.247 | 2.260 | 1.4 | 17.8 |
| 8 19 | 21 12.37 | −13 54.4 | 1.241 | 2.244 | 4.5 | 18.0 |
| 8 29 | 21 3.95 | −14 38.2 | 1.260 | 2.230 | 9.7 | 18.3 |
| 9 8 | 20 57.64 | −15 13.8 | 1.302 | 2.215 | 14.4 | 18.5 |
| 9 18 | 20 54.19 | −15 38.1 | 1.362 | 2.201 | 18.4 | 18.7 |

**166459** 2002 $PL_{89}$ 8 10.2 8°.94 9°.4/16.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.43 | + 4 50.2 | 1.313 | 2.163 | 19.1 | 18.6 |
| 7 20 | 21 35.37 | + 5 44.7 | 1.256 | 2.165 | 15.9 | 18.4 |
| 7 30 | 21 29.11 | + 6 11.5 | 1.218 | 2.168 | 12.6 | 18.3 |
| 8 9 | 21 21.52 | + 6 8.8 | 1.199 | 2.173 | 10.1 | 18.1 |
| 8 19 | 21 13.72 | + 5 37.9 | 1.203 | 2.179 | 9.6 | 18.1 |
| 8 29 | 21 6.96 | + 4 44.6 | 1.229 | 2.186 | 11.3 | 18.2 |
| 9 8 | 21 2.26 | + 3 37.5 | 1.276 | 2.194 | 14.3 | 18.4 |
| 9 18 | 21 0.27 | + 2 25.8 | 1.343 | 2.204 | 17.3 | 18.7 |

**262039** 2006 $QL_{149}$ 8 10.2 278°.43 0°.1/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.16 | −12 44.9 | 1.531 | 2.428 | 14.3 | 21.3 |
| 7 20 | 21 38.85 | −13 23.9 | 1.447 | 2.406 | 10.3 | 21.0 |
| 7 30 | 21 31.13 | −14 16.0 | 1.384 | 2.383 | 5.7 | 20.6 |
| 8 9 | 21 21.77 | −15 16.2 | 1.347 | 2.361 | 0.6 | 20.2 |
| 8 19 | 21 11.84 | −16 17.7 | 1.336 | 2.338 | 4.6 | 20.5 |
| 8 29 | 21 2.68 | −17 13.7 | 1.350 | 2.314 | 9.7 | 20.7 |
| 9 8 | 20 55.48 | −17 58.8 | 1.387 | 2.291 | 14.3 | 20.9 |
| 9 18 | 20 51.09 | −18 29.9 | 1.444 | 2.267 | 18.3 | 21.1 |

**488575** 2002 $CZ_{36}$ 8 10.2 148°.29 0°.4/ 9.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.52 | −15 16.7 | 2.181 | 3.066 | 11.1 | 22.5 |
| 7 20 | 21 38.94 | −15 43.8 | 2.122 | 3.076 | 7.8 | 22.3 |
| 7 30 | 21 30.77 | −16 16.1 | 2.087 | 3.085 | 4.2 | 22.1 |
| 8 9 | 21 21.71 | −16 49.8 | 2.081 | 3.094 | 0.5 | 21.8 |
| 8 19 | 21 12.58 | −17 21.1 | 2.103 | 3.103 | 3.5 | 22.1 |
| 8 29 | 21 4.26 | −17 46.5 | 2.153 | 3.110 | 7.2 | 22.4 |
| 9 8 | 20 57.49 | −18 4.1 | 2.230 | 3.117 | 10.4 | 22.6 |
| 9 18 | 20 52.75 | −18 12.8 | 2.328 | 3.124 | 13.1 | 22.8 |

**440427** 2005 $RF_{48}$ 8 10.2 285°.26 4°.9/ 5.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.83 | −27 49.7 | 2.094 | 2.997 | 10.7 | 21.2 |
| 7 20 | 21 37.35 | −28 53.3 | 2.031 | 2.989 | 7.9 | 21.0 |
| 7 30 | 21 30.05 | −29 54.0 | 1.994 | 2.981 | 5.5 | 20.8 |
| 8 9 | 21 21.64 | −30 45.7 | 1.982 | 2.973 | 5.0 | 20.8 |
| 8 19 | 21 13.02 | −31 22.9 | 1.998 | 2.966 | 7.0 | 20.9 |
| 8 29 | 21 5.19 | −31 42.7 | 2.039 | 2.958 | 9.8 | 21.0 |
| 9 8 | 20 59.02 | −31 44.4 | 2.103 | 2.950 | 12.6 | 21.2 |
| 9 18 | 20 55.06 | −31 29.4 | 2.188 | 2.943 | 15.0 | 21.4 |

**231534** 2008 $SS_{134}$ 8 10.2 180°.53 2°.5/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.54 | − 6 59.1 | 1.968 | 2.837 | 12.8 | 20.7 |
| 7 20 | 21 37.74 | − 7 9.2 | 1.898 | 2.837 | 9.6 | 20.5 |
| 7 30 | 21 30.21 | − 7 32.0 | 1.851 | 2.838 | 6.0 | 20.3 |
| 8 9 | 21 21.66 | − 8 5.0 | 1.830 | 2.838 | 2.8 | 20.1 |
| 8 19 | 21 12.92 | − 8 44.5 | 1.837 | 2.838 | 3.8 | 20.1 |
| 8 29 | 21 4.95 | − 9 26.1 | 1.872 | 2.837 | 7.4 | 20.4 |
| 9 8 | 20 58.53 | −10 5.6 | 1.931 | 2.836 | 10.9 | 20.6 |
| 9 18 | 20 54.24 | −10 39.7 | 2.013 | 2.835 | 13.9 | 20.8 |

**231115** 2005 $ST_{161}$ 8 10.2 260°.46 1°.1/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.27 | −10 55.3 | 1.747 | 2.633 | 13.4 | 21.4 |
| 7 20 | 21 38.61 | −11 16.0 | 1.665 | 2.617 | 9.8 | 21.1 |
| 7 30 | 21 30.85 | −11 48.5 | 1.606 | 2.601 | 5.6 | 20.9 |
| 8 9 | 21 21.74 | −12 28.9 | 1.573 | 2.585 | 1.4 | 20.5 |
| 8 19 | 21 12.24 | −13 12.8 | 1.566 | 2.568 | 4.0 | 20.7 |
| 8 29 | 21 3.47 | −13 54.8 | 1.586 | 2.551 | 8.4 | 20.9 |
| 9 8 | 20 56.46 | −14 30.7 | 1.630 | 2.534 | 12.6 | 21.1 |
| 9 18 | 20 51.89 | −14 57.4 | 1.696 | 2.517 | 16.1 | 21.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **505127** 2012 $FO_{67}$ | | | 8 10.2 131.°88 | 2.°7/ 8.3 17 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.45 | −18 26.7 | 1.512 | 2.419 | 13.8 | 21.0 |
| 7 20 | 21 38.84 | −19 37.2 | 1.457 | 2.422 | 9.7 | 20.8 |
| 7 30 | 21 30.97 | −20 54.1 | 1.424 | 2.425 | 5.3 | 20.5 |
| 8 9 | 21 21.74 | −22 9.4 | 1.417 | 2.428 | 2.7 | 20.4 |
| 8 19 | 21 12.32 | −23 15.1 | 1.437 | 2.430 | 5.9 | 20.6 |
| 8 29 | 21 3.97 | −24 5.3 | 1.481 | 2.433 | 10.2 | 20.8 |
| 9 8 | 20 57.74 | −24 37.1 | 1.548 | 2.435 | 14.2 | 21.1 |
| 9 18 | 20 54.27 | −24 50.5 | 1.635 | 2.437 | 17.4 | 21.3 |
| **65936** 1998 $FJ_{69}$ | | | 8 10.2 11.°18 | 19.°8/ 9.2 18 | | |
| 7 10 | 21 26.16 | +34 30.4 | 1.013 | 1.717 | 32.3 | 17.2 |
| 7 20 | 21 26.49 | +34 50.7 | 0.970 | 1.726 | 30.4 | 17.0 |
| 7 30 | 21 24.46 | +34 6.4 | 0.932 | 1.737 | 28.1 | 16.9 |
| 8 9 | 21 21.05 | +32 10.6 | 0.904 | 1.752 | 25.5 | 16.8 |
| 8 19 | 21 17.50 | +29 2.1 | 0.888 | 1.770 | 22.8 | 16.7 |
| 8 29 | 21 15.17 | +24 49.8 | 0.889 | 1.791 | 20.7 | 16.6 |
| 9 8 | 21 15.10 | +19 55.0 | 0.909 | 1.815 | 19.8 | 16.7 |
| 9 18 | 21 17.81 | +14 45.0 | 0.951 | 1.841 | 20.3 | 16.8 |
| **126632** 2002 $CW_{164}$ | | | 8 10.2 189.°13 | 1.°6/ 8.9 17 | | |
| 7 10 | 21 45.43 | −18 27.2 | 2.070 | 2.963 | 11.3 | 21.3 |
| 7 20 | 21 39.06 | −19 2.8 | 2.004 | 2.962 | 7.9 | 21.1 |
| 7 30 | 21 30.92 | −19 42.1 | 1.962 | 2.961 | 4.3 | 20.9 |
| 8 9 | 21 21.74 | −20 20.3 | 1.948 | 2.959 | 1.6 | 20.7 |
| 8 19 | 21 12.39 | −20 53.0 | 1.962 | 2.957 | 4.3 | 20.9 |
| 8 29 | 21 3.85 | −21 16.6 | 2.003 | 2.954 | 8.0 | 21.1 |
| 9 8 | 20 56.93 | −21 29.3 | 2.070 | 2.951 | 11.3 | 21.3 |
| 9 18 | 20 52.18 | −21 30.8 | 2.158 | 2.947 | 14.2 | 21.5 |
| **23945** 1998 $US_{4}$ | | | 8 10.2 143.°73 | 3.°9/ 7.3 18 | | |
| 7 10 | 21 48.67 | −29 3.5 | 2.544 | 3.430 | 9.7 | 18.7 |
| 7 20 | 21 41.00 | −29 16.1 | 2.487 | 3.436 | 7.1 | 18.6 |
| 7 30 | 21 31.81 | −29 23.2 | 2.457 | 3.442 | 4.8 | 18.4 |
| 8 9 | 21 21.83 | −29 20.8 | 2.454 | 3.448 | 3.9 | 18.4 |
| 8 19 | 21 11.90 | −29 6.8 | 2.481 | 3.453 | 5.5 | 18.5 |
| 8 29 | 21 2.86 | −28 40.2 | 2.536 | 3.459 | 7.9 | 18.7 |
| 9 8 | 20 55.42 | −28 2.2 | 2.616 | 3.463 | 10.4 | 18.8 |
| 9 18 | 20 50.01 | −27 14.8 | 2.719 | 3.468 | 12.5 | 19.0 |
| **169611** 2002 $GN_{112}$ | | | 8 10.2 221.°47 | 3.°0/ 7.9 18 | | |
| 7 10 | 21 46.04 | −19 40.7 | 1.603 | 2.507 | 13.3 | 20.2 |
| 7 20 | 21 40.01 | −20 49.3 | 1.537 | 2.501 | 9.4 | 19.9 |
| 7 30 | 21 31.66 | −22 3.4 | 1.495 | 2.494 | 5.3 | 19.7 |
| 8 9 | 21 21.84 | −23 15.3 | 1.478 | 2.487 | 3.1 | 19.5 |
| 8 19 | 21 11.68 | −24 17.3 | 1.488 | 2.479 | 6.1 | 19.7 |
| 8 29 | 21 2.49 | −25 3.4 | 1.524 | 2.471 | 10.4 | 19.9 |
| 9 8 | 20 55.38 | −25 31.1 | 1.583 | 2.462 | 14.3 | 20.2 |
| 9 18 | 20 51.03 | −25 40.5 | 1.661 | 2.453 | 17.6 | 20.4 |
| **254575** 2005 $GN_{12}$ | | | 8 10.2 76.°36 | 0.°9/ 9.6 17 | | |
| 7 10 | 21 45.99 | −14 47.3 | 1.360 | 2.264 | 15.2 | 20.3 |
| 7 20 | 21 39.85 | −15 36.3 | 1.319 | 2.283 | 10.7 | 20.1 |
| 7 30 | 21 31.43 | −16 34.4 | 1.300 | 2.301 | 5.7 | 19.8 |
| 8 9 | 21 21.79 | −17 34.5 | 1.306 | 2.319 | 1.0 | 19.6 |
| 8 19 | 21 12.19 | −18 29.2 | 1.337 | 2.338 | 5.0 | 19.9 |
| 8 29 | 21 3.93 | −19 12.8 | 1.394 | 2.356 | 9.7 | 20.2 |
| 9 8 | 20 57.99 | −19 42.1 | 1.473 | 2.374 | 13.8 | 20.5 |
| 9 18 | 20 54.88 | −19 56.6 | 1.571 | 2.392 | 17.2 | 20.8 |
| **375808** 2009 $TR_{38}$ | | | 8 10.2 285.°54 | 10.°0/16.9 16 | | |
| 7 10 | 21 42.22 | + 8 57.6 | 1.612 | 2.421 | 17.9 | 20.6 |
| 7 20 | 21 37.29 | + 9 42.8 | 1.531 | 2.408 | 15.4 | 20.4 |
| 7 30 | 21 30.20 | +10 1.5 | 1.469 | 2.395 | 12.7 | 20.2 |
| 8 9 | 21 21.69 | + 9 50.7 | 1.428 | 2.382 | 10.7 | 20.0 |
| 8 19 | 21 12.72 | + 9 10.6 | 1.409 | 2.369 | 10.1 | 20.0 |
| 8 29 | 21 4.47 | + 8 5.2 | 1.414 | 2.356 | 11.5 | 20.0 |
| 9 8 | 20 58.01 | + 6 42.5 | 1.442 | 2.343 | 14.1 | 20.1 |
| 9 18 | 20 54.09 | + 5 11.5 | 1.490 | 2.330 | 17.0 | 20.3 |
| **511389** 2014 $GQ_{40}$ | | | 8 10.2 142.°45 | 4.°6/ 5.7 18 | | |
| 7 10 | 21 43.03 | −26 5.2 | 2.143 | 3.045 | 10.6 | 20.6 |
| 7 20 | 21 37.41 | −27 31.6 | 2.092 | 3.050 | 7.7 | 20.5 |
| 7 30 | 21 30.05 | −28 56.5 | 2.066 | 3.055 | 5.2 | 20.3 |
| 8 9 | 21 21.66 | −30 12.9 | 2.068 | 3.060 | 4.7 | 20.3 |
| 8 19 | 21 13.10 | −31 14.9 | 2.097 | 3.065 | 6.7 | 20.4 |
| 8 29 | 21 5.34 | −31 58.8 | 2.153 | 3.069 | 9.5 | 20.6 |
| 9 8 | 20 59.17 | −32 23.6 | 2.232 | 3.073 | 12.1 | 20.8 |
| 9 18 | 20 55.15 | −32 30.6 | 2.332 | 3.077 | 14.4 | 21.0 |
| **51891** 2001 $QS_{19}$ | | | 8 10.2 247.°98 | 0.°4/10.5 18 | | |
| 7 10 | 21 42.14 | −12 44.8 | 2.047 | 2.934 | 11.6 | 18.6 |
| 7 20 | 21 36.75 | −13 7.7 | 1.976 | 2.930 | 8.3 | 18.4 |
| 7 30 | 21 29.69 | −13 38.9 | 1.928 | 2.925 | 4.6 | 18.2 |
| 8 9 | 21 21.62 | −14 14.8 | 1.907 | 2.921 | 0.7 | 17.9 |
| 8 19 | 21 13.37 | −14 51.3 | 1.914 | 2.916 | 3.5 | 18.1 |
| 8 29 | 21 5.83 | −15 24.5 | 1.949 | 2.912 | 7.3 | 18.3 |
| 9 8 | 20 59.78 | −15 51.1 | 2.008 | 2.907 | 10.8 | 18.5 |
| 9 18 | 20 55.78 | −16 9.4 | 2.090 | 2.902 | 13.8 | 18.7 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **488311** 2016 $UH_{73}$ | | | 8 10.2 256.°38 | 0.°3/ 9.9 18 R | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.14 | −14 24.9 | 1.985 | 2.877 | 11.7 | 21.5 |
| 7 20 | 21 36.81 | −14 57.9 | 1.914 | 2.872 | 8.3 | 21.3 |
| 7 30 | 21 29.74 | −15 38.4 | 1.868 | 2.867 | 4.5 | 21.0 |
| 8 9 | 21 21.63 | −16 22.3 | 1.848 | 2.862 | 0.5 | 20.7 |
| 8 19 | 21 13.32 | −17 4.8 | 1.856 | 2.857 | 3.8 | 21.0 |
| 8 29 | 21 5.73 | −17 41.6 | 1.891 | 2.851 | 7.7 | 21.2 |
| 9 8 | 20 59.70 | −18 9.8 | 1.950 | 2.846 | 11.2 | 21.4 |
| 9 18 | 20 55.78 | −18 27.5 | 2.031 | 2.841 | 14.2 | 21.6 |
| **185608** 2008 $CA_{38}$ | | | 8 10.2 79.°29 | 0.°4/10.5 18 | | |
| 7 10 | 21 44.72 | −13 29.8 | 2.178 | 3.059 | 11.3 | 19.9 |
| 7 20 | 21 38.23 | −13 40.5 | 2.134 | 3.086 | 8.0 | 19.8 |
| 7 30 | 21 30.31 | −13 57.1 | 2.116 | 3.113 | 4.3 | 19.6 |
| 8 9 | 21 21.68 | −14 16.5 | 2.125 | 3.139 | 0.7 | 19.3 |
| 8 19 | 21 13.14 | −14 35.6 | 2.163 | 3.165 | 3.2 | 19.6 |
| 8 29 | 21 5.49 | −14 51.6 | 2.229 | 3.190 | 6.7 | 19.9 |
| 9 8 | 20 59.37 | −15 2.5 | 2.321 | 3.216 | 9.7 | 20.1 |
| 9 18 | 20 55.20 | −15 7.1 | 2.436 | 3.241 | 12.3 | 20.3 |
| **83967** 2001 $YG_{111}$ | | | 8 10.2 303.°11 | 7.°9/ 3.4 18 | | |
| 7 10 | 21 44.86 | −34 20.9 | 1.812 | 2.712 | 12.2 | 18.6 |
| 7 20 | 21 39.28 | −35 43.0 | 1.745 | 2.692 | 9.8 | 18.4 |
| 7 30 | 21 31.32 | −36 57.4 | 1.703 | 2.672 | 8.1 | 18.3 |
| 8 9 | 21 21.82 | −37 55.4 | 1.685 | 2.652 | 8.3 | 18.2 |
| 8 19 | 21 11.93 | −38 30.2 | 1.692 | 2.632 | 10.2 | 18.3 |
| 8 29 | 21 2.97 | −38 38.3 | 1.722 | 2.612 | 12.9 | 18.4 |
| 9 8 | 20 56.11 | −38 20.6 | 1.772 | 2.593 | 15.7 | 18.6 |
| 9 18 | 20 52.07 | −37 40.5 | 1.840 | 2.574 | 18.2 | 18.7 |
| **313383** 2002 $LS_{49}$ | | | 8 10.2 33.°66 | 6.°0/16.1 18 | | |
| 7 10 | 21 38.16 | + 4 37.5 | 1.993 | 2.818 | 14.4 | 19.9 |
| 7 20 | 21 33.89 | + 4 25.9 | 1.929 | 2.827 | 11.7 | 19.7 |
| 7 30 | 21 28.11 | + 3 52.8 | 1.886 | 2.836 | 8.9 | 19.5 |
| 8 9 | 21 21.46 | + 2 59.3 | 1.867 | 2.845 | 6.6 | 19.4 |
| 8 19 | 21 14.70 | + 1 49.1 | 1.874 | 2.855 | 6.1 | 19.4 |
| 8 29 | 21 8.64 | + 0 27.7 | 1.907 | 2.865 | 7.8 | 19.5 |
| 9 8 | 21 3.98 | − 0 58.1 | 1.965 | 2.876 | 10.4 | 19.7 |
| 9 18 | 21 1.21 | − 2 22.1 | 2.047 | 2.887 | 13.0 | 19.9 |
| **262171** 2006 $SP_{114}$ | | | 8 10.2 255.°47 | 3.°7/13.4 18 | | |
| 7 10 | 21 40.33 | − 2 23.0 | 2.131 | 2.984 | 12.6 | 21.4 |
| 7 20 | 21 35.44 | − 2 36.5 | 2.051 | 2.976 | 9.8 | 21.2 |
| 7 30 | 21 28.98 | − 3 5.8 | 1.994 | 2.969 | 6.7 | 21.0 |
| 8 9 | 21 21.56 | − 3 49.1 | 1.962 | 2.961 | 4.1 | 20.8 |
| 8 19 | 21 13.91 | − 4 43.1 | 1.957 | 2.953 | 4.3 | 20.8 |
| 8 29 | 21 6.84 | − 5 43.1 | 1.980 | 2.945 | 7.1 | 21.0 |
| 9 8 | 21 1.13 | − 6 43.9 | 2.029 | 2.937 | 10.2 | 21.1 |
| 9 18 | 20 57.30 | − 7 41.2 | 2.100 | 2.929 | 13.2 | 21.3 |
| **514807** 2007 $SP_{21}$ | | | 8 10.2 292.°33 | 5.°7/14.7 18 | | |
| 7 10 | 21 40.09 | + 1 44.5 | 1.811 | 2.654 | 14.9 | 21.3 |
| 7 20 | 21 35.62 | + 1 36.4 | 1.720 | 2.633 | 12.0 | 21.1 |
| 7 30 | 21 29.25 | + 1 6.1 | 1.649 | 2.612 | 8.9 | 20.9 |
| 8 9 | 21 21.61 | + 0 14.2 | 1.602 | 2.591 | 6.2 | 20.7 |
| 8 19 | 21 13.54 | − 0 56.2 | 1.581 | 2.571 | 6.0 | 20.6 |
| 8 29 | 21 6.05 | − 2 19.4 | 1.586 | 2.550 | 8.6 | 20.7 |
| 9 8 | 21 0.09 | − 3 47.9 | 1.615 | 2.529 | 12.0 | 20.9 |
| 9 18 | 20 56.35 | − 5 14.5 | 1.667 | 2.508 | 15.4 | 21.1 |
| **260226** 2004 $RO_{236}$ | | | 8 10.2 219.°36 | 3.°3/13.4 18 | | |
| 7 10 | 21 39.25 | − 2 43.2 | 2.330 | 3.181 | 11.7 | 20.7 |
| 7 20 | 21 34.53 | − 3 4.2 | 2.255 | 3.180 | 9.0 | 20.5 |
| 7 30 | 21 28.43 | − 3 39.5 | 2.203 | 3.178 | 6.1 | 20.3 |
| 8 9 | 21 21.51 | − 4 27.2 | 2.177 | 3.177 | 3.6 | 20.1 |
| 8 19 | 21 14.41 | − 5 23.8 | 2.179 | 3.175 | 3.9 | 20.2 |
| 8 29 | 21 7.88 | − 6 25.1 | 2.208 | 3.173 | 6.4 | 20.3 |
| 9 8 | 21 2.58 | − 7 26.2 | 2.264 | 3.172 | 9.4 | 20.5 |
| 9 18 | 20 58.97 | − 8 23.1 | 2.344 | 3.170 | 12.1 | 20.7 |
| **275988** 2001 $XJ_{96}$ | | | 8 10.2 224.°82 | 1.°5/ 9.1 18 | | |
| 7 10 | 21 44.59 | −17 13.4 | 1.762 | 2.660 | 12.6 | 20.3 |
| 7 20 | 21 38.75 | −17 54.0 | 1.695 | 2.656 | 8.9 | 20.1 |
| 7 30 | 21 30.88 | −18 40.7 | 1.651 | 2.651 | 4.8 | 19.8 |
| 8 9 | 21 21.78 | −19 27.9 | 1.634 | 2.647 | 1.5 | 19.6 |
| 8 19 | 21 12.46 | −20 10.1 | 1.644 | 2.642 | 4.7 | 19.8 |
| 8 29 | 21 4.01 | −20 42.6 | 1.681 | 2.637 | 8.9 | 20.0 |
| 9 8 | 20 57.40 | −21 2.7 | 1.741 | 2.631 | 12.6 | 20.3 |
| 9 18 | 20 53.24 | −21 9.9 | 1.822 | 2.626 | 15.8 | 20.5 |
| **503271** 2015 $PQ_{33}$ | | | 8 10.2 187.°99 | 4.°0/13.6 18 | | |
| 7 10 | 21 41.61 | − 1 53.9 | 2.397 | 3.239 | 11.7 | 21.2 |
| 7 20 | 21 36.15 | − 1 42.4 | 2.321 | 3.238 | 9.2 | 21.0 |
| 7 30 | 21 29.30 | − 1 43.9 | 2.269 | 3.238 | 6.5 | 20.8 |
| 8 9 | 21 21.61 | − 1 57.7 | 2.244 | 3.237 | 4.3 | 20.7 |
| 8 19 | 21 13.77 | − 2 21.7 | 2.246 | 3.236 | 4.5 | 20.7 |
| 8 29 | 21 6.51 | − 2 52.9 | 2.276 | 3.235 | 6.7 | 20.8 |
| 9 8 | 21 0.50 | − 3 27.6 | 2.332 | 3.234 | 9.4 | 21.0 |
| 9 18 | 20 56.21 | − 4 2.2 | 2.411 | 3.232 | 11.9 | 21.2 |

**447316** 2005 $XL_{16}$ 8 10.2 289°.02 1°.4/ 8.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.70 | −17 10.3 | 2.160 | 3.056 | 10.7 | 21.0 |
| 7 20 | 21 35.80 | −17 56.7 | 2.078 | 3.038 | 7.6 | 20.7 |
| 7 30 | 21 29.24 | −18 49.0 | 2.021 | 3.021 | 4.1 | 20.5 |
| 8 9 | 21 21.61 | −19 42.7 | 1.991 | 3.003 | 1.4 | 20.3 |
| 8 19 | 21 13.69 | −20 32.8 | 1.989 | 2.985 | 4.2 | 20.4 |
| 8 29 | 21 6.36 | −21 14.9 | 2.014 | 2.967 | 7.8 | 20.6 |
| 9 8 | 21 0.42 | −21 46.1 | 2.064 | 2.950 | 11.2 | 20.8 |
| 9 18 | 20 56.46 | −22 5.0 | 2.135 | 2.932 | 14.1 | 21.0 |

**332130** 2005 $WH_{54}$ 8 10.2 223°.37 18°.5/19.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.68 | +18 3.0 | 1.161 | 1.936 | 25.4 | 20.7 |
| 7 20 | 21 42.62 | +20 19.4 | 1.102 | 1.933 | 23.1 | 20.5 |
| 7 30 | 21 33.44 | +21 58.1 | 1.057 | 1.930 | 20.9 | 20.4 |
| 8 9 | 21 22.10 | +22 49.2 | 1.029 | 1.927 | 19.2 | 20.3 |
| 8 19 | 21 10.07 | +22 47.3 | 1.018 | 1.924 | 18.5 | 20.2 |
| 8 29 | 20 59.17 | +21 54.5 | 1.024 | 1.920 | 19.1 | 20.2 |
| 9 8 | 20 50.99 | +20 21.7 | 1.047 | 1.916 | 20.7 | 20.3 |
| 9 18 | 20 46.49 | +18 23.3 | 1.087 | 1.912 | 22.9 | 20.5 |

**75442** 1999 $XN_{129}$ 8 10.2 224°.01 4°.2/ 7.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.70 | −24 22.7 | 1.613 | 2.517 | 13.3 | 19.3 |
| 7 20 | 21 41.86 | −25 2.9 | 1.551 | 2.512 | 9.6 | 19.1 |
| 7 30 | 21 32.64 | −25 41.9 | 1.512 | 2.507 | 5.9 | 18.9 |
| 8 9 | 21 21.98 | −26 12.7 | 1.498 | 2.502 | 4.2 | 18.7 |
| 8 19 | 21 11.13 | −26 29.6 | 1.511 | 2.497 | 6.8 | 18.9 |
| 8 29 | 21 1.41 | −26 29.5 | 1.549 | 2.491 | 10.7 | 19.1 |
| 9 8 | 20 53.93 | −26 12.4 | 1.610 | 2.485 | 14.4 | 19.3 |
| 9 18 | 20 49.33 | −25 40.5 | 1.691 | 2.479 | 17.5 | 19.5 |

**142059** 2002 $QH_{29}$ 8 10.2 17°.66 4°.3/ 8.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.06 | −22 39.7 | 0.875 | 1.812 | 18.0 | 18.9 |
| 7 20 | 21 38.61 | −23 1.9 | 0.842 | 1.820 | 12.8 | 18.7 |
| 7 30 | 21 31.03 | −23 23.8 | 0.827 | 1.830 | 7.4 | 18.4 |
| 8 9 | 21 21.80 | −23 36.7 | 0.833 | 1.842 | 4.3 | 18.3 |
| 8 19 | 21 12.71 | −23 34.4 | 0.859 | 1.856 | 7.9 | 18.6 |
| 8 29 | 21 5.55 | −23 14.2 | 0.906 | 1.872 | 13.0 | 18.9 |
| 9 8 | 21 1.50 | −22 37.0 | 0.971 | 1.889 | 17.6 | 19.2 |
| 9 18 | 21 1.02 | −21 46.0 | 1.053 | 1.908 | 21.5 | 19.6 |

**107731** 2001 $FH_{28}$ 8 10.2 131°.53 1°.4/ 9.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.61 | −16 42.0 | 1.677 | 2.573 | 13.2 | 20.5 |
| 7 20 | 21 40.11 | −17 30.5 | 1.624 | 2.584 | 9.3 | 20.3 |
| 7 30 | 21 31.57 | −18 25.2 | 1.595 | 2.595 | 5.0 | 20.1 |
| 8 9 | 21 21.87 | −19 19.9 | 1.593 | 2.605 | 1.4 | 19.9 |
| 8 19 | 21 12.09 | −20 8.4 | 1.618 | 2.615 | 4.8 | 20.1 |
| 8 29 | 21 3.38 | −20 46.1 | 1.669 | 2.624 | 9.0 | 20.4 |
| 9 8 | 20 56.67 | −21 10.5 | 1.744 | 2.633 | 12.7 | 20.7 |
| 9 18 | 20 52.50 | −21 21.2 | 1.840 | 2.641 | 15.8 | 20.9 |

**250569** 2004 $TK_{204}$ 8 10.2 47°.23 5°.6/ 7.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.69 | −24 41.4 | 1.086 | 2.009 | 16.6 | 19.5 |
| 7 20 | 21 41.58 | −25 41.0 | 1.051 | 2.021 | 11.9 | 19.3 |
| 7 30 | 21 32.56 | −26 37.9 | 1.037 | 2.035 | 7.4 | 19.1 |
| 8 9 | 21 21.97 | −27 22.0 | 1.045 | 2.049 | 5.7 | 19.0 |
| 8 19 | 21 11.51 | −27 45.5 | 1.076 | 2.063 | 8.7 | 19.2 |
| 8 29 | 21 2.84 | −27 45.4 | 1.130 | 2.078 | 13.0 | 19.5 |
| 9 8 | 20 57.14 | −27 23.4 | 1.203 | 2.093 | 17.1 | 19.8 |
| 9 18 | 20 54.93 | −26 43.2 | 1.293 | 2.108 | 20.5 | 20.1 |

**279582** 2011 $DP_{28}$ 8 10.2 303°.88 0°.7/10.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.18 | −11 34.4 | 1.351 | 2.254 | 15.4 | 20.7 |
| 7 20 | 21 37.66 | −12 7.1 | 1.270 | 2.232 | 11.2 | 20.4 |
| 7 30 | 21 30.61 | −12 55.4 | 1.211 | 2.210 | 6.3 | 20.0 |
| 8 9 | 21 21.80 | −13 54.4 | 1.174 | 2.188 | 1.1 | 19.6 |
| 8 19 | 21 12.41 | −14 57.2 | 1.163 | 2.166 | 4.8 | 19.8 |
| 8 29 | 21 3.87 | −15 56.1 | 1.175 | 2.145 | 10.2 | 20.1 |
| 9 8 | 20 57.46 | −16 44.7 | 1.210 | 2.124 | 15.2 | 20.3 |
| 9 18 | 20 54.06 | −17 19.1 | 1.263 | 2.104 | 19.4 | 20.5 |

**183677** 2003 $XJ_{27}$ 8 10.2 183°.15 1°.1/11.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.72 | − 9 51.7 | 1.755 | 2.637 | 13.5 | 21.4 |
| 7 20 | 21 38.79 | −10 30.3 | 1.688 | 2.638 | 9.8 | 21.2 |
| 7 30 | 21 30.90 | −11 21.9 | 1.643 | 2.638 | 5.6 | 20.9 |
| 8 9 | 21 21.81 | −12 21.8 | 1.625 | 2.638 | 1.4 | 20.7 |
| 8 19 | 21 12.50 | −13 24.5 | 1.634 | 2.637 | 3.8 | 20.8 |
| 8 29 | 21 4.04 | −14 23.9 | 1.671 | 2.635 | 8.2 | 21.1 |
| 9 8 | 20 57.35 | −15 15.2 | 1.732 | 2.633 | 12.1 | 21.3 |
| 9 18 | 20 53.06 | −15 55.5 | 1.814 | 2.631 | 15.4 | 21.5 |

**137923** 2000 $BF_{18}$ 8 10.2 116°.25 2°.8/ 8.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.51 | −20 37.1 | 1.682 | 2.582 | 13.0 | 20.3 |
| 7 20 | 21 40.72 | −21 25.8 | 1.635 | 2.596 | 9.1 | 20.1 |
| 7 30 | 21 31.88 | −22 16.3 | 1.611 | 2.610 | 5.1 | 19.8 |
| 8 9 | 21 21.91 | −23 2.2 | 1.614 | 2.623 | 2.8 | 19.7 |
| 8 19 | 21 11.94 | −23 37.9 | 1.645 | 2.636 | 5.6 | 19.9 |
| 8 29 | 21 3.11 | −23 59.6 | 1.701 | 2.648 | 9.4 | 20.2 |
| 9 8 | 20 56.36 | −24 6.4 | 1.781 | 2.660 | 13.0 | 20.4 |
| 9 18 | 20 52.20 | −23 59.3 | 1.881 | 2.672 | 15.9 | 20.7 |

**65883** 1997 $YX_{13}$ 8 10.2 206°.04 3°.1/ 7.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.04 | −18 26.0 | 1.830 | 2.731 | 12.1 | 19.3 |
| 7 20 | 21 37.71 | −20 20.8 | 1.765 | 2.728 | 8.5 | 19.1 |
| 7 30 | 21 30.38 | −22 23.4 | 1.727 | 2.726 | 4.8 | 18.9 |
| 8 9 | 21 21.77 | −24 24.8 | 1.716 | 2.723 | 3.2 | 18.8 |
| 8 19 | 21 12.83 | −26 15.8 | 1.734 | 2.720 | 6.1 | 18.9 |
| 8 29 | 21 4.63 | −27 49.1 | 1.779 | 2.716 | 9.8 | 19.2 |
| 9 8 | 20 58.17 | −29 0.6 | 1.849 | 2.712 | 13.3 | 19.4 |
| 9 18 | 20 54.09 | −29 49.8 | 1.938 | 2.708 | 16.2 | 19.6 |

**477484** 2010 $BO_{1}$ 8 10.2 229°.25 1°.1/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.74 | −12 15.0 | 1.962 | 2.841 | 12.4 | 21.8 |
| 7 20 | 21 40.11 | −12 10.2 | 1.884 | 2.833 | 9.0 | 21.5 |
| 7 30 | 21 31.59 | −12 12.7 | 1.830 | 2.824 | 5.1 | 21.3 |
| 8 9 | 21 21.90 | −12 20.2 | 1.803 | 2.815 | 1.4 | 21.0 |
| 8 19 | 21 11.97 | −12 29.7 | 1.804 | 2.806 | 3.7 | 21.2 |
| 8 29 | 21 2.82 | −12 38.3 | 1.833 | 2.796 | 7.7 | 21.4 |
| 9 8 | 20 55.33 | −12 43.4 | 1.887 | 2.786 | 11.4 | 21.6 |
| 9 18 | 20 50.12 | −12 43.5 | 1.963 | 2.775 | 14.6 | 21.8 |

**431399** 2007 $GJ_{21}$ 8 10.2 131°.01 3°.4/ 7.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.68 | −23 3.2 | 1.923 | 2.822 | 11.7 | 22.0 |
| 7 20 | 21 40.00 | −23 55.5 | 1.874 | 2.834 | 8.3 | 21.8 |
| 7 30 | 21 31.46 | −24 47.4 | 1.849 | 2.845 | 4.9 | 21.6 |
| 8 9 | 21 21.88 | −25 32.9 | 1.851 | 2.856 | 3.5 | 21.6 |
| 8 19 | 21 12.26 | −26 6.8 | 1.881 | 2.866 | 5.8 | 21.7 |
| 8 29 | 21 3.65 | −26 26.2 | 1.938 | 2.876 | 9.1 | 21.9 |
| 9 8 | 20 56.88 | −26 30.4 | 2.018 | 2.885 | 12.2 | 22.2 |
| 9 18 | 20 52.48 | −26 20.5 | 2.120 | 2.894 | 14.8 | 22.4 |

**65595** 2430 $T\text{-}_{3}$ 8 10.2 338°.76 7°.7/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.35 | + 8 5.9 | 1.991 | 2.796 | 15.1 | 18.2 |
| 7 20 | 21 34.15 | + 8 18.7 | 1.913 | 2.790 | 12.8 | 18.0 |
| 7 30 | 21 28.35 | + 8 8.3 | 1.855 | 2.785 | 10.3 | 17.8 |
| 8 9 | 21 21.56 | + 7 34.2 | 1.820 | 2.779 | 8.4 | 17.7 |
| 8 19 | 21 14.52 | + 6 38.1 | 1.809 | 2.775 | 7.8 | 17.7 |
| 8 29 | 21 8.11 | + 5 24.6 | 1.824 | 2.770 | 9.0 | 17.7 |
| 9 8 | 21 3.09 | + 4 0.4 | 1.862 | 2.766 | 11.2 | 17.9 |
| 9 18 | 21 0.03 | + 2 32.6 | 1.924 | 2.763 | 13.8 | 18.0 |

**521606** 2015 $PS_{319}$ 8 10.2 173°.41 4°.9/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.79 | + 1 24.9 | 2.428 | 3.254 | 12.1 | 21.3 |
| 7 20 | 21 35.58 | + 1 34.9 | 2.353 | 3.255 | 9.7 | 21.2 |
| 7 30 | 21 29.00 | + 1 29.8 | 2.301 | 3.256 | 7.2 | 21.0 |
| 8 9 | 21 21.62 | + 1 10.0 | 2.274 | 3.257 | 5.2 | 20.9 |
| 8 19 | 21 14.09 | + 0 37.7 | 2.275 | 3.258 | 5.1 | 20.9 |
| 8 29 | 21 7.12 | − 0 4.1 | 2.303 | 3.258 | 6.9 | 21.0 |
| 9 8 | 21 1.36 | − 0 50.9 | 2.358 | 3.258 | 9.3 | 21.1 |
| 9 18 | 20 57.28 | − 1 38.6 | 2.435 | 3.258 | 11.7 | 21.3 |

**423949** 2006 $UR_{18}$ 8 10.2 214°.50 3°.0/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.93 | − 6 17.9 | 1.741 | 2.612 | 14.2 | 21.8 |
| 7 20 | 21 39.00 | − 6 25.4 | 1.667 | 2.607 | 10.6 | 21.6 |
| 7 30 | 21 31.05 | − 6 47.9 | 1.615 | 2.602 | 6.7 | 21.3 |
| 8 9 | 21 21.86 | − 7 22.9 | 1.589 | 2.596 | 3.3 | 21.1 |
| 8 19 | 21 12.38 | − 8 6.4 | 1.589 | 2.590 | 4.4 | 21.2 |
| 8 29 | 21 3.71 | − 8 53.2 | 1.616 | 2.583 | 8.2 | 21.4 |
| 9 8 | 20 56.81 | − 9 38.2 | 1.668 | 2.576 | 12.1 | 21.6 |
| 9 18 | 20 52.32 | −10 17.4 | 1.741 | 2.569 | 15.5 | 21.8 |

**142424** 2002 $SC_{36}$ 8 10.2 14°.05 1°.4/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.31 | −11 0.1 | 1.152 | 2.061 | 17.0 | 19.3 |
| 7 20 | 21 37.68 | −11 13.6 | 1.101 | 2.064 | 12.3 | 19.0 |
| 7 30 | 21 30.49 | −11 42.5 | 1.069 | 2.067 | 7.0 | 18.7 |
| 8 9 | 21 21.80 | −12 21.6 | 1.059 | 2.072 | 1.8 | 18.4 |
| 8 19 | 21 12.94 | −13 4.6 | 1.073 | 2.077 | 4.8 | 18.7 |
| 8 29 | 21 5.39 | −13 44.5 | 1.110 | 2.083 | 10.1 | 19.0 |
| 9 8 | 21 0.28 | −14 16.0 | 1.168 | 2.090 | 14.9 | 19.3 |
| 9 18 | 20 58.26 | −14 35.9 | 1.244 | 2.098 | 18.9 | 19.5 |

**246213** 2007 $RP_{165}$ 8 10.2 271°.47 2°.4/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.64 | − 6 54.3 | 1.847 | 2.721 | 13.3 | 20.9 |
| 7 20 | 21 36.57 | − 7 13.9 | 1.772 | 2.715 | 9.9 | 20.7 |
| 7 30 | 21 29.70 | − 7 47.9 | 1.721 | 2.709 | 6.1 | 20.4 |
| 8 9 | 21 21.72 | − 8 33.3 | 1.695 | 2.703 | 2.8 | 20.2 |
| 8 19 | 21 13.48 | − 9 25.8 | 1.696 | 2.697 | 3.9 | 20.3 |
| 8 29 | 21 5.97 | −10 20.1 | 1.723 | 2.691 | 7.7 | 20.5 |
| 9 8 | 21 0.04 | −11 11.1 | 1.775 | 2.685 | 11.4 | 20.7 |
| 9 18 | 20 56.31 | −11 55.0 | 1.850 | 2.679 | 14.7 | 20.9 |

**76362** 2000 $ES_{171}$ 8 10.2 196°.04 3°.0/ 7.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.19 | −21 52.9 | 2.197 | 3.095 | 10.5 | 19.6 |
| 7 20 | 21 37.50 | −22 56.5 | 2.133 | 3.093 | 7.4 | 19.4 |
| 7 30 | 21 30.13 | −24 1.8 | 2.094 | 3.091 | 4.4 | 19.2 |
| 8 9 | 21 21.76 | −25 3.2 | 2.083 | 3.088 | 3.0 | 19.2 |
| 8 19 | 21 13.19 | −25 55.4 | 2.101 | 3.085 | 5.3 | 19.3 |
| 8 29 | 21 5.33 | −26 34.6 | 2.145 | 3.082 | 8.4 | 19.5 |
| 9 8 | 20 58.98 | −26 58.9 | 2.214 | 3.078 | 11.4 | 19.7 |
| 9 18 | 20 54.68 | −27 8.5 | 2.304 | 3.074 | 13.9 | 19.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **184523** 2005 $QM_{18}$ | | | 8 10.2 | 62°.04 | 2°.2/12.2 18 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 39.94 | − 6 19.5 | 2.056 | 2.926 | 12.3 | 20.1 |
| 7 20 | 21 35.17 | − 6 52.1 | 1.989 | 2.930 | 9.1 | 19.9 |
| 7 30 | 21 28.85 | − 7 38.4 | 1.945 | 2.933 | 5.6 | 19.7 |
| 8 9 | 21 21.62 | − 8 35.0 | 1.928 | 2.936 | 2.5 | 19.5 |
| 8 19 | 21 14.24 | − 9 37.6 | 1.938 | 2.940 | 3.5 | 19.6 |
| 8 29 | 21 7.55 | −10 40.9 | 1.976 | 2.943 | 6.9 | 19.8 |
| 9 8 | 21 2.27 | −11 40.1 | 2.039 | 2.947 | 10.2 | 20.1 |
| 9 18 | 20 58.89 | −12 31.5 | 2.125 | 2.951 | 13.1 | 20.3 |
| **311213** 2004 $YW_{31}$ | | | 8 10.2 | 142°.49 | 1°.2/ 9.5 17 | |
| 7 10 | 21 49.17 | −17 10.4 | 1.619 | 2.514 | 13.7 | 21.3 |
| 7 20 | 21 41.98 | −17 34.4 | 1.563 | 2.523 | 9.7 | 21.1 |
| 7 30 | 21 32.62 | −18 3.4 | 1.532 | 2.531 | 5.2 | 20.9 |
| 8 9 | 21 22.03 | −18 32.1 | 1.526 | 2.539 | 1.2 | 20.6 |
| 8 19 | 21 11.38 | −18 55.6 | 1.547 | 2.546 | 4.7 | 20.9 |
| 8 29 | 21 1.89 | −19 10.1 | 1.595 | 2.553 | 9.1 | 21.2 |
| 9 8 | 20 54.55 | −19 14.0 | 1.667 | 2.559 | 13.0 | 21.4 |
| 9 18 | 20 49.93 | −19 7.1 | 1.759 | 2.565 | 16.3 | 21.6 |
| **320182** 2007 $GR_{31}$ | | | 8 10.2 | 36°.35 | 1°.7/11.7 18 | |
| 7 10 | 21 39.89 | − 8 26.3 | 2.214 | 3.089 | 11.4 | 21.0 |
| 7 20 | 21 35.04 | − 8 45.9 | 2.147 | 3.091 | 8.4 | 20.8 |
| 7 30 | 21 28.75 | − 9 16.1 | 2.103 | 3.094 | 5.0 | 20.6 |
| 8 9 | 21 21.61 | − 9 54.2 | 2.087 | 3.097 | 2.0 | 20.4 |
| 8 19 | 21 14.35 | −10 36.5 | 2.098 | 3.100 | 3.2 | 20.5 |
| 8 29 | 21 7.74 | −11 19.1 | 2.136 | 3.103 | 6.5 | 20.7 |
| 9 8 | 21 2.45 | −11 58.3 | 2.200 | 3.106 | 9.7 | 20.9 |
| 9 18 | 20 58.96 | −12 31.4 | 2.288 | 3.109 | 12.5 | 21.1 |
| **272241** 2005 $QC_{123}$ | | | 8 10.2 | 149°.85 | 1°.4/ 9.3 18 | |
| 7 10 | 21 47.54 | −18 3.3 | 1.739 | 2.635 | 12.9 | 20.4 |
| 7 20 | 21 40.76 | −18 26.7 | 1.680 | 2.640 | 9.1 | 20.1 |
| 7 30 | 21 31.94 | −18 54.1 | 1.646 | 2.645 | 4.9 | 19.9 |
| 8 9 | 21 21.97 | −19 20.4 | 1.637 | 2.650 | 1.4 | 19.7 |
| 8 19 | 21 11.90 | −19 41.1 | 1.656 | 2.654 | 4.6 | 19.9 |
| 8 29 | 21 2.87 | −19 52.8 | 1.702 | 2.658 | 8.8 | 20.2 |
| 9 8 | 20 55.81 | −19 54.1 | 1.771 | 2.661 | 12.5 | 20.4 |
| 9 18 | 20 51.29 | −19 44.8 | 1.862 | 2.665 | 15.6 | 20.6 |
| **447108** 2004 $TD_{181}$ | | | 8 10.2 | 238°.03 | 9°.8/ 1.1 18 | |
| 7 10 | 21 54.46 | −49 17.0 | 2.515 | 3.350 | 11.5 | 20.9 |
| 7 20 | 21 45.64 | −50 8.2 | 2.470 | 3.343 | 10.4 | 20.8 |
| 7 30 | 21 34.55 | −50 41.3 | 2.447 | 3.336 | 9.8 | 20.8 |
| 8 9 | 21 22.25 | −50 50.3 | 2.448 | 3.329 | 10.1 | 20.8 |
| 8 19 | 21 9.99 | −50 32.2 | 2.473 | 3.322 | 11.0 | 20.9 |
| 8 29 | 20 59.09 | −49 47.4 | 2.520 | 3.315 | 12.4 | 20.9 |
| 9 8 | 20 50.52 | −48 39.6 | 2.588 | 3.308 | 13.8 | 21.1 |
| 9 18 | 20 44.81 | −47 14.0 | 2.674 | 3.301 | 15.2 | 21.2 |
| **45961** 2001 $BA_{6}$ | | | 8 10.2 | 100°.86 | 4°.6/ 7.3 18 | |
| 7 10 | 21 48.11 | −24 8.5 | 1.476 | 2.384 | 14.0 | 19.1 |
| 7 20 | 21 41.43 | −25 11.4 | 1.433 | 2.397 | 10.0 | 18.9 |
| 7 30 | 21 32.38 | −26 13.1 | 1.413 | 2.409 | 6.2 | 18.7 |
| 8 9 | 21 22.02 | −27 5.0 | 1.418 | 2.420 | 4.7 | 18.7 |
| 8 19 | 21 11.65 | −27 40.6 | 1.449 | 2.432 | 7.3 | 18.9 |
| 8 29 | 21 2.63 | −27 56.4 | 1.504 | 2.443 | 11.1 | 19.1 |
| 9 8 | 20 55.99 | −27 52.6 | 1.582 | 2.454 | 14.7 | 19.4 |
| 9 18 | 20 52.28 | −27 31.6 | 1.678 | 2.465 | 17.7 | 19.6 |
| **521635** 2015 $QH_{16}$ | | | 8 10.2 | 50°.48 | 0°.1/10.1 18 | |
| 7 10 | 21 42.34 | −14 37.7 | 2.019 | 2.910 | 11.6 | 21.3 |
| 7 20 | 21 36.84 | −14 54.1 | 1.961 | 2.918 | 8.2 | 21.1 |
| 7 30 | 21 29.73 | −15 16.6 | 1.927 | 2.926 | 4.4 | 20.8 |
| 8 9 | 21 21.74 | −15 41.6 | 1.920 | 2.934 | 0.5 | 20.5 |
| 8 19 | 21 13.67 | −16 5.6 | 1.941 | 2.942 | 3.5 | 20.8 |
| 8 29 | 21 6.42 | −16 25.2 | 1.988 | 2.950 | 7.3 | 21.1 |
| 9 8 | 21 0.72 | −16 38.0 | 2.061 | 2.959 | 10.6 | 21.3 |
| 9 18 | 20 57.06 | −16 42.9 | 2.155 | 2.967 | 13.4 | 21.5 |
| **245585** 2005 $UZ_{380}$ | | | 8 10.2 | 336°.81 | 3°.1/ 7.6 18 | |
| 7 10 | 21 41.61 | −22 2.0 | 2.003 | 2.908 | 11.1 | 20.0 |
| 7 20 | 21 36.50 | −22 55.6 | 1.942 | 2.905 | 7.8 | 19.8 |
| 7 30 | 21 29.63 | −23 50.9 | 1.904 | 2.902 | 4.6 | 19.6 |
| 8 9 | 21 21.74 | −24 42.0 | 1.894 | 2.899 | 3.1 | 19.5 |
| 8 19 | 21 13.67 | −25 23.8 | 1.910 | 2.897 | 5.4 | 19.7 |
| 8 29 | 21 6.38 | −25 52.6 | 1.952 | 2.895 | 8.8 | 19.9 |
| 9 8 | 21 0.69 | −26 6.7 | 2.019 | 2.893 | 11.9 | 20.1 |
| 9 18 | 20 57.15 | −26 6.3 | 2.106 | 2.891 | 14.6 | 20.2 |
| **478906** 2012 $WA_{28}$ | | | 8 10.2 | 290°.63 | 1°.6/ 9.1 18 | |
| 7 10 | 21 43.94 | −17 45.1 | 1.722 | 2.623 | 12.7 | 21.7 |
| 7 20 | 21 38.51 | −18 18.4 | 1.640 | 2.603 | 9.0 | 21.5 |
| 7 30 | 21 30.91 | −18 57.8 | 1.582 | 2.582 | 4.9 | 21.2 |
| 8 9 | 21 21.89 | −19 38.2 | 1.549 | 2.561 | 1.6 | 20.9 |
| 8 19 | 21 12.46 | −20 13.8 | 1.542 | 2.540 | 4.9 | 21.1 |
| 8 29 | 21 3.78 | −20 40.1 | 1.562 | 2.519 | 9.3 | 21.3 |
| 9 8 | 20 56.93 | −20 54.1 | 1.605 | 2.498 | 13.3 | 21.5 |
| 9 18 | 20 52.62 | −20 54.9 | 1.668 | 2.478 | 16.8 | 21.7 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **318520** 2005 $EW_{202}$ | | | 8 10.2 | 88°.30 | 3°.3/12.6 17 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.28 | − 4 22.8 | 1.435 | 2.312 | 16.2 | 20.6 |
| 7 20 | 21 37.98 | − 5 0.7 | 1.380 | 2.322 | 12.2 | 20.4 |
| 7 30 | 21 30.53 | − 5 59.4 | 1.345 | 2.332 | 7.7 | 20.1 |
| 8 9 | 21 21.84 | − 7 14.5 | 1.335 | 2.343 | 3.8 | 19.9 |
| 8 19 | 21 13.01 | − 8 38.7 | 1.351 | 2.353 | 4.6 | 20.0 |
| 8 29 | 21 5.24 | −10 3.7 | 1.392 | 2.363 | 8.8 | 20.3 |
| 9 8 | 20 59.52 | −11 21.9 | 1.457 | 2.373 | 13.0 | 20.6 |
| 9 18 | 20 56.45 | −12 28.2 | 1.543 | 2.382 | 16.5 | 20.8 |
| **417260** 2005 $YN_{260}$ | | | 8 10.2 | 60°.40 | 4°.1/ 7.0 17 | |
| 7 10 | 21 44.76 | −20 50.8 | 1.460 | 2.371 | 13.9 | 20.2 |
| 7 20 | 21 38.92 | −22 36.0 | 1.433 | 2.400 | 9.7 | 20.0 |
| 7 30 | 21 30.95 | −24 22.2 | 1.431 | 2.429 | 5.7 | 19.9 |
| 8 9 | 21 21.87 | −25 59.5 | 1.453 | 2.458 | 4.2 | 19.8 |
| 8 19 | 21 12.88 | −27 19.3 | 1.502 | 2.487 | 7.0 | 20.1 |
| 8 29 | 21 5.20 | −28 16.8 | 1.576 | 2.515 | 10.7 | 20.4 |
| 9 8 | 20 59.73 | −28 51.0 | 1.673 | 2.544 | 14.1 | 20.6 |
| 9 18 | 20 56.95 | −29 3.9 | 1.788 | 2.573 | 16.8 | 20.9 |
| **384086** 2008 $VF_{63}$ | | | 8 10.2 | 169°.41 | 5°.3/15.1 18 | |
| 7 10 | 21 42.49 | + 3 13.4 | 2.413 | 3.226 | 12.5 | 21.9 |
| 7 20 | 21 36.80 | + 3 16.6 | 2.338 | 3.231 | 10.1 | 21.7 |
| 7 30 | 21 29.69 | + 3 3.0 | 2.286 | 3.234 | 7.6 | 21.6 |
| 8 9 | 21 21.76 | + 2 33.4 | 2.260 | 3.238 | 5.7 | 21.5 |
| 8 19 | 21 13.67 | + 1 49.8 | 2.261 | 3.240 | 5.4 | 21.5 |
| 8 29 | 21 6.17 | + 0 56.1 | 2.290 | 3.242 | 7.1 | 21.6 |
| 9 8 | 20 59.92 | − 0 3.0 | 2.346 | 3.243 | 9.5 | 21.7 |
| 9 18 | 20 55.41 | − 1 2.7 | 2.425 | 3.244 | 11.9 | 21.9 |
| **309117** 2006 $WT_{138}$ | | | 8 10.2 | 289°.93 | 2°.8/ 7.7 18 | |
| 7 10 | 21 41.63 | −20 37.3 | 1.984 | 2.887 | 11.2 | 20.3 |
| 7 20 | 21 36.56 | −21 40.9 | 1.919 | 2.882 | 7.9 | 20.1 |
| 7 30 | 21 29.70 | −22 47.9 | 1.879 | 2.877 | 4.5 | 19.9 |
| 8 9 | 21 21.76 | −23 52.2 | 1.865 | 2.873 | 2.9 | 19.7 |
| 8 19 | 21 13.61 | −24 48.0 | 1.879 | 2.868 | 5.3 | 19.9 |
| 8 29 | 21 6.20 | −25 30.7 | 1.920 | 2.863 | 8.8 | 20.1 |
| 9 8 | 21 0.38 | −25 58.0 | 1.984 | 2.859 | 12.0 | 20.3 |
| 9 18 | 20 56.73 | −26 9.9 | 2.069 | 2.854 | 14.8 | 20.5 |
| **215825** 2005 $AC_{32}$ | | | 8 10.2 | 134°.47 | 0°.8/ 9.7 17 | |
| 7 10 | 21 47.20 | −14 56.1 | 1.655 | 2.548 | 13.6 | 21.1 |
| 7 20 | 21 40.56 | −15 40.8 | 1.601 | 2.560 | 9.6 | 20.9 |
| 7 30 | 21 31.87 | −16 33.4 | 1.572 | 2.571 | 5.1 | 20.7 |
| 8 9 | 21 22.00 | −17 27.9 | 1.568 | 2.582 | 0.8 | 20.4 |
| 8 19 | 21 12.06 | −18 18.3 | 1.592 | 2.592 | 4.4 | 20.7 |
| 8 29 | 21 3.19 | −18 59.6 | 1.643 | 2.602 | 8.8 | 21.0 |
| 9 8 | 20 56.34 | −19 28.8 | 1.718 | 2.611 | 12.6 | 21.2 |
| 9 18 | 20 52.06 | −19 45.0 | 1.813 | 2.619 | 15.8 | 21.4 |
| **431303** 2006 $VP_{56}$ | | | 8 10.2 | 284°.87 | 1°.3/11.0 15 | |
| 7 10 | 21 43.80 | −10 29.3 | 1.489 | 2.382 | 14.8 | 21.7 |
| 7 20 | 21 38.63 | −10 51.4 | 1.408 | 2.364 | 10.9 | 21.4 |
| 7 30 | 21 31.08 | −11 28.0 | 1.349 | 2.345 | 6.3 | 21.1 |
| 8 9 | 21 21.95 | −12 15.0 | 1.315 | 2.327 | 1.7 | 20.7 |
| 8 19 | 21 12.31 | −13 6.7 | 1.305 | 2.309 | 4.4 | 20.9 |
| 8 29 | 21 3.50 | −13 56.9 | 1.322 | 2.290 | 9.4 | 21.1 |
| 9 8 | 20 56.68 | −14 39.8 | 1.361 | 2.272 | 14.0 | 21.4 |
| 9 18 | 20 52.66 | −15 11.8 | 1.420 | 2.254 | 18.0 | 21.6 |
| **516099** 2015 $TS_{366}$ | | | 8 10.2 | 289°.11 | 1°.1/ 9.2 18 | |
| 7 10 | 21 40.43 | −17 34.4 | 2.466 | 3.358 | 9.7 | 21.6 |
| 7 20 | 21 35.39 | −18 4.2 | 2.394 | 3.353 | 6.8 | 21.4 |
| 7 30 | 21 28.96 | −18 37.8 | 2.348 | 3.347 | 3.7 | 21.2 |
| 8 9 | 21 21.69 | −19 11.5 | 2.329 | 3.341 | 1.1 | 21.0 |
| 8 19 | 21 14.28 | −19 42.0 | 2.338 | 3.336 | 3.5 | 21.2 |
| 8 29 | 21 7.46 | −20 6.1 | 2.376 | 3.330 | 6.7 | 21.4 |
| 9 8 | 21 1.88 | −20 21.8 | 2.439 | 3.325 | 9.7 | 21.6 |
| 9 18 | 20 58.02 | −20 28.4 | 2.524 | 3.319 | 12.2 | 21.7 |
| **521729** 2015 $RT_{269}$ | | | 8 10.2 | 226°.28 | 1°.8/ 8.7 18 | |
| 7 10 | 21 43.16 | −20 35.9 | 2.401 | 3.295 | 9.9 | 21.5 |
| 7 20 | 21 37.32 | −20 57.7 | 2.333 | 3.292 | 7.0 | 21.3 |
| 7 30 | 21 29.99 | −21 20.7 | 2.291 | 3.289 | 3.9 | 21.1 |
| 8 9 | 21 21.81 | −21 41.1 | 2.276 | 3.286 | 1.8 | 21.0 |
| 8 19 | 21 13.51 | −21 55.9 | 2.289 | 3.283 | 4.1 | 21.1 |
| 8 29 | 21 5.89 | −22 2.5 | 2.331 | 3.279 | 7.2 | 21.3 |
| 9 8 | 20 59.65 | −21 59.9 | 2.398 | 3.276 | 10.1 | 21.5 |
| 9 18 | 20 55.26 | −21 48.1 | 2.487 | 3.273 | 12.6 | 21.7 |
| **128056** 2003 $MU_{12}$ | | | 8 10.2 | 21°.83 | 7°.6/15.8 18 | |
| 7 10 | 21 42.89 | + 6 15.6 | 2.191 | 2.992 | 14.0 | 18.7 |
| 7 20 | 21 37.22 | + 7 13.4 | 2.120 | 2.995 | 11.8 | 18.5 |
| 7 30 | 21 29.99 | + 7 53.4 | 2.071 | 2.998 | 9.6 | 18.4 |
| 8 9 | 21 21.82 | + 8 13.8 | 2.046 | 3.000 | 7.9 | 18.3 |
| 8 19 | 21 13.47 | + 8 15.0 | 2.047 | 3.004 | 7.7 | 18.3 |
| 8 29 | 21 5.76 | + 7 59.1 | 2.074 | 3.007 | 8.9 | 18.4 |
| 9 8 | 20 59.43 | + 7 30.4 | 2.125 | 3.011 | 10.9 | 18.5 |
| 9 18 | 20 55.01 | + 6 53.9 | 2.198 | 3.014 | 13.1 | 18.7 |

**307024** 2001 $XZ_{108}$ 8 10.2 253°.18 2°.0/ 8.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.74 | −16 50.0 | 1.476 | 2.380 | 14.3 | 20.9 |
| 7 20 | 21 40.06 | −17 50.4 | 1.404 | 2.368 | 10.1 | 20.7 |
| 7 30 | 21 31.88 | −19 0.5 | 1.354 | 2.354 | 5.5 | 20.4 |
| 8 9 | 21 22.05 | −20 12.8 | 1.329 | 2.341 | 2.0 | 20.1 |
| 8 19 | 21 11.76 | −21 19.2 | 1.330 | 2.327 | 5.7 | 20.3 |
| 8 29 | 21 2.41 | −22 12.5 | 1.356 | 2.312 | 10.5 | 20.5 |
| 9 8 | 20 55.21 | −22 48.7 | 1.405 | 2.297 | 14.9 | 20.8 |
| 9 18 | 20 50.95 | −23 6.9 | 1.473 | 2.282 | 18.7 | 21.0 |

**480538** 2015 $MH_{43}$ 8 10.2 71°.95 8°.0/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.41 | + 7 25.5 | 1.757 | 2.569 | 16.5 | 21.1 |
| 7 20 | 21 36.42 | + 7 39.6 | 1.693 | 2.576 | 13.8 | 20.9 |
| 7 30 | 21 29.64 | + 7 28.3 | 1.648 | 2.584 | 11.0 | 20.7 |
| 8 9 | 21 21.79 | + 6 51.4 | 1.626 | 2.591 | 8.7 | 20.6 |
| 8 19 | 21 13.77 | + 5 51.6 | 1.628 | 2.598 | 8.1 | 20.6 |
| 8 29 | 21 6.57 | + 4 34.4 | 1.656 | 2.606 | 9.5 | 20.7 |
| 9 8 | 21 1.03 | + 3 7.8 | 1.707 | 2.613 | 12.0 | 20.9 |
| 9 18 | 20 57.71 | + 1 39.4 | 1.781 | 2.620 | 14.7 | 21.1 |

**137512** 1999 $VZ_{33}$ 8 10.2 158°.09 4°.1/12.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.93 | − 3 53.4 | 1.621 | 2.487 | 15.3 | 20.0 |
| 7 20 | 21 39.05 | − 3 52.2 | 1.556 | 2.490 | 11.7 | 19.8 |
| 7 30 | 21 31.12 | − 4 8.7 | 1.512 | 2.492 | 7.8 | 19.5 |
| 8 9 | 21 21.96 | − 4 40.7 | 1.493 | 2.495 | 4.6 | 19.4 |
| 8 19 | 21 12.59 | − 5 24.6 | 1.499 | 2.497 | 5.1 | 19.4 |
| 8 29 | 21 4.15 | − 6 14.7 | 1.532 | 2.499 | 8.6 | 19.6 |
| 9 8 | 20 57.60 | − 7 5.1 | 1.589 | 2.500 | 12.4 | 19.8 |
| 9 18 | 20 53.55 | − 7 51.0 | 1.667 | 2.501 | 15.7 | 20.1 |

**66778** 1999 $TL_{221}$ 8 10.2 313°.55 2°.2/ 8.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.10 | −18 0.6 | 1.574 | 2.482 | 13.3 | 19.1 |
| 7 20 | 21 37.28 | −18 55.5 | 1.505 | 2.471 | 9.4 | 18.9 |
| 7 30 | 21 30.27 | −19 57.6 | 1.459 | 2.460 | 5.1 | 18.6 |
| 8 9 | 21 21.88 | −21 0.2 | 1.439 | 2.450 | 2.2 | 18.4 |
| 8 19 | 21 13.15 | −21 56.2 | 1.444 | 2.440 | 5.5 | 18.6 |
| 8 29 | 21 5.32 | −22 39.8 | 1.474 | 2.430 | 9.9 | 18.8 |
| 9 8 | 20 59.43 | −23 7.6 | 1.527 | 2.420 | 13.9 | 19.0 |
| 9 18 | 20 56.17 | −23 18.7 | 1.599 | 2.411 | 17.3 | 19.2 |

**144096** Wiesendangen 8 10.2 255°.70 0°.5/10.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.59 | −12 1.9 | 1.728 | 2.615 | 13.4 | 21.5 |
| 7 20 | 21 39.69 | −12 30.9 | 1.642 | 2.596 | 9.7 | 21.2 |
| 7 30 | 21 31.60 | −13 11.4 | 1.580 | 2.577 | 5.5 | 20.9 |
| 8 9 | 21 22.03 | −13 59.2 | 1.543 | 2.557 | 0.9 | 20.5 |
| 8 19 | 21 12.00 | −14 48.9 | 1.534 | 2.536 | 4.1 | 20.7 |
| 8 29 | 21 2.68 | −15 35.0 | 1.551 | 2.515 | 8.8 | 21.0 |
| 9 8 | 20 55.15 | −16 12.9 | 1.593 | 2.494 | 13.0 | 21.2 |
| 9 18 | 20 50.16 | −16 40.0 | 1.656 | 2.471 | 16.7 | 21.4 |

**429534** 2011 $BM_{116}$ 8 10.2 185°.76 0°.6/ 9.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.02 | −14 29.5 | 1.776 | 2.668 | 12.8 | 21.5 |
| 7 20 | 21 39.05 | −15 12.5 | 1.711 | 2.669 | 9.1 | 21.3 |
| 7 30 | 21 31.10 | −16 4.2 | 1.669 | 2.668 | 4.9 | 21.1 |
| 8 9 | 21 21.96 | −16 59.0 | 1.654 | 2.668 | 0.7 | 20.7 |
| 8 19 | 21 12.61 | −17 51.4 | 1.666 | 2.666 | 4.2 | 21.0 |
| 8 29 | 21 4.14 | −18 36.0 | 1.705 | 2.665 | 8.5 | 21.3 |
| 9 8 | 20 57.46 | −19 9.6 | 1.769 | 2.663 | 12.3 | 21.5 |
| 9 18 | 20 53.19 | −19 30.6 | 1.853 | 2.660 | 15.5 | 21.7 |

**213253** 2001 $DP_{32}$ 8 10.2 192°.88 2°.0/ 8.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.33 | −18 31.9 | 1.702 | 2.600 | 13.0 | 21.1 |
| 7 20 | 21 40.78 | −19 12.0 | 1.638 | 2.599 | 9.2 | 20.9 |
| 7 30 | 21 32.08 | −19 56.8 | 1.598 | 2.597 | 5.0 | 20.6 |
| 8 9 | 21 22.07 | −20 40.3 | 1.584 | 2.595 | 2.0 | 20.4 |
| 8 19 | 21 11.86 | −21 16.7 | 1.597 | 2.592 | 5.1 | 20.6 |
| 8 29 | 21 2.63 | −21 41.9 | 1.636 | 2.589 | 9.3 | 20.9 |
| 9 8 | 20 55.40 | −21 53.7 | 1.699 | 2.586 | 13.1 | 21.1 |
| 9 18 | 20 50.78 | −21 52.2 | 1.783 | 2.582 | 16.3 | 21.3 |

**256436** 2007 $CS_{10}$ 8 10.2 185°.25 0°.1/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.01 | −13 54.8 | 2.373 | 3.259 | 10.3 | 21.4 |
| 7 20 | 21 35.82 | −14 29.4 | 2.304 | 3.259 | 7.3 | 21.2 |
| 7 30 | 21 29.20 | −15 10.7 | 2.260 | 3.258 | 3.9 | 21.0 |
| 8 9 | 21 21.75 | −15 54.9 | 2.244 | 3.258 | 0.4 | 20.7 |
| 8 19 | 21 14.16 | −16 38.2 | 2.257 | 3.257 | 3.2 | 20.9 |
| 8 29 | 21 7.18 | −17 16.9 | 2.297 | 3.257 | 6.6 | 21.2 |
| 9 8 | 21 1.48 | −17 48.2 | 2.363 | 3.256 | 9.7 | 21.4 |
| 9 18 | 20 57.54 | −18 10.7 | 2.452 | 3.255 | 12.3 | 21.5 |

**225617** 2001 $AQ_{14}$ 8 10.2 62°.32 4°.3/ 6.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.85 | −21 52.6 | 1.546 | 2.455 | 13.4 | 18.7 |
| 7 20 | 21 38.94 | −23 37.7 | 1.519 | 2.484 | 9.4 | 18.5 |
| 7 30 | 21 30.98 | −25 22.7 | 1.517 | 2.514 | 5.7 | 18.4 |
| 8 9 | 21 21.94 | −26 57.9 | 1.541 | 2.543 | 4.4 | 18.4 |
| 8 19 | 21 12.99 | −28 15.4 | 1.591 | 2.572 | 7.0 | 18.6 |
| 8 29 | 21 5.28 | −29 10.7 | 1.667 | 2.601 | 10.5 | 18.9 |
| 9 8 | 20 59.69 | −29 43.1 | 1.765 | 2.630 | 13.8 | 19.1 |
| 9 18 | 20 56.72 | −29 54.7 | 1.882 | 2.659 | 16.4 | 19.4 |

**238184** 2003 $ST_{257}$ 8 10.2 349°.43 2°.6/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 39.08 | − 6 55.0 | 1.373 | 2.267 | 15.8 | 19.2 |
| 7 20 | 21 35.23 | − 7 20.8 | 1.307 | 2.260 | 11.8 | 19.0 |
| 7 30 | 21 29.18 | − 8 5.9 | 1.262 | 2.255 | 7.3 | 18.7 |
| 8 9 | 21 21.77 | − 9 6.1 | 1.240 | 2.250 | 3.1 | 18.4 |
| 8 19 | 21 14.07 | −10 15.2 | 1.243 | 2.246 | 4.5 | 18.5 |
| 8 29 | 21 7.31 | −11 25.5 | 1.270 | 2.244 | 9.1 | 18.8 |
| 9 8 | 21 2.54 | −12 29.6 | 1.319 | 2.242 | 13.5 | 19.0 |
| 9 18 | 21 0.42 | −13 22.5 | 1.388 | 2.241 | 17.4 | 19.3 |

**432426** 2010 $AR_{97}$ 8 10.2 12°.03 8°.3/13.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.82 | − 1 9.6 | 1.145 | 2.022 | 19.5 | 19.6 |
| 7 20 | 21 39.49 | + 0 12.4 | 1.091 | 2.024 | 15.6 | 19.4 |
| 7 30 | 21 31.55 | + 1 12.1 | 1.057 | 2.028 | 11.6 | 19.2 |
| 8 9 | 21 22.03 | + 1 46.8 | 1.043 | 2.033 | 8.7 | 19.0 |
| 8 19 | 21 12.32 | + 1 56.6 | 1.052 | 2.039 | 8.8 | 19.1 |
| 8 29 | 21 3.90 | + 1 45.4 | 1.083 | 2.046 | 11.7 | 19.2 |
| 9 8 | 20 57.99 | + 1 20.2 | 1.134 | 2.054 | 15.4 | 19.5 |
| 9 18 | 20 55.23 | + 0 48.8 | 1.203 | 2.063 | 19.0 | 19.7 |

**454792** 2015 $PT_{10}$ 8 10.2 330°.18 5°.9/14.2 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.16 | − 0 15.3 | 1.730 | 2.585 | 15.0 | 20.9 |
| 7 20 | 21 35.70 | + 0 9.3 | 1.651 | 2.571 | 12.0 | 20.7 |
| 7 30 | 21 29.35 | + 0 15.4 | 1.592 | 2.559 | 8.8 | 20.4 |
| 8 9 | 21 21.80 | + 0 2.8 | 1.557 | 2.547 | 6.3 | 20.3 |
| 8 19 | 21 13.91 | − 0 26.6 | 1.547 | 2.535 | 6.2 | 20.2 |
| 8 29 | 21 6.73 | − 1 8.7 | 1.561 | 2.525 | 8.8 | 20.4 |
| 9 8 | 21 1.15 | − 1 57.6 | 1.600 | 2.514 | 12.1 | 20.6 |
| 9 18 | 20 57.84 | − 2 47.5 | 1.659 | 2.505 | 15.3 | 20.7 |

**108238** 2001 $HP_{41}$ 8 10.2 131°.40 10°.8/22.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.01 | +21 4.3 | 2.328 | 3.019 | 16.2 | 19.8 |
| 7 20 | 21 36.59 | +21 36.2 | 2.260 | 3.030 | 14.6 | 19.7 |
| 7 30 | 21 29.65 | +21 41.4 | 2.210 | 3.040 | 13.0 | 19.6 |
| 8 9 | 21 21.83 | +21 17.9 | 2.180 | 3.050 | 11.6 | 19.5 |
| 8 19 | 21 13.85 | +20 26.2 | 2.172 | 3.060 | 10.8 | 19.5 |
| 8 29 | 21 6.53 | +19 9.6 | 2.188 | 3.069 | 10.9 | 19.5 |
| 9 8 | 21 0.59 | +17 34.4 | 2.228 | 3.078 | 11.9 | 19.6 |
| 9 18 | 20 56.52 | +15 48.2 | 2.289 | 3.086 | 13.2 | 19.7 |

**79164** 1993 $FE_{27}$ 8 10.2 116°.58 1°.1/ 9.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.67 | −16 20.3 | 1.642 | 2.539 | 13.5 | 19.9 |
| 7 20 | 21 40.21 | −16 58.6 | 1.591 | 2.551 | 9.5 | 19.7 |
| 7 30 | 21 31.70 | −17 43.3 | 1.562 | 2.562 | 5.1 | 19.4 |
| 8 9 | 21 22.05 | −18 28.5 | 1.560 | 2.573 | 1.2 | 19.2 |
| 8 19 | 21 12.35 | −19 8.6 | 1.585 | 2.584 | 4.6 | 19.5 |
| 8 29 | 21 3.74 | −19 39.1 | 1.636 | 2.595 | 8.9 | 19.7 |
| 9 8 | 20 57.14 | −19 57.7 | 1.711 | 2.605 | 12.7 | 20.0 |
| 9 18 | 20 53.12 | −20 4.0 | 1.807 | 2.614 | 15.8 | 20.2 |

**478983** 2012 $XB_{118}$ 8 10.2 281°.38 0°.2/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.39 | −15 21.6 | 1.896 | 2.788 | 12.2 | 21.3 |
| 7 20 | 21 38.52 | −15 31.8 | 1.825 | 2.783 | 8.7 | 21.1 |
| 7 30 | 21 30.80 | −15 47.8 | 1.779 | 2.777 | 4.7 | 20.9 |
| 8 9 | 21 21.96 | −16 6.0 | 1.758 | 2.772 | 0.5 | 20.5 |
| 8 19 | 21 12.93 | −16 22.9 | 1.765 | 2.766 | 3.8 | 20.8 |
| 8 29 | 21 4.72 | −16 34.9 | 1.799 | 2.761 | 7.9 | 21.0 |
| 9 8 | 20 58.19 | −16 40.0 | 1.857 | 2.756 | 11.6 | 21.3 |
| 9 18 | 20 53.92 | −16 37.1 | 1.937 | 2.750 | 14.7 | 21.5 |

**493601** 2015 $MO_{91}$ 8 10.2 355°.91 9°.8/18.2 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 34.40 | + 8 20.2 | 1.354 | 2.191 | 19.3 | 20.4 |
| 7 20 | 21 31.92 | + 8 40.1 | 1.286 | 2.183 | 16.4 | 20.2 |
| 7 30 | 21 27.40 | + 8 27.5 | 1.236 | 2.177 | 13.3 | 20.0 |
| 8 9 | 21 21.60 | + 7 40.8 | 1.205 | 2.172 | 10.8 | 19.9 |
| 8 19 | 21 15.50 | + 6 22.6 | 1.195 | 2.169 | 9.8 | 19.8 |
| 8 29 | 21 10.25 | + 4 40.1 | 1.208 | 2.168 | 11.1 | 19.9 |
| 9 8 | 21 6.87 | + 2 44.5 | 1.243 | 2.169 | 13.9 | 20.0 |
| 9 18 | 21 6.00 | + 0 47.1 | 1.298 | 2.171 | 17.0 | 20.3 |

**415913** 2001 $UQ_{63}$ 8 10.2 346°.72 0°.7/ 9.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 37.30 | −16 7.7 | 0.781 | 1.723 | 19.0 | 19.8 |
| 7 20 | 21 35.10 | −16 8.3 | 0.726 | 1.707 | 13.7 | 19.5 |
| 7 30 | 21 29.57 | −16 20.3 | 0.687 | 1.693 | 7.5 | 19.1 |
| 8 9 | 21 21.87 | −16 37.6 | 0.667 | 1.681 | 0.9 | 18.6 |
| 8 19 | 21 13.67 | −16 52.8 | 0.666 | 1.671 | 6.3 | 18.9 |
| 8 29 | 21 6.99 | −16 59.0 | 0.684 | 1.664 | 13.0 | 19.2 |
| 9 8 | 21 3.45 | −16 52.0 | 0.718 | 1.660 | 18.8 | 19.5 |
| 9 18 | 21 3.86 | −16 30.4 | 0.767 | 1.658 | 23.8 | 19.8 |

**285268** 1998 $QY_{57}$ 8 10.2 221°.85 3°.8/ 6.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.36 | −29 13.0 | 2.947 | 3.834 | 8.5 | 21.7 |
| 7 20 | 21 38.76 | −29 42.4 | 2.876 | 3.824 | 6.3 | 21.6 |
| 7 30 | 21 30.77 | −30 7.6 | 2.831 | 3.814 | 4.4 | 21.5 |
| 8 9 | 21 21.98 | −30 24.8 | 2.814 | 3.804 | 3.9 | 21.4 |
| 8 19 | 21 13.07 | −30 31.2 | 2.826 | 3.793 | 5.3 | 21.5 |
| 8 29 | 21 4.77 | −30 25.3 | 2.866 | 3.781 | 7.4 | 21.6 |
| 9 8 | 20 57.74 | −30 7.2 | 2.932 | 3.770 | 9.7 | 21.8 |
| 9 18 | 20 52.43 | −29 38.0 | 3.021 | 3.757 | 11.6 | 21.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **71794** 2000 $ST_{227}$ | | | 8 10.2 120°.61 | 6°.6/ 4.8 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.92 | −31 50.5 | 1.912 | 2.810 | 11.8 | 18.3 |
| 7 20 | 21 40.41 | −33 10.2 | 1.871 | 2.820 | 9.1 | 18.1 |
| 7 30 | 21 31.83 | −34 22.3 | 1.854 | 2.829 | 7.0 | 18.0 |
| 8 9 | 21 22.10 | −35 19.0 | 1.863 | 2.838 | 6.8 | 18.0 |
| 8 19 | 21 12.30 | −35 55.0 | 1.898 | 2.847 | 8.6 | 18.2 |
| 8 29 | 21 3.57 | −36 8.0 | 1.957 | 2.856 | 11.2 | 18.3 |
| 9 8 | 20 56.86 | −35 59.3 | 2.039 | 2.864 | 13.7 | 18.5 |
| 9 18 | 20 52.71 | −35 32.0 | 2.140 | 2.872 | 15.9 | 18.7 |
| **246354** 2007 $TW_{321}$ | | | 8 10.2 355°.23 | 1°.5/11.2 18 | | |
| 7 10 | 21 43.45 | −10 49.8 | 1.746 | 2.633 | 13.3 | 20.2 |
| 7 20 | 21 37.93 | −10 53.6 | 1.680 | 2.632 | 9.7 | 20.0 |
| 7 30 | 21 30.51 | −11 7.6 | 1.637 | 2.631 | 5.6 | 19.7 |
| 8 9 | 21 21.97 | −11 29.0 | 1.619 | 2.631 | 1.8 | 19.5 |
| 8 19 | 21 13.25 | −11 53.9 | 1.628 | 2.630 | 3.8 | 19.6 |
| 8 29 | 21 5.39 | −12 18.3 | 1.663 | 2.630 | 7.9 | 19.9 |
| 9 8 | 20 59.28 | −12 38.7 | 1.722 | 2.630 | 11.8 | 20.1 |
| 9 18 | 20 55.51 | −12 52.6 | 1.803 | 2.631 | 15.0 | 20.3 |
| **202642** 2006 $JS_{15}$ | | | 8 10.2 76°.85 | 2°.1/ 8.8 18 | | |
| 7 10 | 21 44.42 | −19 13.8 | 1.768 | 2.670 | 12.4 | 20.4 |
| 7 20 | 21 38.64 | −19 52.0 | 1.708 | 2.671 | 8.7 | 20.2 |
| 7 30 | 21 30.91 | −20 33.8 | 1.671 | 2.671 | 4.8 | 20.0 |
| 8 9 | 21 22.02 | −21 13.7 | 1.661 | 2.672 | 2.1 | 19.8 |
| 8 19 | 21 12.98 | −21 46.6 | 1.677 | 2.673 | 5.0 | 20.0 |
| 8 29 | 21 4.87 | −22 8.5 | 1.720 | 2.673 | 8.9 | 20.2 |
| 9 8 | 20 58.61 | −22 17.6 | 1.786 | 2.674 | 12.5 | 20.4 |
| 9 18 | 20 54.76 | −22 13.9 | 1.873 | 2.675 | 15.6 | 20.7 |
| **184681** 2005 $SB_{81}$ | | | 8 10.2 16°.02 | 4°.7/ 6.9 18 | | |
| 7 10 | 21 44.72 | −27 2.8 | 1.840 | 2.745 | 11.8 | 20.1 |
| 7 20 | 21 38.83 | −27 43.9 | 1.787 | 2.747 | 8.6 | 19.9 |
| 7 30 | 21 30.98 | −28 21.2 | 1.758 | 2.749 | 5.7 | 19.8 |
| 8 9 | 21 22.03 | −28 48.8 | 1.754 | 2.752 | 4.8 | 19.7 |
| 8 19 | 21 13.00 | −29 2.1 | 1.777 | 2.754 | 6.8 | 19.9 |
| 8 29 | 21 5.00 | −28 58.9 | 1.825 | 2.758 | 9.9 | 20.1 |
| 9 8 | 20 58.89 | −28 39.3 | 1.896 | 2.761 | 13.0 | 20.3 |
| 9 18 | 20 55.23 | −28 5.6 | 1.988 | 2.765 | 15.6 | 20.5 |
| **242884** 2006 $JS_{7}$ | | | 8 10.2 93°.13 | 0°.9/ 9.5 17 | | |
| 7 10 | 21 44.52 | −15 55.4 | 1.847 | 2.741 | 12.3 | 21.2 |
| 7 20 | 21 38.51 | −16 35.9 | 1.798 | 2.757 | 8.7 | 21.0 |
| 7 30 | 21 30.73 | −17 22.1 | 1.774 | 2.773 | 4.6 | 20.8 |
| 8 9 | 21 22.01 | −18 9.1 | 1.776 | 2.789 | 1.0 | 20.5 |
| 8 19 | 21 13.25 | −18 51.8 | 1.805 | 2.804 | 4.1 | 20.8 |
| 8 29 | 21 5.46 | −19 26.0 | 1.862 | 2.820 | 8.0 | 21.1 |
| 9 8 | 20 59.43 | −19 49.4 | 1.943 | 2.835 | 11.5 | 21.3 |
| 9 18 | 20 55.64 | −20 1.2 | 2.045 | 2.850 | 14.3 | 21.5 |
| **514500** 2016 $WE_{21}$ | | | 8 10.2 314°.67 | 0°.2/10.1 18 | | |
| 7 10 | 21 40.39 | −12 53.9 | 1.821 | 2.716 | 12.5 | 21.1 |
| 7 20 | 21 35.82 | −13 45.8 | 1.749 | 2.707 | 8.9 | 20.9 |
| 7 30 | 21 29.42 | −14 48.6 | 1.700 | 2.699 | 4.8 | 20.6 |
| 8 9 | 21 21.88 | −15 57.1 | 1.678 | 2.692 | 0.5 | 20.3 |
| 8 19 | 21 14.06 | −17 5.2 | 1.682 | 2.684 | 3.9 | 20.5 |
| 8 29 | 21 6.97 | −18 7.1 | 1.714 | 2.677 | 8.1 | 20.8 |
| 9 8 | 21 1.48 | −18 58.1 | 1.769 | 2.669 | 11.9 | 21.0 |
| 9 18 | 20 58.20 | −19 35.8 | 1.846 | 2.663 | 15.2 | 21.2 |
| **396304** 2014 $DZ_{25}$ | | | 8 10.2 21°.47 | 3°.4/ 7.6 18 | | |
| 7 10 | 21 43.38 | −22 10.8 | 1.803 | 2.709 | 12.0 | 20.5 |
| 7 20 | 21 37.93 | −23 9.1 | 1.746 | 2.709 | 8.5 | 20.3 |
| 7 30 | 21 30.54 | −24 8.9 | 1.713 | 2.710 | 5.0 | 20.1 |
| 8 9 | 21 22.00 | −25 3.7 | 1.705 | 2.711 | 3.5 | 20.0 |
| 8 19 | 21 13.29 | −25 47.6 | 1.725 | 2.712 | 5.9 | 20.1 |
| 8 29 | 21 5.50 | −26 16.5 | 1.770 | 2.713 | 9.5 | 20.3 |
| 9 8 | 20 59.53 | −26 29.1 | 1.839 | 2.714 | 12.8 | 20.5 |
| 9 18 | 20 55.94 | −26 25.9 | 1.928 | 2.715 | 15.7 | 20.8 |
| **16518** Akihikoito | | | 8 10.2 305°.72 | 0°.5/ 9.9 18 | | R |
| 7 10 | 21 42.50 | −13 16.9 | 1.237 | 2.147 | 16.0 | 16.8 |
| 7 20 | 21 38.09 | −14 6.8 | 1.165 | 2.131 | 11.5 | 16.5 |
| 7 30 | 21 30.99 | −15 12.5 | 1.114 | 2.115 | 6.3 | 16.1 |
| 8 9 | 21 22.08 | −16 26.9 | 1.086 | 2.099 | 0.7 | 15.7 |
| 8 19 | 21 12.63 | −17 41.3 | 1.082 | 2.084 | 5.3 | 16.0 |
| 8 29 | 21 4.18 | −18 46.7 | 1.101 | 2.069 | 11.0 | 16.3 |
| 9 8 | 20 58.06 | −19 36.6 | 1.142 | 2.054 | 16.0 | 16.5 |
| 9 18 | 20 55.15 | −20 8.2 | 1.200 | 2.040 | 20.3 | 16.8 |
| **463627** 2013 $TQ_{33}$ | | | 8 10.2 50°.99 | 1°.5/11.1 17 | | |
| 7 10 | 21 45.46 | −10 48.5 | 1.213 | 2.115 | 16.9 | 20.7 |
| 7 20 | 21 39.73 | −11 2.9 | 1.171 | 2.130 | 12.2 | 20.5 |
| 7 30 | 21 31.58 | −11 31.6 | 1.149 | 2.147 | 6.9 | 20.3 |
| 8 9 | 21 22.12 | −12 9.5 | 1.151 | 2.163 | 1.9 | 20.0 |
| 8 19 | 21 12.70 | −12 50.1 | 1.177 | 2.181 | 4.6 | 20.2 |
| 8 29 | 21 4.68 | −13 27.4 | 1.227 | 2.198 | 9.7 | 20.6 |
| 9 8 | 20 59.11 | −13 56.7 | 1.299 | 2.216 | 14.1 | 20.9 |
| 9 18 | 20 56.52 | −14 15.3 | 1.390 | 2.234 | 17.8 | 21.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **37021** 2000 $UB_{1}$ | | | 8 10.2 56°.09 | 6°.1/14.9 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.01 | + 1 26.5 | 1.576 | 2.426 | 16.4 | 17.8 |
| 7 20 | 21 36.99 | + 1 28.9 | 1.519 | 2.436 | 13.1 | 17.6 |
| 7 30 | 21 30.03 | + 1 8.3 | 1.482 | 2.447 | 9.5 | 17.4 |
| 8 9 | 21 21.96 | + 0 26.1 | 1.469 | 2.458 | 6.7 | 17.3 |
| 8 19 | 21 13.76 | − 0 33.7 | 1.480 | 2.469 | 6.4 | 17.3 |
| 8 29 | 21 6.51 | − 1 44.5 | 1.516 | 2.480 | 8.9 | 17.5 |
| 9 8 | 21 1.09 | − 2 58.7 | 1.576 | 2.492 | 12.2 | 17.7 |
| 9 18 | 20 58.06 | − 4 9.7 | 1.658 | 2.504 | 15.3 | 17.9 |
| **290661** 2005 $UD_{299}$ | | | 8 10.2 200°.67 | 0°.0/10.3 18 | | |
| 7 10 | 21 41.34 | −13 40.0 | 2.575 | 3.457 | 9.7 | 22.3 |
| 7 20 | 21 36.01 | −14 7.5 | 2.502 | 3.454 | 6.9 | 22.1 |
| 7 30 | 21 29.34 | −14 41.0 | 2.454 | 3.451 | 3.8 | 21.9 |
| 8 9 | 21 21.88 | −15 17.5 | 2.434 | 3.448 | 0.4 | 21.6 |
| 8 19 | 21 14.28 | −15 53.5 | 2.443 | 3.444 | 2.9 | 21.8 |
| 8 29 | 21 7.22 | −16 26.1 | 2.481 | 3.440 | 6.2 | 22.0 |
| 9 8 | 21 1.35 | −16 52.6 | 2.545 | 3.436 | 9.1 | 22.2 |
| 9 18 | 20 57.13 | −17 11.5 | 2.632 | 3.432 | 11.6 | 22.4 |
| **137971** 2000 $CQ_{39}$ | | | 8 10.3 285°.48 | 0°.9/ 9.6 18 | | |
| 7 10 | 21 43.10 | −13 45.9 | 1.498 | 2.400 | 14.2 | 19.6 |
| 7 20 | 21 38.26 | −14 47.0 | 1.416 | 2.379 | 10.2 | 19.3 |
| 7 30 | 21 31.01 | −16 2.3 | 1.357 | 2.357 | 5.5 | 19.0 |
| 8 9 | 21 22.11 | −17 25.2 | 1.322 | 2.335 | 0.9 | 18.6 |
| 8 19 | 21 12.63 | −18 47.3 | 1.313 | 2.314 | 5.0 | 18.8 |
| 8 29 | 21 3.92 | −20 0.6 | 1.330 | 2.292 | 10.1 | 19.1 |
| 9 8 | 20 57.18 | −20 58.8 | 1.369 | 2.270 | 14.7 | 19.3 |
| 9 18 | 20 53.26 | −21 39.2 | 1.428 | 2.248 | 18.6 | 19.5 |
| **100756** 1998 $FM_{5}$ | | | 8 10.3 210°.91 | 2°.9/13.0 17 | | A |
| 7 10 | 21 46.00 | − 3 3.3 | 2.650 | 3.484 | 11.0 | 21.7 |
| 7 20 | 21 39.34 | − 3 31.2 | 2.555 | 3.473 | 8.4 | 21.5 |
| 7 30 | 21 31.20 | − 4 12.2 | 2.486 | 3.461 | 5.6 | 21.3 |
| 8 9 | 21 22.11 | − 5 4.5 | 2.446 | 3.447 | 3.2 | 21.1 |
| 8 19 | 21 12.73 | − 6 4.7 | 2.436 | 3.432 | 3.6 | 21.2 |
| 8 29 | 21 3.82 | − 7 8.9 | 2.456 | 3.416 | 6.2 | 21.3 |
| 9 8 | 20 56.06 | − 8 12.4 | 2.505 | 3.398 | 9.2 | 21.5 |
| 9 18 | 20 50.00 | − 9 11.8 | 2.579 | 3.379 | 11.8 | 21.6 |
| **129747** 1999 $CZ_{133}$ | | | 8 10.3 202°.77 | 0°.1/10.3 17 | | |
| 7 10 | 21 46.35 | −12 47.0 | 1.526 | 2.420 | 14.5 | 20.6 |
| 7 20 | 21 40.31 | −13 25.5 | 1.460 | 2.417 | 10.4 | 20.3 |
| 7 30 | 21 31.97 | −14 15.6 | 1.416 | 2.414 | 5.7 | 20.0 |
| 8 9 | 21 22.20 | −15 11.9 | 1.397 | 2.411 | 0.7 | 19.7 |
| 8 19 | 21 12.14 | −16 7.8 | 1.405 | 2.407 | 4.4 | 19.9 |
| 8 29 | 21 3.08 | −16 57.0 | 1.439 | 2.403 | 9.3 | 20.2 |
| 9 8 | 20 56.09 | −17 35.2 | 1.496 | 2.399 | 13.6 | 20.5 |
| 9 18 | 20 51.86 | −18 0.3 | 1.574 | 2.393 | 17.2 | 20.7 |
| **95194** 2002 $BB_{14}$ | | | 8 10.3 45°.74 | 0°.2/10.3 18 | | |
| 7 10 | 21 50.67 | −16 26.0 | 1.583 | 2.476 | 14.1 | 18.7 |
| 7 20 | 21 43.13 | −15 57.4 | 1.523 | 2.480 | 10.1 | 18.4 |
| 7 30 | 21 33.36 | −15 32.3 | 1.486 | 2.484 | 5.5 | 18.2 |
| 8 9 | 21 22.35 | −15 8.1 | 1.475 | 2.489 | 0.7 | 17.8 |
| 8 19 | 21 11.29 | −14 42.8 | 1.491 | 2.493 | 4.2 | 18.1 |
| 8 29 | 21 1.46 | −14 15.0 | 1.534 | 2.498 | 8.8 | 18.4 |
| 9 8 | 20 53.84 | −13 44.1 | 1.601 | 2.503 | 12.9 | 18.7 |
| 9 18 | 20 49.00 | −13 9.8 | 1.690 | 2.508 | 16.3 | 18.9 |
| **12068** Khandrika | | | 8 10.3 316°.58 | 5°.0/12.9 18 | | |
| 7 10 | 21 41.55 | − 4 34.1 | 1.198 | 2.089 | 17.8 | 17.5 |
| 7 20 | 21 37.47 | − 4 20.3 | 1.121 | 2.068 | 13.8 | 17.2 |
| 7 30 | 21 30.70 | − 4 28.1 | 1.062 | 2.048 | 9.3 | 16.9 |
| 8 9 | 21 22.09 | − 4 57.0 | 1.024 | 2.029 | 5.5 | 16.6 |
| 8 19 | 21 12.85 | − 5 43.1 | 1.010 | 2.010 | 6.2 | 16.6 |
| 8 29 | 21 4.52 | − 6 39.6 | 1.018 | 1.992 | 10.7 | 16.8 |
| 9 8 | 20 58.47 | − 7 38.2 | 1.046 | 1.975 | 15.6 | 17.0 |
| 9 18 | 20 55.62 | − 8 31.6 | 1.093 | 1.959 | 20.1 | 17.3 |
| **433117** 2012 $TM_{150}$ | | | 8 10.3 25°.13 | 1°.8/ 9.3 16 | | |
| 7 10 | 21 43.75 | −18 7.8 | 1.263 | 2.179 | 15.3 | 20.1 |
| 7 20 | 21 38.55 | −18 30.9 | 1.220 | 2.189 | 10.8 | 19.9 |
| 7 30 | 21 30.96 | −18 59.2 | 1.199 | 2.200 | 5.8 | 19.7 |
| 8 9 | 21 22.08 | −19 26.5 | 1.200 | 2.213 | 1.8 | 19.4 |
| 8 19 | 21 13.21 | −19 47.1 | 1.226 | 2.226 | 5.4 | 19.7 |
| 8 29 | 21 5.70 | −19 57.0 | 1.275 | 2.240 | 10.2 | 20.0 |
| 9 8 | 21 0.57 | −19 54.3 | 1.347 | 2.255 | 14.4 | 20.3 |
| 9 18 | 20 58.34 | −19 39.3 | 1.437 | 2.270 | 17.9 | 20.6 |
| **472085** 2013 $YG_{125}$ | | | 8 10.3 86°.03 | 0°.6/ 9.9 16 | | |
| 7 10 | 21 44.73 | −15 39.2 | 1.761 | 2.657 | 12.8 | 21.5 |
| 7 20 | 21 38.84 | −16 0.5 | 1.700 | 2.660 | 9.1 | 21.3 |
| 7 30 | 21 31.03 | −16 28.1 | 1.663 | 2.662 | 4.9 | 21.0 |
| 8 9 | 21 22.10 | −16 57.7 | 1.651 | 2.665 | 0.7 | 20.7 |
| 8 19 | 21 13.04 | −17 24.7 | 1.667 | 2.668 | 4.1 | 21.0 |
| 8 29 | 21 4.91 | −17 45.2 | 1.709 | 2.670 | 8.3 | 21.3 |
| 9 8 | 20 58.60 | −17 56.9 | 1.775 | 2.673 | 12.0 | 21.5 |
| 9 18 | 20 54.67 | −17 58.7 | 1.862 | 2.676 | 15.2 | 21.7 |

**324135** 2005 $YZ_{66}$ 8 10.3 192°.50 0°.3/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.79 | −15 27.4 | 2.741 | 3.624 | 9.2 | 21.7 |
| 7 20 | 21 36.26 | −15 48.2 | 2.669 | 3.622 | 6.5 | 21.5 |
| 7 30 | 21 29.46 | −16 13.3 | 2.623 | 3.621 | 3.5 | 21.3 |
| 8 9 | 21 21.93 | −16 39.8 | 2.605 | 3.618 | 0.4 | 21.1 |
| 8 19 | 21 14.27 | −17 4.8 | 2.616 | 3.616 | 2.9 | 21.3 |
| 8 29 | 21 7.16 | −17 25.7 | 2.656 | 3.613 | 6.0 | 21.5 |
| 9 8 | 21 1.19 | −17 40.8 | 2.723 | 3.610 | 8.7 | 21.7 |
| 9 18 | 20 56.79 | −17 48.8 | 2.813 | 3.607 | 11.1 | 21.8 |

**48544** 1993 $TO_{15}$ 8 10.3 286°.18 1°.1/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.17 | −10 42.4 | 1.856 | 2.742 | 12.7 | 18.9 |
| 7 20 | 21 37.05 | −11 4.9 | 1.781 | 2.733 | 9.2 | 18.7 |
| 7 30 | 21 30.10 | −11 38.5 | 1.730 | 2.725 | 5.3 | 18.4 |
| 8 9 | 21 22.01 | −12 19.6 | 1.704 | 2.716 | 1.4 | 18.1 |
| 8 19 | 21 13.66 | −13 3.8 | 1.705 | 2.708 | 3.6 | 18.3 |
| 8 29 | 21 6.03 | −13 46.3 | 1.733 | 2.699 | 7.8 | 18.5 |
| 9 8 | 21 0.01 | −14 22.9 | 1.785 | 2.691 | 11.5 | 18.7 |
| 9 18 | 20 56.19 | −14 50.8 | 1.859 | 2.683 | 14.8 | 18.9 |

**329762** 2004 $FE_{51}$ 8 10.3 87°.03 2°.3/ 8.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.98 | −18 50.6 | 1.498 | 2.402 | 14.1 | 20.7 |
| 7 20 | 21 40.59 | −19 36.7 | 1.453 | 2.417 | 9.9 | 20.5 |
| 7 30 | 21 32.00 | −20 27.0 | 1.432 | 2.432 | 5.4 | 20.2 |
| 8 9 | 21 22.22 | −21 14.4 | 1.435 | 2.446 | 2.3 | 20.1 |
| 8 19 | 21 12.43 | −21 52.9 | 1.465 | 2.461 | 5.5 | 20.3 |
| 8 29 | 21 3.89 | −22 18.1 | 1.520 | 2.475 | 9.7 | 20.6 |
| 9 8 | 20 57.57 | −22 28.5 | 1.598 | 2.489 | 13.6 | 20.9 |
| 9 18 | 20 53.99 | −22 24.6 | 1.696 | 2.503 | 16.7 | 21.1 |

**384841** 2012 $SN_{4}$ 8 10.3 294°.36 0°.3/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.63 | −13 45.8 | 1.678 | 2.575 | 13.2 | 20.8 |
| 7 20 | 21 37.54 | −14 25.5 | 1.608 | 2.568 | 9.4 | 20.6 |
| 7 30 | 21 30.43 | −15 15.3 | 1.561 | 2.561 | 5.1 | 20.3 |
| 8 9 | 21 22.05 | −16 10.0 | 1.540 | 2.554 | 0.6 | 20.0 |
| 8 19 | 21 13.40 | −17 3.7 | 1.545 | 2.547 | 4.2 | 20.3 |
| 8 29 | 21 5.57 | −17 50.8 | 1.576 | 2.540 | 8.7 | 20.5 |
| 9 8 | 20 59.54 | −18 27.3 | 1.631 | 2.533 | 12.7 | 20.7 |
| 9 18 | 20 55.96 | −18 51.0 | 1.706 | 2.526 | 16.1 | 20.9 |

**98601** 2000 $WG_{66}$ 8 10.3 43°.92 16°.5/24.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 22 0.78 | −59 10.2 | 1.715 | 2.522 | 17.1 | 18.7 |
| 7 20 | 21 52.05 | −61 5.9 | 1.703 | 2.525 | 16.5 | 18.7 |
| 7 30 | 21 38.84 | −62 29.1 | 1.708 | 2.528 | 16.6 | 18.7 |
| 8 9 | 21 22.99 | −63 9.8 | 1.732 | 2.531 | 17.1 | 18.7 |
| 8 19 | 21 7.17 | −63 4.3 | 1.772 | 2.534 | 18.1 | 18.8 |
| 8 29 | 20 54.07 | −62 15.3 | 1.828 | 2.538 | 19.2 | 18.9 |
| 9 8 | 20 45.43 | −60 51.1 | 1.897 | 2.541 | 20.3 | 19.0 |
| 9 18 | 20 41.72 | −59 0.8 | 1.978 | 2.545 | 21.3 | 19.2 |

**117133** 2004 $PT_{64}$ 8 10.3 11°.28 1°.4/11.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.49 | −10 13.2 | 1.446 | 2.342 | 15.0 | 19.5 |
| 7 20 | 21 37.56 | −10 36.8 | 1.386 | 2.343 | 10.9 | 19.2 |
| 7 30 | 21 30.46 | −11 14.6 | 1.348 | 2.344 | 6.3 | 19.0 |
| 8 9 | 21 22.06 | −12 1.9 | 1.333 | 2.346 | 1.8 | 18.7 |
| 8 19 | 21 13.46 | −12 52.9 | 1.344 | 2.348 | 4.2 | 18.9 |
| 8 29 | 21 5.87 | −13 41.4 | 1.380 | 2.350 | 8.9 | 19.2 |
| 9 8 | 21 0.30 | −14 22.2 | 1.439 | 2.353 | 13.2 | 19.4 |
| 9 18 | 20 57.39 | −14 52.1 | 1.518 | 2.357 | 16.8 | 19.7 |

**377074** 2002 $UZ_{6}$ 8 10.3 285°.76 5°.0/ 6.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.92 | −23 31.8 | 1.499 | 2.411 | 13.6 | 20.9 |
| 7 20 | 21 39.69 | −24 55.1 | 1.424 | 2.390 | 9.9 | 20.6 |
| 7 30 | 21 31.86 | −26 22.6 | 1.372 | 2.368 | 6.3 | 20.3 |
| 8 9 | 21 22.25 | −27 44.6 | 1.345 | 2.347 | 5.1 | 20.2 |
| 8 19 | 21 12.07 | −28 51.9 | 1.344 | 2.325 | 8.1 | 20.3 |
| 8 29 | 21 2.76 | −29 37.6 | 1.367 | 2.303 | 12.2 | 20.5 |
| 9 8 | 20 55.64 | −29 59.1 | 1.410 | 2.282 | 16.2 | 20.7 |
| 9 18 | 20 51.57 | −29 57.6 | 1.472 | 2.260 | 19.7 | 20.9 |

**86469** 2000 $CV_{70}$ 8 10.3 39°.60 3°.1/11.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.36 | − 9 8.9 | 1.028 | 1.934 | 18.9 | 18.0 |
| 7 20 | 21 40.72 | − 8 53.9 | 0.985 | 1.944 | 13.9 | 17.7 |
| 7 30 | 21 32.28 | − 8 56.5 | 0.961 | 1.956 | 8.4 | 17.5 |
| 8 9 | 21 22.28 | − 9 13.4 | 0.958 | 1.968 | 3.5 | 17.2 |
| 8 19 | 21 12.26 | − 9 39.0 | 0.978 | 1.981 | 5.4 | 17.4 |
| 8 29 | 21 3.84 | −10 7.0 | 1.020 | 1.995 | 10.6 | 17.7 |
| 9 8 | 20 58.20 | −10 31.7 | 1.083 | 2.009 | 15.5 | 18.0 |
| 9 18 | 20 55.93 | −10 48.9 | 1.164 | 2.023 | 19.5 | 18.3 |

**98136** 2000 $SP_{40}$ 8 10.3 312°.77 2°.4/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.01 | −16 41.5 | 1.161 | 2.081 | 16.0 | 19.0 |
| 7 20 | 21 37.97 | −17 45.4 | 1.089 | 2.061 | 11.4 | 18.7 |
| 7 30 | 21 31.07 | −19 2.8 | 1.038 | 2.041 | 6.3 | 18.3 |
| 8 9 | 21 22.19 | −20 24.8 | 1.009 | 2.021 | 2.4 | 18.0 |
| 8 19 | 21 12.67 | −21 41.1 | 1.004 | 2.002 | 6.6 | 18.2 |
| 8 29 | 21 4.18 | −22 42.0 | 1.021 | 1.984 | 12.2 | 18.5 |
| 9 8 | 20 58.19 | −23 21.9 | 1.058 | 1.967 | 17.4 | 18.7 |
| 9 18 | 20 55.63 | −23 39.3 | 1.112 | 1.950 | 21.7 | 18.9 |

**132617** 2002 $LF_{4}$ 8 10.3 27°.86 8°.1/15.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.40 | + 3 45.1 | 1.403 | 2.250 | 18.2 | 18.7 |
| 7 20 | 21 36.74 | + 4 20.4 | 1.350 | 2.261 | 14.9 | 18.6 |
| 7 30 | 21 29.99 | + 4 29.4 | 1.317 | 2.272 | 11.5 | 18.4 |
| 8 9 | 21 22.04 | + 4 11.9 | 1.305 | 2.283 | 8.8 | 18.3 |
| 8 19 | 21 13.96 | + 3 30.5 | 1.315 | 2.296 | 8.3 | 18.3 |
| 8 29 | 21 6.92 | + 2 31.4 | 1.350 | 2.309 | 10.2 | 18.4 |
| 9 8 | 21 1.89 | + 1 23.1 | 1.407 | 2.323 | 13.3 | 18.6 |
| 9 18 | 20 59.42 | + 0 13.3 | 1.484 | 2.338 | 16.3 | 18.9 |

**23579** 1995 $EN_{5}$ 8 10.3 159°.40 2°.9/13.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.23 | − 1 40.9 | 2.878 | 3.714 | 10.1 | 20.3 |
| 7 20 | 21 34.41 | − 2 15.2 | 2.803 | 3.719 | 7.8 | 20.1 |
| 7 30 | 21 28.46 | − 3 2.2 | 2.753 | 3.724 | 5.3 | 20.0 |
| 8 9 | 21 21.86 | − 3 59.7 | 2.731 | 3.729 | 3.2 | 19.9 |
| 8 19 | 21 15.15 | − 5 4.6 | 2.738 | 3.733 | 3.3 | 19.9 |
| 8 29 | 21 8.90 | − 6 13.1 | 2.774 | 3.737 | 5.4 | 20.0 |
| 9 8 | 21 3.64 | − 7 21.0 | 2.838 | 3.740 | 7.9 | 20.2 |
| 9 18 | 20 59.78 | − 8 24.8 | 2.927 | 3.743 | 10.1 | 20.4 |

**401033** 2011 $SX_{166}$ 8 10.3 171°.45 5°.4/ 5.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.25 | −30 48.5 | 2.229 | 3.124 | 10.5 | 20.8 |
| 7 20 | 21 39.07 | −31 44.6 | 2.176 | 3.126 | 7.9 | 20.6 |
| 7 30 | 21 31.12 | −32 35.0 | 2.147 | 3.126 | 5.9 | 20.5 |
| 8 9 | 21 22.17 | −33 13.7 | 2.145 | 3.127 | 5.6 | 20.5 |
| 8 19 | 21 13.11 | −33 36.5 | 2.170 | 3.128 | 7.2 | 20.6 |
| 8 29 | 21 4.90 | −33 41.3 | 2.221 | 3.128 | 9.6 | 20.7 |
| 9 8 | 20 58.37 | −33 28.6 | 2.295 | 3.129 | 12.1 | 20.9 |
| 9 18 | 20 54.04 | −33 0.5 | 2.389 | 3.129 | 14.3 | 21.1 |

**320439** 2007 $VO_{145}$ 8 10.3 322°.21 4°.3/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.83 | − 7 40.3 | 1.162 | 2.059 | 17.8 | 20.3 |
| 7 20 | 21 39.82 | − 7 5.5 | 1.092 | 2.045 | 13.5 | 20.0 |
| 7 30 | 21 32.00 | − 6 46.8 | 1.041 | 2.032 | 8.7 | 19.7 |
| 8 9 | 21 22.31 | − 6 43.5 | 1.012 | 2.019 | 4.6 | 19.5 |
| 8 19 | 21 12.11 | − 6 53.0 | 1.006 | 2.007 | 5.9 | 19.5 |
| 8 29 | 21 3.01 | − 7 10.5 | 1.023 | 1.996 | 10.8 | 19.7 |
| 9 8 | 20 56.40 | − 7 30.4 | 1.060 | 1.985 | 15.8 | 20.0 |
| 9 18 | 20 53.12 | − 7 47.7 | 1.115 | 1.976 | 20.1 | 20.2 |

**449408** 2013 $HS_{8}$ 8 10.3 20°.62 0°.8/11.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.11 | − 9 51.0 | 2.057 | 2.941 | 11.7 | 20.3 |
| 7 20 | 21 34.70 | −10 41.9 | 1.992 | 2.944 | 8.5 | 20.1 |
| 7 30 | 21 28.76 | −11 44.3 | 1.951 | 2.947 | 4.8 | 19.9 |
| 8 9 | 21 21.92 | −12 53.9 | 1.937 | 2.950 | 1.1 | 19.7 |
| 8 19 | 21 14.91 | −14 5.4 | 1.950 | 2.953 | 3.3 | 19.8 |
| 8 29 | 21 8.57 | −15 13.4 | 1.991 | 2.957 | 7.0 | 20.1 |
| 9 8 | 21 3.62 | −16 13.3 | 2.058 | 2.961 | 10.4 | 20.3 |
| 9 18 | 21 0.57 | −17 2.2 | 2.147 | 2.965 | 13.3 | 20.5 |

**388671** 2007 $TP_{399}$ 8 10.3 287°.53 2°.8/ 8.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.93 | −21 35.9 | 1.837 | 2.739 | 12.0 | 20.8 |
| 7 20 | 21 39.09 | −22 9.0 | 1.769 | 2.731 | 8.5 | 20.6 |
| 7 30 | 21 31.25 | −22 43.6 | 1.726 | 2.724 | 4.9 | 20.4 |
| 8 9 | 21 22.22 | −23 14.2 | 1.708 | 2.717 | 2.8 | 20.2 |
| 8 19 | 21 12.96 | −23 36.0 | 1.718 | 2.709 | 5.4 | 20.4 |
| 8 29 | 21 4.59 | −23 45.7 | 1.753 | 2.702 | 9.1 | 20.6 |
| 9 8 | 20 58.02 | −23 42.0 | 1.812 | 2.695 | 12.6 | 20.8 |
| 9 18 | 20 53.87 | −23 25.5 | 1.892 | 2.688 | 15.6 | 21.0 |

**474635** 2004 $VN_{29}$ 8 10.3 273°.04 3°.0/ 8.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.17 | −21 1.2 | 1.849 | 2.750 | 12.0 | 22.4 |
| 7 20 | 21 39.44 | −21 53.4 | 1.766 | 2.728 | 8.6 | 22.1 |
| 7 30 | 21 31.57 | −22 49.6 | 1.707 | 2.706 | 5.0 | 21.8 |
| 8 9 | 21 22.28 | −23 43.4 | 1.675 | 2.683 | 3.0 | 21.7 |
| 8 19 | 21 12.53 | −24 28.7 | 1.670 | 2.660 | 5.7 | 21.8 |
| 8 29 | 21 3.49 | −25 0.4 | 1.691 | 2.636 | 9.6 | 22.0 |
| 9 8 | 20 56.21 | −25 16.3 | 1.735 | 2.612 | 13.4 | 22.2 |
| 9 18 | 20 51.41 | −25 16.3 | 1.800 | 2.588 | 16.6 | 22.3 |

**247438** 2002 $EF_{23}$ 8 10.3 36°.74 2°.3/ 8.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.54 | −21 26.7 | 2.027 | 2.926 | 11.2 | 20.1 |
| 7 20 | 21 38.54 | −21 46.6 | 1.969 | 2.929 | 7.9 | 19.9 |
| 7 30 | 21 30.84 | −22 6.9 | 1.935 | 2.933 | 4.5 | 19.7 |
| 8 9 | 21 22.17 | −22 23.6 | 1.928 | 2.937 | 2.3 | 19.5 |
| 8 19 | 21 13.44 | −22 32.8 | 1.948 | 2.941 | 4.7 | 19.7 |
| 8 29 | 21 5.58 | −22 32.4 | 1.995 | 2.945 | 8.1 | 19.9 |
| 9 8 | 20 59.38 | −22 21.6 | 2.067 | 2.949 | 11.3 | 20.1 |
| 9 18 | 20 55.34 | −22 0.7 | 2.160 | 2.954 | 14.0 | 20.3 |

**140302** 2001 $SQ_{312}$ 8 10.3 254°.11 0°.7/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.12 | −11 30.9 | 2.034 | 2.918 | 11.8 | 20.6 |
| 7 20 | 21 36.89 | −11 55.6 | 1.962 | 2.914 | 8.5 | 20.4 |
| 7 30 | 21 29.99 | −12 29.7 | 1.914 | 2.910 | 4.8 | 20.1 |
| 8 9 | 21 22.08 | −13 9.7 | 1.893 | 2.905 | 1.1 | 19.9 |
| 8 19 | 21 13.97 | −13 51.5 | 1.898 | 2.901 | 3.4 | 20.0 |
| 8 29 | 21 6.55 | −14 30.8 | 1.932 | 2.897 | 7.2 | 20.3 |
| 9 8 | 21 0.61 | −15 4.0 | 1.990 | 2.892 | 10.7 | 20.5 |
| 9 18 | 20 56.69 | −15 28.9 | 2.071 | 2.887 | 13.7 | 20.7 |

**221892** 2008 $JY_{17}$ 8 10.3 42°.84 5°.6/15.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 38.92 | + 4 5.1 | 2.130 | 2.953 | 13.7 | 20.3 |
| 7 20 | 21 34.51 | + 3 50.0 | 2.061 | 2.958 | 11.1 | 20.1 |
| 7 30 | 21 28.64 | + 3 14.7 | 2.013 | 2.964 | 8.4 | 20.0 |
| 8 9 | 21 21.93 | + 2 20.5 | 1.989 | 2.969 | 6.1 | 19.8 |
| 8 19 | 21 15.06 | + 1 10.7 | 1.992 | 2.975 | 5.7 | 19.8 |
| 8 29 | 21 8.83 | − 0 9.4 | 2.022 | 2.981 | 7.4 | 19.9 |
| 9 8 | 21 3.92 | − 1 33.5 | 2.078 | 2.987 | 10.0 | 20.1 |
| 9 18 | 21 0.81 | − 2 55.8 | 2.157 | 2.993 | 12.6 | 20.3 |

**512173** 2015 $RT_{100}$ 8 10.3 323°.14 0°.6/10.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.78 | −13 33.2 | 1.968 | 2.856 | 12.0 | 20.6 |
| 7 20 | 21 38.10 | −13 28.5 | 1.895 | 2.849 | 8.6 | 20.4 |
| 7 30 | 21 30.66 | −13 30.3 | 1.846 | 2.842 | 4.8 | 20.1 |
| 8 9 | 21 22.17 | −13 36.0 | 1.823 | 2.836 | 1.0 | 19.8 |
| 8 19 | 21 13.48 | −13 42.7 | 1.827 | 2.830 | 3.5 | 20.0 |
| 8 29 | 21 5.56 | −13 47.5 | 1.859 | 2.824 | 7.5 | 20.2 |
| 9 8 | 20 59.22 | −13 48.4 | 1.915 | 2.818 | 11.0 | 20.4 |
| 9 18 | 20 55.02 | −13 43.7 | 1.994 | 2.813 | 14.1 | 20.6 |

**224754** 2006 $DN_{149}$ 8 10.3 249°.98 1°.6/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.94 | − 8 22.6 | 2.564 | 3.432 | 10.2 | 20.9 |
| 7 20 | 21 35.10 | − 8 43.4 | 2.483 | 3.424 | 7.5 | 20.7 |
| 7 30 | 21 28.94 | − 9 13.7 | 2.426 | 3.415 | 4.6 | 20.5 |
| 8 9 | 21 21.97 | − 9 51.3 | 2.396 | 3.406 | 1.8 | 20.3 |
| 8 19 | 21 14.81 | −10 33.0 | 2.395 | 3.397 | 2.9 | 20.4 |
| 8 29 | 21 8.15 | −11 15.3 | 2.423 | 3.388 | 5.9 | 20.5 |
| 9 8 | 21 2.61 | −11 55.0 | 2.476 | 3.378 | 8.9 | 20.7 |
| 9 18 | 20 58.65 | −12 29.3 | 2.554 | 3.369 | 11.5 | 20.9 |

**85030** Admetos 8 10.3 275°.21 4°.0/17.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 33.87 | + 7 43.3 | 4.488 | 5.258 | 7.8 | 19.5 |
| 7 20 | 21 30.39 | + 7 35.9 | 4.398 | 5.252 | 6.6 | 19.4 |
| 7 30 | 21 26.22 | + 7 17.5 | 4.330 | 5.245 | 5.3 | 19.3 |
| 8 9 | 21 21.66 | + 6 48.7 | 4.289 | 5.239 | 4.3 | 19.2 |
| 8 19 | 21 17.00 | + 6 10.6 | 4.275 | 5.233 | 4.0 | 19.2 |
| 8 29 | 21 12.60 | + 5 24.8 | 4.290 | 5.226 | 4.6 | 19.3 |
| 9 8 | 21 8.78 | + 4 33.9 | 4.332 | 5.220 | 5.7 | 19.3 |
| 9 18 | 21 5.79 | + 3 40.4 | 4.399 | 5.213 | 7.1 | 19.4 |

**368560** 2004 $BF_{57}$ 8 10.3 243°.59 2°.9/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.04 | − 6 52.2 | 1.771 | 2.641 | 14.0 | 21.3 |
| 7 20 | 21 39.99 | − 6 54.7 | 1.687 | 2.627 | 10.5 | 21.1 |
| 7 30 | 21 31.85 | − 7 11.3 | 1.626 | 2.612 | 6.7 | 20.8 |
| 8 9 | 21 22.33 | − 7 39.8 | 1.590 | 2.597 | 3.2 | 20.6 |
| 8 19 | 21 12.40 | − 8 16.8 | 1.580 | 2.581 | 4.3 | 20.6 |
| 8 29 | 21 3.19 | − 8 57.4 | 1.598 | 2.564 | 8.3 | 20.8 |
| 9 8 | 20 55.70 | − 9 36.8 | 1.641 | 2.547 | 12.3 | 21.0 |
| 9 18 | 20 50.65 | −10 11.1 | 1.705 | 2.530 | 15.9 | 21.2 |

**442554** 2011 $YW_{78}$ 8 10.3 224°.02 1°.4/ 9.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.55 | −19 29.1 | 2.417 | 3.307 | 10.0 | 21.4 |
| 7 20 | 21 38.39 | −19 41.3 | 2.345 | 3.302 | 7.1 | 21.2 |
| 7 30 | 21 30.72 | −19 55.2 | 2.299 | 3.298 | 3.9 | 21.0 |
| 8 9 | 21 22.18 | −20 7.3 | 2.281 | 3.293 | 1.4 | 20.8 |
| 8 19 | 21 13.51 | −20 14.8 | 2.292 | 3.288 | 3.7 | 20.9 |
| 8 29 | 21 5.52 | −20 15.5 | 2.330 | 3.283 | 7.0 | 21.1 |
| 9 8 | 20 58.91 | −20 8.4 | 2.395 | 3.278 | 10.0 | 21.3 |
| 9 18 | 20 54.17 | −19 53.4 | 2.482 | 3.272 | 12.5 | 21.5 |

**214072** 2004 $GW_{31}$ 8 10.3 147°.86 3°.2/13.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.07 | − 3 26.2 | 2.405 | 3.252 | 11.5 | 20.8 |
| 7 20 | 21 36.57 | − 3 34.9 | 2.336 | 3.260 | 8.8 | 20.6 |
| 7 30 | 21 29.71 | − 3 56.4 | 2.291 | 3.267 | 5.9 | 20.4 |
| 8 9 | 21 22.07 | − 4 28.8 | 2.273 | 3.273 | 3.5 | 20.3 |
| 8 19 | 21 14.30 | − 5 9.3 | 2.284 | 3.279 | 3.8 | 20.3 |
| 8 29 | 21 7.15 | − 5 54.2 | 2.322 | 3.285 | 6.3 | 20.5 |
| 9 8 | 21 1.25 | − 6 39.6 | 2.387 | 3.291 | 9.1 | 20.7 |
| 9 18 | 20 57.06 | − 7 22.0 | 2.476 | 3.296 | 11.7 | 20.9 |

**334031** 2000 $YB_{28}$ 8 10.3 306°.83 4°.9/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.50 | − 0 49.4 | 1.527 | 2.391 | 16.1 | 20.7 |
| 7 20 | 21 36.51 | − 1 14.2 | 1.423 | 2.354 | 12.8 | 20.4 |
| 7 30 | 21 30.20 | − 2 5.2 | 1.339 | 2.316 | 9.0 | 20.1 |
| 8 9 | 21 22.17 | − 3 21.8 | 1.279 | 2.279 | 5.6 | 19.8 |
| 8 19 | 21 13.35 | − 4 59.7 | 1.243 | 2.241 | 5.7 | 19.7 |
| 8 29 | 21 4.99 | − 6 50.8 | 1.232 | 2.204 | 9.6 | 19.8 |
| 9 8 | 20 58.34 | − 8 45.0 | 1.245 | 2.167 | 14.2 | 20.0 |
| 9 18 | 20 54.38 | −10 32.7 | 1.279 | 2.130 | 18.6 | 20.1 |

**292331** 2006 $SQ_{183}$ 8 10.3 67°.29 1°.2/ 9.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.95 | −16 8.9 | 1.320 | 2.227 | 15.4 | 20.4 |
| 7 20 | 21 40.76 | −16 43.7 | 1.278 | 2.242 | 10.9 | 20.2 |
| 7 30 | 21 32.19 | −17 26.0 | 1.257 | 2.258 | 5.8 | 19.9 |
| 8 9 | 21 22.35 | −18 9.1 | 1.261 | 2.274 | 1.2 | 19.7 |
| 8 19 | 21 12.53 | −18 46.5 | 1.289 | 2.290 | 5.1 | 20.0 |
| 8 29 | 21 4.10 | −19 13.4 | 1.342 | 2.306 | 9.9 | 20.3 |
| 9 8 | 20 58.05 | −19 27.2 | 1.418 | 2.322 | 14.1 | 20.6 |
| 9 18 | 20 54.94 | −19 27.7 | 1.513 | 2.338 | 17.6 | 20.9 |

**324966** 2008 $AM_{7}$ 8 10.3 170°.56 0°.7/ 9.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.73 | −14 57.8 | 1.785 | 2.675 | 12.9 | 22.0 |
| 7 20 | 21 40.32 | −15 39.4 | 1.722 | 2.679 | 9.1 | 21.7 |
| 7 30 | 21 31.92 | −16 28.7 | 1.683 | 2.682 | 4.9 | 21.5 |
| 8 9 | 21 22.33 | −17 20.5 | 1.671 | 2.684 | 0.8 | 21.2 |
| 8 19 | 21 12.56 | −18 9.0 | 1.686 | 2.686 | 4.2 | 21.5 |
| 8 29 | 21 3.71 | −18 49.4 | 1.729 | 2.687 | 8.5 | 21.7 |
| 9 8 | 20 56.70 | −19 18.7 | 1.796 | 2.688 | 12.2 | 22.0 |
| 9 18 | 20 52.13 | −19 35.7 | 1.884 | 2.688 | 15.4 | 22.2 |

**519095** 2010 $LV_{89}$ 8 10.3 350°.00 0°.6/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.66 | −16 26.2 | 1.847 | 2.743 | 12.2 | 21.2 |
| 7 20 | 21 38.09 | −16 35.8 | 1.781 | 2.741 | 8.7 | 20.9 |
| 7 30 | 21 30.68 | −16 50.5 | 1.739 | 2.738 | 4.7 | 20.7 |
| 8 9 | 21 22.20 | −17 6.4 | 1.723 | 2.737 | 0.7 | 20.4 |
| 8 19 | 21 13.55 | −17 19.8 | 1.734 | 2.735 | 3.9 | 20.6 |
| 8 29 | 21 5.76 | −17 27.7 | 1.772 | 2.734 | 8.0 | 20.9 |
| 9 8 | 20 59.69 | −17 28.0 | 1.833 | 2.733 | 11.6 | 21.1 |
| 9 18 | 20 55.87 | −17 20.0 | 1.916 | 2.732 | 14.7 | 21.3 |

**92153** 1999 $XM_{133}$ 8 10.3 300°.82 2°.2/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.01 | −10 0.4 | 2.109 | 2.982 | 11.9 | 19.1 |
| 7 20 | 21 38.98 | − 9 33.3 | 2.021 | 2.964 | 8.9 | 18.9 |
| 7 30 | 21 31.18 | − 9 13.7 | 1.957 | 2.946 | 5.4 | 18.6 |
| 8 9 | 21 22.27 | − 9 0.3 | 1.919 | 2.928 | 2.4 | 18.4 |
| 8 19 | 21 13.05 | − 8 51.8 | 1.909 | 2.910 | 3.7 | 18.5 |
| 8 29 | 21 4.46 | − 8 45.9 | 1.928 | 2.892 | 7.3 | 18.7 |
| 9 8 | 20 57.32 | − 8 40.7 | 1.972 | 2.875 | 10.8 | 18.8 |
| 9 18 | 20 52.25 | − 8 34.0 | 2.038 | 2.857 | 13.9 | 19.0 |

**372884** 2010 $XD_{84}$ 8 10.3 296°.93 3°.7/12.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.88 | − 5 35.5 | 1.375 | 2.259 | 16.4 | 21.3 |
| 7 20 | 21 38.19 | − 5 43.8 | 1.296 | 2.242 | 12.5 | 21.1 |
| 7 30 | 21 31.06 | − 6 12.0 | 1.238 | 2.226 | 8.1 | 20.8 |
| 8 9 | 21 22.28 | − 6 57.9 | 1.203 | 2.210 | 4.1 | 20.5 |
| 8 19 | 21 12.98 | − 7 56.5 | 1.192 | 2.194 | 5.1 | 20.5 |
| 8 29 | 21 4.52 | − 9 0.8 | 1.206 | 2.178 | 9.7 | 20.7 |
| 9 8 | 20 58.13 | −10 3.0 | 1.242 | 2.162 | 14.3 | 21.0 |
| 9 18 | 20 54.63 | −10 57.3 | 1.297 | 2.147 | 18.5 | 21.2 |

**36657** 2000 $QY_{202}$ 8 10.3 327°.51 1°.9/ 9.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.41 | −17 14.4 | 1.397 | 2.309 | 14.4 | 18.4 |
| 7 20 | 21 37.79 | −18 2.2 | 1.331 | 2.298 | 10.2 | 18.1 |
| 7 30 | 21 30.77 | −18 58.6 | 1.287 | 2.288 | 5.5 | 17.8 |
| 8 9 | 21 22.23 | −19 56.5 | 1.267 | 2.279 | 1.9 | 17.5 |
| 8 19 | 21 13.35 | −20 48.6 | 1.272 | 2.270 | 5.6 | 17.8 |
| 8 29 | 21 5.47 | −21 28.4 | 1.301 | 2.262 | 10.4 | 18.0 |
| 9 8 | 20 59.73 | −21 52.4 | 1.352 | 2.254 | 14.7 | 18.2 |
| 9 18 | 20 56.86 | −21 59.7 | 1.422 | 2.247 | 18.4 | 18.5 |

**243455** 2009 $JJ_{2}$ 8 10.3 28°.55 5°.7/ 6.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.59 | −29 12.4 | 1.710 | 2.616 | 12.5 | 19.8 |
| 7 20 | 21 39.60 | −29 58.9 | 1.665 | 2.623 | 9.3 | 19.6 |
| 7 30 | 21 31.52 | −30 39.3 | 1.643 | 2.630 | 6.6 | 19.5 |
| 8 9 | 21 22.30 | −31 6.8 | 1.647 | 2.638 | 5.8 | 19.5 |
| 8 19 | 21 13.07 | −31 16.9 | 1.675 | 2.646 | 7.8 | 19.6 |
| 8 29 | 21 5.01 | −31 7.5 | 1.729 | 2.655 | 10.8 | 19.8 |
| 9 8 | 20 59.03 | −30 39.9 | 1.804 | 2.664 | 13.8 | 20.0 |
| 9 18 | 20 55.66 | −29 57.0 | 1.899 | 2.673 | 16.3 | 20.2 |

**474402** 2002 $UG_{22}$ 8 10.3 302°.11 5°.6/ 5.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.41 | −27 28.7 | 1.740 | 2.648 | 12.3 | 21.0 |
| 7 20 | 21 39.10 | −28 35.2 | 1.664 | 2.624 | 9.1 | 20.7 |
| 7 30 | 21 31.48 | −29 40.5 | 1.611 | 2.600 | 6.4 | 20.5 |
| 8 9 | 21 22.32 | −30 36.4 | 1.583 | 2.577 | 5.8 | 20.4 |
| 8 19 | 21 12.71 | −31 15.9 | 1.581 | 2.553 | 8.1 | 20.5 |
| 8 29 | 21 3.92 | −31 34.5 | 1.604 | 2.530 | 11.5 | 20.6 |
| 9 8 | 20 57.08 | −31 31.4 | 1.648 | 2.507 | 14.9 | 20.8 |
| 9 18 | 20 52.95 | −31 8.2 | 1.712 | 2.484 | 17.9 | 21.0 |

**179728** 2002 $RG_{95}$ 8 10.3 295°.20 3°.6/12.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.10 | − 4 43.8 | 1.445 | 2.325 | 16.0 | 19.8 |
| 7 20 | 21 37.52 | − 5 3.8 | 1.367 | 2.311 | 12.2 | 19.5 |
| 7 30 | 21 30.64 | − 5 44.8 | 1.310 | 2.297 | 7.9 | 19.3 |
| 8 9 | 21 22.24 | − 6 43.9 | 1.277 | 2.283 | 4.1 | 19.0 |
| 8 19 | 21 13.38 | − 7 55.8 | 1.268 | 2.270 | 4.9 | 19.0 |
| 8 29 | 21 5.33 | − 9 12.7 | 1.284 | 2.256 | 9.2 | 19.2 |
| 9 8 | 20 59.24 | −10 26.8 | 1.323 | 2.243 | 13.7 | 19.5 |
| 9 18 | 20 55.88 | −11 31.7 | 1.383 | 2.230 | 17.7 | 19.7 |

**51516** 2001 $FG_{101}$ 8 10.3 21°.77 4°.7/11.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.44 | −10 19.4 | 0.889 | 1.804 | 20.2 | 16.6 |
| 7 20 | 21 41.63 | − 8 54.2 | 0.854 | 1.817 | 15.0 | 16.4 |
| 7 30 | 21 32.82 | − 7 44.5 | 0.837 | 1.831 | 9.4 | 16.2 |
| 8 9 | 21 22.46 | − 6 51.1 | 0.840 | 1.848 | 5.0 | 16.0 |
| 8 19 | 21 12.28 | − 6 13.7 | 0.865 | 1.867 | 6.5 | 16.1 |
| 8 29 | 21 4.00 | − 5 49.2 | 0.911 | 1.887 | 11.4 | 16.5 |
| 9 8 | 20 58.79 | − 5 33.1 | 0.977 | 1.908 | 16.2 | 16.8 |
| 9 18 | 20 57.13 | − 5 20.6 | 1.060 | 1.931 | 20.1 | 17.2 |

**344729** 2003 $UQ_{125}$ 8 10.3 296°.39 0°.6/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.53 | −13 45.4 | 1.707 | 2.605 | 13.0 | 20.5 |
| 7 20 | 21 36.87 | −14 41.6 | 1.631 | 2.591 | 9.3 | 20.2 |
| 7 30 | 21 30.19 | −15 49.2 | 1.577 | 2.577 | 5.0 | 20.0 |
| 8 9 | 21 22.19 | −17 2.6 | 1.550 | 2.563 | 0.7 | 19.6 |
| 8 19 | 21 13.82 | −18 14.9 | 1.549 | 2.549 | 4.4 | 19.9 |
| 8 29 | 21 6.18 | −19 19.5 | 1.574 | 2.536 | 8.8 | 20.1 |
| 9 8 | 21 0.26 | −20 11.5 | 1.623 | 2.522 | 12.9 | 20.3 |
| 9 18 | 20 56.75 | −20 48.4 | 1.692 | 2.509 | 16.3 | 20.5 |

**154241** 2002 $JD_{146}$ 8 10.3 50°.06 2°.8/13.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.93 | − 3 3.9 | 2.183 | 3.039 | 12.2 | 19.4 |
| 7 20 | 21 34.52 | − 3 49.5 | 2.115 | 3.045 | 9.3 | 19.3 |
| 7 30 | 21 28.68 | − 4 50.9 | 2.071 | 3.051 | 6.1 | 19.1 |
| 8 9 | 21 22.00 | − 6 5.0 | 2.053 | 3.057 | 3.3 | 18.9 |
| 8 19 | 21 15.18 | − 7 26.9 | 2.063 | 3.063 | 3.6 | 18.9 |
| 8 29 | 21 8.98 | − 8 50.9 | 2.101 | 3.069 | 6.5 | 19.1 |
| 9 8 | 21 4.07 | −10 11.4 | 2.165 | 3.075 | 9.6 | 19.3 |
| 9 18 | 21 0.92 | −11 24.0 | 2.254 | 3.082 | 12.4 | 19.5 |

**478761** 2012 $UJ_{108}$ 8 10.3 295°.68 6°.4/ 5.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.78 | −29 53.4 | 1.681 | 2.585 | 12.8 | 20.7 |
| 7 20 | 21 40.76 | −30 52.1 | 1.616 | 2.573 | 9.7 | 20.5 |
| 7 30 | 21 32.35 | −31 45.6 | 1.575 | 2.560 | 7.1 | 20.3 |
| 8 9 | 21 22.44 | −32 25.7 | 1.559 | 2.547 | 6.5 | 20.3 |
| 8 19 | 21 12.24 | −32 46.3 | 1.568 | 2.534 | 8.7 | 20.4 |
| 8 29 | 21 3.09 | −32 44.2 | 1.601 | 2.522 | 11.9 | 20.5 |
| 9 8 | 20 56.10 | −32 20.2 | 1.656 | 2.509 | 15.1 | 20.7 |
| 9 18 | 20 51.97 | −31 37.4 | 1.729 | 2.497 | 17.9 | 20.9 |

**378606** 2008 $EN_{154}$ 8 10.3 38°.20 6°.1/ 6.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.94 | −26 14.1 | 1.269 | 2.188 | 15.0 | 20.5 |
| 7 20 | 21 40.33 | −27 25.2 | 1.231 | 2.197 | 10.9 | 20.2 |
| 7 30 | 21 32.09 | −28 32.6 | 1.214 | 2.207 | 7.3 | 20.1 |
| 8 9 | 21 22.40 | −29 26.5 | 1.220 | 2.218 | 6.2 | 20.0 |
| 8 19 | 21 12.69 | −29 59.6 | 1.250 | 2.229 | 8.8 | 20.2 |
| 8 29 | 21 4.47 | −30 8.5 | 1.303 | 2.241 | 12.6 | 20.5 |
| 9 8 | 20 58.84 | −29 54.2 | 1.376 | 2.253 | 16.2 | 20.7 |
| 9 18 | 20 56.37 | −29 20.3 | 1.467 | 2.266 | 19.3 | 21.0 |

**54439** Topeka 8 10.3 53°.23 3°.5/13.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.18 | − 1 28.3 | 1.390 | 2.261 | 17.0 | 17.9 |
| 7 20 | 21 36.59 | − 2 44.4 | 1.343 | 2.281 | 12.9 | 17.7 |
| 7 30 | 21 29.95 | − 4 26.0 | 1.316 | 2.300 | 8.3 | 17.5 |
| 8 9 | 21 22.15 | − 6 26.4 | 1.314 | 2.320 | 4.2 | 17.3 |
| 8 19 | 21 14.29 | − 8 35.4 | 1.338 | 2.340 | 4.5 | 17.4 |
| 8 29 | 21 7.51 | −10 42.1 | 1.388 | 2.361 | 8.6 | 17.7 |
| 9 8 | 21 2.73 | −12 36.8 | 1.462 | 2.381 | 12.7 | 18.0 |
| 9 18 | 21 0.49 | −14 13.5 | 1.558 | 2.402 | 16.2 | 18.2 |

**474123** 1995 $BL_{14}$ 8 10.3 260°.79 0°.8/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.11 | −12 11.8 | 2.226 | 3.103 | 11.2 | 22.2 |
| 7 20 | 21 39.06 | −12 20.4 | 2.133 | 3.081 | 8.2 | 22.0 |
| 7 30 | 21 31.26 | −12 36.6 | 2.064 | 3.058 | 4.7 | 21.7 |
| 8 9 | 21 22.33 | −12 57.7 | 2.022 | 3.035 | 1.1 | 21.4 |
| 8 19 | 21 13.02 | −13 20.5 | 2.009 | 3.011 | 3.3 | 21.5 |
| 8 29 | 21 4.26 | −13 41.9 | 2.024 | 2.986 | 7.1 | 21.7 |
| 9 8 | 20 56.88 | −13 59.0 | 2.065 | 2.961 | 10.7 | 21.9 |
| 9 18 | 20 51.49 | −14 9.8 | 2.129 | 2.936 | 13.8 | 22.1 |

**247400** 2002 $AL_{205}$ 8 10.3 327°.39 5°.6/ 3.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.67 | −30 51.7 | 2.368 | 3.268 | 9.7 | 19.7 |
| 7 20 | 21 35.92 | −32 18.7 | 2.311 | 3.262 | 7.5 | 19.5 |
| 7 30 | 21 29.53 | −33 41.6 | 2.279 | 3.255 | 5.9 | 19.4 |
| 8 9 | 21 22.12 | −34 54.0 | 2.274 | 3.249 | 5.9 | 19.4 |
| 8 19 | 21 14.47 | −35 50.5 | 2.295 | 3.242 | 7.5 | 19.5 |
| 8 29 | 21 7.47 | −36 27.9 | 2.343 | 3.237 | 9.8 | 19.6 |
| 9 8 | 21 1.90 | −36 45.6 | 2.412 | 3.231 | 12.1 | 19.8 |
| 9 18 | 20 58.32 | −36 44.9 | 2.502 | 3.226 | 14.1 | 19.9 |

**187992** 2001 $SA_{42}$ 8 10.3 352°.34 2°.1/ 9.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.74 | −18 16.0 | 1.028 | 1.957 | 16.8 | 19.7 |
| 7 20 | 21 37.09 | −18 37.3 | 0.973 | 1.948 | 11.9 | 19.4 |
| 7 30 | 21 30.57 | −19 5.8 | 0.937 | 1.940 | 6.5 | 19.1 |
| 8 9 | 21 22.26 | −19 34.4 | 0.922 | 1.934 | 2.1 | 18.8 |
| 8 19 | 21 13.66 | −19 56.0 | 0.929 | 1.930 | 6.2 | 19.1 |
| 8 29 | 21 6.42 | −20 4.9 | 0.957 | 1.928 | 11.8 | 19.3 |
| 9 8 | 21 1.87 | −19 58.5 | 1.005 | 1.927 | 16.8 | 19.6 |
| 9 18 | 21 0.71 | −19 36.8 | 1.069 | 1.928 | 21.0 | 19.9 |

**100026** 1990 $ST_{9}$ 8 10.3 359°.21 3°.2/ 8.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.43 | −19 47.1 | 1.054 | 1.982 | 16.5 | 18.2 |
| 7 20 | 21 37.50 | −20 29.0 | 1.004 | 1.978 | 11.7 | 17.9 |
| 7 30 | 21 30.75 | −21 16.7 | 0.973 | 1.976 | 6.5 | 17.6 |
| 8 9 | 21 22.28 | −22 1.5 | 0.964 | 1.975 | 3.2 | 17.4 |
| 8 19 | 21 13.59 | −22 35.2 | 0.977 | 1.975 | 7.0 | 17.6 |
| 8 29 | 21 6.31 | −22 51.9 | 1.012 | 1.977 | 12.1 | 17.9 |
| 9 8 | 21 1.71 | −22 49.5 | 1.066 | 1.980 | 16.8 | 18.2 |
| 9 18 | 21 0.46 | −22 29.0 | 1.138 | 1.984 | 20.8 | 18.5 |

**428780** 2008 $SA_{232}$ 8 10.3 28°.71 2°.6/ 9.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 48.11 | −21 22.8 | 1.267 | 2.180 | 15.4 | 20.2 |
| 7 20 | 21 41.71 | −21 25.3 | 1.223 | 2.190 | 10.9 | 19.9 |
| 7 30 | 21 32.77 | −21 28.1 | 1.200 | 2.200 | 6.1 | 19.7 |
| 8 9 | 21 22.50 | −21 25.7 | 1.201 | 2.212 | 2.6 | 19.5 |
| 8 19 | 21 12.30 | −21 14.1 | 1.226 | 2.224 | 5.9 | 19.7 |
| 8 29 | 21 3.62 | −20 51.4 | 1.275 | 2.237 | 10.5 | 20.0 |
| 9 8 | 20 57.52 | −20 17.7 | 1.347 | 2.250 | 14.7 | 20.3 |
| 9 18 | 20 54.52 | −19 34.9 | 1.437 | 2.264 | 18.2 | 20.6 |

**120796** 1998 $FF_{58}$ 8 10.3 213°.03 0°.6/10.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.71 | −11 42.1 | 2.301 | 3.175 | 11.0 | 21.1 |
| 7 20 | 21 38.65 | −12 9.3 | 2.220 | 3.167 | 7.9 | 20.9 |
| 7 30 | 21 30.98 | −12 44.9 | 2.164 | 3.158 | 4.5 | 20.7 |
| 8 9 | 21 22.31 | −13 25.7 | 2.135 | 3.148 | 0.9 | 20.4 |
| 8 19 | 21 13.39 | −14 7.8 | 2.136 | 3.138 | 3.2 | 20.5 |
| 8 29 | 21 5.07 | −14 47.3 | 2.166 | 3.127 | 6.8 | 20.8 |
| 9 8 | 20 58.10 | −15 20.9 | 2.221 | 3.115 | 10.1 | 21.0 |
| 9 18 | 20 53.04 | −15 46.7 | 2.300 | 3.102 | 13.0 | 21.1 |

**482775** 2013 $GP_{126}$ 8 10.3 227°.62 7°.1/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.76 | + 9 53.1 | 2.487 | 3.263 | 13.3 | 21.3 |
| 7 20 | 21 35.05 | +10 4.5 | 2.405 | 3.259 | 11.3 | 21.2 |
| 7 30 | 21 28.99 | + 9 56.0 | 2.343 | 3.255 | 9.3 | 21.0 |
| 8 9 | 21 22.09 | + 9 27.2 | 2.305 | 3.250 | 7.7 | 20.9 |
| 8 19 | 21 14.99 | + 8 39.3 | 2.292 | 3.245 | 7.1 | 20.9 |
| 8 29 | 21 8.39 | + 7 35.8 | 2.306 | 3.241 | 8.0 | 20.9 |
| 9 8 | 21 2.94 | + 6 21.8 | 2.345 | 3.236 | 9.8 | 21.0 |
| 9 18 | 20 59.11 | + 5 3.0 | 2.408 | 3.231 | 11.9 | 21.2 |

**387894** 2004 $TA_{194}$ 8 10.3 290°.30 0°.7/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.26 | −15 45.4 | 1.674 | 2.571 | 13.2 | 21.9 |
| 7 20 | 21 39.70 | −16 7.3 | 1.585 | 2.545 | 9.5 | 21.7 |
| 7 30 | 21 31.85 | −16 37.0 | 1.520 | 2.519 | 5.2 | 21.3 |
| 8 9 | 21 22.46 | −17 9.8 | 1.480 | 2.494 | 0.8 | 21.0 |
| 8 19 | 21 12.53 | −17 40.7 | 1.467 | 2.468 | 4.5 | 21.2 |
| 8 29 | 21 3.31 | −18 4.9 | 1.479 | 2.441 | 9.3 | 21.4 |
| 9 8 | 20 55.94 | −18 19.0 | 1.515 | 2.415 | 13.6 | 21.6 |
| 9 18 | 20 51.20 | −18 21.7 | 1.571 | 2.389 | 17.3 | 21.8 |

**8706** Takeyama 8 10.3 244°.54 4°.3/ 6.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.24 | −26 30.7 | 2.091 | 2.990 | 10.9 | 18.1 |
| 7 20 | 21 39.23 | −27 19.6 | 2.026 | 2.984 | 8.0 | 17.9 |
| 7 30 | 21 31.36 | −28 6.1 | 1.986 | 2.977 | 5.3 | 17.7 |
| 8 9 | 21 22.38 | −28 44.5 | 1.973 | 2.970 | 4.4 | 17.6 |
| 8 19 | 21 13.21 | −29 10.0 | 1.987 | 2.962 | 6.4 | 17.7 |
| 8 29 | 21 4.85 | −29 19.8 | 2.027 | 2.955 | 9.3 | 17.9 |
| 9 8 | 20 58.16 | −29 13.5 | 2.090 | 2.947 | 12.3 | 18.1 |
| 9 18 | 20 53.72 | −28 52.5 | 2.175 | 2.940 | 14.8 | 18.3 |

**50121** 2000 $AS_{122}$ 8 10.3 198°.84 4°.2/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.02 | − 3 36.0 | 1.680 | 2.543 | 15.0 | 19.5 |
| 7 20 | 21 39.25 | − 3 32.8 | 1.610 | 2.541 | 11.5 | 19.3 |
| 7 30 | 21 31.45 | − 3 47.0 | 1.561 | 2.540 | 7.8 | 19.0 |
| 8 9 | 21 22.40 | − 4 16.8 | 1.536 | 2.538 | 4.6 | 18.9 |
| 8 19 | 21 13.09 | − 4 58.8 | 1.538 | 2.535 | 5.0 | 18.9 |
| 8 29 | 21 4.62 | − 5 47.6 | 1.566 | 2.533 | 8.4 | 19.1 |
| 9 8 | 20 57.96 | − 6 37.6 | 1.619 | 2.530 | 12.2 | 19.3 |
| 9 18 | 20 53.73 | − 7 23.7 | 1.693 | 2.527 | 15.6 | 19.5 |

**67899** 2000 $WB_{88}$ 8 10.3 262°.72 1°.8/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.70 | −18 20.0 | 1.859 | 2.757 | 12.1 | 19.1 |
| 7 20 | 21 39.03 | −19 0.6 | 1.783 | 2.743 | 8.6 | 18.8 |
| 7 30 | 21 31.35 | −19 46.5 | 1.730 | 2.729 | 4.7 | 18.6 |
| 8 9 | 21 22.40 | −20 32.2 | 1.704 | 2.715 | 1.8 | 18.4 |
| 8 19 | 21 13.11 | −21 12.4 | 1.705 | 2.701 | 4.8 | 18.5 |
| 8 29 | 21 4.58 | −21 42.5 | 1.732 | 2.686 | 8.8 | 18.7 |
| 9 8 | 20 57.76 | −22 0.0 | 1.784 | 2.671 | 12.5 | 18.9 |
| 9 18 | 20 53.32 | −22 4.3 | 1.856 | 2.656 | 15.7 | 19.1 |

**95955** Claragianni 8 10.3 22°.59 1°.5/ 9.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.08 | −19 30.5 | 1.781 | 2.682 | 12.4 | 18.2 |
| 7 20 | 21 39.07 | −19 30.3 | 1.728 | 2.689 | 8.7 | 18.0 |
| 7 30 | 21 31.22 | −19 31.8 | 1.698 | 2.697 | 4.7 | 17.8 |
| 8 9 | 21 22.37 | −19 31.4 | 1.694 | 2.706 | 1.5 | 17.6 |
| 8 19 | 21 13.51 | −19 25.9 | 1.717 | 2.716 | 4.3 | 17.8 |
| 8 29 | 21 5.67 | −19 13.3 | 1.766 | 2.726 | 8.2 | 18.1 |
| 9 8 | 20 59.68 | −18 52.9 | 1.840 | 2.736 | 11.8 | 18.3 |
| 9 18 | 20 56.03 | −18 25.1 | 1.934 | 2.747 | 14.7 | 18.6 |

**240212** 2002 $RF_{278}$ 8 10.3 47°.10 6°.8/16.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.75 | + 4 28.8 | 1.615 | 2.450 | 16.8 | 20.6 |
| 7 20 | 21 36.13 | + 4 23.3 | 1.560 | 2.464 | 13.6 | 20.4 |
| 7 30 | 21 29.69 | + 3 52.2 | 1.525 | 2.478 | 10.3 | 20.2 |
| 8 9 | 21 22.20 | + 2 57.0 | 1.512 | 2.493 | 7.6 | 20.1 |
| 8 19 | 21 14.61 | + 1 42.0 | 1.524 | 2.508 | 6.9 | 20.1 |
| 8 29 | 21 7.93 | + 0 14.5 | 1.561 | 2.523 | 8.9 | 20.3 |
| 9 8 | 21 2.99 | − 1 17.3 | 1.622 | 2.539 | 11.9 | 20.5 |
| 9 18 | 21 0.33 | − 2 45.7 | 1.706 | 2.554 | 14.8 | 20.7 |

**99191** 2001 $FF_{194}$ 8 10.3 107°.05 6°.0/ 4.0 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.58 | −32 55.3 | 2.367 | 3.261 | 10.0 | 19.3 |
| 7 20 | 21 37.93 | −34 14.8 | 2.322 | 3.267 | 7.8 | 19.2 |
| 7 30 | 21 30.60 | −35 27.5 | 2.304 | 3.274 | 6.3 | 19.1 |
| 8 9 | 21 22.31 | −36 27.2 | 2.312 | 3.280 | 6.3 | 19.1 |
| 8 19 | 21 13.89 | −37 9.3 | 2.346 | 3.286 | 7.7 | 19.2 |
| 8 29 | 21 6.25 | −37 31.5 | 2.406 | 3.292 | 9.9 | 19.3 |
| 9 8 | 21 0.18 | −37 34.3 | 2.489 | 3.298 | 12.0 | 19.5 |
| 9 18 | 20 56.18 | −37 19.7 | 2.591 | 3.304 | 13.9 | 19.7 |

**511811** 2015 $FF_{137}$ 8 10.3 331°.66 0°.6/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.87 | −11 19.2 | 1.242 | 2.151 | 16.0 | 20.0 |
| 7 20 | 21 36.23 | −11 58.5 | 1.171 | 2.136 | 11.6 | 19.7 |
| 7 30 | 21 30.08 | −12 54.9 | 1.121 | 2.121 | 6.6 | 19.4 |
| 8 9 | 21 22.28 | −14 2.7 | 1.094 | 2.108 | 1.1 | 19.0 |
| 8 19 | 21 14.02 | −15 14.1 | 1.091 | 2.095 | 4.8 | 19.2 |
| 8 29 | 21 6.72 | −16 20.3 | 1.110 | 2.083 | 10.3 | 19.5 |
| 9 8 | 21 1.64 | −17 14.4 | 1.152 | 2.072 | 15.2 | 19.7 |
| 9 18 | 20 59.56 | −17 52.3 | 1.211 | 2.063 | 19.4 | 20.0 |

**289444** 2005 $EH_{41}$ 8 10.3 130°.22 3°.6/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.15 | −22 58.6 | 2.106 | 3.005 | 10.8 | 20.8 |
| 7 20 | 21 38.36 | −24 18.1 | 2.055 | 3.015 | 7.7 | 20.6 |
| 7 30 | 21 30.85 | −25 38.1 | 2.031 | 3.025 | 4.7 | 20.4 |
| 8 9 | 21 22.35 | −26 52.0 | 2.033 | 3.035 | 3.7 | 20.4 |
| 8 19 | 21 13.72 | −27 54.1 | 2.064 | 3.044 | 5.8 | 20.6 |
| 8 29 | 21 5.90 | −28 40.4 | 2.122 | 3.053 | 8.8 | 20.8 |
| 9 8 | 20 59.68 | −29 9.3 | 2.204 | 3.061 | 11.7 | 21.0 |
| 9 18 | 20 55.57 | −29 21.7 | 2.307 | 3.069 | 14.1 | 21.2 |

**185269** 2006 $UC_{142}$ 8 10.3 82°.14 2°.8/12.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.26 | − 7 46.4 | 1.469 | 2.352 | 15.6 | 20.0 |
| 7 20 | 21 40.18 | − 7 47.9 | 1.416 | 2.363 | 11.6 | 19.8 |
| 7 30 | 21 31.94 | − 8 4.4 | 1.385 | 2.375 | 7.1 | 19.6 |
| 8 9 | 21 22.49 | − 8 32.8 | 1.378 | 2.387 | 3.2 | 19.4 |
| 8 19 | 21 12.95 | − 9 8.4 | 1.396 | 2.398 | 4.5 | 19.5 |
| 8 29 | 21 4.54 | − 9 45.9 | 1.440 | 2.410 | 8.7 | 19.8 |
| 9 8 | 20 58.24 | −10 20.3 | 1.508 | 2.421 | 12.8 | 20.1 |
| 9 18 | 20 54.61 | −10 48.0 | 1.596 | 2.433 | 16.2 | 20.3 |

**386326** 2008 $SQ_{151}$ 8 10.3 315°.91 1°.2/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.94 | −15 43.6 | 1.525 | 2.430 | 13.8 | 21.2 |
| 7 20 | 21 38.04 | −16 27.8 | 1.457 | 2.421 | 9.8 | 21.0 |
| 7 30 | 21 30.91 | −17 21.2 | 1.412 | 2.413 | 5.3 | 20.7 |
| 8 9 | 21 22.38 | −18 17.7 | 1.392 | 2.405 | 1.2 | 20.4 |
| 8 19 | 21 13.53 | −19 10.7 | 1.397 | 2.397 | 4.9 | 20.6 |
| 8 29 | 21 5.61 | −19 54.0 | 1.427 | 2.390 | 9.5 | 20.9 |
| 9 8 | 20 59.66 | −20 23.9 | 1.481 | 2.383 | 13.7 | 21.1 |
| 9 18 | 20 56.37 | −20 39.0 | 1.554 | 2.376 | 17.3 | 21.3 |

**160477** 2006 $VF_{148}$ 8 10.3 116°.46 3°.9/ 6.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.09 | −25 57.2 | 2.386 | 3.284 | 9.8 | 19.7 |
| 7 20 | 21 37.46 | −27 4.5 | 2.338 | 3.295 | 7.1 | 19.6 |
| 7 30 | 21 30.31 | −28 9.7 | 2.316 | 3.305 | 4.7 | 19.4 |
| 8 9 | 21 22.30 | −29 7.3 | 2.321 | 3.316 | 4.0 | 19.4 |
| 8 19 | 21 14.20 | −29 53.0 | 2.354 | 3.326 | 5.8 | 19.5 |
| 8 29 | 21 6.84 | −30 23.7 | 2.415 | 3.336 | 8.4 | 19.7 |
| 9 8 | 21 0.91 | −30 38.8 | 2.499 | 3.346 | 10.8 | 19.9 |
| 9 18 | 20 56.89 | −30 39.2 | 2.605 | 3.355 | 13.0 | 20.1 |

**379914** 2012 $JK_{63}$ 8 10.3 45°.26 5°.5/ 6.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.88 | −25 29.1 | 1.323 | 2.239 | 14.8 | 20.5 |
| 7 20 | 21 40.99 | −26 33.6 | 1.280 | 2.246 | 10.7 | 20.3 |
| 7 30 | 21 32.51 | −27 35.6 | 1.259 | 2.254 | 6.9 | 20.1 |
| 8 9 | 21 22.57 | −28 25.9 | 1.262 | 2.262 | 5.6 | 20.0 |
| 8 19 | 21 12.57 | −28 57.2 | 1.289 | 2.270 | 8.3 | 20.2 |
| 8 29 | 21 3.99 | −29 6.1 | 1.339 | 2.279 | 12.1 | 20.5 |
| 9 8 | 20 57.95 | −28 53.2 | 1.410 | 2.288 | 15.8 | 20.7 |
| 9 18 | 20 55.02 | −28 21.6 | 1.499 | 2.297 | 18.9 | 21.0 |

**33137** 1998 $DO_{1}$ 8 10.3 119°.65 2°.6/ 8.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.40 | −19 54.7 | 1.725 | 2.627 | 12.6 | 18.8 |
| 7 20 | 21 39.48 | −20 47.8 | 1.671 | 2.633 | 8.9 | 18.6 |
| 7 30 | 21 31.55 | −21 44.3 | 1.640 | 2.639 | 5.0 | 18.4 |
| 8 9 | 21 22.46 | −22 37.6 | 1.635 | 2.644 | 2.6 | 18.3 |
| 8 19 | 21 13.23 | −23 21.9 | 1.657 | 2.650 | 5.4 | 18.5 |
| 8 29 | 21 4.99 | −23 52.8 | 1.706 | 2.655 | 9.3 | 18.7 |
| 9 8 | 20 58.66 | −24 8.5 | 1.777 | 2.660 | 12.8 | 18.9 |
| 9 18 | 20 54.81 | −24 9.4 | 1.870 | 2.665 | 15.8 | 19.1 |

**474383** 2002 $SN_{70}$ 8 10.3 293°.74 3°.0/ 8.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.24 | −22 12.1 | 1.835 | 2.738 | 12.0 | 21.3 |
| 7 20 | 21 39.36 | −22 46.5 | 1.771 | 2.732 | 8.6 | 21.1 |
| 7 30 | 21 31.50 | −23 21.8 | 1.730 | 2.727 | 5.0 | 20.9 |
| 8 9 | 21 22.46 | −23 52.4 | 1.715 | 2.722 | 3.0 | 20.8 |
| 8 19 | 21 13.22 | −24 13.5 | 1.727 | 2.717 | 5.5 | 20.9 |
| 8 29 | 21 4.88 | −24 21.9 | 1.765 | 2.713 | 9.2 | 21.1 |
| 9 8 | 20 58.36 | −24 16.5 | 1.827 | 2.708 | 12.6 | 21.3 |
| 9 18 | 20 54.26 | −23 58.2 | 1.909 | 2.703 | 15.6 | 21.5 |

**488398** 2016 $WY_{52}$ 8 10.3 198°.14 2°.6/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.32 | − 6 22.0 | 2.393 | 3.252 | 11.2 | 21.2 |
| 7 20 | 21 36.86 | − 6 20.1 | 2.318 | 3.251 | 8.4 | 21.1 |
| 7 30 | 21 29.99 | − 6 28.6 | 2.267 | 3.250 | 5.4 | 20.9 |
| 8 9 | 21 22.28 | − 6 46.0 | 2.243 | 3.248 | 2.9 | 20.7 |
| 8 19 | 21 14.41 | − 7 9.8 | 2.247 | 3.246 | 3.5 | 20.8 |
| 8 29 | 21 7.12 | − 7 37.1 | 2.279 | 3.244 | 6.3 | 20.9 |
| 9 8 | 21 1.08 | − 8 4.4 | 2.338 | 3.242 | 9.3 | 21.1 |
| 9 18 | 20 56.78 | − 8 29.1 | 2.420 | 3.239 | 11.9 | 21.3 |

**476696** 2008 $TN_{119}$ 8 10.3 242°.47 2°.7/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.87 | − 7 4.1 | 1.999 | 2.865 | 12.8 | 21.8 |
| 7 20 | 21 38.99 | − 7 2.9 | 1.916 | 2.853 | 9.6 | 21.6 |
| 7 30 | 21 31.30 | − 7 13.9 | 1.856 | 2.841 | 6.1 | 21.4 |
| 8 9 | 21 22.45 | − 7 35.0 | 1.821 | 2.828 | 3.0 | 21.2 |
| 8 19 | 21 13.28 | − 8 3.3 | 1.815 | 2.815 | 3.9 | 21.2 |
| 8 29 | 21 4.76 | − 8 35.2 | 1.836 | 2.802 | 7.5 | 21.4 |
| 9 8 | 20 57.75 | − 9 6.4 | 1.882 | 2.788 | 11.1 | 21.6 |
| 9 18 | 20 52.88 | − 9 33.8 | 1.951 | 2.773 | 14.3 | 21.8 |

**393626** 2004 $FM_{75}$ 8 10.3 348°.70 2°.8/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.07 | − 6 7.6 | 1.816 | 2.690 | 13.5 | 20.9 |
| 7 20 | 21 36.34 | − 6 23.1 | 1.747 | 2.688 | 10.1 | 20.7 |
| 7 30 | 21 29.84 | − 6 53.4 | 1.699 | 2.686 | 6.4 | 20.5 |
| 8 9 | 21 22.27 | − 7 35.9 | 1.677 | 2.684 | 3.2 | 20.3 |
| 8 19 | 21 14.48 | − 8 26.4 | 1.682 | 2.683 | 4.0 | 20.3 |
| 8 29 | 21 7.44 | − 9 19.6 | 1.713 | 2.682 | 7.6 | 20.6 |
| 9 8 | 21 1.98 | −10 10.3 | 1.768 | 2.681 | 11.2 | 20.8 |
| 9 18 | 20 58.67 | −10 54.5 | 1.845 | 2.681 | 14.4 | 21.0 |

**25729** 2000 $AV_{187}$ 8 10.3 74°.49 8°.1/17.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.69 | + 7 1.4 | 1.467 | 2.293 | 18.6 | 17.4 |
| 7 20 | 21 37.69 | + 6 55.1 | 1.412 | 2.307 | 15.3 | 17.2 |
| 7 30 | 21 30.62 | + 6 18.5 | 1.375 | 2.320 | 11.9 | 17.0 |
| 8 9 | 21 22.36 | + 5 12.4 | 1.359 | 2.334 | 9.0 | 16.9 |
| 8 19 | 21 13.96 | + 3 41.8 | 1.368 | 2.347 | 8.2 | 16.9 |
| 8 29 | 21 6.58 | + 1 55.1 | 1.401 | 2.361 | 9.9 | 17.0 |
| 9 8 | 21 1.16 | + 0 3.0 | 1.459 | 2.375 | 12.9 | 17.3 |
| 9 18 | 20 58.29 | − 1 45.4 | 1.537 | 2.388 | 16.0 | 17.5 |

**109810** 2001 $RZ_{102}$ 8 10.3 252°.61 1°.8/ 9.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.74 | −17 57.6 | 1.786 | 2.684 | 12.5 | 20.2 |
| 7 20 | 21 39.88 | −18 42.6 | 1.709 | 2.669 | 8.9 | 20.0 |
| 7 30 | 21 31.90 | −19 33.6 | 1.655 | 2.655 | 4.9 | 19.7 |
| 8 9 | 21 22.53 | −20 25.0 | 1.628 | 2.639 | 1.8 | 19.5 |
| 8 19 | 21 12.79 | −21 10.9 | 1.628 | 2.624 | 4.9 | 19.7 |
| 8 29 | 21 3.82 | −21 46.1 | 1.654 | 2.608 | 9.1 | 19.9 |
| 9 8 | 20 56.65 | −22 7.9 | 1.704 | 2.592 | 13.0 | 20.1 |
| 9 18 | 20 51.97 | −22 15.6 | 1.775 | 2.575 | 16.3 | 20.3 |

**351034** 2003 $SS_{145}$ 8 10.3 315°.22 1°.0/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.57 | −14 0.4 | 1.505 | 2.402 | 14.5 | 19.8 |
| 7 20 | 21 40.75 | −13 36.9 | 1.423 | 2.381 | 10.6 | 19.5 |
| 7 30 | 21 32.49 | −13 19.8 | 1.363 | 2.360 | 6.0 | 19.2 |
| 8 9 | 21 22.62 | −13 6.8 | 1.327 | 2.340 | 1.4 | 18.8 |
| 8 19 | 21 12.28 | −12 55.2 | 1.318 | 2.321 | 4.4 | 19.0 |
| 8 29 | 21 2.83 | −12 42.3 | 1.333 | 2.302 | 9.4 | 19.3 |
| 9 8 | 20 55.45 | −12 26.0 | 1.372 | 2.283 | 13.9 | 19.5 |
| 9 18 | 20 50.92 | −12 5.2 | 1.430 | 2.265 | 17.9 | 19.7 |

**137406** 1999 $TC_{180}$ 8 10.3 342°.15 4°.0/ 8.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.81 | −22 27.3 | 1.112 | 2.035 | 16.3 | 19.1 |
| 7 20 | 21 40.71 | −22 52.1 | 1.055 | 2.026 | 11.7 | 18.8 |
| 7 30 | 21 32.60 | −23 17.9 | 1.017 | 2.018 | 6.8 | 18.5 |
| 8 9 | 21 22.62 | −23 36.7 | 1.001 | 2.011 | 4.0 | 18.3 |
| 8 19 | 21 12.35 | −23 41.8 | 1.009 | 2.004 | 7.3 | 18.5 |
| 8 29 | 21 3.52 | −23 29.3 | 1.038 | 1.999 | 12.4 | 18.7 |
| 9 8 | 20 57.49 | −22 59.2 | 1.087 | 1.995 | 17.1 | 19.0 |
| 9 18 | 20 54.98 | −22 13.8 | 1.154 | 1.991 | 21.1 | 19.2 |

**361643** 2007 $TB_{260}$ 8 10.3 34°.24 4°.7/ 8.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.01 | −23 24.9 | 1.008 | 1.933 | 17.4 | 19.6 |
| 7 20 | 21 42.13 | −24 1.5 | 0.972 | 1.944 | 12.4 | 19.3 |
| 7 30 | 21 33.22 | −24 36.9 | 0.956 | 1.956 | 7.4 | 19.1 |
| 8 9 | 21 22.67 | −25 1.9 | 0.961 | 1.969 | 4.8 | 19.0 |
| 8 19 | 21 12.25 | −25 9.7 | 0.989 | 1.982 | 8.0 | 19.2 |
| 8 29 | 21 3.68 | −24 57.6 | 1.039 | 1.996 | 12.8 | 19.5 |
| 9 8 | 20 58.17 | −24 26.8 | 1.108 | 2.011 | 17.2 | 19.8 |
| 9 18 | 20 56.23 | −23 40.8 | 1.194 | 2.027 | 20.8 | 20.1 |

**248652** 2006 $HQ_{56}$ 8 10.3 48°.41 2°.3/ 8.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.20 | −16 46.6 | 1.096 | 2.014 | 16.9 | 19.8 |
| 7 20 | 21 39.93 | −17 50.0 | 1.058 | 2.029 | 11.8 | 19.6 |
| 7 30 | 21 31.97 | −19 2.2 | 1.042 | 2.044 | 6.3 | 19.3 |
| 8 9 | 21 22.53 | −20 13.6 | 1.047 | 2.060 | 2.3 | 19.1 |
| 8 19 | 21 13.10 | −21 14.7 | 1.077 | 2.076 | 6.2 | 19.4 |
| 8 29 | 21 5.21 | −21 58.7 | 1.129 | 2.092 | 11.3 | 19.8 |
| 9 8 | 21 0.00 | −22 23.0 | 1.202 | 2.109 | 15.8 | 20.1 |
| 9 18 | 20 58.01 | −22 28.1 | 1.293 | 2.126 | 19.5 | 20.4 |

**523714** 2014 $KR_{101}$ 8 10.3 17°.69 0°.1/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 28.48 | −16 23.5 | 10.051 | 10.932 | 2.8 | 21.9 |
| 7 20 | 21 26.41 | −16 37.3 | 9.986 | 10.939 | 1.9 | 21.8 |
| 7 30 | 21 24.07 | −16 52.0 | 9.948 | 10.946 | 1.0 | 21.7 |
| 8 9 | 21 21.59 | −17 6.9 | 9.940 | 10.953 | 0.2 | 21.6 |
| 8 19 | 21 19.08 | −17 21.6 | 9.961 | 10.960 | 0.9 | 21.7 |
| 8 29 | 21 16.69 | −17 35.2 | 10.012 | 10.968 | 1.8 | 21.8 |
| 9 8 | 21 14.54 | −17 47.4 | 10.090 | 10.975 | 2.6 | 21.9 |
| 9 18 | 21 12.75 | −17 57.5 | 10.194 | 10.982 | 3.4 | 22.0 |

**262324** 2006 $TR_{27}$ 8 10.3 311°.30 0°.8/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.85 | −11 34.0 | 1.889 | 2.776 | 12.4 | 20.9 |
| 7 20 | 21 36.89 | −11 57.7 | 1.816 | 2.769 | 9.0 | 20.7 |
| 7 30 | 21 30.16 | −12 31.6 | 1.767 | 2.763 | 5.1 | 20.5 |
| 8 9 | 21 22.33 | −13 12.0 | 1.743 | 2.756 | 1.1 | 20.2 |
| 8 19 | 21 14.26 | −13 54.4 | 1.747 | 2.750 | 3.5 | 20.3 |
| 8 29 | 21 6.91 | −14 34.2 | 1.777 | 2.744 | 7.6 | 20.6 |
| 9 8 | 21 1.13 | −15 7.7 | 1.833 | 2.738 | 11.3 | 20.8 |
| 9 18 | 20 57.50 | −15 32.2 | 1.909 | 2.732 | 14.5 | 21.0 |

**220961** 2005 $MN_{18}$ 8 10.3 352°.19 1°.7/11.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.24 | −11 31.6 | 0.956 | 1.880 | 18.2 | 19.1 |
| 7 20 | 21 35.42 | −11 29.7 | 0.899 | 1.870 | 13.3 | 18.8 |
| 7 30 | 21 29.77 | −11 44.3 | 0.860 | 1.861 | 7.7 | 18.5 |
| 8 9 | 21 22.30 | −12 11.3 | 0.841 | 1.854 | 2.2 | 18.1 |
| 8 19 | 21 14.47 | −12 44.3 | 0.843 | 1.849 | 5.2 | 18.3 |
| 8 29 | 21 7.92 | −13 16.1 | 0.866 | 1.846 | 11.1 | 18.6 |
| 9 8 | 21 4.02 | −13 40.2 | 0.908 | 1.845 | 16.4 | 18.9 |
| 9 18 | 21 3.51 | −13 52.7 | 0.967 | 1.846 | 21.0 | 19.2 |

**521627** 2015 $PN_{322}$ 8 10.3 61°.23 2°.1/ 8.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.87 | −19 55.9 | 1.928 | 2.828 | 11.6 | 21.5 |
| 7 20 | 21 38.16 | −20 31.9 | 1.879 | 2.841 | 8.2 | 21.3 |
| 7 30 | 21 30.74 | −21 10.1 | 1.855 | 2.854 | 4.5 | 21.1 |
| 8 9 | 21 22.40 | −21 45.4 | 1.858 | 2.868 | 2.1 | 21.0 |
| 8 19 | 21 14.03 | −22 13.4 | 1.887 | 2.881 | 4.7 | 21.2 |
| 8 29 | 21 6.58 | −22 31.1 | 1.943 | 2.895 | 8.2 | 21.4 |
| 9 8 | 21 0.83 | −22 37.0 | 2.024 | 2.909 | 11.4 | 21.7 |
| 9 18 | 20 57.24 | −22 31.4 | 2.126 | 2.923 | 14.1 | 21.9 |

**315155** 2007 $FC_{12}$ 8 10.3 203°.05 3°.0/13.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.99 | − 3 6.4 | 2.495 | 3.343 | 11.1 | 20.8 |
| 7 20 | 21 35.20 | − 3 26.8 | 2.417 | 3.341 | 8.5 | 20.6 |
| 7 30 | 21 29.10 | − 4 0.6 | 2.363 | 3.339 | 5.7 | 20.4 |
| 8 9 | 21 22.21 | − 4 45.6 | 2.336 | 3.336 | 3.4 | 20.3 |
| 8 19 | 21 15.15 | − 5 38.7 | 2.337 | 3.334 | 3.6 | 20.3 |
| 8 29 | 21 8.60 | − 6 36.0 | 2.366 | 3.331 | 6.1 | 20.5 |
| 9 8 | 21 3.19 | − 7 33.2 | 2.422 | 3.328 | 8.9 | 20.6 |
| 9 18 | 20 59.39 | − 8 26.6 | 2.502 | 3.325 | 11.5 | 20.8 |

**173292** 1999 $TG_{202}$ 8 10.3 21°.40 5°.3/ 6.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.81 | −28 57.4 | 1.836 | 2.739 | 12.0 | 19.1 |
| 7 20 | 21 39.73 | −29 34.2 | 1.787 | 2.744 | 8.9 | 19.0 |
| 7 30 | 21 31.66 | −30 5.3 | 1.761 | 2.748 | 6.2 | 18.8 |
| 8 9 | 21 22.51 | −30 24.7 | 1.761 | 2.754 | 5.3 | 18.8 |
| 8 19 | 21 13.34 | −30 28.3 | 1.786 | 2.759 | 7.2 | 18.9 |
| 8 29 | 21 5.25 | −30 14.4 | 1.837 | 2.765 | 10.1 | 19.1 |
| 9 8 | 20 59.11 | −29 44.1 | 1.911 | 2.772 | 13.1 | 19.3 |
| 9 18 | 20 55.44 | −28 59.9 | 2.005 | 2.779 | 15.6 | 19.5 |

**163809** 2003 $QO_{105}$ 8 10.3 268°.76 0°.5/10.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.38 | −10 15.3 | 2.034 | 2.914 | 12.0 | 19.9 |
| 7 20 | 21 37.35 | −11 12.8 | 1.942 | 2.892 | 8.7 | 19.6 |
| 7 30 | 21 30.50 | −12 23.9 | 1.873 | 2.869 | 5.0 | 19.4 |
| 8 9 | 21 22.41 | −13 44.1 | 1.832 | 2.845 | 0.9 | 19.0 |
| 8 19 | 21 13.88 | −15 7.6 | 1.819 | 2.821 | 3.6 | 19.2 |
| 8 29 | 21 5.86 | −16 28.0 | 1.834 | 2.797 | 7.7 | 19.4 |
| 9 8 | 20 59.25 | −17 39.8 | 1.875 | 2.773 | 11.5 | 19.6 |
| 9 18 | 20 54.71 | −18 39.1 | 1.938 | 2.748 | 14.8 | 19.8 |

**319467** 2006 $OE_{16}$ 8 10.3 13°.28 5°.8/ 6.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 37.62 | −21 51.8 | 0.813 | 1.758 | 18.0 | 19.4 |
| 7 20 | 21 35.21 | −23 22.0 | 0.781 | 1.763 | 12.8 | 19.2 |
| 7 30 | 21 29.65 | −24 55.6 | 0.768 | 1.771 | 7.8 | 18.9 |
| 8 9 | 21 22.30 | −26 18.6 | 0.773 | 1.780 | 6.0 | 18.9 |
| 8 19 | 21 14.87 | −27 18.8 | 0.799 | 1.791 | 9.6 | 19.1 |
| 8 29 | 21 9.17 | −27 49.2 | 0.844 | 1.805 | 14.5 | 19.4 |
| 9 8 | 21 6.48 | −27 49.5 | 0.906 | 1.820 | 19.0 | 19.8 |
| 9 18 | 21 7.32 | −27 23.2 | 0.983 | 1.837 | 22.8 | 20.1 |

**304294** 2006 $SG_{82}$ 8 10.3 231°.61 0°.3/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.84 | −14 34.3 | 2.377 | 3.261 | 10.3 | 22.0 |
| 7 20 | 21 37.35 | −15 5.6 | 2.298 | 3.252 | 7.4 | 21.8 |
| 7 30 | 21 30.34 | −15 43.3 | 2.244 | 3.242 | 4.0 | 21.6 |
| 8 9 | 21 22.39 | −16 23.8 | 2.217 | 3.231 | 0.5 | 21.3 |
| 8 19 | 21 14.21 | −17 3.2 | 2.220 | 3.220 | 3.3 | 21.5 |
| 8 29 | 21 6.60 | −17 37.8 | 2.250 | 3.209 | 6.8 | 21.7 |
| 9 8 | 21 0.28 | −18 5.1 | 2.306 | 3.197 | 9.9 | 21.9 |
| 9 18 | 20 55.76 | −18 23.4 | 2.386 | 3.185 | 12.7 | 22.1 |

**181055** 2005 $PA_{14}$ 8 10.3 344°.47 1°.0/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.69 | −15 51.1 | 1.816 | 2.715 | 12.3 | 19.6 |
| 7 20 | 21 36.85 | −16 30.3 | 1.750 | 2.712 | 8.7 | 19.4 |
| 7 30 | 21 30.17 | −17 16.6 | 1.708 | 2.708 | 4.7 | 19.1 |
| 8 9 | 21 22.38 | −18 5.1 | 1.692 | 2.706 | 1.0 | 18.9 |
| 8 19 | 21 14.39 | −18 50.4 | 1.703 | 2.703 | 4.2 | 19.1 |
| 8 29 | 21 7.19 | −19 27.9 | 1.740 | 2.701 | 8.2 | 19.3 |
| 9 8 | 21 1.65 | −19 54.5 | 1.801 | 2.699 | 11.9 | 19.6 |
| 9 18 | 20 58.34 | −20 8.8 | 1.883 | 2.697 | 15.0 | 19.8 |

**274958** 2009 $SH_{302}$ 8 10.3 285°.23 0°.2/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.95 | −13 49.4 | 2.309 | 3.194 | 10.6 | 21.1 |
| 7 20 | 21 36.77 | −14 5.0 | 2.226 | 3.179 | 7.6 | 20.9 |
| 7 30 | 21 30.05 | −14 27.0 | 2.168 | 3.165 | 4.2 | 20.7 |
| 8 9 | 21 22.37 | −14 52.6 | 2.137 | 3.151 | 0.6 | 20.4 |
| 8 19 | 21 14.46 | −15 18.3 | 2.134 | 3.136 | 3.2 | 20.5 |
| 8 29 | 21 7.11 | −15 41.0 | 2.159 | 3.122 | 6.7 | 20.8 |
| 9 8 | 21 1.05 | −15 58.1 | 2.210 | 3.108 | 10.0 | 20.9 |
| 9 18 | 20 56.82 | −16 8.0 | 2.284 | 3.093 | 12.9 | 21.1 |

**260175** 2004 $RY_{98}$ 8 10.3 344°.22 0°.8/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.80 | −12 43.1 | 1.747 | 2.641 | 12.9 | 20.0 |
| 7 20 | 21 36.97 | −12 48.2 | 1.677 | 2.634 | 9.3 | 19.7 |
| 7 30 | 21 30.26 | −13 2.0 | 1.630 | 2.627 | 5.3 | 19.5 |
| 8 9 | 21 22.40 | −13 21.5 | 1.607 | 2.620 | 1.1 | 19.2 |
| 8 19 | 21 14.32 | −13 42.8 | 1.612 | 2.615 | 3.7 | 19.4 |
| 8 29 | 21 7.04 | −14 2.0 | 1.642 | 2.610 | 8.0 | 19.6 |
| 9 8 | 21 1.45 | −14 16.0 | 1.696 | 2.606 | 11.8 | 19.8 |
| 9 18 | 20 58.14 | −14 22.7 | 1.771 | 2.602 | 15.1 | 20.1 |

**367084** 2006 $QT_{13}$ 8 10.3 347°.06 5°.4/12.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 37.83 | − 7 16.5 | 0.877 | 1.797 | 19.9 | 19.3 |
| 7 20 | 21 35.36 | − 6 27.8 | 0.817 | 1.781 | 15.3 | 19.0 |
| 7 30 | 21 29.87 | − 5 58.9 | 0.773 | 1.767 | 10.2 | 18.6 |
| 8 9 | 21 22.39 | − 5 50.4 | 0.748 | 1.755 | 5.8 | 18.4 |
| 8 19 | 21 14.37 | − 5 59.8 | 0.742 | 1.745 | 6.8 | 18.4 |
| 8 29 | 21 7.62 | − 6 21.4 | 0.756 | 1.737 | 11.9 | 18.6 |
| 9 8 | 21 3.65 | − 6 47.5 | 0.787 | 1.732 | 17.2 | 18.9 |
| 9 18 | 21 3.31 | − 7 10.9 | 0.835 | 1.729 | 21.9 | 19.2 |

**114726** 2003 $HE_{1}$ 8 10.3 68°.15 0°.5/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.52 | −15 16.6 | 2.000 | 2.891 | 11.7 | 19.9 |
| 7 20 | 21 37.83 | −15 42.5 | 1.951 | 2.908 | 8.2 | 19.7 |
| 7 30 | 21 30.56 | −16 14.1 | 1.926 | 2.925 | 4.4 | 19.5 |
| 8 9 | 21 22.43 | −16 47.2 | 1.928 | 2.942 | 0.6 | 19.3 |
| 8 19 | 21 14.29 | −17 17.9 | 1.958 | 2.959 | 3.6 | 19.6 |
| 8 29 | 21 7.01 | −17 42.6 | 2.015 | 2.976 | 7.3 | 19.8 |
| 9 8 | 21 1.32 | −17 59.2 | 2.097 | 2.992 | 10.6 | 20.1 |
| 9 18 | 20 57.68 | −18 6.7 | 2.200 | 3.009 | 13.3 | 20.3 |

**75800** 2000 $AD_{233}$ 8 10.3 161°.48 2°.0/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.00 | −18 37.2 | 1.775 | 2.672 | 12.6 | 19.3 |
| 7 20 | 21 40.62 | −19 23.9 | 1.716 | 2.676 | 8.9 | 19.1 |
| 7 30 | 21 32.22 | −20 15.0 | 1.681 | 2.680 | 4.9 | 18.9 |
| 8 9 | 21 22.64 | −21 4.4 | 1.673 | 2.684 | 2.0 | 18.7 |
| 8 19 | 21 12.90 | −21 46.5 | 1.692 | 2.687 | 5.0 | 18.9 |
| 8 29 | 21 4.12 | −22 17.0 | 1.738 | 2.690 | 8.9 | 19.2 |
| 9 8 | 20 57.22 | −22 33.9 | 1.807 | 2.692 | 12.5 | 19.4 |
| 9 18 | 20 52.80 | −22 37.1 | 1.898 | 2.694 | 15.6 | 19.6 |

**511176** 2013 $YK_{75}$ 8 10.3 193°.61 0°.4/10.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.04 | −11 53.4 | 2.213 | 3.091 | 11.2 | 22.7 |
| 7 20 | 21 38.24 | −12 28.6 | 2.140 | 3.089 | 8.1 | 22.5 |
| 7 30 | 21 30.85 | −13 12.4 | 2.091 | 3.087 | 4.5 | 22.2 |
| 8 9 | 21 22.48 | −14 1.3 | 2.071 | 3.084 | 0.8 | 22.0 |
| 8 19 | 21 13.90 | −14 50.9 | 2.078 | 3.080 | 3.2 | 22.2 |
| 8 29 | 21 5.97 | −15 37.0 | 2.114 | 3.076 | 6.9 | 22.4 |
| 9 8 | 20 59.44 | −16 16.0 | 2.176 | 3.071 | 10.3 | 22.6 |
| 9 18 | 20 54.85 | −16 46.0 | 2.261 | 3.066 | 13.1 | 22.8 |

**444666** 2007 $DV_{2}$ 8 10.4 95°.18 2°.2/ 8.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.46 | −21 7.8 | 2.285 | 3.180 | 10.2 | 21.0 |
| 7 20 | 21 37.72 | −21 42.8 | 2.231 | 3.190 | 7.2 | 20.8 |
| 7 30 | 21 30.48 | −22 18.8 | 2.203 | 3.200 | 4.1 | 20.6 |
| 8 9 | 21 22.42 | −22 51.3 | 2.202 | 3.210 | 2.3 | 20.5 |
| 8 19 | 21 14.31 | −23 16.8 | 2.228 | 3.220 | 4.4 | 20.7 |
| 8 29 | 21 6.96 | −23 32.6 | 2.283 | 3.229 | 7.4 | 20.9 |
| 9 8 | 21 1.06 | −23 37.5 | 2.362 | 3.239 | 10.3 | 21.1 |
| 9 18 | 20 57.07 | −23 31.6 | 2.464 | 3.248 | 12.8 | 21.3 |

**313942** 2004 $RW_{147}$ 8 10.4 324°.24 5°.3/ 7.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.50 | −29 41.9 | 1.868 | 2.768 | 12.0 | 19.8 |
| 7 20 | 21 41.07 | −30 4.5 | 1.800 | 2.755 | 9.0 | 19.6 |
| 7 30 | 21 32.51 | −30 20.6 | 1.755 | 2.742 | 6.3 | 19.4 |
| 8 9 | 21 22.69 | −30 24.6 | 1.736 | 2.729 | 5.4 | 19.3 |
| 8 19 | 21 12.68 | −30 12.3 | 1.743 | 2.717 | 7.3 | 19.4 |
| 8 29 | 21 3.68 | −29 42.3 | 1.776 | 2.705 | 10.3 | 19.6 |
| 9 8 | 20 56.66 | −28 55.8 | 1.832 | 2.694 | 13.5 | 19.7 |
| 9 18 | 20 52.23 | −27 55.9 | 1.908 | 2.684 | 16.2 | 19.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **441794** 2009 $ES_{24}$ | | | 8 10.4 231°.31 | | 0°.8/ 9.7 18 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.67 | −15 41.5 | 2.026 | 2.919 | 11.5 | 21.6 |
| 7 20 | 21 37.40 | −16 21.2 | 1.959 | 2.917 | 8.1 | 21.4 |
| 7 30 | 21 30.43 | −17 7.3 | 1.916 | 2.915 | 4.4 | 21.1 |
| 8 9 | 21 22.44 | −17 55.4 | 1.900 | 2.913 | 0.9 | 20.9 |
| 8 19 | 21 14.26 | −18 40.6 | 1.912 | 2.911 | 3.9 | 21.1 |
| 8 29 | 21 6.81 | −19 18.6 | 1.950 | 2.909 | 7.6 | 21.3 |
| 9 8 | 21 0.87 | −19 46.6 | 2.014 | 2.907 | 11.1 | 21.5 |
| 9 18 | 20 57.01 | −20 3.4 | 2.099 | 2.905 | 14.0 | 21.7 |
| **346534** 2008 $UE_{245}$ | | | 8 10.4 23°.43 | | 7°.6/14.7 16 | |
| 7 10 | 21 44.16 | + 1 4.2 | 1.432 | 2.286 | 17.5 | 19.8 |
| 7 20 | 21 38.83 | + 1 59.0 | 1.375 | 2.292 | 14.2 | 19.6 |
| 7 30 | 21 31.33 | + 2 31.9 | 1.338 | 2.299 | 10.7 | 19.4 |
| 8 9 | 21 22.55 | + 2 41.6 | 1.323 | 2.307 | 8.1 | 19.3 |
| 8 19 | 21 13.60 | + 2 29.5 | 1.332 | 2.315 | 7.9 | 19.3 |
| 8 29 | 21 5.68 | + 2 0.0 | 1.365 | 2.324 | 10.2 | 19.5 |
| 9 8 | 20 59.79 | + 1 19.8 | 1.420 | 2.333 | 13.4 | 19.7 |
| 9 18 | 20 56.56 | + 0 35.7 | 1.495 | 2.344 | 16.5 | 19.9 |
| **448619** 2010 $UL_{70}$ | | | 8 10.4 258°.64 | | 5°.9/16.1 18 | |
| 7 10 | 21 40.71 | + 6 8.4 | 2.679 | 3.472 | 12.0 | 21.4 |
| 7 20 | 21 35.78 | + 6 20.2 | 2.580 | 3.453 | 10.0 | 21.2 |
| 7 30 | 21 29.49 | + 6 15.6 | 2.503 | 3.434 | 7.9 | 21.0 |
| 8 9 | 21 22.34 | + 5 54.1 | 2.452 | 3.414 | 6.3 | 20.9 |
| 8 19 | 21 14.90 | + 5 17.0 | 2.427 | 3.394 | 6.0 | 20.8 |
| 8 29 | 21 7.85 | + 4 26.8 | 2.430 | 3.373 | 7.2 | 20.9 |
| 9 8 | 21 1.82 | + 3 28.0 | 2.459 | 3.352 | 9.3 | 21.0 |
| 9 18 | 20 57.33 | + 2 25.1 | 2.512 | 3.331 | 11.5 | 21.1 |
| **200505** 2001 $AB_{36}$ | | | 8 10.4 281°.93 | | 1°.6/ 9.4 18 | |
| 7 10 | 21 46.90 | −18 40.1 | 1.740 | 2.638 | 12.8 | 19.9 |
| 7 20 | 21 40.79 | −18 55.6 | 1.661 | 2.621 | 9.1 | 19.6 |
| 7 30 | 21 32.47 | −19 14.9 | 1.604 | 2.603 | 5.0 | 19.3 |
| 8 9 | 21 22.74 | −19 33.2 | 1.574 | 2.586 | 1.6 | 19.1 |
| 8 19 | 21 12.63 | −19 46.1 | 1.570 | 2.568 | 4.7 | 19.2 |
| 8 29 | 21 3.35 | −19 50.2 | 1.592 | 2.551 | 9.1 | 19.5 |
| 9 8 | 20 55.95 | −19 43.6 | 1.639 | 2.533 | 13.1 | 19.7 |
| 9 18 | 20 51.14 | −19 26.3 | 1.706 | 2.515 | 16.5 | 19.8 |
| **4500** Pascal | | | 8 10.4 247°.29 | | 0°.0/10.3 18 | |
| 7 10 | 21 41.15 | −13 38.9 | 2.591 | 3.473 | 9.7 | 18.0 |
| 7 20 | 21 36.09 | −14 10.3 | 2.509 | 3.461 | 6.9 | 17.8 |
| 7 30 | 21 29.66 | −14 48.2 | 2.452 | 3.448 | 3.8 | 17.6 |
| 8 9 | 21 22.38 | −15 29.5 | 2.422 | 3.436 | 0.5 | 17.3 |
| 8 19 | 21 14.89 | −16 10.6 | 2.422 | 3.423 | 2.9 | 17.5 |
| 8 29 | 21 7.89 | −16 48.1 | 2.450 | 3.410 | 6.2 | 17.7 |
| 9 8 | 21 2.03 | −17 19.4 | 2.505 | 3.397 | 9.2 | 17.9 |
| 9 18 | 20 57.79 | −17 42.6 | 2.583 | 3.384 | 11.8 | 18.0 |
| **13140** Shinchukai | | | 8 10.4 315°.02 | | 3°.5/ 7.9 18 | |
| 7 10 | 21 42.61 | −20 31.9 | 1.471 | 2.385 | 13.7 | 17.7 |
| 7 20 | 21 38.23 | −21 29.7 | 1.385 | 2.353 | 9.9 | 17.4 |
| 7 30 | 21 31.32 | −22 34.5 | 1.321 | 2.321 | 5.7 | 17.1 |
| 8 9 | 21 22.62 | −23 38.7 | 1.281 | 2.290 | 3.5 | 16.9 |
| 8 19 | 21 13.25 | −24 34.1 | 1.267 | 2.259 | 6.7 | 17.0 |
| 8 29 | 21 4.62 | −25 13.7 | 1.276 | 2.229 | 11.4 | 17.2 |
| 9 8 | 20 58.04 | −25 33.8 | 1.306 | 2.199 | 15.9 | 17.4 |
| 9 18 | 20 54.42 | −25 33.8 | 1.355 | 2.170 | 19.8 | 17.5 |
| **221461** 2006 $BG_{78}$ | | | 8 10.4 356°.91 | | 0°.4/10.1 18 | |
| 7 10 | 21 39.93 | −14 32.4 | 1.711 | 2.613 | 12.7 | 19.9 |
| 7 20 | 21 35.68 | −15 4.1 | 1.648 | 2.610 | 9.1 | 19.7 |
| 7 30 | 21 29.59 | −15 44.2 | 1.607 | 2.607 | 4.9 | 19.4 |
| 8 9 | 21 22.38 | −16 28.1 | 1.592 | 2.605 | 0.6 | 19.1 |
| 8 19 | 21 14.99 | −17 10.7 | 1.602 | 2.604 | 4.0 | 19.4 |
| 8 29 | 21 8.41 | −17 47.0 | 1.638 | 2.604 | 8.2 | 19.6 |
| 9 8 | 21 3.51 | −18 13.6 | 1.698 | 2.605 | 12.0 | 19.9 |
| 9 18 | 21 0.87 | −18 28.7 | 1.779 | 2.606 | 15.2 | 20.1 |
| **9529** Protopapa | | | 8 10.4 228°.85 | | 0°.2/10.2 18 | |
| 7 10 | 21 45.97 | −13 53.1 | 1.843 | 2.731 | 12.7 | 19.7 |
| 7 20 | 21 39.97 | −14 25.2 | 1.767 | 2.722 | 9.1 | 19.4 |
| 7 30 | 21 31.97 | −15 6.0 | 1.714 | 2.712 | 5.0 | 19.2 |
| 8 9 | 21 22.69 | −15 51.2 | 1.688 | 2.701 | 0.6 | 18.8 |
| 8 19 | 21 13.09 | −16 35.5 | 1.689 | 2.691 | 3.9 | 19.1 |
| 8 29 | 21 4.25 | −17 14.1 | 1.718 | 2.679 | 8.3 | 19.3 |
| 9 8 | 20 57.12 | −17 43.6 | 1.771 | 2.667 | 12.1 | 19.5 |
| 9 18 | 20 52.36 | −18 2.1 | 1.845 | 2.655 | 15.5 | 19.7 |
| **72124** 2000 $YX_{67}$ | | | 8 10.4 130°.24 | | 1°.9/11.8 18 | |
| 7 10 | 21 45.75 | − 8 53.0 | 2.156 | 3.023 | 11.9 | 19.7 |
| 7 20 | 21 39.36 | − 8 56.7 | 2.096 | 3.036 | 8.8 | 19.5 |
| 7 30 | 21 31.41 | − 9 10.1 | 2.059 | 3.048 | 5.3 | 19.3 |
| 8 9 | 21 22.61 | − 9 30.7 | 2.051 | 3.060 | 2.2 | 19.1 |
| 8 19 | 21 13.73 | − 9 55.5 | 2.070 | 3.071 | 3.4 | 19.2 |
| 8 29 | 21 5.64 | −10 21.1 | 2.118 | 3.082 | 6.7 | 19.5 |
| 9 8 | 20 59.04 | −10 44.4 | 2.191 | 3.092 | 9.9 | 19.7 |
| 9 18 | 20 54.41 | −11 3.1 | 2.288 | 3.102 | 12.7 | 19.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **439073** 2011 $KR_{11}$ | | | 8 10.4 68°.70 | | 6°.8/ 4.9 17 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.74 | −29 14.0 | 1.599 | 2.508 | 13.1 | 20.3 |
| 7 20 | 21 40.02 | −30 54.2 | 1.561 | 2.519 | 9.8 | 20.1 |
| 7 30 | 21 32.01 | −32 28.5 | 1.547 | 2.531 | 7.3 | 20.0 |
| 8 9 | 21 22.69 | −33 47.3 | 1.559 | 2.542 | 7.1 | 20.0 |
| 8 19 | 21 13.26 | −34 43.3 | 1.595 | 2.554 | 9.2 | 20.2 |
| 8 29 | 21 5.02 | −35 13.3 | 1.655 | 2.566 | 12.2 | 20.4 |
| 9 8 | 20 58.99 | −35 17.9 | 1.736 | 2.577 | 15.1 | 20.6 |
| 9 18 | 20 55.74 | −35 0.5 | 1.836 | 2.589 | 17.5 | 20.8 |
| **51389** 2001 $DH_{15}$ | | | 8 10.4 72°.34 | | 4°.8/ 7.1 18 | |
| 7 10 | 21 46.52 | −22 51.5 | 1.348 | 2.262 | 14.7 | 19.1 |
| 7 20 | 21 40.73 | −24 15.0 | 1.307 | 2.273 | 10.5 | 18.9 |
| 7 30 | 21 32.45 | −25 39.4 | 1.288 | 2.285 | 6.4 | 18.7 |
| 8 9 | 21 22.74 | −26 54.7 | 1.293 | 2.297 | 4.9 | 18.7 |
| 8 19 | 21 12.96 | −27 52.5 | 1.324 | 2.308 | 7.7 | 18.9 |
| 8 29 | 21 4.51 | −28 27.8 | 1.379 | 2.320 | 11.7 | 19.1 |
| 9 8 | 20 58.51 | −28 40.1 | 1.454 | 2.332 | 15.4 | 19.4 |
| 9 18 | 20 55.51 | −28 31.7 | 1.548 | 2.344 | 18.5 | 19.7 |
| **198057** 2004 $RB_{310}$ | | | 8 10.4 285°.70 | | 3°.8/12.9 18 | |
| 7 10 | 21 44.17 | − 4 21.0 | 1.834 | 2.695 | 13.9 | 20.3 |
| 7 20 | 21 38.89 | − 4 22.1 | 1.732 | 2.664 | 10.8 | 20.0 |
| 7 30 | 21 31.51 | − 4 39.4 | 1.652 | 2.632 | 7.3 | 19.7 |
| 8 9 | 21 22.66 | − 5 11.7 | 1.597 | 2.600 | 4.2 | 19.5 |
| 8 19 | 21 13.20 | − 5 56.3 | 1.569 | 2.567 | 4.7 | 19.4 |
| 8 29 | 21 4.22 | − 6 48.3 | 1.567 | 2.534 | 8.4 | 19.6 |
| 9 8 | 20 56.76 | − 7 42.1 | 1.590 | 2.500 | 12.4 | 19.7 |
| 9 18 | 20 51.63 | − 8 32.6 | 1.635 | 2.466 | 16.1 | 19.9 |
| **20933** 3015 $T\text{-}_{1}$ | | | 8 10.4 16°.89 | | 4°.8/ 8.3 18 | |
| 7 10 | 21 48.77 | −24 25.0 | 1.087 | 2.008 | 16.7 | 17.2 |
| 7 20 | 21 42.74 | −24 48.5 | 1.042 | 2.011 | 12.1 | 16.9 |
| 7 30 | 21 33.67 | −25 9.5 | 1.016 | 2.015 | 7.3 | 16.7 |
| 8 9 | 21 22.90 | −25 19.7 | 1.013 | 2.020 | 4.8 | 16.6 |
| 8 19 | 21 12.10 | −25 13.1 | 1.033 | 2.026 | 7.8 | 16.8 |
| 8 29 | 21 3.02 | −24 47.6 | 1.075 | 2.032 | 12.5 | 17.0 |
| 9 8 | 20 56.92 | −24 5.0 | 1.137 | 2.039 | 17.0 | 17.3 |
| 9 18 | 20 54.37 | −23 8.6 | 1.217 | 2.047 | 20.7 | 17.6 |
| **235260** 2003 $SE_{415}$ | | | 8 10.4 347°.35 | | 1°.1/11.2 18 | |
| 7 10 | 21 41.64 | −10 9.9 | 1.553 | 2.446 | 14.3 | 20.3 |
| 7 20 | 21 37.06 | −10 43.4 | 1.487 | 2.443 | 10.4 | 20.1 |
| 7 30 | 21 30.42 | −11 31.0 | 1.444 | 2.440 | 6.0 | 19.8 |
| 8 9 | 21 22.52 | −12 28.1 | 1.425 | 2.437 | 1.5 | 19.5 |
| 8 19 | 21 14.35 | −13 28.6 | 1.431 | 2.435 | 4.0 | 19.7 |
| 8 29 | 21 7.06 | −14 26.1 | 1.463 | 2.433 | 8.6 | 19.9 |
| 9 8 | 21 1.62 | −15 15.2 | 1.519 | 2.432 | 12.7 | 20.2 |
| 9 18 | 20 58.67 | −15 52.6 | 1.595 | 2.431 | 16.3 | 20.4 |
| **244451** 2002 $RE_{118}$ | | | 8 10.4 351°.44 | | 6°.8/ 6.6 18 | |
| 7 10 | 21 48.35 | −31 9.8 | 1.537 | 2.443 | 13.7 | 19.6 |
| 7 20 | 21 41.98 | −31 46.8 | 1.483 | 2.439 | 10.4 | 19.4 |
| 7 30 | 21 33.12 | −32 15.2 | 1.452 | 2.436 | 7.6 | 19.2 |
| 8 9 | 21 22.84 | −32 27.5 | 1.444 | 2.433 | 6.9 | 19.1 |
| 8 19 | 21 12.46 | −32 18.7 | 1.461 | 2.431 | 8.9 | 19.3 |
| 8 29 | 21 3.41 | −31 47.5 | 1.503 | 2.429 | 12.1 | 19.4 |
| 9 8 | 20 56.76 | −30 56.3 | 1.565 | 2.428 | 15.3 | 19.6 |
| 9 18 | 20 53.13 | −29 49.3 | 1.647 | 2.428 | 18.2 | 19.9 |
| **145200** 2005 $JR_{32}$ | | | 8 10.4 41°.19 | | 3°.0/ 8.7 17 | |
| 7 10 | 21 45.99 | −19 16.7 | 1.082 | 2.003 | 16.8 | 19.6 |
| 7 20 | 21 40.49 | −20 6.2 | 1.050 | 2.022 | 11.8 | 19.4 |
| 7 30 | 21 32.31 | −21 0.0 | 1.039 | 2.041 | 6.5 | 19.1 |
| 8 9 | 21 22.74 | −21 49.3 | 1.051 | 2.062 | 3.0 | 19.0 |
| 8 19 | 21 13.30 | −22 26.2 | 1.085 | 2.083 | 6.6 | 19.3 |
| 8 29 | 21 5.53 | −22 46.1 | 1.143 | 2.104 | 11.4 | 19.6 |
| 9 8 | 21 0.48 | −22 47.9 | 1.221 | 2.127 | 15.7 | 19.9 |
| 9 18 | 20 58.64 | −22 33.1 | 1.317 | 2.149 | 19.2 | 20.2 |
| **33701** Gotthold | | | 8 10.4 54°.23 | | 3°.0/11.9 18 | |
| 7 10 | 21 47.63 | − 8 44.7 | 1.179 | 2.075 | 17.7 | 17.9 |
| 7 20 | 21 41.50 | − 8 33.1 | 1.136 | 2.090 | 13.1 | 17.6 |
| 7 30 | 21 32.85 | − 8 37.9 | 1.112 | 2.105 | 7.9 | 17.4 |
| 8 9 | 21 22.82 | − 8 55.6 | 1.111 | 2.121 | 3.4 | 17.2 |
| 8 19 | 21 12.80 | − 9 21.4 | 1.134 | 2.137 | 5.0 | 17.3 |
| 8 29 | 21 4.23 | − 9 49.5 | 1.181 | 2.154 | 9.8 | 17.7 |
| 9 8 | 20 58.21 | −10 14.6 | 1.250 | 2.170 | 14.3 | 18.0 |
| 9 18 | 20 55.27 | −10 33.1 | 1.338 | 2.187 | 18.1 | 18.3 |
| **445478** 2010 $VF_{129}$ | | | 8 10.4 287°.63 | | 0°.0/10.4 17 | |
| 7 10 | 21 41.88 | −13 34.5 | 2.185 | 3.072 | 11.0 | 22.1 |
| 7 20 | 21 36.91 | −14 5.1 | 2.095 | 3.049 | 7.9 | 21.9 |
| 7 30 | 21 30.27 | −14 43.7 | 2.029 | 3.026 | 4.4 | 21.6 |
| 8 9 | 21 22.53 | −15 27.0 | 1.990 | 3.003 | 0.5 | 21.3 |
| 8 19 | 21 14.45 | −16 10.7 | 1.979 | 2.980 | 3.4 | 21.5 |
| 8 29 | 21 6.88 | −16 50.5 | 1.995 | 2.957 | 7.2 | 21.7 |
| 9 8 | 21 0.65 | −17 23.1 | 2.037 | 2.934 | 10.8 | 21.9 |
| 9 18 | 20 56.35 | −17 46.4 | 2.101 | 2.911 | 13.8 | 22.0 |

**85068** 1021 $T$-2 8 10.4 333°38 1°9/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.23 | − 9 39.2 | 1.166 | 2.072 | 17.0 | 18.9 |
| 7 20 | 21 37.37 | − 9 54.9 | 1.098 | 2.059 | 12.6 | 18.6 |
| 7 30 | 21 30.86 | −10 28.8 | 1.050 | 2.047 | 7.5 | 18.3 |
| 8 9 | 21 22.62 | −11 16.6 | 1.024 | 2.036 | 2.4 | 18.0 |
| 8 19 | 21 13.92 | −12 11.7 | 1.020 | 2.025 | 4.8 | 18.1 |
| 8 29 | 21 6.26 | −13 6.1 | 1.040 | 2.016 | 10.3 | 18.4 |
| 9 8 | 21 0.95 | −13 52.8 | 1.080 | 2.007 | 15.4 | 18.6 |
| 9 18 | 20 58.79 | −14 27.1 | 1.139 | 2.000 | 19.8 | 18.9 |

**348408** 2005 $JH_{98}$ 8 10.4 266°79 1°8/ 8.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.16 | −18 3.5 | 1.952 | 2.850 | 11.6 | 21.0 |
| 7 20 | 21 37.91 | −18 52.0 | 1.881 | 2.842 | 8.2 | 20.8 |
| 7 30 | 21 30.82 | −19 46.0 | 1.834 | 2.833 | 4.5 | 20.6 |
| 8 9 | 21 22.60 | −20 39.9 | 1.813 | 2.825 | 1.8 | 20.4 |
| 8 19 | 21 14.11 | −21 28.5 | 1.820 | 2.816 | 4.6 | 20.5 |
| 8 29 | 21 6.34 | −22 7.2 | 1.854 | 2.807 | 8.4 | 20.8 |
| 9 8 | 21 0.16 | −22 33.1 | 1.912 | 2.798 | 11.9 | 21.0 |
| 9 18 | 20 56.18 | −22 45.5 | 1.991 | 2.790 | 14.9 | 21.2 |

**360873** 2005 $ST_{24}$ 8 10.4 319°92 8°5/ 3.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.55 | −36 27.5 | 1.780 | 2.676 | 12.6 | 20.0 |
| 7 20 | 21 40.76 | −37 36.0 | 1.720 | 2.661 | 10.3 | 19.9 |
| 7 30 | 21 32.53 | −38 33.7 | 1.683 | 2.646 | 8.7 | 19.7 |
| 8 9 | 21 22.81 | −39 12.4 | 1.670 | 2.632 | 8.8 | 19.7 |
| 8 19 | 21 12.81 | −39 26.2 | 1.681 | 2.618 | 10.5 | 19.8 |
| 8 29 | 21 3.89 | −39 12.8 | 1.715 | 2.604 | 13.0 | 19.9 |
| 9 8 | 20 57.17 | −38 34.2 | 1.770 | 2.591 | 15.7 | 20.1 |
| 9 18 | 20 53.33 | −37 34.6 | 1.842 | 2.578 | 18.1 | 20.2 |

**397105** 2005 $UW_{516}$ 8 10.4 301°83 2°6/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.47 | − 5 16.0 | 2.109 | 2.973 | 12.3 | 21.1 |
| 7 20 | 21 35.80 | − 5 42.4 | 2.035 | 2.971 | 9.2 | 20.9 |
| 7 30 | 21 29.59 | − 6 23.1 | 1.985 | 2.969 | 5.9 | 20.7 |
| 8 9 | 21 22.45 | − 7 15.2 | 1.960 | 2.966 | 3.0 | 20.5 |
| 8 19 | 21 15.10 | − 8 14.7 | 1.963 | 2.964 | 3.6 | 20.6 |
| 8 29 | 21 8.36 | − 9 16.6 | 1.993 | 2.962 | 6.8 | 20.8 |
| 9 8 | 21 2.98 | −10 16.0 | 2.050 | 2.959 | 10.1 | 21.0 |
| 9 18 | 20 59.46 | −11 9.0 | 2.129 | 2.957 | 13.0 | 21.2 |

**392369** 2010 $GC_{144}$ 8 10.4 289°38 11°5/30.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.51 | −44 51.8 | 1.822 | 2.693 | 13.6 | 20.4 |
| 7 20 | 21 43.85 | −46 30.4 | 1.776 | 2.682 | 12.1 | 20.3 |
| 7 30 | 21 34.33 | −47 51.2 | 1.753 | 2.672 | 11.5 | 20.3 |
| 8 9 | 21 23.04 | −48 44.6 | 1.753 | 2.661 | 11.9 | 20.3 |
| 8 19 | 21 11.44 | −49 4.7 | 1.774 | 2.651 | 13.4 | 20.3 |
| 8 29 | 21 1.16 | −48 50.3 | 1.817 | 2.641 | 15.3 | 20.4 |
| 9 8 | 20 53.52 | −48 5.1 | 1.877 | 2.631 | 17.3 | 20.6 |
| 9 18 | 20 49.23 | −46 55.3 | 1.953 | 2.621 | 19.1 | 20.7 |

**508019** 2015 $BP_{356}$ 8 10.4 304°39 1°1/11.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.45 | − 4 59.0 | 1.295 | 2.184 | 16.9 | 20.3 |
| 7 20 | 21 36.81 | − 6 57.7 | 1.210 | 2.163 | 12.5 | 19.9 |
| 7 30 | 21 30.64 | − 9 30.5 | 1.147 | 2.142 | 7.4 | 19.6 |
| 8 9 | 21 22.62 | −12 29.4 | 1.109 | 2.121 | 1.8 | 19.2 |
| 8 19 | 21 13.88 | −15 40.2 | 1.097 | 2.101 | 4.8 | 19.3 |
| 8 29 | 21 5.83 | −18 45.5 | 1.112 | 2.081 | 10.7 | 19.6 |
| 9 8 | 20 59.86 | −21 30.3 | 1.151 | 2.062 | 16.1 | 19.8 |
| 9 18 | 20 56.95 | −23 45.4 | 1.210 | 2.043 | 20.6 | 20.1 |

**111014** 2001 $VN_{7}$ 8 10.4 266°64 0°7/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.46 | −11 43.5 | 2.061 | 2.945 | 11.7 | 20.3 |
| 7 20 | 21 37.27 | −12 5.8 | 1.989 | 2.940 | 8.5 | 20.1 |
| 7 30 | 21 30.42 | −12 37.1 | 1.940 | 2.936 | 4.8 | 19.9 |
| 8 9 | 21 22.57 | −13 14.1 | 1.918 | 2.931 | 1.1 | 19.6 |
| 8 19 | 21 14.52 | −13 52.7 | 1.924 | 2.927 | 3.3 | 19.8 |
| 8 29 | 21 7.14 | −14 29.0 | 1.957 | 2.922 | 7.1 | 20.0 |
| 9 8 | 21 1.21 | −14 59.4 | 2.015 | 2.918 | 10.6 | 20.2 |
| 9 18 | 20 57.28 | −15 21.8 | 2.095 | 2.913 | 13.6 | 20.4 |

**61135** 2000 $NT_{2}$ 8 10.4 3°79 1°1/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.31 | −15 12.4 | 1.297 | 2.209 | 15.3 | 18.3 |
| 7 20 | 21 37.84 | −15 57.7 | 1.241 | 2.208 | 10.8 | 18.1 |
| 7 30 | 21 30.97 | −16 53.7 | 1.207 | 2.208 | 5.8 | 17.8 |
| 8 9 | 21 22.65 | −17 53.2 | 1.196 | 2.209 | 1.2 | 17.5 |
| 8 19 | 21 14.09 | −18 48.8 | 1.209 | 2.211 | 5.1 | 17.8 |
| 8 29 | 21 6.66 | −19 33.6 | 1.246 | 2.213 | 10.1 | 18.1 |
| 9 8 | 21 1.47 | −20 3.6 | 1.305 | 2.216 | 14.6 | 18.3 |
| 9 18 | 20 59.15 | −20 17.3 | 1.383 | 2.219 | 18.3 | 18.6 |

**441422** 2008 $GN_{62}$ 8 10.4 42°10 8°2/ 4.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.15 | −38 45.1 | 2.004 | 2.888 | 12.0 | 19.8 |
| 7 20 | 21 42.17 | −39 37.4 | 1.964 | 2.894 | 9.9 | 19.7 |
| 7 30 | 21 33.09 | −40 16.2 | 1.948 | 2.901 | 8.4 | 19.6 |
| 8 9 | 21 22.89 | −40 35.2 | 1.956 | 2.908 | 8.4 | 19.7 |
| 8 19 | 21 12.74 | −40 30.7 | 1.989 | 2.915 | 9.7 | 19.8 |
| 8 29 | 21 3.82 | −40 2.2 | 2.045 | 2.922 | 11.8 | 19.9 |
| 9 8 | 20 57.04 | −39 12.8 | 2.124 | 2.929 | 13.9 | 20.1 |
| 9 18 | 20 52.90 | −38 6.7 | 2.221 | 2.937 | 15.9 | 20.2 |

**468405** 2016 $GP_{154}$ 8 10.4 141°43 2°2/ 8.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.74 | −16 54.4 | 1.442 | 2.346 | 14.5 | 21.0 |
| 7 20 | 21 40.84 | −18 6.0 | 1.388 | 2.352 | 10.3 | 20.7 |
| 7 30 | 21 32.56 | −19 26.0 | 1.357 | 2.357 | 5.6 | 20.5 |
| 8 9 | 21 22.85 | −20 46.1 | 1.351 | 2.362 | 2.2 | 20.3 |
| 8 19 | 21 12.93 | −21 57.6 | 1.371 | 2.367 | 5.7 | 20.5 |
| 8 29 | 21 4.13 | −22 54.0 | 1.416 | 2.371 | 10.3 | 20.8 |
| 9 8 | 20 57.56 | −23 31.9 | 1.484 | 2.375 | 14.4 | 21.0 |
| 9 18 | 20 53.85 | −23 51.0 | 1.571 | 2.379 | 17.8 | 21.3 |

**264410** 2000 $GC_{120}$ 8 10.4 160°70 0°7/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.10 | −11 18.4 | 1.903 | 2.783 | 12.7 | 22.0 |
| 7 20 | 21 39.89 | −11 47.9 | 1.839 | 2.789 | 9.2 | 21.8 |
| 7 30 | 21 31.87 | −12 27.4 | 1.799 | 2.794 | 5.2 | 21.5 |
| 8 9 | 21 22.77 | −13 13.0 | 1.785 | 2.798 | 1.1 | 21.3 |
| 8 19 | 21 13.50 | −13 59.7 | 1.800 | 2.802 | 3.5 | 21.5 |
| 8 29 | 21 5.07 | −14 42.9 | 1.842 | 2.806 | 7.6 | 21.7 |
| 9 8 | 20 58.32 | −15 18.9 | 1.909 | 2.809 | 11.2 | 21.9 |
| 9 18 | 20 53.80 | −15 45.5 | 1.999 | 2.811 | 14.3 | 22.2 |

**468871** 2013 $QR_{75}$ 8 10.4 6°18 2°1/11.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.07 | − 7 24.5 | 1.103 | 2.008 | 17.9 | 20.9 |
| 7 20 | 21 36.49 | − 8 10.4 | 1.048 | 2.008 | 13.2 | 20.6 |
| 7 30 | 21 30.34 | − 9 19.5 | 1.013 | 2.009 | 7.9 | 20.3 |
| 8 9 | 21 22.60 | −10 45.5 | 0.999 | 2.011 | 2.7 | 20.0 |
| 8 19 | 21 14.57 | −12 18.7 | 1.008 | 2.013 | 4.8 | 20.1 |
| 8 29 | 21 7.73 | −13 48.5 | 1.040 | 2.017 | 10.2 | 20.5 |
| 9 8 | 21 3.27 | −15 5.7 | 1.094 | 2.021 | 15.2 | 20.8 |
| 9 18 | 21 1.89 | −16 5.0 | 1.166 | 2.027 | 19.4 | 21.0 |

**20702** 1999 $VF_{195}$ 8 10.4 47°95 1°5/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.96 | −17 25.2 | 1.999 | 2.897 | 11.4 | 18.1 |
| 7 20 | 21 36.90 | −18 9.9 | 1.944 | 2.904 | 8.0 | 17.9 |
| 7 30 | 21 30.20 | −18 59.5 | 1.913 | 2.912 | 4.3 | 17.7 |
| 8 9 | 21 22.57 | −19 48.8 | 1.908 | 2.920 | 1.5 | 17.5 |
| 8 19 | 21 14.83 | −20 33.1 | 1.932 | 2.929 | 4.2 | 17.7 |
| 8 29 | 21 7.89 | −21 8.4 | 1.981 | 2.937 | 7.8 | 18.0 |
| 9 8 | 21 2.48 | −21 32.3 | 2.056 | 2.946 | 11.0 | 18.2 |
| 9 18 | 20 59.12 | −21 44.1 | 2.152 | 2.955 | 13.8 | 18.4 |

**417990** 2007 $TO_{284}$ 8 10.4 186°90 1°0/11.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.49 | −10 31.2 | 1.565 | 2.452 | 14.6 | 22.2 |
| 7 20 | 21 40.54 | −11 5.2 | 1.499 | 2.452 | 10.6 | 22.0 |
| 7 30 | 21 32.38 | −11 52.8 | 1.456 | 2.451 | 6.1 | 21.7 |
| 8 9 | 21 22.86 | −12 49.0 | 1.438 | 2.451 | 1.4 | 21.4 |
| 8 19 | 21 13.06 | −13 47.7 | 1.446 | 2.449 | 4.1 | 21.6 |
| 8 29 | 21 4.21 | −14 42.5 | 1.481 | 2.448 | 8.8 | 21.9 |
| 9 8 | 20 57.35 | −15 28.4 | 1.539 | 2.445 | 13.0 | 22.1 |
| 9 18 | 20 53.14 | −16 2.6 | 1.618 | 2.443 | 16.6 | 22.4 |

**131471** 2001 $RY_{46}$ 8 10.4 8°38 22°5/26.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 22 6.19 | −57 40.4 | 1.001 | 1.853 | 23.5 | 18.5 |
| 7 20 | 21 57.75 | −59 51.5 | 0.986 | 1.853 | 22.6 | 18.5 |
| 7 30 | 21 42.78 | −61 16.6 | 0.985 | 1.853 | 22.5 | 18.5 |
| 8 9 | 21 24.12 | −61 39.5 | 0.999 | 1.854 | 23.1 | 18.5 |
| 8 19 | 21 6.00 | −60 54.8 | 1.026 | 1.855 | 24.3 | 18.6 |
| 8 29 | 20 52.34 | −59 9.2 | 1.066 | 1.857 | 25.8 | 18.8 |
| 9 8 | 20 45.00 | −56 38.0 | 1.118 | 1.859 | 27.4 | 18.9 |
| 9 18 | 20 43.85 | −53 36.3 | 1.181 | 1.862 | 28.8 | 19.1 |

**20957** 4430 $T$-3 8 10.4 302°17 3°2/ 8.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.39 | −19 13.7 | 1.243 | 2.159 | 15.5 | 18.2 |
| 7 20 | 21 40.38 | −20 10.6 | 1.178 | 2.146 | 11.1 | 17.9 |
| 7 30 | 21 32.56 | −21 15.3 | 1.133 | 2.134 | 6.2 | 17.6 |
| 8 9 | 21 22.90 | −22 19.0 | 1.112 | 2.123 | 3.2 | 17.4 |
| 8 19 | 21 12.76 | −23 12.7 | 1.115 | 2.111 | 6.8 | 17.6 |
| 8 29 | 21 3.76 | −23 49.2 | 1.142 | 2.100 | 11.8 | 17.8 |
| 9 8 | 20 57.24 | −24 5.7 | 1.189 | 2.089 | 16.5 | 18.1 |
| 9 18 | 20 54.04 | −24 2.2 | 1.253 | 2.078 | 20.5 | 18.3 |

**22238** 3854 $T$-3 8 10.4 129°03 0°0/10.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.90 | −13 36.0 | 2.425 | 3.307 | 10.2 | 19.5 |
| 7 20 | 21 36.62 | −14 7.8 | 2.362 | 3.314 | 7.3 | 19.3 |
| 7 30 | 21 29.97 | −14 45.9 | 2.324 | 3.321 | 4.0 | 19.1 |
| 8 9 | 21 22.54 | −15 27.0 | 2.315 | 3.328 | 0.5 | 18.8 |
| 8 19 | 21 15.01 | −16 7.3 | 2.333 | 3.335 | 3.0 | 19.1 |
| 8 29 | 21 8.10 | −16 43.4 | 2.380 | 3.341 | 6.3 | 19.3 |
| 9 8 | 21 2.45 | −17 12.7 | 2.453 | 3.347 | 9.3 | 19.5 |
| 9 18 | 20 58.52 | −17 33.6 | 2.549 | 3.353 | 11.8 | 19.7 |

**436596** 2011 $KL_{3}$ 8 10.4 181°55 7°6/16.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.89 | + 7 2.6 | 1.914 | 2.720 | 15.6 | 20.9 |
| 7 20 | 21 37.68 | + 7 17.9 | 1.840 | 2.720 | 13.0 | 20.8 |
| 7 30 | 21 30.71 | + 7 10.1 | 1.787 | 2.721 | 10.4 | 20.6 |
| 8 9 | 21 22.65 | + 6 38.6 | 1.756 | 2.721 | 8.2 | 20.5 |
| 8 19 | 21 14.34 | + 5 45.5 | 1.751 | 2.720 | 7.7 | 20.4 |
| 8 29 | 21 6.73 | + 4 35.6 | 1.771 | 2.720 | 9.1 | 20.5 |
| 9 8 | 21 0.65 | + 3 15.8 | 1.816 | 2.719 | 11.6 | 20.7 |
| 9 18 | 20 56.69 | + 1 53.1 | 1.884 | 2.718 | 14.2 | 20.9 |

**428244** 2006 $YH_{22}$ 8 10.4 216°.03 0°.7/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.67 | −11 16.4 | 1.837 | 2.719 | 13.0 | 22.4 |
| 7 20 | 21 39.77 | −11 48.0 | 1.762 | 2.713 | 9.4 | 22.1 |
| 7 30 | 21 31.91 | −12 30.8 | 1.711 | 2.706 | 5.3 | 21.9 |
| 8 9 | 21 22.81 | −13 20.6 | 1.686 | 2.699 | 1.1 | 21.6 |
| 8 19 | 21 13.40 | −14 12.2 | 1.688 | 2.691 | 3.7 | 21.7 |
| 8 29 | 21 4.75 | −15 0.5 | 1.718 | 2.682 | 8.0 | 22.0 |
| 9 8 | 20 57.79 | −15 41.2 | 1.772 | 2.673 | 11.9 | 22.2 |
| 9 18 | 20 53.15 | −16 11.7 | 1.848 | 2.664 | 15.2 | 22.4 |

**377595** 2005 $QR_{53}$ 8 10.4 275°.68 0°.4/10.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.77 | −12 4.5 | 1.655 | 2.546 | 13.7 | 21.1 |
| 7 20 | 21 39.45 | −12 37.2 | 1.570 | 2.525 | 10.0 | 20.8 |
| 7 30 | 21 31.90 | −13 22.3 | 1.506 | 2.503 | 5.6 | 20.5 |
| 8 9 | 21 22.82 | −14 15.4 | 1.469 | 2.482 | 0.9 | 20.2 |
| 8 19 | 21 13.23 | −15 10.7 | 1.457 | 2.460 | 4.1 | 20.3 |
| 8 29 | 21 4.33 | −16 2.1 | 1.472 | 2.438 | 8.9 | 20.6 |
| 9 8 | 20 57.23 | −16 44.5 | 1.511 | 2.415 | 13.3 | 20.8 |
| 9 18 | 20 52.72 | −17 15.2 | 1.570 | 2.393 | 17.1 | 21.0 |

**393335** 2014 $BH_{40}$ 8 10.4 82°.62 1°.5/ 9.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.10 | −18 46.9 | 1.822 | 2.717 | 12.4 | 20.8 |
| 7 20 | 21 40.58 | −19 3.9 | 1.771 | 2.730 | 8.7 | 20.6 |
| 7 30 | 21 32.20 | −19 23.8 | 1.744 | 2.743 | 4.7 | 20.4 |
| 8 9 | 21 22.83 | −19 41.9 | 1.743 | 2.755 | 1.5 | 20.2 |
| 8 19 | 21 13.44 | −19 54.4 | 1.770 | 2.768 | 4.4 | 20.4 |
| 8 29 | 21 5.08 | −19 58.6 | 1.823 | 2.780 | 8.2 | 20.7 |
| 9 8 | 20 58.58 | −19 53.3 | 1.901 | 2.793 | 11.7 | 20.9 |
| 9 18 | 20 54.43 | −19 38.8 | 2.001 | 2.805 | 14.6 | 21.2 |

**42183** 2001 $CY_{29}$ 8 10.4 94°.03 2°.7/ 7.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.98 | −22 18.0 | 2.290 | 3.187 | 10.1 | 19.6 |
| 7 20 | 21 37.48 | −23 4.0 | 2.236 | 3.196 | 7.2 | 19.4 |
| 7 30 | 21 30.48 | −23 50.5 | 2.208 | 3.204 | 4.2 | 19.2 |
| 8 9 | 21 22.62 | −24 32.6 | 2.206 | 3.212 | 2.8 | 19.1 |
| 8 19 | 21 14.68 | −25 6.3 | 2.233 | 3.220 | 4.8 | 19.3 |
| 8 29 | 21 7.48 | −25 28.7 | 2.287 | 3.228 | 7.7 | 19.5 |
| 9 8 | 21 1.71 | −25 38.5 | 2.366 | 3.236 | 10.5 | 19.7 |
| 9 18 | 20 57.85 | −25 36.2 | 2.466 | 3.244 | 12.9 | 19.9 |

**254978** 2005 $ST_{252}$ 8 10.4 317°.40 6°.2/ 5.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.01 | −30 43.1 | 1.892 | 2.794 | 11.7 | 20.2 |
| 7 20 | 21 39.42 | −31 42.9 | 1.832 | 2.785 | 8.9 | 20.0 |
| 7 30 | 21 31.73 | −32 37.0 | 1.795 | 2.776 | 6.7 | 19.9 |
| 8 9 | 21 22.79 | −33 18.5 | 1.783 | 2.767 | 6.3 | 19.9 |
| 8 19 | 21 13.62 | −33 41.8 | 1.797 | 2.758 | 8.2 | 19.9 |
| 8 29 | 21 5.37 | −33 44.3 | 1.836 | 2.750 | 11.0 | 20.1 |
| 9 8 | 20 59.01 | −33 26.4 | 1.897 | 2.742 | 13.8 | 20.3 |
| 9 18 | 20 55.16 | −32 50.6 | 1.977 | 2.734 | 16.3 | 20.4 |

**453218** 2008 $HZ_{29}$ 8 10.4 23°.00 6°.0/ 5.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.70 | −29 30.0 | 1.863 | 2.769 | 11.6 | 20.4 |
| 7 20 | 21 37.68 | −30 49.6 | 1.818 | 2.775 | 8.7 | 20.2 |
| 7 30 | 21 30.73 | −32 4.1 | 1.798 | 2.781 | 6.5 | 20.1 |
| 8 9 | 21 22.66 | −33 6.1 | 1.803 | 2.787 | 6.2 | 20.1 |
| 8 19 | 21 14.46 | −33 49.8 | 1.834 | 2.794 | 8.1 | 20.2 |
| 8 29 | 21 7.20 | −34 12.1 | 1.889 | 2.801 | 10.8 | 20.4 |
| 9 8 | 21 1.78 | −34 13.2 | 1.966 | 2.809 | 13.5 | 20.6 |
| 9 18 | 20 58.74 | −33 55.3 | 2.062 | 2.817 | 15.8 | 20.8 |

**507240** 2011 $BP_{17}$ 8 10.4 199°.29 0°.7/ 9.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.80 | −14 43.9 | 1.743 | 2.635 | 13.0 | 21.8 |
| 7 20 | 21 39.92 | −15 25.6 | 1.676 | 2.633 | 9.3 | 21.5 |
| 7 30 | 21 32.00 | −16 15.8 | 1.632 | 2.631 | 5.0 | 21.3 |
| 8 9 | 21 22.83 | −17 9.2 | 1.615 | 2.629 | 0.8 | 21.0 |
| 8 19 | 21 13.41 | −18 0.0 | 1.625 | 2.625 | 4.2 | 21.2 |
| 8 29 | 21 4.85 | −18 43.0 | 1.661 | 2.622 | 8.6 | 21.5 |
| 9 8 | 20 58.11 | −19 14.7 | 1.722 | 2.618 | 12.5 | 21.7 |
| 9 18 | 20 53.81 | −19 33.7 | 1.804 | 2.614 | 15.7 | 21.9 |

**46387** 2001 $XE_{215}$ 8 10.4 218°.03 0°.1/10.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.78 | −12 0.9 | 2.118 | 2.998 | 11.6 | 19.5 |
| 7 20 | 21 38.28 | −13 4.8 | 2.039 | 2.990 | 8.3 | 19.3 |
| 7 30 | 21 31.05 | −14 19.6 | 1.985 | 2.981 | 4.5 | 19.1 |
| 8 9 | 21 22.72 | −15 40.3 | 1.958 | 2.972 | 0.5 | 18.7 |
| 8 19 | 21 14.07 | −17 1.0 | 1.961 | 2.962 | 3.6 | 19.0 |
| 8 29 | 21 6.02 | −18 15.7 | 1.992 | 2.951 | 7.5 | 19.2 |
| 9 8 | 20 59.39 | −19 19.9 | 2.049 | 2.940 | 11.0 | 19.4 |
| 9 18 | 20 54.78 | −20 11.0 | 2.129 | 2.928 | 14.0 | 19.6 |

**133069** 2003 $HU_{29}$ 8 10.4 32°.07 6°.2/ 7.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.81 | −25 9.5 | 1.005 | 1.932 | 17.2 | 18.1 |
| 7 20 | 21 41.49 | −26 14.5 | 0.970 | 1.942 | 12.4 | 17.9 |
| 7 30 | 21 33.07 | −27 16.6 | 0.955 | 1.952 | 8.0 | 17.7 |
| 8 9 | 21 22.96 | −28 4.6 | 0.961 | 1.964 | 6.3 | 17.7 |
| 8 19 | 21 12.88 | −28 30.1 | 0.990 | 1.976 | 9.3 | 17.9 |
| 8 29 | 21 4.61 | −28 29.7 | 1.039 | 1.989 | 13.7 | 18.2 |
| 9 8 | 20 59.40 | −28 5.0 | 1.108 | 2.003 | 17.9 | 18.5 |
| 9 18 | 20 57.76 | −27 20.6 | 1.193 | 2.017 | 21.3 | 18.7 |

**163833** 2003 $SE_{30}$ 8 10.4 3°.28 1°.0/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.91 | −11 2.8 | 1.545 | 2.439 | 14.3 | 20.2 |
| 7 20 | 21 37.98 | −11 25.2 | 1.483 | 2.439 | 10.4 | 20.0 |
| 7 30 | 21 30.97 | −11 59.9 | 1.442 | 2.439 | 5.9 | 19.7 |
| 8 9 | 21 22.71 | −12 42.7 | 1.426 | 2.439 | 1.5 | 19.4 |
| 8 19 | 21 14.23 | −13 28.3 | 1.436 | 2.440 | 4.0 | 19.6 |
| 8 29 | 21 6.68 | −14 11.0 | 1.471 | 2.441 | 8.6 | 19.9 |
| 9 8 | 21 1.04 | −14 46.3 | 1.530 | 2.442 | 12.7 | 20.1 |
| 9 18 | 20 57.91 | −15 11.4 | 1.609 | 2.444 | 16.2 | 20.3 |

**380226** 2001 $RB_{145}$ 8 10.4 327°.82 6°.9/ 6.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.41 | −27 53.4 | 1.223 | 2.144 | 15.3 | 19.6 |
| 7 20 | 21 40.56 | −28 52.6 | 1.160 | 2.127 | 11.5 | 19.4 |
| 7 30 | 21 32.73 | −29 48.4 | 1.119 | 2.111 | 8.0 | 19.1 |
| 8 9 | 21 22.95 | −30 30.5 | 1.099 | 2.095 | 7.1 | 19.0 |
| 8 19 | 21 12.73 | −30 50.3 | 1.102 | 2.081 | 9.8 | 19.1 |
| 8 29 | 21 3.79 | −30 43.5 | 1.127 | 2.068 | 13.9 | 19.3 |
| 9 8 | 20 57.57 | −30 10.8 | 1.172 | 2.055 | 18.0 | 19.5 |
| 9 18 | 20 54.84 | −29 16.3 | 1.233 | 2.044 | 21.6 | 19.8 |

**312853** 2011 $UM_{86}$ 8 10.4 59°.64 5°.0/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.63 | + 0 26.8 | 2.115 | 2.952 | 13.3 | 20.2 |
| 7 20 | 21 36.63 | + 0 34.9 | 2.042 | 2.953 | 10.5 | 20.1 |
| 7 30 | 21 30.08 | + 0 26.2 | 1.992 | 2.954 | 7.7 | 19.9 |
| 8 9 | 21 22.60 | + 0 1.7 | 1.967 | 2.955 | 5.4 | 19.8 |
| 8 19 | 21 14.93 | − 0 36.3 | 1.968 | 2.956 | 5.3 | 19.8 |
| 8 29 | 21 7.90 | − 1 23.8 | 1.996 | 2.957 | 7.4 | 19.9 |
| 9 8 | 21 2.24 | − 2 15.8 | 2.050 | 2.958 | 10.2 | 20.1 |
| 9 18 | 20 58.46 | − 3 7.6 | 2.126 | 2.959 | 12.9 | 20.3 |

**13219** Cailletet 8 10.4 300°.31 3°.6/12.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.08 | − 5 51.1 | 2.246 | 3.100 | 12.0 | 17.6 |
| 7 20 | 21 39.75 | − 5 8.4 | 2.164 | 3.091 | 9.2 | 17.4 |
| 7 30 | 21 31.78 | − 4 34.9 | 2.105 | 3.082 | 6.2 | 17.2 |
| 8 9 | 21 22.82 | − 4 10.7 | 2.074 | 3.073 | 3.9 | 17.1 |
| 8 19 | 21 13.62 | − 3 55.0 | 2.071 | 3.065 | 4.4 | 17.1 |
| 8 29 | 21 5.04 | − 3 46.3 | 2.096 | 3.056 | 7.1 | 17.3 |
| 9 8 | 20 57.85 | − 3 42.1 | 2.147 | 3.048 | 10.1 | 17.4 |
| 9 18 | 20 52.60 | − 3 39.9 | 2.222 | 3.040 | 12.9 | 17.6 |

**53973** 2000 $GB_{67}$ 8 10.4 176°.64 1°.5/ 9.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.19 | −17 38.3 | 1.875 | 2.767 | 12.3 | 20.3 |
| 7 20 | 21 40.77 | −18 16.3 | 1.811 | 2.769 | 8.7 | 20.1 |
| 7 30 | 21 32.41 | −18 59.2 | 1.772 | 2.771 | 4.7 | 19.9 |
| 8 9 | 21 22.90 | −19 41.6 | 1.760 | 2.772 | 1.5 | 19.6 |
| 8 19 | 21 13.20 | −20 18.6 | 1.775 | 2.772 | 4.5 | 19.9 |
| 8 29 | 21 4.39 | −20 46.1 | 1.817 | 2.772 | 8.4 | 20.1 |
| 9 8 | 20 57.36 | −21 2.0 | 1.884 | 2.771 | 12.0 | 20.3 |
| 9 18 | 20 52.69 | −21 5.8 | 1.973 | 2.770 | 15.0 | 20.5 |

**436849** 2012 $SJ_{26}$ 8 10.4 322°.91 6°.2/15.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.60 | + 2 11.1 | 1.589 | 2.437 | 16.4 | 21.1 |
| 7 20 | 21 36.37 | + 2 3.7 | 1.514 | 2.429 | 13.2 | 20.9 |
| 7 30 | 21 30.14 | + 1 31.6 | 1.458 | 2.422 | 9.8 | 20.7 |
| 8 9 | 21 22.62 | + 0 35.6 | 1.426 | 2.415 | 6.9 | 20.5 |
| 8 19 | 21 14.76 | − 0 40.3 | 1.417 | 2.408 | 6.4 | 20.5 |
| 8 29 | 21 7.66 | − 2 9.2 | 1.434 | 2.402 | 9.0 | 20.6 |
| 9 8 | 21 2.28 | − 3 42.4 | 1.475 | 2.395 | 12.5 | 20.8 |
| 9 18 | 20 59.30 | − 5 12.0 | 1.538 | 2.390 | 16.0 | 21.0 |

**320015** 2007 $DG_{56}$ 8 10.4 230°.31 0°.2/10.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.70 | −12 48.0 | 1.871 | 2.756 | 12.7 | 22.0 |
| 7 20 | 21 39.81 | −13 19.3 | 1.793 | 2.746 | 9.1 | 21.8 |
| 7 30 | 21 31.96 | −14 0.3 | 1.739 | 2.736 | 5.1 | 21.5 |
| 8 9 | 21 22.85 | −14 46.6 | 1.711 | 2.725 | 0.7 | 21.2 |
| 8 19 | 21 13.41 | −15 33.4 | 1.712 | 2.714 | 3.8 | 21.4 |
| 8 29 | 21 4.70 | −16 15.6 | 1.739 | 2.702 | 8.1 | 21.6 |
| 9 8 | 20 57.66 | −16 49.6 | 1.791 | 2.690 | 11.9 | 21.8 |
| 9 18 | 20 52.92 | −17 13.1 | 1.865 | 2.677 | 15.2 | 22.0 |

**260143** 2004 $QQ_{27}$ 8 10.4 329°.39 0°.2/10.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.69 | −10 15.8 | 1.811 | 2.702 | 12.7 | 19.7 |
| 7 20 | 21 34.89 | −11 31.2 | 1.733 | 2.689 | 9.2 | 19.5 |
| 7 30 | 21 29.30 | −13 2.0 | 1.679 | 2.676 | 5.1 | 19.2 |
| 8 9 | 21 22.54 | −14 42.4 | 1.651 | 2.664 | 0.7 | 18.8 |
| 8 19 | 21 15.43 | −16 24.9 | 1.650 | 2.653 | 3.8 | 19.1 |
| 8 29 | 21 8.95 | −18 1.7 | 1.676 | 2.641 | 8.1 | 19.3 |
| 9 8 | 21 3.99 | −19 26.4 | 1.727 | 2.631 | 12.0 | 19.5 |
| 9 18 | 21 1.18 | −20 35.0 | 1.800 | 2.621 | 15.3 | 19.7 |

**383252** 2006 $BW_{283}$ 8 10.4 313°.35 3°.5/13.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.84 | − 0 25.1 | 1.687 | 2.542 | 15.2 | 20.7 |
| 7 20 | 21 36.46 | − 1 40.2 | 1.611 | 2.539 | 11.8 | 20.5 |
| 7 30 | 21 30.16 | − 3 20.8 | 1.557 | 2.535 | 7.8 | 20.2 |
| 8 9 | 21 22.65 | − 5 22.6 | 1.528 | 2.532 | 4.2 | 20.0 |
| 8 19 | 21 14.81 | − 7 37.3 | 1.527 | 2.529 | 4.3 | 20.0 |
| 8 29 | 21 7.69 | − 9 54.8 | 1.554 | 2.525 | 8.0 | 20.2 |
| 9 8 | 21 2.22 | −12 5.1 | 1.607 | 2.522 | 12.0 | 20.5 |
| 9 18 | 20 59.04 | −14 0.7 | 1.683 | 2.520 | 15.5 | 20.7 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **476856** 2008 $UW_{336}$ | | | 8 10.4 245°.39 | 12°.0/20.9 16 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.98 | +18 8.5 | 1.955 | 2.684 | 17.8 | 21.1 |
| 7 20 | 21 37.87 | +19 6.5 | 1.879 | 2.681 | 16.0 | 21.0 |
| 7 30 | 21 30.91 | +19 36.8 | 1.821 | 2.677 | 14.2 | 20.8 |
| 8 9 | 21 22.74 | +19 35.7 | 1.782 | 2.673 | 12.7 | 20.7 |
| 8 19 | 21 14.24 | +19 2.5 | 1.765 | 2.669 | 12.0 | 20.7 |
| 8 29 | 21 6.38 | +17 59.9 | 1.770 | 2.665 | 12.3 | 20.7 |
| 9 8 | 21 0.06 | +16 34.6 | 1.797 | 2.661 | 13.6 | 20.8 |
| 9 18 | 20 55.94 | +14 55.0 | 1.846 | 2.657 | 15.4 | 20.9 |
| **520161** 2014 $CV_{25}$ | | | 8 10.4 176°.11 | 0°.7/10.9 18 | | |
| 7 10 | 21 46.32 | −12 54.9 | 2.032 | 2.912 | 12.0 | 21.7 |
| 7 20 | 21 40.00 | −12 56.9 | 1.963 | 2.913 | 8.6 | 21.5 |
| 7 30 | 21 31.94 | −13 5.9 | 1.919 | 2.914 | 4.9 | 21.3 |
| 8 9 | 21 22.86 | −13 19.1 | 1.902 | 2.915 | 1.0 | 21.0 |
| 8 19 | 21 13.64 | −13 33.2 | 1.913 | 2.915 | 3.4 | 21.2 |
| 8 29 | 21 5.20 | −13 45.4 | 1.951 | 2.915 | 7.2 | 21.4 |
| 9 8 | 20 58.35 | −13 53.2 | 2.015 | 2.915 | 10.7 | 21.6 |
| 9 18 | 20 53.63 | −13 55.2 | 2.102 | 2.914 | 13.7 | 21.8 |
| **128875** 2004 $SQ_{44}$ | | | 8 10.4 53°.02 | 0°.9/10.9 18 | | |
| 7 10 | 21 45.81 | −12 6.8 | 1.409 | 2.306 | 15.3 | 19.2 |
| 7 20 | 21 39.99 | −12 21.1 | 1.364 | 2.322 | 11.0 | 19.0 |
| 7 30 | 21 32.01 | −12 46.5 | 1.341 | 2.338 | 6.1 | 18.8 |
| 8 9 | 21 22.86 | −13 18.3 | 1.342 | 2.355 | 1.3 | 18.5 |
| 8 19 | 21 13.72 | −13 51.3 | 1.369 | 2.373 | 4.2 | 18.7 |
| 8 29 | 21 5.80 | −14 20.4 | 1.421 | 2.390 | 8.8 | 19.1 |
| 9 8 | 21 0.04 | −14 41.9 | 1.496 | 2.408 | 12.9 | 19.3 |
| 9 18 | 20 56.97 | −14 54.0 | 1.591 | 2.426 | 16.4 | 19.6 |
| **82838** 2001 $QU_{48}$ | | | 8 10.4 51°.42 | 0°.8/10.9 17 | | |
| 7 10 | 21 44.62 | −11 8.0 | 1.291 | 2.192 | 16.1 | 19.5 |
| 7 20 | 21 39.32 | −11 43.7 | 1.248 | 2.208 | 11.6 | 19.3 |
| 7 30 | 21 31.71 | −12 33.4 | 1.226 | 2.224 | 6.5 | 19.1 |
| 8 9 | 21 22.84 | −13 30.8 | 1.227 | 2.240 | 1.3 | 18.8 |
| 8 19 | 21 13.94 | −14 28.8 | 1.253 | 2.257 | 4.4 | 19.0 |
| 8 29 | 21 6.30 | −15 20.6 | 1.304 | 2.274 | 9.3 | 19.4 |
| 9 8 | 21 0.93 | −16 1.2 | 1.377 | 2.292 | 13.7 | 19.7 |
| 9 18 | 20 58.37 | −16 28.4 | 1.470 | 2.309 | 17.2 | 20.0 |
| **291339** 2006 $BU_{217}$ | | | 8 10.4 82°.40 | 5°.2/14.1 17 | | |
| 7 10 | 21 46.92 | − 0 53.5 | 1.797 | 2.640 | 15.0 | 20.3 |
| 7 20 | 21 40.37 | − 0 33.9 | 1.749 | 2.666 | 11.7 | 20.2 |
| 7 30 | 21 32.09 | − 0 32.1 | 1.724 | 2.690 | 8.3 | 20.0 |
| 8 9 | 21 22.89 | − 0 46.8 | 1.723 | 2.715 | 5.6 | 19.9 |
| 8 19 | 21 13.72 | − 1 15.2 | 1.750 | 2.739 | 5.6 | 20.0 |
| 8 29 | 21 5.53 | − 1 52.7 | 1.802 | 2.763 | 8.0 | 20.1 |
| 9 8 | 20 59.12 | − 2 34.1 | 1.880 | 2.786 | 11.0 | 20.4 |
| 9 18 | 20 54.96 | − 3 14.7 | 1.980 | 2.810 | 13.8 | 20.6 |
| **291388** 2006 $CM_{38}$ | | | 8 10.4 71°.54 | 0°.9/ 9.9 18 | | |
| 7 10 | 21 49.19 | −17 43.2 | 1.650 | 2.545 | 13.5 | 19.8 |
| 7 20 | 21 42.22 | −17 41.1 | 1.597 | 2.556 | 9.6 | 19.6 |
| 7 30 | 21 33.18 | −17 42.5 | 1.568 | 2.567 | 5.2 | 19.4 |
| 8 9 | 21 23.03 | −17 43.4 | 1.564 | 2.578 | 1.0 | 19.1 |
| 8 19 | 21 12.88 | −17 40.5 | 1.588 | 2.589 | 4.3 | 19.4 |
| 8 29 | 21 3.89 | −17 31.5 | 1.638 | 2.600 | 8.6 | 19.6 |
| 9 8 | 20 56.97 | −17 15.3 | 1.712 | 2.611 | 12.4 | 19.9 |
| 9 18 | 20 52.64 | −16 52.0 | 1.808 | 2.622 | 15.5 | 20.1 |
| **243097** Batavia | | | 8 10.4 16°.48 | 4°.2/13.4 17 | | |
| 7 10 | 21 43.09 | − 3 18.8 | 1.731 | 2.594 | 14.6 | 20.6 |
| 7 20 | 21 37.94 | − 3 14.5 | 1.664 | 2.594 | 11.3 | 20.4 |
| 7 30 | 21 30.92 | − 3 27.2 | 1.618 | 2.595 | 7.7 | 20.2 |
| 8 9 | 21 22.76 | − 3 55.4 | 1.596 | 2.596 | 4.7 | 20.0 |
| 8 19 | 21 14.39 | − 4 35.5 | 1.601 | 2.597 | 4.9 | 20.0 |
| 8 29 | 21 6.82 | − 5 22.7 | 1.631 | 2.599 | 8.1 | 20.2 |
| 9 8 | 21 0.94 | − 6 11.4 | 1.686 | 2.600 | 11.6 | 20.4 |
| 9 18 | 20 57.33 | − 6 56.7 | 1.762 | 2.602 | 14.8 | 20.6 |
| **43464** 2001 $AA_{9}$ | | | 8 10.4 344°.96 | 5°.7/13.2 18 | | R |
| 7 10 | 21 42.73 | − 4 13.7 | 1.116 | 2.008 | 18.8 | 18.0 |
| 7 20 | 21 38.49 | − 3 41.3 | 1.053 | 2.000 | 14.6 | 17.7 |
| 7 30 | 21 31.55 | − 3 30.5 | 1.008 | 1.993 | 10.0 | 17.5 |
| 8 9 | 21 22.87 | − 3 41.2 | 0.984 | 1.987 | 6.2 | 17.2 |
| 8 19 | 21 13.77 | − 4 10.3 | 0.983 | 1.982 | 6.6 | 17.2 |
| 8 29 | 21 5.80 | − 4 51.5 | 1.003 | 1.978 | 10.8 | 17.5 |
| 9 8 | 21 0.27 | − 5 36.9 | 1.044 | 1.975 | 15.4 | 17.7 |
| 9 18 | 20 57.96 | − 6 19.3 | 1.103 | 1.973 | 19.6 | 18.0 |
| **522738** 2016 $LD_{64}$ | | | 8 10.4 27°.47 | 0°.9/ 9.8 17 | | |
| 7 10 | 21 43.41 | −14 9.2 | 1.468 | 2.371 | 14.4 | 21.0 |
| 7 20 | 21 38.47 | −15 7.8 | 1.410 | 2.372 | 10.2 | 20.8 |
| 7 30 | 21 31.32 | −16 17.7 | 1.374 | 2.375 | 5.5 | 20.5 |
| 8 9 | 21 22.82 | −17 31.8 | 1.364 | 2.377 | 1.0 | 20.2 |
| 8 19 | 21 14.10 | −18 42.5 | 1.379 | 2.380 | 4.7 | 20.5 |
| 8 29 | 21 6.37 | −19 42.7 | 1.419 | 2.382 | 9.5 | 20.8 |
| 9 8 | 21 0.69 | −20 28.0 | 1.482 | 2.385 | 13.6 | 21.0 |
| 9 18 | 20 57.66 | −20 56.6 | 1.565 | 2.389 | 17.1 | 21.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **255882** 2006 $SG_{259}$ | | | 8 10.4 82°.31 | 1°.4/11.3 17 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.69 | −10 17.2 | 1.431 | 2.321 | 15.5 | 20.8 |
| 7 20 | 21 40.65 | −10 38.8 | 1.382 | 2.335 | 11.2 | 20.5 |
| 7 30 | 21 32.41 | −11 13.8 | 1.355 | 2.350 | 6.5 | 20.3 |
| 8 9 | 21 22.95 | −11 57.3 | 1.352 | 2.364 | 1.8 | 20.0 |
| 8 19 | 21 13.43 | −12 43.6 | 1.375 | 2.378 | 4.2 | 20.2 |
| 8 29 | 21 5.09 | −13 26.7 | 1.423 | 2.393 | 8.8 | 20.6 |
| 9 8 | 20 58.91 | −14 2.1 | 1.495 | 2.407 | 13.0 | 20.8 |
| 9 18 | 20 55.45 | −14 27.3 | 1.588 | 2.420 | 16.5 | 21.1 |
| **439421** 2013 $CD_{202}$ | | | 8 10.4 299°.65 | 0°.6/10.9 18 | | |
| 7 10 | 21 40.70 | −10 6.6 | 1.875 | 2.760 | 12.6 | 21.1 |
| 7 20 | 21 36.28 | −11 0.8 | 1.795 | 2.748 | 9.1 | 20.9 |
| 7 30 | 21 30.06 | −12 8.8 | 1.740 | 2.735 | 5.2 | 20.6 |
| 8 9 | 21 22.67 | −13 25.7 | 1.710 | 2.723 | 1.1 | 20.3 |
| 8 19 | 21 14.96 | −14 45.6 | 1.708 | 2.711 | 3.6 | 20.5 |
| 8 29 | 21 7.87 | −16 1.9 | 1.733 | 2.699 | 7.8 | 20.7 |
| 9 8 | 21 2.29 | −17 9.1 | 1.782 | 2.687 | 11.6 | 20.9 |
| 9 18 | 20 58.84 | −18 3.6 | 1.854 | 2.676 | 14.9 | 21.1 |
| **165267** 2000 $SO_{243}$ | | | 8 10.4 231°.61 | 3°.9/ 7.9 18 | | |
| 7 10 | 21 48.75 | −22 22.1 | 1.517 | 2.422 | 13.9 | 19.8 |
| 7 20 | 21 42.42 | −23 17.2 | 1.452 | 2.415 | 10.0 | 19.6 |
| 7 30 | 21 33.56 | −24 14.6 | 1.411 | 2.408 | 5.9 | 19.3 |
| 8 9 | 21 23.12 | −25 6.2 | 1.395 | 2.401 | 3.9 | 19.2 |
| 8 19 | 21 12.34 | −25 44.8 | 1.404 | 2.393 | 6.8 | 19.3 |
| 8 29 | 21 2.64 | −26 5.7 | 1.439 | 2.384 | 11.0 | 19.6 |
| 9 8 | 20 55.20 | −26 7.7 | 1.495 | 2.376 | 14.9 | 19.8 |
| 9 18 | 20 50.74 | −25 52.3 | 1.571 | 2.367 | 18.3 | 20.0 |
| **159095** 2004 $TM_{317}$ | | | 8 10.4 59°.52 | 5°.7/14.5 17 | | |
| 7 10 | 21 44.23 | − 0 4.4 | 1.523 | 2.378 | 16.6 | 19.3 |
| 7 20 | 21 38.77 | + 0 4.6 | 1.473 | 2.396 | 13.1 | 19.1 |
| 7 30 | 21 31.34 | − 0 8.3 | 1.445 | 2.414 | 9.3 | 18.9 |
| 8 9 | 21 22.83 | − 0 41.4 | 1.440 | 2.432 | 6.3 | 18.8 |
| 8 19 | 21 14.26 | − 1 30.6 | 1.459 | 2.451 | 6.1 | 18.8 |
| 8 29 | 21 6.74 | − 2 29.5 | 1.504 | 2.470 | 8.8 | 19.0 |
| 9 8 | 21 1.15 | − 3 31.3 | 1.573 | 2.489 | 12.2 | 19.3 |
| 9 18 | 20 58.02 | − 4 29.8 | 1.662 | 2.508 | 15.3 | 19.5 |
| **210628** 2000 $EG_{150}$ | | | 8 10.4 218°.40 | 7°.2/18.6 18 | | |
| 7 10 | 21 42.10 | +12 29.8 | 2.730 | 3.476 | 12.9 | 21.5 |
| 7 20 | 21 36.82 | +12 30.3 | 2.635 | 3.465 | 11.1 | 21.4 |
| 7 30 | 21 30.18 | +12 10.5 | 2.560 | 3.454 | 9.3 | 21.3 |
| 8 9 | 21 22.70 | +11 29.8 | 2.510 | 3.442 | 7.8 | 21.1 |
| 8 19 | 21 14.95 | +10 29.3 | 2.486 | 3.429 | 7.2 | 21.1 |
| 8 29 | 21 7.63 | + 9 12.4 | 2.490 | 3.416 | 7.9 | 21.1 |
| 9 8 | 21 1.38 | + 7 44.2 | 2.519 | 3.402 | 9.5 | 21.2 |
| 9 18 | 20 56.67 | + 6 10.5 | 2.574 | 3.387 | 11.5 | 21.3 |
| **86719** 2000 $GA_{19}$ | | | 8 10.4 137°.03 | 0°.5/10.8 17 | | |
| 7 10 | 21 46.78 | −12 14.0 | 1.802 | 2.686 | 13.1 | 20.7 |
| 7 20 | 21 40.46 | −12 40.7 | 1.744 | 2.696 | 9.4 | 20.5 |
| 7 30 | 21 32.25 | −13 16.9 | 1.709 | 2.705 | 5.3 | 20.3 |
| 8 9 | 21 22.95 | −13 58.0 | 1.701 | 2.714 | 0.9 | 20.0 |
| 8 19 | 21 13.54 | −14 39.4 | 1.720 | 2.722 | 3.7 | 20.2 |
| 8 29 | 21 5.06 | −15 16.5 | 1.766 | 2.730 | 7.9 | 20.5 |
| 9 8 | 20 58.36 | −15 45.9 | 1.837 | 2.738 | 11.6 | 20.7 |
| 9 18 | 20 54.00 | −16 5.7 | 1.930 | 2.745 | 14.7 | 20.9 |
| **440836** 2006 $SP_{16}$ | | | 8 10.4 290°.85 | 1°.1/ 9.7 17 | | |
| 7 10 | 21 44.88 | −17 13.4 | 1.956 | 2.850 | 11.8 | 21.7 |
| 7 20 | 21 39.32 | −17 35.9 | 1.865 | 2.824 | 8.4 | 21.5 |
| 7 30 | 21 31.78 | −18 3.8 | 1.798 | 2.797 | 4.6 | 21.2 |
| 8 9 | 21 22.92 | −18 32.9 | 1.758 | 2.771 | 1.1 | 20.9 |
| 8 19 | 21 13.62 | −18 58.7 | 1.745 | 2.744 | 4.2 | 21.1 |
| 8 29 | 21 4.93 | −19 17.4 | 1.759 | 2.718 | 8.3 | 21.3 |
| 9 8 | 20 57.82 | −19 26.4 | 1.798 | 2.691 | 12.2 | 21.5 |
| 9 18 | 20 52.97 | −19 24.6 | 1.857 | 2.664 | 15.5 | 21.6 |
| **94509** 2001 $UF_{81}$ | | | 8 10.4 72°.86 | 5°.4/14.0 18 | | |
| 7 10 | 21 48.05 | − 1 1.8 | 1.233 | 2.100 | 19.0 | 18.3 |
| 7 20 | 21 41.66 | − 1 13.9 | 1.197 | 2.129 | 14.6 | 18.2 |
| 7 30 | 21 32.94 | − 1 51.4 | 1.180 | 2.157 | 9.9 | 18.0 |
| 8 9 | 21 23.03 | − 2 50.3 | 1.186 | 2.186 | 6.0 | 17.8 |
| 8 19 | 21 13.24 | − 4 3.7 | 1.217 | 2.214 | 6.0 | 17.9 |
| 8 29 | 21 4.90 | − 5 22.5 | 1.271 | 2.242 | 9.5 | 18.2 |
| 9 8 | 20 58.97 | − 6 38.4 | 1.349 | 2.269 | 13.5 | 18.5 |
| 9 18 | 20 55.96 | − 7 44.9 | 1.447 | 2.296 | 17.0 | 18.8 |
| **523564** 2018 $AF_{14}$ | | | 8 10.4 283°.09 | 4°.8/12.9 18 | | |
| 7 10 | 21 47.00 | − 4 14.7 | 1.770 | 2.629 | 14.5 | 21.1 |
| 7 20 | 21 40.85 | − 3 31.6 | 1.687 | 2.615 | 11.3 | 20.8 |
| 7 30 | 21 32.61 | − 3 1.6 | 1.626 | 2.602 | 7.9 | 20.6 |
| 8 9 | 21 23.03 | − 2 45.1 | 1.591 | 2.588 | 5.1 | 20.4 |
| 8 19 | 21 13.05 | − 2 41.1 | 1.581 | 2.574 | 5.6 | 20.4 |
| 8 29 | 21 3.79 | − 2 47.2 | 1.598 | 2.561 | 8.7 | 20.6 |
| 9 8 | 20 56.25 | − 2 59.4 | 1.640 | 2.547 | 12.3 | 20.7 |
| 9 18 | 20 51.14 | − 3 13.9 | 1.703 | 2.534 | 15.6 | 20.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **326547** 2002 $PV_{47}$ | | | 8 10.4 312°.32 | 7°.2/15.5 17 | | R |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 39.58 | + 3 5.2 | 1.307 | 2.165 | 18.6 | 19.9 |
| 7 20 | 21 36.17 | + 2 54.6 | 1.221 | 2.142 | 15.2 | 19.6 |
| 7 30 | 21 30.33 | + 2 12.2 | 1.153 | 2.119 | 11.4 | 19.3 |
| 8 9 | 21 22.77 | + 0 57.5 | 1.106 | 2.097 | 8.1 | 19.1 |
| 8 19 | 21 14.54 | − 0 45.7 | 1.082 | 2.075 | 7.5 | 19.0 |
| 8 29 | 21 7.03 | − 2 48.1 | 1.081 | 2.053 | 10.5 | 19.1 |
| 9 8 | 21 1.51 | − 4 57.3 | 1.103 | 2.033 | 14.9 | 19.3 |
| 9 18 | 20 58.91 | − 7 1.3 | 1.144 | 2.013 | 19.2 | 19.5 |
| **317526** 2002 $TV_{204}$ | | | 8 10.4 0°.94 | 2°.6/ 8.7 17 | | |
| 7 10 | 21 34.96 | −15 45.7 | 0.863 | 1.803 | 17.9 | 19.0 |
| 7 20 | 21 33.36 | −17 4.3 | 0.817 | 1.798 | 12.6 | 18.7 |
| 7 30 | 21 28.86 | −18 38.7 | 0.790 | 1.795 | 6.8 | 18.4 |
| 8 9 | 21 22.56 | −20 17.2 | 0.783 | 1.795 | 2.6 | 18.1 |
| 8 19 | 21 15.96 | −21 46.3 | 0.796 | 1.797 | 7.1 | 18.4 |
| 8 29 | 21 10.76 | −22 54.8 | 0.829 | 1.801 | 12.9 | 18.7 |
| 9 8 | 21 8.29 | −23 36.7 | 0.880 | 1.807 | 18.0 | 19.0 |
| 9 18 | 21 9.22 | −23 51.0 | 0.947 | 1.815 | 22.2 | 19.3 |
| **520970** 2014 $YC_{63}$ | | | 8 10.4 40°.64 | 7°.1/ 4.8 17 | | |
| 7 10 | 21 43.99 | −27 7.6 | 1.345 | 2.264 | 14.3 | 20.2 |
| 7 20 | 21 39.14 | −29 10.7 | 1.311 | 2.276 | 10.6 | 20.0 |
| 7 30 | 21 31.76 | −31 9.9 | 1.300 | 2.288 | 7.7 | 19.9 |
| 8 9 | 21 22.92 | −32 52.9 | 1.313 | 2.301 | 7.4 | 19.9 |
| 8 19 | 21 13.94 | −34 10.2 | 1.350 | 2.314 | 9.9 | 20.1 |
| 8 29 | 21 6.26 | −34 57.1 | 1.410 | 2.328 | 13.3 | 20.4 |
| 9 8 | 21 1.01 | −35 14.2 | 1.490 | 2.343 | 16.5 | 20.6 |
| 9 18 | 20 58.76 | −35 5.3 | 1.587 | 2.357 | 19.2 | 20.8 |
| **482392** 2012 $BG_{5}$ | | | 8 10.4 46°.49 | 2°.0/ 8.6 18 | | |
| 7 10 | 21 41.23 | −18 21.1 | 2.136 | 3.034 | 10.7 | 20.6 |
| 7 20 | 21 36.41 | −19 22.7 | 2.077 | 3.038 | 7.5 | 20.4 |
| 7 30 | 21 30.02 | −20 28.8 | 2.042 | 3.042 | 4.1 | 20.2 |
| 8 9 | 21 22.70 | −21 34.0 | 2.035 | 3.046 | 2.0 | 20.1 |
| 8 19 | 21 15.22 | −22 33.0 | 2.056 | 3.050 | 4.4 | 20.3 |
| 8 29 | 21 8.44 | −23 21.5 | 2.104 | 3.054 | 7.8 | 20.5 |
| 9 8 | 21 3.08 | −23 56.8 | 2.177 | 3.059 | 10.8 | 20.7 |
| 9 18 | 20 59.65 | −24 18.2 | 2.272 | 3.063 | 13.5 | 20.9 |
| **489652** 2007 $UP_{25}$ | | | 8 10.4 266°.70 | 7°.6/ 3.7 18 | | |
| 7 10 | 21 48.27 | −35 34.3 | 2.058 | 2.947 | 11.5 | 21.6 |
| 7 20 | 21 41.86 | −36 48.0 | 1.992 | 2.930 | 9.3 | 21.4 |
| 7 30 | 21 33.20 | −37 53.4 | 1.950 | 2.912 | 7.8 | 21.3 |
| 8 9 | 21 23.12 | −38 42.4 | 1.933 | 2.894 | 7.8 | 21.3 |
| 8 19 | 21 12.68 | −39 9.5 | 1.942 | 2.876 | 9.5 | 21.4 |
| 8 29 | 21 3.12 | −39 11.9 | 1.975 | 2.857 | 11.9 | 21.5 |
| 9 8 | 20 55.49 | −38 50.7 | 2.030 | 2.838 | 14.4 | 21.6 |
| 9 18 | 20 50.49 | −38 9.2 | 2.103 | 2.819 | 16.6 | 21.8 |
| **184207** 2004 $PQ_{88}$ | | | 8 10.4 7°.35 | 5°.1/14.3 18 | | |
| 7 10 | 21 40.46 | − 1 4.8 | 1.755 | 2.611 | 14.7 | 19.8 |
| 7 20 | 21 36.06 | − 0 55.3 | 1.688 | 2.612 | 11.6 | 19.6 |
| 7 30 | 21 29.91 | − 1 4.4 | 1.643 | 2.614 | 8.2 | 19.4 |
| 8 9 | 21 22.70 | − 1 30.8 | 1.622 | 2.616 | 5.5 | 19.3 |
| 8 19 | 21 15.29 | − 2 11.7 | 1.626 | 2.619 | 5.5 | 19.3 |
| 8 29 | 21 8.65 | − 3 2.0 | 1.656 | 2.623 | 8.0 | 19.5 |
| 9 8 | 21 3.59 | − 3 55.9 | 1.710 | 2.627 | 11.3 | 19.7 |
| 9 18 | 21 0.67 | − 4 48.0 | 1.785 | 2.631 | 14.4 | 19.9 |
| **164061** 2003 $WF_{29}$ | | | 8 10.4 258°.08 | 0°.2/10.3 18 | | |
| 7 10 | 21 45.17 | −14 51.1 | 1.966 | 2.855 | 12.0 | 20.5 |
| 7 20 | 21 39.40 | −15 9.3 | 1.888 | 2.843 | 8.6 | 20.2 |
| 7 30 | 21 31.76 | −15 34.2 | 1.834 | 2.831 | 4.7 | 20.0 |
| 8 9 | 21 22.95 | −16 2.1 | 1.806 | 2.819 | 0.6 | 19.6 |
| 8 19 | 21 13.85 | −16 28.8 | 1.806 | 2.807 | 3.7 | 19.9 |
| 8 29 | 21 5.45 | −16 50.7 | 1.832 | 2.795 | 7.8 | 20.1 |
| 9 8 | 20 58.65 | −17 5.1 | 1.884 | 2.782 | 11.5 | 20.3 |
| 9 18 | 20 54.04 | −17 10.6 | 1.958 | 2.769 | 14.6 | 20.5 |
| **321390** 2009 $PJ_{9}$ | | | 8 10.4 329°.06 | 0°.7/11.0 18 | | |
| 7 10 | 21 40.63 | −11 22.2 | 2.061 | 2.947 | 11.6 | 20.3 |
| 7 20 | 21 36.05 | −11 50.3 | 1.988 | 2.940 | 8.4 | 20.1 |
| 7 30 | 21 29.87 | −12 28.1 | 1.938 | 2.934 | 4.8 | 19.9 |
| 8 9 | 21 22.71 | −13 12.0 | 1.915 | 2.928 | 1.1 | 19.6 |
| 8 19 | 21 15.33 | −13 58.0 | 1.919 | 2.922 | 3.2 | 19.8 |
| 8 29 | 21 8.58 | −14 41.6 | 1.950 | 2.917 | 7.0 | 20.0 |
| 9 8 | 21 3.23 | −15 18.9 | 2.006 | 2.911 | 10.5 | 20.2 |
| 9 18 | 20 59.81 | −15 47.7 | 2.085 | 2.906 | 13.5 | 20.4 |
| **167246** 2003 $UX_{96}$ | | | 8 10.4 265°.61 | 1°.3/11.4 18 | | |
| 7 10 | 21 43.50 | −10 9.3 | 1.869 | 2.750 | 12.8 | 20.3 |
| 7 20 | 21 38.26 | −10 30.5 | 1.792 | 2.741 | 9.4 | 20.1 |
| 7 30 | 21 31.16 | −11 3.3 | 1.738 | 2.732 | 5.5 | 19.8 |
| 8 9 | 21 22.89 | −11 44.1 | 1.711 | 2.723 | 1.7 | 19.6 |
| 8 19 | 21 14.33 | −12 28.7 | 1.710 | 2.713 | 3.6 | 19.7 |
| 8 29 | 21 6.46 | −13 12.2 | 1.737 | 2.704 | 7.7 | 19.9 |
| 9 8 | 21 0.19 | −13 50.2 | 1.788 | 2.695 | 11.5 | 20.1 |
| 9 18 | 20 56.12 | −14 20.0 | 1.861 | 2.685 | 14.8 | 20.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **203332** 2001 $TK_{208}$ | | | 8 10.4 278°.86 | 1°.4/ 9.5 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.01 | −14 29.5 | 1.293 | 2.200 | 15.6 | 19.9 |
| 7 20 | 21 39.95 | −15 38.6 | 1.233 | 2.198 | 11.1 | 19.7 |
| 7 30 | 21 32.32 | −17 1.0 | 1.194 | 2.195 | 6.0 | 19.4 |
| 8 9 | 21 23.06 | −18 28.2 | 1.180 | 2.193 | 1.4 | 19.1 |
| 8 19 | 21 13.44 | −19 50.7 | 1.190 | 2.190 | 5.5 | 19.3 |
| 8 29 | 21 4.92 | −20 59.8 | 1.225 | 2.188 | 10.7 | 19.6 |
| 9 8 | 20 58.72 | −21 50.4 | 1.281 | 2.185 | 15.3 | 19.9 |
| 9 18 | 20 55.59 | −22 20.9 | 1.357 | 2.183 | 19.1 | 20.1 |
| **474296** 2001 $XX_{27}$ | | | 8 10.4 139°.06 | 0°.9/ 9.5 18 | | |
| 7 10 | 21 45.22 | −18 29.2 | 3.122 | 4.000 | 8.3 | 21.6 |
| 7 20 | 21 38.71 | −18 44.1 | 3.064 | 4.015 | 5.8 | 21.4 |
| 7 30 | 21 31.09 | −19 0.4 | 3.033 | 4.030 | 3.2 | 21.3 |
| 8 9 | 21 22.88 | −19 15.6 | 3.031 | 4.044 | 0.9 | 21.1 |
| 8 19 | 21 14.65 | −19 27.5 | 3.060 | 4.057 | 2.9 | 21.3 |
| 8 29 | 21 7.00 | −19 34.2 | 3.119 | 4.069 | 5.5 | 21.5 |
| 9 8 | 21 0.45 | −19 34.8 | 3.205 | 4.081 | 7.9 | 21.6 |
| 9 18 | 20 55.39 | −19 29.1 | 3.315 | 4.093 | 9.9 | 21.8 |
| **193708** 2001 $FE_{80}$ | | | 8 10.4 105°.40 | 4°.5/14.4 18 | | |
| 7 10 | 21 44.52 | − 0 5.2 | 2.129 | 2.964 | 13.3 | 20.4 |
| 7 20 | 21 38.58 | − 0 6.5 | 2.073 | 2.984 | 10.4 | 20.2 |
| 7 30 | 21 31.15 | − 0 24.2 | 2.040 | 3.004 | 7.4 | 20.1 |
| 8 9 | 21 22.90 | − 0 56.7 | 2.033 | 3.024 | 5.0 | 20.0 |
| 8 19 | 21 14.60 | − 1 40.8 | 2.053 | 3.043 | 4.9 | 20.0 |
| 8 29 | 21 7.08 | − 2 32.1 | 2.101 | 3.061 | 7.0 | 20.2 |
| 9 8 | 21 1.00 | − 3 25.8 | 2.175 | 3.080 | 9.8 | 20.4 |
| 9 18 | 20 56.83 | − 4 17.5 | 2.272 | 3.097 | 12.4 | 20.6 |
| **120377** 2005 $PW_{14}$ | | | 8 10.4 320°.31 | 1°.5/ 9.3 18 | | |
| 7 10 | 21 42.78 | −17 45.6 | 1.838 | 2.738 | 12.1 | 19.7 |
| 7 20 | 21 37.80 | −18 20.7 | 1.767 | 2.729 | 8.6 | 19.5 |
| 7 30 | 21 30.93 | −19 1.1 | 1.720 | 2.720 | 4.7 | 19.3 |
| 8 9 | 21 22.89 | −19 41.9 | 1.699 | 2.711 | 1.6 | 19.0 |
| 8 19 | 21 14.59 | −20 18.1 | 1.705 | 2.703 | 4.5 | 19.2 |
| 8 29 | 21 7.06 | −20 45.4 | 1.737 | 2.695 | 8.5 | 19.4 |
| 9 8 | 21 1.18 | −21 1.1 | 1.793 | 2.687 | 12.1 | 19.6 |
| 9 18 | 20 57.58 | −21 4.6 | 1.869 | 2.680 | 15.2 | 19.8 |
| **371446** 2006 $SY_{287}$ | | | 8 10.4 283°.37 | 4°.0/12.8 18 | | |
| 7 10 | 21 45.17 | − 4 54.6 | 1.524 | 2.396 | 15.7 | 21.4 |
| 7 20 | 21 39.98 | − 4 51.1 | 1.434 | 2.373 | 12.1 | 21.1 |
| 7 30 | 21 32.38 | − 5 5.7 | 1.365 | 2.349 | 8.1 | 20.8 |
| 8 9 | 21 23.11 | − 5 37.1 | 1.320 | 2.324 | 4.5 | 20.5 |
| 8 19 | 21 13.19 | − 6 21.9 | 1.300 | 2.300 | 5.2 | 20.5 |
| 8 29 | 21 3.94 | − 7 14.5 | 1.305 | 2.275 | 9.4 | 20.7 |
| 9 8 | 20 56.56 | − 8 8.2 | 1.333 | 2.250 | 13.9 | 20.9 |
| 9 18 | 20 51.93 | − 8 57.4 | 1.382 | 2.225 | 17.9 | 21.1 |
| **434760** 2006 $HO_{115}$ | | | 8 10.4 109°.48 | 5°.8/ 6.1 15 | | |
| 7 10 | 21 48.15 | −29 47.8 | 1.886 | 2.784 | 11.9 | 21.6 |
| 7 20 | 21 41.53 | −30 50.3 | 1.842 | 2.795 | 8.9 | 21.5 |
| 7 30 | 21 32.89 | −31 46.7 | 1.823 | 2.806 | 6.5 | 21.3 |
| 8 9 | 21 23.13 | −32 29.9 | 1.830 | 2.816 | 5.9 | 21.3 |
| 8 19 | 21 13.33 | −32 55.0 | 1.863 | 2.826 | 7.8 | 21.5 |
| 8 29 | 21 4.62 | −32 59.8 | 1.922 | 2.836 | 10.5 | 21.6 |
| 9 8 | 20 57.89 | −32 45.3 | 2.003 | 2.846 | 13.3 | 21.9 |
| 9 18 | 20 53.69 | −32 14.3 | 2.103 | 2.856 | 15.6 | 22.0 |
| **459623** 2013 $JB_{2}$ | | | 8 10.5 306°.35 | 1°.3/11.8 18 | | |
| 7 10 | 21 39.85 | − 6 2.7 | 2.061 | 2.930 | 12.3 | 19.7 |
| 7 20 | 21 35.70 | − 7 25.7 | 1.962 | 2.904 | 9.2 | 19.5 |
| 7 30 | 21 29.83 | − 9 8.1 | 1.887 | 2.878 | 5.5 | 19.2 |
| 8 9 | 21 22.77 | −11 5.3 | 1.840 | 2.851 | 1.8 | 18.9 |
| 8 19 | 21 15.25 | −13 10.4 | 1.822 | 2.825 | 3.3 | 19.0 |
| 8 29 | 21 8.15 | −15 15.0 | 1.833 | 2.799 | 7.4 | 19.2 |
| 9 8 | 21 2.34 | −17 11.3 | 1.870 | 2.773 | 11.3 | 19.4 |
| 9 18 | 20 58.49 | −18 53.6 | 1.932 | 2.748 | 14.6 | 19.5 |
| **352388** 2007 $WB_{6}$ | | | 8 10.5 241°.58 | 3°.4/ 7.4 18 | | |
| 7 10 | 21 46.26 | −24 57.2 | 2.478 | 3.369 | 9.7 | 21.6 |
| 7 20 | 21 39.99 | −25 42.5 | 2.397 | 3.352 | 7.1 | 21.4 |
| 7 30 | 21 32.05 | −26 27.1 | 2.342 | 3.334 | 4.5 | 21.3 |
| 8 9 | 21 23.04 | −27 6.1 | 2.315 | 3.315 | 3.5 | 21.2 |
| 8 19 | 21 13.75 | −27 35.3 | 2.317 | 3.296 | 5.3 | 21.3 |
| 8 29 | 21 5.04 | −27 51.7 | 2.347 | 3.277 | 8.1 | 21.4 |
| 9 8 | 20 57.71 | −27 54.3 | 2.401 | 3.256 | 10.9 | 21.5 |
| 9 18 | 20 52.33 | −27 43.8 | 2.478 | 3.236 | 13.4 | 21.7 |
| **347088** 2010 $GL_{111}$ | | | 8 10.5 83°.40 | 2°.4/ 8.6 17 | | |
| 7 10 | 21 45.57 | −19 57.2 | 1.811 | 2.710 | 12.3 | 20.9 |
| 7 20 | 21 39.63 | −20 43.5 | 1.763 | 2.724 | 8.6 | 20.7 |
| 7 30 | 21 31.83 | −21 32.3 | 1.740 | 2.738 | 4.8 | 20.5 |
| 8 9 | 21 23.00 | −22 17.8 | 1.742 | 2.752 | 2.4 | 20.4 |
| 8 19 | 21 14.13 | −22 54.8 | 1.772 | 2.765 | 5.0 | 20.6 |
| 8 29 | 21 6.25 | −23 19.6 | 1.828 | 2.779 | 8.7 | 20.8 |
| 9 8 | 21 0.19 | −23 30.9 | 1.909 | 2.792 | 12.0 | 21.1 |
| 9 18 | 20 56.45 | −23 28.9 | 2.010 | 2.806 | 14.8 | 21.3 |

**260974** 2005 $SV_{57}$ 8 10.5 60°.22 3°.6/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.80 | − 2 15.3 | 2.074 | 2.926 | 12.9 | 21.3 |
| 7 20 | 21 36.11 | − 2 34.9 | 2.006 | 2.930 | 10.0 | 21.1 |
| 7 30 | 21 29.89 | − 3 10.9 | 1.960 | 2.934 | 6.8 | 20.9 |
| 8 9 | 21 22.77 | − 4 0.7 | 1.939 | 2.939 | 4.1 | 20.8 |
| 8 19 | 21 15.47 | − 5 0.7 | 1.946 | 2.943 | 4.2 | 20.8 |
| 8 29 | 21 8.83 | − 6 5.8 | 1.980 | 2.947 | 6.9 | 20.9 |
| 9 8 | 21 3.56 | − 7 10.5 | 2.039 | 2.951 | 10.0 | 21.1 |
| 9 18 | 21 0.16 | − 8 10.5 | 2.122 | 2.956 | 12.9 | 21.3 |

**443574** 2014 $KQ_{55}$ 8 10.5 37°.93 4°.6/14.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.68 | − 0 4.6 | 1.999 | 2.843 | 13.6 | 21.2 |
| 7 20 | 21 36.07 | − 0 13.3 | 1.931 | 2.848 | 10.7 | 21.0 |
| 7 30 | 21 29.89 | − 0 40.1 | 1.885 | 2.852 | 7.7 | 20.8 |
| 8 9 | 21 22.77 | − 1 23.2 | 1.864 | 2.857 | 5.1 | 20.7 |
| 8 19 | 21 15.48 | − 2 19.2 | 1.869 | 2.862 | 4.9 | 20.7 |
| 8 29 | 21 8.87 | − 3 23.1 | 1.901 | 2.867 | 7.3 | 20.8 |
| 9 8 | 21 3.67 | − 4 29.1 | 1.959 | 2.872 | 10.3 | 21.0 |
| 9 18 | 21 0.40 | − 5 32.1 | 2.039 | 2.877 | 13.1 | 21.2 |

**184585** 2005 $QZ_{115}$ 8 10.5 330°.51 2°.2/12.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.12 | − 5 46.2 | 1.916 | 2.788 | 13.0 | 20.4 |
| 7 20 | 21 35.81 | − 6 30.6 | 1.842 | 2.783 | 9.7 | 20.2 |
| 7 30 | 21 29.81 | − 7 31.3 | 1.792 | 2.779 | 6.1 | 20.0 |
| 8 9 | 21 22.77 | − 8 44.4 | 1.766 | 2.775 | 2.7 | 19.7 |
| 8 19 | 21 15.47 | −10 4.6 | 1.768 | 2.771 | 3.5 | 19.8 |
| 8 29 | 21 8.83 | −11 25.5 | 1.798 | 2.768 | 7.2 | 20.0 |
| 9 8 | 21 3.64 | −12 41.0 | 1.852 | 2.764 | 10.9 | 20.2 |
| 9 18 | 21 0.47 | −13 46.7 | 1.930 | 2.761 | 14.0 | 20.4 |

**477564** 2010 $GJ_{122}$ 8 10.5 230°.94 0°.6/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.65 | −14 42.9 | 2.293 | 3.176 | 10.7 | 22.0 |
| 7 20 | 21 38.90 | −15 29.9 | 2.209 | 3.162 | 7.6 | 21.8 |
| 7 30 | 21 31.48 | −16 24.3 | 2.150 | 3.147 | 4.2 | 21.5 |
| 8 9 | 21 22.99 | −17 21.8 | 2.119 | 3.132 | 0.7 | 21.2 |
| 8 19 | 21 14.19 | −18 17.6 | 2.117 | 3.116 | 3.6 | 21.4 |
| 8 29 | 21 5.92 | −19 7.4 | 2.143 | 3.100 | 7.2 | 21.6 |
| 9 8 | 20 58.99 | −19 47.7 | 2.196 | 3.083 | 10.6 | 21.8 |
| 9 18 | 20 53.98 | −20 16.8 | 2.271 | 3.065 | 13.4 | 22.0 |

**202639** 2006 $JU_{8}$ 8 10.5 176°.36 1°.1/ 9.6 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.34 | −16 48.0 | 1.906 | 2.799 | 12.1 | 21.6 |
| 7 20 | 21 39.50 | −17 19.5 | 1.842 | 2.800 | 8.5 | 21.3 |
| 7 30 | 21 31.82 | −17 56.3 | 1.801 | 2.800 | 4.6 | 21.1 |
| 8 9 | 21 23.05 | −18 33.8 | 1.788 | 2.801 | 1.1 | 20.9 |
| 8 19 | 21 14.10 | −19 7.3 | 1.802 | 2.801 | 4.1 | 21.1 |
| 8 29 | 21 5.97 | −19 33.0 | 1.843 | 2.801 | 8.0 | 21.3 |
| 9 8 | 20 59.53 | −19 48.4 | 1.908 | 2.801 | 11.6 | 21.5 |
| 9 18 | 20 55.33 | −19 52.9 | 1.995 | 2.800 | 14.6 | 21.8 |

**477911** 2011 $LY_{10}$ 8 10.5 9°.64 6°.3/ 5.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 36.66 | −21 37.9 | 1.067 | 2.003 | 15.7 | 19.3 |
| 7 20 | 21 34.33 | −24 9.7 | 1.029 | 2.006 | 11.2 | 19.1 |
| 7 30 | 21 29.35 | −26 47.3 | 1.012 | 2.011 | 7.3 | 18.9 |
| 8 9 | 21 22.75 | −29 14.3 | 1.018 | 2.018 | 6.7 | 18.9 |
| 8 19 | 21 15.88 | −31 16.2 | 1.047 | 2.026 | 10.0 | 19.1 |
| 8 29 | 21 10.29 | −32 43.5 | 1.097 | 2.036 | 14.3 | 19.4 |
| 9 8 | 21 7.19 | −33 34.1 | 1.167 | 2.048 | 18.1 | 19.6 |
| 9 18 | 21 7.21 | −33 50.6 | 1.252 | 2.062 | 21.4 | 19.9 |

**479714** 2014 $DZ_{128}$ 8 10.5 95°.55 2°.1/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.18 | −19 32.7 | 1.867 | 2.765 | 12.0 | 21.5 |
| 7 20 | 21 39.41 | −20 9.8 | 1.808 | 2.769 | 8.5 | 21.3 |
| 7 30 | 21 31.77 | −20 50.1 | 1.773 | 2.772 | 4.7 | 21.1 |
| 8 9 | 21 23.05 | −21 28.1 | 1.765 | 2.776 | 2.1 | 20.9 |
| 8 19 | 21 14.19 | −21 59.1 | 1.784 | 2.779 | 4.8 | 21.1 |
| 8 29 | 21 6.22 | −22 19.5 | 1.829 | 2.782 | 8.5 | 21.3 |
| 9 8 | 20 59.98 | −22 27.5 | 1.899 | 2.786 | 11.9 | 21.5 |
| 9 18 | 20 56.04 | −22 23.2 | 1.989 | 2.789 | 14.8 | 21.7 |

**425633** 2010 $VW_{127}$ 8 10.5 191°.67 4°.3/ 7.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.13 | −22 54.7 | 1.598 | 2.503 | 13.3 | 21.3 |
| 7 20 | 21 41.19 | −24 9.4 | 1.540 | 2.503 | 9.5 | 21.1 |
| 7 30 | 21 32.91 | −25 26.0 | 1.506 | 2.502 | 5.8 | 20.8 |
| 8 9 | 21 23.22 | −26 35.9 | 1.498 | 2.501 | 4.4 | 20.8 |
| 8 19 | 21 13.25 | −27 31.7 | 1.516 | 2.499 | 7.0 | 20.9 |
| 8 29 | 21 4.32 | −28 8.1 | 1.559 | 2.498 | 10.8 | 21.1 |
| 9 8 | 20 57.49 | −28 24.0 | 1.624 | 2.496 | 14.4 | 21.4 |
| 9 18 | 20 53.44 | −28 20.5 | 1.709 | 2.494 | 17.5 | 21.6 |

**211006** 2001 $XT_{181}$ 8 10.5 211°.61 2°.1/ 8.9 17 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.84 | −16 55.4 | 1.531 | 2.431 | 14.0 | 20.4 |
| 7 20 | 21 41.05 | −18 4.2 | 1.465 | 2.427 | 10.0 | 20.1 |
| 7 30 | 21 32.89 | −19 22.0 | 1.423 | 2.423 | 5.4 | 19.8 |
| 8 9 | 21 23.22 | −20 40.9 | 1.407 | 2.418 | 2.1 | 19.6 |
| 8 19 | 21 13.20 | −21 52.8 | 1.417 | 2.413 | 5.5 | 19.8 |
| 8 29 | 21 4.13 | −22 50.6 | 1.453 | 2.407 | 10.1 | 20.1 |
| 9 8 | 20 57.15 | −23 30.8 | 1.511 | 2.401 | 14.2 | 20.3 |
| 9 18 | 20 52.96 | −23 52.6 | 1.590 | 2.395 | 17.7 | 20.5 |

**452526** 2004 $TJ_{76}$ 8 10.5 21°.90 3°.3/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.11 | − 3 25.5 | 2.023 | 2.883 | 12.9 | 20.8 |
| 7 20 | 21 35.67 | − 3 47.6 | 1.955 | 2.886 | 9.9 | 20.6 |
| 7 30 | 21 29.69 | − 4 25.5 | 1.910 | 2.889 | 6.6 | 20.4 |
| 8 9 | 21 22.79 | − 5 16.6 | 1.890 | 2.892 | 3.7 | 20.2 |
| 8 19 | 21 15.72 | − 6 17.0 | 1.897 | 2.896 | 4.0 | 20.3 |
| 8 29 | 21 9.30 | − 7 21.5 | 1.931 | 2.900 | 6.9 | 20.5 |
| 9 8 | 21 4.27 | − 8 24.6 | 1.991 | 2.904 | 10.1 | 20.7 |
| 9 18 | 21 1.13 | − 9 22.1 | 2.073 | 2.908 | 13.1 | 20.9 |

**137888** 2000 $AG_{135}$ 8 10.5 173°.29 2°.8/ 8.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.48 | −20 56.9 | 1.761 | 2.659 | 12.7 | 20.4 |
| 7 20 | 21 41.89 | −21 42.0 | 1.702 | 2.661 | 9.0 | 20.2 |
| 7 30 | 21 33.20 | −22 29.2 | 1.666 | 2.663 | 5.1 | 20.0 |
| 8 9 | 21 23.26 | −23 12.3 | 1.656 | 2.665 | 2.9 | 19.8 |
| 8 19 | 21 13.13 | −23 45.7 | 1.674 | 2.666 | 5.5 | 20.0 |
| 8 29 | 21 4.00 | −24 5.7 | 1.718 | 2.666 | 9.3 | 20.2 |
| 9 8 | 20 56.82 | −24 11.0 | 1.786 | 2.666 | 12.9 | 20.4 |
| 9 18 | 20 52.20 | −24 2.2 | 1.875 | 2.666 | 15.9 | 20.7 |

**112116** 2002 $JW_{44}$ 8 10.5 81°.04 4°.4/ 8.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.66 | −23 58.4 | 1.354 | 2.262 | 15.0 | 19.5 |
| 7 20 | 21 43.81 | −24 36.3 | 1.306 | 2.270 | 10.8 | 19.2 |
| 7 30 | 21 34.34 | −25 12.8 | 1.281 | 2.277 | 6.5 | 19.0 |
| 8 9 | 21 23.41 | −25 39.9 | 1.280 | 2.285 | 4.4 | 18.9 |
| 8 19 | 21 12.44 | −25 51.8 | 1.303 | 2.293 | 7.1 | 19.1 |
| 8 29 | 21 2.91 | −25 45.8 | 1.352 | 2.300 | 11.3 | 19.4 |
| 9 8 | 20 55.97 | −25 22.4 | 1.422 | 2.308 | 15.2 | 19.6 |
| 9 18 | 20 52.18 | −24 44.5 | 1.510 | 2.315 | 18.5 | 19.9 |

**833** Monica 8 10.5 298°.74 3°.2/ 8.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.88 | −23 48.2 | 2.013 | 2.912 | 11.3 | 15.6 |
| 7 20 | 21 39.95 | −24 13.3 | 1.941 | 2.900 | 8.1 | 15.4 |
| 7 30 | 21 32.12 | −24 37.6 | 1.893 | 2.889 | 4.9 | 15.2 |
| 8 9 | 21 23.15 | −24 56.2 | 1.872 | 2.877 | 3.2 | 15.1 |
| 8 19 | 21 13.95 | −25 4.9 | 1.878 | 2.866 | 5.4 | 15.2 |
| 8 29 | 21 5.55 | −25 1.3 | 1.911 | 2.855 | 8.8 | 15.4 |
| 9 8 | 20 58.83 | −24 44.7 | 1.967 | 2.844 | 12.0 | 15.6 |
| 9 18 | 20 54.38 | −24 16.2 | 2.045 | 2.833 | 14.9 | 15.7 |

**293963** 2007 $TC_{44}$ 8 10.5 300°.66 1°.8/11.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.38 | − 9 44.4 | 1.833 | 2.713 | 13.1 | 20.2 |
| 7 20 | 21 38.89 | − 9 46.9 | 1.763 | 2.710 | 9.7 | 19.9 |
| 7 30 | 21 31.55 | −10 0.2 | 1.715 | 2.707 | 5.8 | 19.7 |
| 8 9 | 21 23.08 | −10 21.7 | 1.693 | 2.703 | 2.2 | 19.5 |
| 8 19 | 21 14.37 | −10 47.9 | 1.697 | 2.700 | 3.7 | 19.6 |
| 8 29 | 21 6.44 | −11 14.7 | 1.729 | 2.697 | 7.6 | 19.8 |
| 9 8 | 21 0.16 | −11 38.5 | 1.785 | 2.694 | 11.4 | 20.0 |
| 9 18 | 20 56.12 | −11 56.5 | 1.862 | 2.691 | 14.6 | 20.2 |

**290895** 2005 $WQ_{87}$ 8 10.5 273°.34 0°.1/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.56 | −13 33.9 | 2.358 | 3.240 | 10.5 | 21.8 |
| 7 20 | 21 37.40 | −13 59.4 | 2.268 | 3.220 | 7.5 | 21.6 |
| 7 30 | 21 30.68 | −14 32.0 | 2.204 | 3.201 | 4.2 | 21.3 |
| 8 9 | 21 22.97 | −15 8.6 | 2.167 | 3.181 | 0.6 | 21.0 |
| 8 19 | 21 14.95 | −15 45.6 | 2.158 | 3.160 | 3.1 | 21.2 |
| 8 29 | 21 7.42 | −16 19.2 | 2.178 | 3.140 | 6.7 | 21.4 |
| 9 8 | 21 1.14 | −16 46.5 | 2.223 | 3.119 | 10.0 | 21.6 |
| 9 18 | 20 56.66 | −17 5.7 | 2.291 | 3.098 | 12.9 | 21.7 |

**232883** 2004 $VT_{77}$ 8 10.5 260°.60 1°.2/ 9.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.17 | −15 56.1 | 1.840 | 2.735 | 12.3 | 20.5 |
| 7 20 | 21 38.89 | −16 46.9 | 1.763 | 2.722 | 8.8 | 20.3 |
| 7 30 | 21 31.63 | −17 45.9 | 1.711 | 2.710 | 4.8 | 20.0 |
| 8 9 | 21 23.10 | −18 47.6 | 1.684 | 2.697 | 1.3 | 19.8 |
| 8 19 | 21 14.20 | −19 45.9 | 1.685 | 2.684 | 4.4 | 20.0 |
| 8 29 | 21 6.02 | −20 35.3 | 1.713 | 2.671 | 8.6 | 20.2 |
| 9 8 | 20 59.50 | −21 12.2 | 1.765 | 2.658 | 12.4 | 20.4 |
| 9 18 | 20 55.29 | −21 35.0 | 1.838 | 2.644 | 15.6 | 20.6 |

**253609** 2003 $UU_{39}$ 8 10.5 240°.98 0°.0/10.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.06 | −13 7.1 | 1.766 | 2.652 | 13.2 | 21.8 |
| 7 20 | 21 41.04 | −13 41.4 | 1.684 | 2.638 | 9.6 | 21.6 |
| 7 30 | 21 32.87 | −14 26.0 | 1.626 | 2.623 | 5.3 | 21.3 |
| 8 9 | 21 23.27 | −15 16.4 | 1.593 | 2.607 | 0.7 | 20.9 |
| 8 19 | 21 13.23 | −16 6.9 | 1.589 | 2.590 | 4.0 | 21.1 |
| 8 29 | 21 3.92 | −16 52.2 | 1.611 | 2.573 | 8.6 | 21.4 |
| 9 8 | 20 56.37 | −17 28.1 | 1.657 | 2.556 | 12.7 | 21.6 |
| 9 18 | 20 51.31 | −17 52.3 | 1.725 | 2.537 | 16.2 | 21.8 |

**89255** 2001 $UN_{179}$ 8 10.5 145°.93 3°.3/13.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.56 | − 3 52.3 | 2.231 | 3.083 | 12.1 | 20.1 |
| 7 20 | 21 37.30 | − 3 58.0 | 2.161 | 3.087 | 9.3 | 19.9 |
| 7 30 | 21 30.56 | − 4 17.0 | 2.114 | 3.091 | 6.2 | 19.8 |
| 8 9 | 21 22.95 | − 4 47.6 | 2.093 | 3.094 | 3.6 | 19.6 |
| 8 19 | 21 15.18 | − 5 26.8 | 2.100 | 3.097 | 3.9 | 19.6 |
| 8 29 | 21 8.04 | − 6 10.6 | 2.135 | 3.101 | 6.6 | 19.8 |
| 9 8 | 21 2.21 | − 6 55.0 | 2.196 | 3.104 | 9.6 | 20.0 |
| 9 18 | 20 58.20 | − 7 36.2 | 2.280 | 3.106 | 12.3 | 20.2 |

**95703** 2002 $JY_{122}$ 8 10.5 347°.22 2°.2/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.15 | − 5 41.1 | 2.237 | 3.100 | 11.7 | 19.4 |
| 7 20 | 21 35.63 | − 6 19.2 | 2.164 | 3.100 | 8.7 | 19.2 |
| 7 30 | 21 29.67 | − 7 10.9 | 2.114 | 3.100 | 5.5 | 19.0 |
| 8 9 | 21 22.83 | − 8 13.0 | 2.092 | 3.099 | 2.5 | 18.8 |
| 8 19 | 21 15.81 | − 9 21.3 | 2.097 | 3.099 | 3.2 | 18.9 |
| 8 29 | 21 9.36 | −10 30.7 | 2.131 | 3.099 | 6.4 | 19.1 |
| 9 8 | 21 4.17 | −11 36.3 | 2.190 | 3.099 | 9.6 | 19.3 |
| 9 18 | 21 0.73 | −12 34.4 | 2.273 | 3.098 | 12.4 | 19.5 |

**355624** 2008 $DW_{67}$ 8 10.5 152°.32 2°.8/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.15 | − 4 3.8 | 2.570 | 3.417 | 10.9 | 22.0 |
| 7 20 | 21 36.83 | − 4 14.7 | 2.500 | 3.424 | 8.3 | 21.8 |
| 7 30 | 21 30.24 | − 4 37.2 | 2.454 | 3.430 | 5.5 | 21.7 |
| 8 9 | 21 22.91 | − 5 9.5 | 2.435 | 3.436 | 3.2 | 21.5 |
| 8 19 | 21 15.44 | − 5 49.0 | 2.444 | 3.441 | 3.4 | 21.6 |
| 8 29 | 21 8.53 | − 6 32.2 | 2.482 | 3.446 | 5.9 | 21.7 |
| 9 8 | 21 2.76 | − 7 15.4 | 2.546 | 3.450 | 8.6 | 21.9 |
| 9 18 | 20 58.59 | − 7 55.7 | 2.635 | 3.455 | 11.1 | 22.1 |

**451383** 2011 $BA_{25}$ 8 10.5 275°.56 2°.8/ 7.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.24 | −20 17.1 | 2.412 | 3.308 | 9.7 | 20.7 |
| 7 20 | 21 36.52 | −21 47.0 | 2.333 | 3.293 | 6.9 | 20.5 |
| 7 30 | 21 30.23 | −23 21.8 | 2.282 | 3.278 | 4.1 | 20.3 |
| 8 9 | 21 22.92 | −24 55.4 | 2.258 | 3.263 | 2.8 | 20.2 |
| 8 19 | 21 15.27 | −26 21.8 | 2.264 | 3.248 | 5.0 | 20.4 |
| 8 29 | 21 8.10 | −27 35.6 | 2.298 | 3.232 | 8.1 | 20.5 |
| 9 8 | 21 2.15 | −28 33.8 | 2.357 | 3.217 | 10.9 | 20.7 |
| 9 18 | 20 58.01 | −29 15.2 | 2.438 | 3.201 | 13.4 | 20.8 |

**245717** 2006 $CW_{59}$ 8 10.5 26°.29 0°.7/10.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.15 | −15 4.5 | 0.990 | 1.911 | 18.0 | 20.0 |
| 7 20 | 21 40.34 | −15 28.0 | 0.948 | 1.918 | 12.8 | 19.8 |
| 7 30 | 21 32.61 | −16 2.9 | 0.925 | 1.927 | 7.0 | 19.5 |
| 8 9 | 21 23.23 | −16 42.0 | 0.923 | 1.936 | 1.0 | 19.1 |
| 8 19 | 21 13.76 | −17 17.5 | 0.943 | 1.947 | 5.5 | 19.5 |
| 8 29 | 21 5.88 | −17 42.9 | 0.986 | 1.958 | 11.2 | 19.8 |
| 9 8 | 21 0.83 | −17 54.8 | 1.048 | 1.971 | 16.2 | 20.1 |
| 9 18 | 20 59.18 | −17 52.2 | 1.128 | 1.984 | 20.3 | 20.5 |

**202882** 2008 $UA_{316}$ 8 10.5 323°.73 1°.1/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.57 | −11 26.1 | 1.430 | 2.330 | 14.9 | 19.7 |
| 7 20 | 21 38.13 | −11 41.2 | 1.355 | 2.314 | 10.9 | 19.5 |
| 7 30 | 21 31.37 | −12 9.3 | 1.302 | 2.299 | 6.3 | 19.2 |
| 8 9 | 21 23.09 | −12 46.7 | 1.272 | 2.285 | 1.6 | 18.8 |
| 8 19 | 21 14.38 | −13 28.0 | 1.267 | 2.271 | 4.3 | 19.0 |
| 8 29 | 21 6.52 | −14 7.2 | 1.286 | 2.258 | 9.3 | 19.2 |
| 9 8 | 21 0.66 | −14 39.2 | 1.328 | 2.245 | 13.8 | 19.5 |
| 9 18 | 20 57.55 | −15 0.9 | 1.389 | 2.234 | 17.8 | 19.7 |

**104386** 2000 $FV_{36}$ 8 10.5 174°.03 2°.1/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.76 | − 7 12.8 | 1.751 | 2.625 | 13.9 | 20.1 |
| 7 20 | 21 39.23 | − 7 43.5 | 1.683 | 2.626 | 10.3 | 19.9 |
| 7 30 | 21 31.77 | − 8 29.3 | 1.638 | 2.627 | 6.3 | 19.7 |
| 8 9 | 21 23.13 | − 9 26.5 | 1.619 | 2.628 | 2.6 | 19.4 |
| 8 19 | 21 14.25 | −10 29.7 | 1.626 | 2.629 | 3.8 | 19.5 |
| 8 29 | 21 6.18 | −11 32.9 | 1.661 | 2.629 | 7.9 | 19.8 |
| 9 8 | 20 59.83 | −12 30.6 | 1.720 | 2.629 | 11.7 | 20.0 |
| 9 18 | 20 55.80 | −13 18.9 | 1.801 | 2.629 | 15.1 | 20.2 |

**397062** 2005 $UX_{149}$ 8 10.5 330°.98 5°.8/15.1 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.93 | + 1 44.9 | 1.958 | 2.794 | 14.2 | 20.5 |
| 7 20 | 21 36.39 | + 1 58.7 | 1.880 | 2.788 | 11.5 | 20.3 |
| 7 30 | 21 30.18 | + 1 53.8 | 1.824 | 2.781 | 8.6 | 20.1 |
| 8 9 | 21 22.92 | + 1 30.5 | 1.792 | 2.776 | 6.3 | 20.0 |
| 8 19 | 21 15.41 | + 0 50.8 | 1.785 | 2.770 | 6.0 | 19.9 |
| 8 29 | 21 8.51 | − 0 1.0 | 1.805 | 2.765 | 8.0 | 20.1 |
| 9 8 | 21 3.04 | − 0 59.2 | 1.849 | 2.760 | 10.9 | 20.2 |
| 9 18 | 20 59.57 | − 1 58.3 | 1.915 | 2.756 | 13.8 | 20.4 |

**220764** 2004 $TK_{118}$ 8 10.5 211°.09 2°.6/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.81 | − 6 13.2 | 2.463 | 3.319 | 11.0 | 20.3 |
| 7 20 | 21 37.40 | − 6 8.8 | 2.386 | 3.317 | 8.3 | 20.2 |
| 7 30 | 21 30.60 | − 6 14.6 | 2.333 | 3.314 | 5.4 | 20.0 |
| 8 9 | 21 22.98 | − 6 29.0 | 2.307 | 3.311 | 2.9 | 19.8 |
| 8 19 | 21 15.18 | − 6 49.9 | 2.309 | 3.308 | 3.4 | 19.8 |
| 8 29 | 21 7.93 | − 7 14.5 | 2.340 | 3.305 | 6.2 | 20.0 |
| 9 8 | 21 1.88 | − 7 39.6 | 2.397 | 3.301 | 9.1 | 20.2 |
| 9 18 | 20 57.51 | − 8 2.5 | 2.477 | 3.298 | 11.7 | 20.4 |

**363713** 2004 $VC_{6}$ 8 10.5 282°.00 5°.1/ 5.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.76 | −29 17.5 | 2.287 | 3.184 | 10.1 | 20.6 |
| 7 20 | 21 38.38 | −30 19.7 | 2.221 | 3.174 | 7.6 | 20.4 |
| 7 30 | 21 31.26 | −31 18.5 | 2.180 | 3.163 | 5.6 | 20.2 |
| 8 9 | 21 23.07 | −32 7.8 | 2.167 | 3.152 | 5.2 | 20.2 |
| 8 19 | 21 14.65 | −32 42.9 | 2.180 | 3.142 | 6.9 | 20.3 |
| 8 29 | 21 6.91 | −33 0.8 | 2.219 | 3.131 | 9.4 | 20.4 |
| 9 8 | 21 0.67 | −33 1.0 | 2.281 | 3.120 | 12.0 | 20.6 |
| 9 18 | 20 56.52 | −32 45.0 | 2.364 | 3.110 | 14.3 | 20.7 |

**231744** 1999 $RT_{195}$ 8 10.5 353°.73 2°.7/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 48.32 | −11 44.8 | 1.321 | 2.217 | 16.2 | 18.8 |
| 7 20 | 21 42.22 | −10 50.6 | 1.257 | 2.212 | 12.0 | 18.5 |
| 7 30 | 21 33.58 | −10 4.7 | 1.214 | 2.208 | 7.3 | 18.3 |
| 8 9 | 21 23.39 | − 9 26.7 | 1.195 | 2.205 | 3.1 | 18.0 |
| 8 19 | 21 12.95 | − 8 55.4 | 1.200 | 2.203 | 4.9 | 18.1 |
| 8 29 | 21 3.70 | − 8 29.1 | 1.231 | 2.202 | 9.7 | 18.4 |
| 9 8 | 20 56.79 | − 8 5.7 | 1.283 | 2.201 | 14.2 | 18.7 |
| 9 18 | 20 52.92 | − 7 42.9 | 1.355 | 2.202 | 18.0 | 18.9 |

**50190** 2000 $AK_{193}$ 8 10.5 86°.45 5°.6/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.14 | + 1 43.4 | 1.934 | 2.766 | 14.5 | 18.7 |
| 7 20 | 21 38.51 | + 1 55.3 | 1.877 | 2.783 | 11.6 | 18.5 |
| 7 30 | 21 31.25 | + 1 48.3 | 1.842 | 2.799 | 8.6 | 18.3 |
| 8 9 | 21 23.08 | + 1 23.3 | 1.832 | 2.816 | 6.2 | 18.2 |
| 8 19 | 21 14.81 | + 0 43.2 | 1.847 | 2.832 | 5.9 | 18.3 |
| 8 29 | 21 7.36 | − 0 7.5 | 1.889 | 2.848 | 7.9 | 18.4 |
| 9 8 | 21 1.47 | − 1 3.1 | 1.957 | 2.864 | 10.6 | 18.6 |
| 9 18 | 20 57.62 | − 1 58.4 | 2.046 | 2.879 | 13.3 | 18.8 |

**253023** 2002 $RO_{241}$ 8 10.5 231°.50 1°.7/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.01 | − 9 33.6 | 1.840 | 2.715 | 13.3 | 20.9 |
| 7 20 | 21 40.90 | − 9 46.1 | 1.759 | 2.704 | 9.8 | 20.6 |
| 7 30 | 21 32.75 | −10 10.3 | 1.701 | 2.692 | 5.9 | 20.4 |
| 8 9 | 21 23.31 | −10 43.2 | 1.669 | 2.680 | 2.1 | 20.1 |
| 8 19 | 21 13.49 | −11 20.8 | 1.664 | 2.667 | 3.8 | 20.2 |
| 8 29 | 21 4.38 | −11 58.4 | 1.687 | 2.654 | 8.0 | 20.4 |
| 9 8 | 20 56.95 | −12 31.8 | 1.735 | 2.640 | 11.9 | 20.6 |
| 9 18 | 20 51.88 | −12 58.2 | 1.805 | 2.625 | 15.3 | 20.8 |

**513764** 2012 $XA_{30}$ 8 10.5 241°.03 2°.1/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.44 | − 7 44.7 | 2.293 | 3.156 | 11.5 | 22.7 |
| 7 20 | 21 38.76 | − 7 54.8 | 2.204 | 3.141 | 8.6 | 22.5 |
| 7 30 | 21 31.46 | − 8 15.6 | 2.139 | 3.126 | 5.3 | 22.3 |
| 8 9 | 21 23.13 | − 8 45.1 | 2.101 | 3.109 | 2.4 | 22.0 |
| 8 19 | 21 14.49 | − 9 20.2 | 2.092 | 3.093 | 3.3 | 22.1 |
| 8 29 | 21 6.36 | − 9 57.2 | 2.110 | 3.076 | 6.7 | 22.3 |
| 9 8 | 20 59.53 | −10 32.5 | 2.156 | 3.058 | 10.0 | 22.4 |
| 9 18 | 20 54.55 | −11 3.2 | 2.224 | 3.040 | 12.9 | 22.6 |

**366096** 2012 $CQ_{55}$ 8 10.5 268°.29 0°.6/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.15 | −15 12.3 | 2.298 | 3.186 | 10.5 | 21.6 |
| 7 20 | 21 37.11 | −15 45.8 | 2.220 | 3.176 | 7.5 | 21.4 |
| 7 30 | 21 30.53 | −16 25.5 | 2.167 | 3.165 | 4.1 | 21.2 |
| 8 9 | 21 23.00 | −17 7.6 | 2.141 | 3.154 | 0.7 | 20.9 |
| 8 19 | 21 15.23 | −17 48.2 | 2.143 | 3.144 | 3.4 | 21.1 |
| 8 29 | 21 8.03 | −18 23.5 | 2.173 | 3.133 | 6.9 | 21.3 |
| 9 8 | 21 2.13 | −18 50.6 | 2.229 | 3.122 | 10.1 | 21.5 |
| 9 18 | 20 58.06 | −19 8.2 | 2.307 | 3.111 | 12.9 | 21.6 |

**237905** 2002 $PA_{38}$ 8 10.5 53°.40 3°.5/13.0 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.55 | − 4 58.3 | 1.680 | 2.550 | 14.6 | 20.4 |
| 7 20 | 21 38.33 | − 5 1.5 | 1.622 | 2.559 | 11.1 | 20.2 |
| 7 30 | 21 31.25 | − 5 20.8 | 1.586 | 2.569 | 7.2 | 20.0 |
| 8 9 | 21 23.09 | − 5 53.7 | 1.574 | 2.578 | 4.0 | 19.8 |
| 8 19 | 21 14.80 | − 6 36.3 | 1.588 | 2.588 | 4.4 | 19.9 |
| 8 29 | 21 7.40 | − 7 23.3 | 1.628 | 2.598 | 7.9 | 20.1 |
| 9 8 | 21 1.75 | − 8 9.3 | 1.693 | 2.608 | 11.5 | 20.3 |
| 9 18 | 20 58.39 | − 8 50.2 | 1.779 | 2.618 | 14.7 | 20.6 |

**254315** 2004 $RA_{320}$ 8 10.5 198°.83 4°.5/14.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.71 | − 0 6.8 | 2.361 | 3.195 | 12.2 | 20.4 |
| 7 20 | 21 36.68 | + 0 0.9 | 2.285 | 3.194 | 9.6 | 20.2 |
| 7 30 | 21 30.25 | − 0 6.0 | 2.231 | 3.193 | 7.0 | 20.1 |
| 8 9 | 21 22.97 | − 0 26.8 | 2.204 | 3.192 | 4.9 | 20.0 |
| 8 19 | 21 15.51 | − 0 59.4 | 2.204 | 3.191 | 4.7 | 19.9 |
| 8 29 | 21 8.59 | − 1 40.4 | 2.231 | 3.191 | 6.7 | 20.1 |
| 9 8 | 21 2.90 | − 2 25.5 | 2.284 | 3.189 | 9.4 | 20.2 |
| 9 18 | 20 58.90 | − 3 10.7 | 2.360 | 3.188 | 11.9 | 20.4 |

**339378** 2005 $AY_{68}$ 8 10.5 165°.10 1°.8/ 8.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.35 | −16 26.0 | 2.015 | 2.909 | 11.5 | 20.6 |
| 7 20 | 21 38.11 | −17 46.1 | 1.952 | 2.911 | 8.1 | 20.4 |
| 7 30 | 21 31.13 | −19 13.4 | 1.914 | 2.913 | 4.4 | 20.2 |
| 8 9 | 21 23.09 | −20 41.6 | 1.904 | 2.915 | 1.8 | 20.0 |
| 8 19 | 21 14.82 | −22 3.8 | 1.922 | 2.917 | 4.5 | 20.2 |
| 8 29 | 21 7.25 | −23 14.5 | 1.968 | 2.918 | 8.2 | 20.5 |
| 9 8 | 21 1.20 | −24 10.0 | 2.039 | 2.920 | 11.5 | 20.7 |
| 9 18 | 20 57.25 | −24 49.0 | 2.131 | 2.920 | 14.3 | 20.9 |

**53353** 1999 $JC_{70}$ 8 10.5 52°.74 7°.8/ 4.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.76 | −34 50.0 | 1.821 | 2.718 | 12.3 | 18.0 |
| 7 20 | 21 40.77 | −36 10.5 | 1.786 | 2.729 | 9.8 | 17.9 |
| 7 30 | 21 32.62 | −37 20.2 | 1.774 | 2.740 | 8.1 | 17.8 |
| 8 9 | 21 23.28 | −38 11.4 | 1.787 | 2.752 | 8.1 | 17.8 |
| 8 19 | 21 13.89 | −38 38.9 | 1.825 | 2.763 | 9.7 | 17.9 |
| 8 29 | 21 5.65 | −38 41.2 | 1.886 | 2.775 | 12.0 | 18.1 |
| 9 8 | 20 59.52 | −38 20.2 | 1.969 | 2.787 | 14.4 | 18.3 |
| 9 18 | 20 56.03 | −37 39.8 | 2.069 | 2.799 | 16.5 | 18.5 |

**325436** Khlebov 8 10.5 294°.91 2°.0/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.01 | − 5 11.6 | 2.182 | 3.045 | 12.0 | 20.2 |
| 7 20 | 21 35.75 | − 6 6.7 | 2.087 | 3.023 | 9.0 | 20.0 |
| 7 30 | 21 29.88 | − 7 18.4 | 2.015 | 3.001 | 5.7 | 19.8 |
| 8 9 | 21 22.95 | − 8 43.5 | 1.970 | 2.978 | 2.5 | 19.5 |
| 8 19 | 21 15.63 | −10 16.8 | 1.953 | 2.956 | 3.3 | 19.5 |
| 8 29 | 21 8.76 | −11 52.1 | 1.965 | 2.933 | 6.8 | 19.7 |
| 9 8 | 21 3.12 | −13 22.9 | 2.003 | 2.911 | 10.4 | 19.9 |
| 9 18 | 20 59.31 | −14 44.4 | 2.065 | 2.888 | 13.5 | 20.1 |

**22913** Brockman 8 10.5 239°.00 0°.3/10.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.36 | −14 32.4 | 1.964 | 2.852 | 12.0 | 18.8 |
| 7 20 | 21 39.60 | −14 57.2 | 1.888 | 2.843 | 8.6 | 18.5 |
| 7 30 | 21 31.99 | −15 29.3 | 1.837 | 2.834 | 4.7 | 18.3 |
| 8 9 | 21 23.22 | −16 4.7 | 1.811 | 2.825 | 0.6 | 18.0 |
| 8 19 | 21 14.18 | −16 39.0 | 1.814 | 2.816 | 3.7 | 18.2 |
| 8 29 | 21 5.84 | −17 8.1 | 1.844 | 2.806 | 7.7 | 18.4 |
| 9 8 | 20 59.10 | −17 29.1 | 1.899 | 2.796 | 11.4 | 18.6 |
| 9 18 | 20 54.55 | −17 40.4 | 1.975 | 2.786 | 14.6 | 18.8 |

**60899** 2000 $JN_{26}$ 8 10.5 31°.72 1°.4/11.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.68 | −12 0.1 | 1.309 | 2.208 | 16.1 | 18.2 |
| 7 20 | 21 40.95 | −11 52.1 | 1.257 | 2.215 | 11.7 | 17.9 |
| 7 30 | 21 32.83 | −11 55.4 | 1.226 | 2.222 | 6.7 | 17.7 |
| 8 9 | 21 23.33 | −12 6.4 | 1.218 | 2.231 | 1.9 | 17.4 |
| 8 19 | 21 13.72 | −12 21.0 | 1.236 | 2.240 | 4.4 | 17.6 |
| 8 29 | 21 5.37 | −12 34.5 | 1.277 | 2.249 | 9.3 | 17.9 |
| 9 8 | 20 59.32 | −12 43.5 | 1.341 | 2.259 | 13.7 | 18.2 |
| 9 18 | 20 56.18 | −12 45.6 | 1.425 | 2.269 | 17.4 | 18.5 |

**355716** 2008 $FQ_{130}$ 8 10.5 71°.46 5°.7/ 5.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.76 | −29 57.4 | 2.097 | 2.996 | 10.9 | 20.4 |
| 7 20 | 21 39.04 | −31 19.9 | 2.063 | 3.015 | 8.2 | 20.2 |
| 7 30 | 21 31.58 | −32 36.5 | 2.054 | 3.033 | 6.1 | 20.1 |
| 8 9 | 21 23.16 | −33 40.3 | 2.071 | 3.052 | 5.9 | 20.2 |
| 8 19 | 21 14.68 | −34 26.5 | 2.115 | 3.070 | 7.5 | 20.3 |
| 8 29 | 21 7.13 | −34 52.6 | 2.185 | 3.089 | 9.9 | 20.5 |
| 9 8 | 21 1.28 | −34 58.8 | 2.277 | 3.107 | 12.3 | 20.7 |
| 9 18 | 20 57.62 | −34 47.4 | 2.389 | 3.126 | 14.4 | 20.9 |

**243044** 2006 $XY_{21}$ 8 10.5 268°.47 3°.4/ 7.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.44 | −22 56.3 | 2.091 | 2.991 | 10.8 | 20.4 |
| 7 20 | 21 38.18 | −23 55.2 | 2.027 | 2.987 | 7.7 | 20.2 |
| 7 30 | 21 31.18 | −24 55.2 | 1.987 | 2.982 | 4.7 | 20.0 |
| 8 9 | 21 23.12 | −25 50.5 | 1.974 | 2.978 | 3.4 | 19.9 |
| 8 19 | 21 14.83 | −26 35.8 | 1.989 | 2.973 | 5.6 | 20.0 |
| 8 29 | 21 7.27 | −27 7.3 | 2.030 | 2.969 | 8.7 | 20.2 |
| 9 8 | 21 1.25 | −27 23.4 | 2.096 | 2.964 | 11.8 | 20.4 |
| 9 18 | 20 57.33 | −27 24.5 | 2.182 | 2.960 | 14.4 | 20.6 |

**92416** 2000 $JS_{42}$ 8 10.5 4°.91 4°.1/ 8.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.75 | −20 59.9 | 0.966 | 1.896 | 17.5 | 19.1 |
| 7 20 | 21 40.34 | −21 44.9 | 0.920 | 1.895 | 12.5 | 18.9 |
| 7 30 | 21 32.78 | −22 34.1 | 0.893 | 1.895 | 7.2 | 18.6 |
| 8 9 | 21 23.34 | −23 17.7 | 0.886 | 1.896 | 4.1 | 18.4 |
| 8 19 | 21 13.69 | −23 46.8 | 0.902 | 1.898 | 7.7 | 18.6 |
| 8 29 | 21 5.63 | −23 55.8 | 0.938 | 1.902 | 12.9 | 18.9 |
| 9 8 | 21 0.55 | −23 43.9 | 0.993 | 1.907 | 17.8 | 19.2 |
| 9 18 | 20 59.10 | −23 13.1 | 1.065 | 1.912 | 21.8 | 19.5 |

**246236** 2007 $RV_{260}$ 8 10.5 285°.26 0°.7/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.24 | −14 49.0 | 1.814 | 2.708 | 12.5 | 20.7 |
| 7 20 | 21 38.24 | −15 32.5 | 1.740 | 2.699 | 8.9 | 20.5 |
| 7 30 | 21 31.30 | −16 24.8 | 1.690 | 2.689 | 4.9 | 20.2 |
| 8 9 | 21 23.15 | −17 20.8 | 1.666 | 2.679 | 0.8 | 19.9 |
| 8 19 | 21 14.68 | −18 14.8 | 1.669 | 2.669 | 4.1 | 20.1 |
| 8 29 | 21 6.94 | −19 1.5 | 1.698 | 2.660 | 8.3 | 20.4 |
| 9 8 | 21 0.85 | −19 37.2 | 1.752 | 2.650 | 12.1 | 20.6 |
| 9 18 | 20 57.05 | −20 0.0 | 1.826 | 2.641 | 15.4 | 20.8 |

**357222** 2002 $JY_{5}$ 8 10.5 68°.65 2°.5/13.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.37 | − 4 3.8 | 2.182 | 3.040 | 12.2 | 20.4 |
| 7 20 | 21 35.77 | − 4 48.2 | 2.120 | 3.052 | 9.2 | 20.3 |
| 7 30 | 21 29.76 | − 5 47.3 | 2.082 | 3.064 | 5.9 | 20.1 |
| 8 9 | 21 22.94 | − 6 57.8 | 2.071 | 3.076 | 3.0 | 19.9 |
| 8 19 | 21 15.99 | − 8 14.8 | 2.087 | 3.088 | 3.4 | 20.0 |
| 8 29 | 21 9.69 | − 9 32.8 | 2.132 | 3.100 | 6.4 | 20.2 |
| 9 8 | 21 4.70 | −10 46.7 | 2.203 | 3.112 | 9.5 | 20.4 |
| 9 18 | 21 1.46 | −11 52.4 | 2.297 | 3.124 | 12.2 | 20.6 |

**279521** 2011 $BW_{26}$ 8 10.5 218°.52 0°.4/10.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.38 | −13 24.6 | 1.769 | 2.659 | 13.0 | 20.9 |
| 7 20 | 21 39.79 | −14 17.1 | 1.697 | 2.653 | 9.3 | 20.7 |
| 7 30 | 21 32.18 | −15 20.3 | 1.649 | 2.647 | 5.1 | 20.4 |
| 8 9 | 21 23.28 | −16 28.6 | 1.627 | 2.640 | 0.7 | 20.1 |
| 8 19 | 21 14.05 | −17 35.5 | 1.632 | 2.633 | 4.1 | 20.3 |
| 8 29 | 21 5.59 | −18 35.0 | 1.664 | 2.626 | 8.5 | 20.6 |
| 9 8 | 20 58.87 | −19 22.8 | 1.721 | 2.618 | 12.4 | 20.8 |
| 9 18 | 20 54.54 | −19 56.6 | 1.799 | 2.610 | 15.7 | 21.0 |

**358914** 2008 $GT_{128}$ 8 10.5 117°.13 2°.0/ 8.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.58 | −17 17.1 | 2.440 | 3.329 | 9.9 | 20.5 |
| 7 20 | 21 37.32 | −18 53.4 | 2.383 | 3.341 | 6.9 | 20.3 |
| 7 30 | 21 30.62 | −20 34.8 | 2.354 | 3.352 | 3.8 | 20.1 |
| 8 9 | 21 23.06 | −22 15.1 | 2.355 | 3.364 | 2.0 | 20.0 |
| 8 19 | 21 15.34 | −23 48.5 | 2.385 | 3.375 | 4.2 | 20.2 |
| 8 29 | 21 8.20 | −25 9.7 | 2.445 | 3.386 | 7.3 | 20.4 |
| 9 8 | 21 2.33 | −26 15.8 | 2.531 | 3.397 | 10.1 | 20.6 |
| 9 18 | 20 58.22 | −27 5.8 | 2.639 | 3.407 | 12.4 | 20.8 |

**278080** 2007 $AK_{29}$ 8 10.5 303°.73 1°.0/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.40 | − 9 2.5 | 2.000 | 2.880 | 12.2 | 20.4 |
| 7 20 | 21 36.08 | − 9 52.1 | 1.919 | 2.868 | 8.9 | 20.2 |
| 7 30 | 21 30.08 | −10 55.4 | 1.862 | 2.856 | 5.2 | 20.0 |
| 8 9 | 21 23.00 | −12 8.0 | 1.832 | 2.844 | 1.5 | 19.7 |
| 8 19 | 21 15.62 | −13 24.7 | 1.829 | 2.832 | 3.3 | 19.8 |
| 8 29 | 21 8.81 | −14 39.4 | 1.853 | 2.821 | 7.3 | 20.0 |
| 9 8 | 21 3.40 | −15 46.7 | 1.903 | 2.809 | 10.9 | 20.2 |
| 9 18 | 20 59.97 | −16 43.0 | 1.975 | 2.798 | 14.1 | 20.4 |

**158149** 2001 $FS_{152}$ 8 10.5 152°.62 1°.4/ 9.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.09 | −18 8.8 | 2.622 | 3.511 | 9.3 | 20.6 |
| 7 20 | 21 36.87 | −18 53.1 | 2.559 | 3.515 | 6.6 | 20.5 |
| 7 30 | 21 30.33 | −19 40.7 | 2.522 | 3.520 | 3.6 | 20.3 |
| 8 9 | 21 23.03 | −20 27.6 | 2.513 | 3.524 | 1.4 | 20.1 |
| 8 19 | 21 15.60 | −21 10.2 | 2.533 | 3.528 | 3.5 | 20.3 |
| 8 29 | 21 8.74 | −21 45.3 | 2.581 | 3.532 | 6.5 | 20.5 |
| 9 8 | 21 3.07 | −22 10.8 | 2.656 | 3.535 | 9.2 | 20.7 |
| 9 18 | 20 59.03 | −22 26.1 | 2.753 | 3.539 | 11.5 | 20.8 |

**161239** 2003 $AP_{69}$ 8 10.5 114°.45 1°.6/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.36 | −10 22.2 | 1.680 | 2.561 | 14.0 | 20.2 |
| 7 20 | 21 41.07 | −10 28.5 | 1.622 | 2.570 | 10.3 | 20.0 |
| 7 30 | 21 32.79 | −10 45.9 | 1.586 | 2.579 | 6.0 | 19.7 |
| 8 9 | 21 23.36 | −11 10.9 | 1.577 | 2.588 | 2.0 | 19.5 |
| 8 19 | 21 13.82 | −11 39.5 | 1.594 | 2.597 | 3.8 | 19.6 |
| 8 29 | 21 5.26 | −12 7.2 | 1.638 | 2.605 | 8.0 | 19.9 |
| 9 8 | 20 58.59 | −12 30.5 | 1.706 | 2.613 | 11.9 | 20.2 |
| 9 18 | 20 54.38 | −12 46.9 | 1.795 | 2.621 | 15.2 | 20.4 |

**56506** 2000 $GH_{174}$ 8 10.5 349°.14 5°.6/ 7.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.62 | −25 41.9 | 1.238 | 2.157 | 15.3 | 18.3 |
| 7 20 | 21 41.33 | −26 27.8 | 1.184 | 2.151 | 11.2 | 18.0 |
| 7 30 | 21 33.24 | −27 11.3 | 1.151 | 2.147 | 7.2 | 17.8 |
| 8 9 | 21 23.43 | −27 43.7 | 1.141 | 2.143 | 5.6 | 17.7 |
| 8 19 | 21 13.39 | −27 57.6 | 1.154 | 2.140 | 8.3 | 17.8 |
| 8 29 | 21 4.72 | −27 49.7 | 1.190 | 2.138 | 12.5 | 18.1 |
| 9 8 | 20 58.68 | −27 20.5 | 1.246 | 2.136 | 16.6 | 18.3 |
| 9 18 | 20 55.95 | −26 33.4 | 1.319 | 2.136 | 20.1 | 18.6 |

**180452** 2004 $BB_{148}$ 8 10.5 112°.80 0°.7/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.14 | −16 18.0 | 1.515 | 2.412 | 14.4 | 20.3 |
| 7 20 | 21 42.55 | −16 32.1 | 1.458 | 2.417 | 10.3 | 20.1 |
| 7 30 | 21 33.68 | −16 52.3 | 1.424 | 2.423 | 5.6 | 19.8 |
| 8 9 | 21 23.49 | −17 13.7 | 1.415 | 2.428 | 0.9 | 19.5 |
| 8 19 | 21 13.17 | −17 31.7 | 1.432 | 2.434 | 4.5 | 19.8 |
| 8 29 | 21 4.00 | −17 42.2 | 1.476 | 2.439 | 9.2 | 20.1 |
| 9 8 | 20 57.02 | −17 43.4 | 1.542 | 2.444 | 13.3 | 20.4 |
| 9 18 | 20 52.81 | −17 34.7 | 1.629 | 2.449 | 16.7 | 20.6 |

**200488** 2000 $YO_{49}$ 8 10.5 286°.89 3°.0/ 7.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.93 | −19 9.0 | 1.720 | 2.624 | 12.6 | 20.2 |
| 7 20 | 21 39.05 | −20 28.2 | 1.636 | 2.600 | 9.0 | 20.0 |
| 7 30 | 21 31.95 | −21 55.8 | 1.577 | 2.576 | 5.2 | 19.7 |
| 8 9 | 21 23.30 | −23 24.3 | 1.543 | 2.551 | 3.1 | 19.5 |
| 8 19 | 21 14.08 | −24 45.3 | 1.536 | 2.527 | 6.0 | 19.6 |
| 8 29 | 21 5.51 | −25 51.6 | 1.555 | 2.502 | 10.2 | 19.8 |
| 9 8 | 20 58.69 | −26 39.1 | 1.597 | 2.477 | 14.2 | 20.0 |
| 9 18 | 20 54.44 | −27 6.5 | 1.659 | 2.453 | 17.6 | 20.2 |

**516626** 2008 $CB_{104}$ 8 10.5 277°.57 0°.8/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.75 | −13 46.5 | 2.038 | 2.928 | 11.5 | 21.2 |
| 7 20 | 21 37.09 | −14 56.9 | 1.957 | 2.913 | 8.2 | 21.0 |
| 7 30 | 21 30.68 | −16 17.9 | 1.900 | 2.898 | 4.5 | 20.7 |
| 8 9 | 21 23.11 | −17 44.1 | 1.870 | 2.883 | 0.9 | 20.4 |
| 8 19 | 21 15.18 | −19 9.0 | 1.868 | 2.868 | 3.9 | 20.6 |
| 8 29 | 21 7.82 | −20 26.3 | 1.895 | 2.852 | 7.9 | 20.8 |
| 9 8 | 21 1.86 | −21 31.3 | 1.946 | 2.837 | 11.5 | 21.0 |
| 9 18 | 20 57.94 | −22 21.3 | 2.019 | 2.822 | 14.6 | 21.2 |

**163581** 2002 $TA_{183}$ 8 10.5 290°.91 1°.4/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.30 | −18 15.9 | 1.847 | 2.743 | 12.3 | 19.2 |
| 7 20 | 21 40.53 | −18 33.8 | 1.760 | 2.719 | 8.8 | 18.9 |
| 7 30 | 21 32.65 | −18 56.1 | 1.697 | 2.696 | 4.9 | 18.6 |
| 8 9 | 21 23.39 | −19 18.1 | 1.660 | 2.673 | 1.5 | 18.3 |
| 8 19 | 21 13.68 | −19 35.6 | 1.650 | 2.649 | 4.5 | 18.5 |
| 8 29 | 21 4.67 | −19 44.9 | 1.667 | 2.625 | 8.7 | 18.7 |
| 9 8 | 20 57.36 | −19 43.8 | 1.708 | 2.602 | 12.6 | 18.9 |
| 9 18 | 20 52.48 | −19 31.9 | 1.769 | 2.578 | 16.0 | 19.1 |

**280058** 2002 $CA_{72}$ 8 10.5 127.°47 1.°2/ 9.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.17 | −16 15.2 | 2.320 | 3.210 | 10.3 | 20.4 |
| 7 20 | 21 37.07 | −17 10.7 | 2.260 | 3.217 | 7.3 | 20.2 |
| 7 30 | 21 30.50 | −18 11.8 | 2.224 | 3.223 | 3.9 | 20.0 |
| 8 9 | 21 23.08 | −19 13.6 | 2.217 | 3.229 | 1.2 | 19.8 |
| 8 19 | 21 15.52 | −20 11.4 | 2.238 | 3.235 | 3.7 | 20.0 |
| 8 29 | 21 8.60 | −21 1.2 | 2.287 | 3.241 | 7.0 | 20.3 |
| 9 8 | 21 2.98 | −21 40.1 | 2.361 | 3.246 | 10.0 | 20.5 |
| 9 18 | 20 59.17 | −22 7.1 | 2.458 | 3.252 | 12.5 | 20.7 |

**316276** 2010 $PL_{51}$ 8 10.5 253.°60 1.°8/ 9.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.20 | −20 3.2 | 2.344 | 3.236 | 10.2 | 21.1 |
| 7 20 | 21 38.55 | −20 28.6 | 2.272 | 3.229 | 7.2 | 20.9 |
| 7 30 | 21 31.34 | −20 56.0 | 2.224 | 3.222 | 4.0 | 20.6 |
| 8 9 | 21 23.20 | −21 21.4 | 2.204 | 3.214 | 1.8 | 20.5 |
| 8 19 | 21 14.87 | −21 41.4 | 2.212 | 3.207 | 4.0 | 20.6 |
| 8 29 | 21 7.18 | −21 53.1 | 2.248 | 3.199 | 7.3 | 20.8 |
| 9 8 | 21 0.86 | −21 55.2 | 2.309 | 3.191 | 10.3 | 21.0 |
| 9 18 | 20 56.43 | −21 47.5 | 2.393 | 3.183 | 12.9 | 21.2 |

**12741** 1992 $EU_{30}$ 8 10.5 175.°62 1.°4/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.39 | − 9 52.1 | 1.914 | 2.792 | 12.7 | 18.8 |
| 7 20 | 21 38.87 | −10 8.9 | 1.845 | 2.792 | 9.3 | 18.6 |
| 7 30 | 21 31.59 | −10 36.6 | 1.801 | 2.793 | 5.5 | 18.4 |
| 8 9 | 21 23.24 | −11 12.0 | 1.782 | 2.793 | 1.8 | 18.1 |
| 8 19 | 21 14.69 | −11 50.9 | 1.790 | 2.793 | 3.5 | 18.2 |
| 8 29 | 21 6.90 | −12 29.1 | 1.826 | 2.794 | 7.4 | 18.5 |
| 9 8 | 21 0.69 | −13 2.6 | 1.887 | 2.793 | 11.0 | 18.7 |
| 9 18 | 20 56.62 | −13 28.7 | 1.970 | 2.793 | 14.1 | 18.9 |

**268871** 2007 $AB_{10}$ 8 10.5 152.°40 0.°3/10.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.96 | −12 46.1 | 1.830 | 2.714 | 12.9 | 21.4 |
| 7 20 | 21 40.73 | −13 11.9 | 1.768 | 2.720 | 9.3 | 21.2 |
| 7 30 | 21 32.61 | −13 46.5 | 1.729 | 2.726 | 5.2 | 21.0 |
| 8 9 | 21 23.38 | −14 25.9 | 1.717 | 2.731 | 0.8 | 20.7 |
| 8 19 | 21 13.99 | −15 5.1 | 1.733 | 2.736 | 3.7 | 20.9 |
| 8 29 | 21 5.47 | −15 39.9 | 1.776 | 2.740 | 7.8 | 21.2 |
| 9 8 | 20 58.71 | −16 6.9 | 1.844 | 2.744 | 11.5 | 21.4 |
| 9 18 | 20 54.27 | −16 24.3 | 1.933 | 2.747 | 14.7 | 21.6 |

**294266** 2007 $UN_{95}$ 8 10.5 11.°58 1.°5/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.43 | −10 7.9 | 1.671 | 2.558 | 13.8 | 20.3 |
| 7 20 | 21 38.37 | −10 19.6 | 1.608 | 2.559 | 10.1 | 20.1 |
| 7 30 | 21 31.38 | −10 43.1 | 1.567 | 2.560 | 5.9 | 19.9 |
| 8 9 | 21 23.23 | −11 15.1 | 1.551 | 2.562 | 1.9 | 19.6 |
| 8 19 | 21 14.88 | −11 51.1 | 1.561 | 2.564 | 3.7 | 19.8 |
| 8 29 | 21 7.40 | −12 26.5 | 1.597 | 2.567 | 8.0 | 20.0 |
| 9 8 | 21 1.68 | −12 56.9 | 1.657 | 2.570 | 11.9 | 20.3 |
| 9 18 | 20 58.30 | −13 19.5 | 1.738 | 2.573 | 15.2 | 20.5 |

**106142** 2000 $TT_{44}$ 8 10.5 227.°65 2.°3/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.27 | −17 52.6 | 1.566 | 2.467 | 13.8 | 20.1 |
| 7 20 | 21 41.43 | −18 54.5 | 1.498 | 2.460 | 9.8 | 19.9 |
| 7 30 | 21 33.22 | −20 4.0 | 1.453 | 2.452 | 5.4 | 19.6 |
| 8 9 | 21 23.49 | −21 13.8 | 1.433 | 2.444 | 2.3 | 19.4 |
| 8 19 | 21 13.37 | −22 16.1 | 1.440 | 2.436 | 5.6 | 19.6 |
| 8 29 | 21 4.18 | −23 4.7 | 1.473 | 2.427 | 10.0 | 19.8 |
| 9 8 | 20 57.04 | −23 36.2 | 1.529 | 2.418 | 14.2 | 20.0 |
| 9 18 | 20 52.67 | −23 50.2 | 1.604 | 2.408 | 17.6 | 20.3 |

**261926** 2006 $KL_{100}$ 8 10.5 45.°96 3.°4/ 8.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.57 | −20 7.6 | 1.123 | 2.042 | 16.6 | 20.1 |
| 7 20 | 21 41.90 | −20 57.2 | 1.084 | 2.054 | 11.7 | 19.9 |
| 7 30 | 21 33.47 | −21 50.7 | 1.066 | 2.066 | 6.6 | 19.6 |
| 8 9 | 21 23.50 | −22 39.1 | 1.070 | 2.080 | 3.4 | 19.5 |
| 8 19 | 21 13.53 | −23 14.4 | 1.097 | 2.093 | 6.8 | 19.7 |
| 8 29 | 21 5.13 | −23 31.9 | 1.148 | 2.108 | 11.6 | 20.0 |
| 9 8 | 20 59.46 | −23 30.7 | 1.219 | 2.122 | 16.0 | 20.3 |
| 9 18 | 20 57.08 | −23 12.5 | 1.308 | 2.137 | 19.6 | 20.6 |

**362556** 2010 $VT_{24}$ 8 10.5 233.°67 4.°5/ 6.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.64 | −28 26.9 | 2.441 | 3.335 | 9.7 | 21.1 |
| 7 20 | 21 38.91 | −29 19.7 | 2.376 | 3.329 | 7.2 | 20.9 |
| 7 30 | 21 31.57 | −30 9.2 | 2.338 | 3.322 | 5.1 | 20.8 |
| 8 9 | 21 23.25 | −30 50.3 | 2.326 | 3.316 | 4.6 | 20.7 |
| 8 19 | 21 14.75 | −31 18.6 | 2.342 | 3.309 | 6.2 | 20.8 |
| 8 29 | 21 6.91 | −31 31.8 | 2.385 | 3.302 | 8.6 | 21.0 |
| 9 8 | 21 0.51 | −31 29.5 | 2.451 | 3.294 | 11.1 | 21.1 |
| 9 18 | 20 56.06 | −31 12.7 | 2.539 | 3.287 | 13.3 | 21.3 |

**119835** 2002 $CC_{8}$ 8 10.5 121.°44 1.°3/ 9.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.50 | −17 52.8 | 2.397 | 3.286 | 10.1 | 20.2 |
| 7 20 | 21 37.93 | −18 32.3 | 2.340 | 3.297 | 7.1 | 20.1 |
| 7 30 | 21 30.95 | −19 15.2 | 2.309 | 3.307 | 3.8 | 19.9 |
| 8 9 | 21 23.17 | −19 57.4 | 2.305 | 3.317 | 1.3 | 19.7 |
| 8 19 | 21 15.29 | −20 35.1 | 2.331 | 3.327 | 3.6 | 19.9 |
| 8 29 | 21 8.10 | −21 5.0 | 2.384 | 3.337 | 6.8 | 20.1 |
| 9 8 | 21 2.23 | −21 25.3 | 2.463 | 3.346 | 9.7 | 20.3 |
| 9 18 | 20 58.15 | −21 35.3 | 2.564 | 3.355 | 12.1 | 20.5 |

**282859** 2007 $CU_{23}$ 8 10.5 255.°63 0.°4/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.51 | −11 5.2 | 1.717 | 2.603 | 13.5 | 21.1 |
| 7 20 | 21 39.32 | −11 55.4 | 1.637 | 2.590 | 9.8 | 20.9 |
| 7 30 | 21 32.03 | −12 59.5 | 1.579 | 2.576 | 5.5 | 20.6 |
| 8 9 | 21 23.34 | −14 12.3 | 1.548 | 2.561 | 0.9 | 20.2 |
| 8 19 | 21 14.22 | −15 27.4 | 1.544 | 2.547 | 3.9 | 20.4 |
| 8 29 | 21 5.80 | −16 37.8 | 1.566 | 2.531 | 8.5 | 20.7 |
| 9 8 | 20 59.09 | −17 37.9 | 1.613 | 2.516 | 12.7 | 20.9 |
| 9 18 | 20 54.83 | −18 24.4 | 1.681 | 2.500 | 16.3 | 21.1 |

**316967** 2001 $FZ_{80}$ 8 10.5 71.°59 5.°3/14.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.38 | − 1 17.2 | 1.409 | 2.266 | 17.6 | 20.8 |
| 7 20 | 21 42.48 | − 1 13.6 | 1.374 | 2.300 | 13.6 | 20.7 |
| 7 30 | 21 33.51 | − 1 31.9 | 1.360 | 2.333 | 9.3 | 20.5 |
| 8 9 | 21 23.51 | − 2 9.4 | 1.369 | 2.366 | 5.9 | 20.4 |
| 8 19 | 21 13.67 | − 3 0.9 | 1.404 | 2.399 | 5.8 | 20.5 |
| 8 29 | 21 5.17 | − 3 59.4 | 1.465 | 2.431 | 8.9 | 20.8 |
| 9 8 | 20 58.88 | − 4 58.0 | 1.549 | 2.463 | 12.5 | 21.0 |
| 9 18 | 20 55.28 | − 5 51.3 | 1.654 | 2.494 | 15.6 | 21.3 |

**376136** 2011 $AO_{68}$ 8 10.5 180.°44 0.°2/10.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.59 | −12 59.5 | 1.768 | 2.655 | 13.2 | 21.9 |
| 7 20 | 21 40.59 | −13 28.0 | 1.702 | 2.656 | 9.5 | 21.7 |
| 7 30 | 21 32.61 | −14 5.8 | 1.659 | 2.656 | 5.3 | 21.5 |
| 8 9 | 21 23.42 | −14 48.6 | 1.643 | 2.656 | 0.8 | 21.1 |
| 8 19 | 21 14.01 | −15 31.2 | 1.653 | 2.656 | 3.8 | 21.4 |
| 8 29 | 21 5.46 | −16 8.8 | 1.691 | 2.655 | 8.1 | 21.6 |
| 9 8 | 20 58.70 | −16 37.9 | 1.753 | 2.654 | 12.0 | 21.9 |
| 9 18 | 20 54.32 | −16 56.6 | 1.837 | 2.653 | 15.3 | 22.1 |

**50485** 2000 $DX_{83}$ 8 10.5 338.°01 2.°8/ 8.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.41 | −19 6.9 | 1.552 | 2.462 | 13.3 | 18.7 |
| 7 20 | 21 37.93 | −20 8.4 | 1.489 | 2.455 | 9.5 | 18.4 |
| 7 30 | 21 31.28 | −21 16.1 | 1.448 | 2.448 | 5.3 | 18.2 |
| 8 9 | 21 23.26 | −22 22.7 | 1.432 | 2.442 | 2.8 | 18.0 |
| 8 19 | 21 14.93 | −23 21.0 | 1.442 | 2.436 | 5.8 | 18.2 |
| 8 29 | 21 7.50 | −24 4.9 | 1.476 | 2.431 | 10.0 | 18.4 |
| 9 8 | 21 2.00 | −24 31.4 | 1.533 | 2.426 | 13.9 | 18.6 |
| 9 18 | 20 59.10 | −24 40.2 | 1.609 | 2.422 | 17.2 | 18.9 |

**177974** 2006 $QS_{8}$ 8 10.5 311.°02 1.°0/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.36 | −17 16.3 | 1.288 | 2.195 | 15.7 | 19.8 |
| 7 20 | 21 42.57 | −17 18.0 | 1.218 | 2.182 | 11.3 | 19.5 |
| 7 30 | 21 34.00 | −17 25.6 | 1.170 | 2.170 | 6.2 | 19.2 |
| 8 9 | 21 23.64 | −17 33.9 | 1.144 | 2.158 | 1.2 | 18.8 |
| 8 19 | 21 12.84 | −17 38.0 | 1.144 | 2.146 | 5.2 | 19.1 |
| 8 29 | 21 3.18 | −17 34.0 | 1.167 | 2.135 | 10.5 | 19.4 |
| 9 8 | 20 55.98 | −17 20.0 | 1.212 | 2.124 | 15.4 | 19.6 |
| 9 18 | 20 52.01 | −16 55.9 | 1.276 | 2.113 | 19.5 | 19.8 |

**324451** 2006 $TA_{107}$ 8 10.5 18.°08 6.°9/ 6.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.56 | −28 27.7 | 1.353 | 2.265 | 14.7 | 19.6 |
| 7 20 | 21 42.60 | −29 38.6 | 1.305 | 2.267 | 11.0 | 19.3 |
| 7 30 | 21 33.91 | −30 44.4 | 1.279 | 2.268 | 7.8 | 19.2 |
| 8 9 | 21 23.61 | −31 35.1 | 1.277 | 2.269 | 7.0 | 19.1 |
| 8 19 | 21 13.12 | −32 3.2 | 1.299 | 2.271 | 9.4 | 19.3 |
| 8 29 | 21 4.02 | −32 5.5 | 1.343 | 2.273 | 12.9 | 19.5 |
| 9 8 | 20 57.50 | −31 43.3 | 1.408 | 2.275 | 16.5 | 19.7 |
| 9 18 | 20 54.21 | −31 0.8 | 1.491 | 2.278 | 19.5 | 19.9 |

**454838** 2015 $RS_{222}$ 8 10.5 2.°19 5.°1/ 6.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.41 | −29 3.8 | 2.040 | 2.939 | 11.1 | 20.9 |
| 7 20 | 21 39.63 | −29 46.6 | 1.984 | 2.939 | 8.3 | 20.7 |
| 7 30 | 21 32.01 | −30 24.4 | 1.953 | 2.939 | 5.8 | 20.6 |
| 8 9 | 21 23.34 | −30 51.6 | 1.948 | 2.939 | 5.2 | 20.5 |
| 8 19 | 21 14.56 | −31 4.1 | 1.969 | 2.939 | 6.9 | 20.6 |
| 8 29 | 21 6.67 | −30 59.6 | 2.016 | 2.940 | 9.6 | 20.8 |
| 9 8 | 21 0.52 | −30 38.7 | 2.087 | 2.941 | 12.4 | 21.0 |
| 9 18 | 20 56.64 | −30 3.4 | 2.177 | 2.942 | 14.8 | 21.2 |

**344996** 2005 $AG_{52}$ 8 10.5 274.°58 0.°4/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.94 | − 9 42.0 | 1.893 | 2.774 | 12.7 | 20.9 |
| 7 20 | 21 38.14 | −10 53.6 | 1.801 | 2.751 | 9.3 | 20.6 |
| 7 30 | 21 31.39 | −12 21.6 | 1.733 | 2.728 | 5.3 | 20.3 |
| 8 9 | 21 23.29 | −14 0.6 | 1.692 | 2.705 | 0.9 | 20.0 |
| 8 19 | 21 14.68 | −15 43.5 | 1.679 | 2.682 | 3.7 | 20.1 |
| 8 29 | 21 6.58 | −17 22.5 | 1.694 | 2.658 | 8.1 | 20.3 |
| 9 8 | 20 59.96 | −18 50.8 | 1.734 | 2.634 | 12.2 | 20.5 |
| 9 18 | 20 55.56 | −20 4.1 | 1.797 | 2.609 | 15.7 | 20.7 |

**355395** 2007 $UE_{7}$ 8 10.5 305.°73 1.°6/11.3 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.87 | −12 33.5 | 1.655 | 2.542 | 13.9 | 20.7 |
| 7 20 | 21 41.81 | −12 6.6 | 1.569 | 2.520 | 10.3 | 20.4 |
| 7 30 | 21 33.46 | −11 46.6 | 1.505 | 2.499 | 6.1 | 20.1 |
| 8 9 | 21 23.57 | −11 31.7 | 1.466 | 2.478 | 1.9 | 19.8 |
| 8 19 | 21 13.22 | −11 19.8 | 1.453 | 2.456 | 4.1 | 19.9 |
| 8 29 | 21 3.62 | −11 8.4 | 1.468 | 2.436 | 8.7 | 20.2 |
| 9 8 | 20 55.90 | −10 55.4 | 1.506 | 2.415 | 13.0 | 20.4 |
| 9 18 | 20 50.82 | −10 39.2 | 1.564 | 2.395 | 16.8 | 20.6 |

**244467** 2002 $RQ_{203}$ 8 10.5 6.°79 1.°9/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.05 | −19 51.0 | 1.449 | 2.357 | 14.3 | 19.3 |
| 7 20 | 21 41.20 | −19 54.0 | 1.393 | 2.357 | 10.2 | 19.0 |
| 7 30 | 21 33.02 | −19 59.1 | 1.358 | 2.358 | 5.6 | 18.8 |
| 8 9 | 21 23.49 | −20 1.5 | 1.348 | 2.360 | 1.9 | 18.5 |
| 8 19 | 21 13.84 | −19 57.2 | 1.363 | 2.363 | 5.1 | 18.8 |
| 8 29 | 21 5.38 | −19 43.5 | 1.403 | 2.366 | 9.6 | 19.0 |
| 9 8 | 20 59.13 | −19 19.9 | 1.466 | 2.370 | 13.7 | 19.3 |
| 9 18 | 20 55.69 | −18 47.0 | 1.549 | 2.375 | 17.2 | 19.5 |

**294001** 2007 $TM_{87}$ 8 10.5 4.°93 4.°0/13.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.73 | − 4 21.0 | 1.168 | 2.057 | 18.3 | 20.2 |
| 7 20 | 21 38.50 | − 4 39.4 | 1.109 | 2.057 | 13.9 | 20.0 |
| 7 30 | 21 31.72 | − 5 22.3 | 1.069 | 2.057 | 9.1 | 19.7 |
| 8 9 | 21 23.33 | − 6 26.1 | 1.051 | 2.057 | 4.7 | 19.5 |
| 8 19 | 21 14.62 | − 7 43.7 | 1.056 | 2.059 | 5.3 | 19.5 |
| 8 29 | 21 7.04 | − 9 5.5 | 1.084 | 2.061 | 9.9 | 19.8 |
| 9 8 | 21 1.78 | −10 22.4 | 1.134 | 2.063 | 14.7 | 20.1 |
| 9 18 | 20 59.56 | −11 27.5 | 1.203 | 2.066 | 18.8 | 20.3 |

**377289** 2004 $FX_{25}$ 8 10.5 125.°89 11.°9/ 3.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 22 0.54 | −46 4.6 | 1.706 | 2.565 | 14.9 | 20.4 |
| 7 20 | 21 50.98 | −47 11.0 | 1.674 | 2.573 | 13.1 | 20.3 |
| 7 30 | 21 38.37 | −47 54.6 | 1.663 | 2.581 | 12.0 | 20.3 |
| 8 9 | 21 24.19 | −48 6.6 | 1.674 | 2.589 | 12.1 | 20.3 |
| 8 19 | 21 10.25 | −47 43.0 | 1.709 | 2.596 | 13.3 | 20.4 |
| 8 29 | 20 58.32 | −46 45.6 | 1.765 | 2.603 | 15.1 | 20.5 |
| 9 8 | 20 49.59 | −45 21.1 | 1.841 | 2.610 | 17.1 | 20.7 |
| 9 18 | 20 44.56 | −43 37.3 | 1.935 | 2.617 | 18.9 | 20.9 |

**252814** 2002 $GA_{43}$ 8 10.5 268.°43 4.°6/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.01 | − 0 21.4 | 2.264 | 3.101 | 12.5 | 20.5 |
| 7 20 | 21 37.02 | − 0 10.9 | 2.186 | 3.097 | 9.9 | 20.3 |
| 7 30 | 21 30.55 | − 0 15.5 | 2.131 | 3.094 | 7.2 | 20.1 |
| 8 9 | 21 23.17 | − 0 34.3 | 2.102 | 3.091 | 5.0 | 20.0 |
| 8 19 | 21 15.59 | − 1 5.3 | 2.099 | 3.088 | 4.9 | 20.0 |
| 8 29 | 21 8.57 | − 1 45.2 | 2.123 | 3.084 | 7.0 | 20.1 |
| 9 8 | 21 2.81 | − 2 29.4 | 2.174 | 3.081 | 9.7 | 20.3 |
| 9 18 | 20 58.81 | − 3 13.9 | 2.247 | 3.078 | 12.3 | 20.4 |

**235398** 2003 $WV_{162}$ 8 10.5 5.°21 8.°7/ 4.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.95 | −31 59.2 | 1.371 | 2.287 | 14.3 | 19.0 |
| 7 20 | 21 39.39 | −33 40.8 | 1.329 | 2.286 | 11.2 | 18.8 |
| 7 30 | 21 32.19 | −35 14.1 | 1.309 | 2.287 | 9.0 | 18.7 |
| 8 9 | 21 23.40 | −36 27.9 | 1.312 | 2.289 | 9.0 | 18.7 |
| 8 19 | 21 14.39 | −37 13.9 | 1.338 | 2.291 | 11.2 | 18.8 |
| 8 29 | 21 6.67 | −37 28.8 | 1.386 | 2.295 | 14.2 | 19.0 |
| 9 8 | 21 1.42 | −37 14.2 | 1.453 | 2.299 | 17.2 | 19.2 |
| 9 18 | 20 59.28 | −36 34.7 | 1.537 | 2.304 | 19.9 | 19.4 |

**510920** 2013 $EM_{16}$ 8 10.5 25.°27 1.°1/11.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.13 | − 8 53.6 | 1.815 | 2.699 | 13.0 | 20.7 |
| 7 20 | 21 35.91 | − 9 43.7 | 1.755 | 2.706 | 9.5 | 20.5 |
| 7 30 | 21 30.00 | −10 47.4 | 1.719 | 2.713 | 5.5 | 20.3 |
| 8 9 | 21 23.10 | −11 59.8 | 1.709 | 2.721 | 1.6 | 20.0 |
| 8 19 | 21 16.04 | −13 15.0 | 1.725 | 2.729 | 3.4 | 20.2 |
| 8 29 | 21 9.74 | −14 26.8 | 1.769 | 2.738 | 7.4 | 20.5 |
| 9 8 | 21 4.98 | −15 30.0 | 1.837 | 2.747 | 11.0 | 20.7 |
| 9 18 | 21 2.29 | −16 21.2 | 1.927 | 2.757 | 14.1 | 20.9 |

**132292** 2002 $FV_{32}$ 8 10.5 241.°99 5.°2/ 6.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.19 | −28 7.7 | 1.906 | 2.803 | 11.9 | 20.6 |
| 7 20 | 21 42.58 | −28 59.4 | 1.838 | 2.792 | 8.9 | 20.4 |
| 7 30 | 21 33.78 | −29 47.5 | 1.794 | 2.780 | 6.1 | 20.2 |
| 8 9 | 21 23.63 | −30 25.1 | 1.776 | 2.769 | 5.3 | 20.1 |
| 8 19 | 21 13.18 | −30 46.7 | 1.785 | 2.757 | 7.3 | 20.2 |
| 8 29 | 21 3.63 | −30 49.3 | 1.820 | 2.744 | 10.4 | 20.4 |
| 9 8 | 20 56.01 | −30 33.1 | 1.878 | 2.732 | 13.6 | 20.5 |
| 9 18 | 20 50.98 | −30 0.4 | 1.956 | 2.718 | 16.3 | 20.7 |

**114718** 2003 $GN_{23}$ 8 10.5 54.°04 5.°3/15.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.06 | + 2 15.4 | 2.029 | 2.860 | 13.9 | 19.3 |
| 7 20 | 21 36.41 | + 2 10.9 | 1.964 | 2.869 | 11.2 | 19.1 |
| 7 30 | 21 30.22 | + 1 47.3 | 1.920 | 2.877 | 8.3 | 19.0 |
| 8 9 | 21 23.14 | + 1 5.7 | 1.901 | 2.886 | 5.9 | 18.9 |
| 8 19 | 21 15.90 | + 0 9.3 | 1.909 | 2.895 | 5.5 | 18.9 |
| 8 29 | 21 9.34 | − 0 56.9 | 1.942 | 2.904 | 7.4 | 19.0 |
| 9 8 | 21 4.18 | − 2 6.9 | 2.002 | 2.913 | 10.2 | 19.2 |
| 9 18 | 21 0.91 | − 3 15.2 | 2.084 | 2.922 | 12.9 | 19.4 |

**69194** 1118 $T_{-2}$ 8 10.5 312.°59 0.°8/11.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.77 | −11 52.1 | 1.599 | 2.492 | 14.0 | 19.1 |
| 7 20 | 21 38.85 | −12 9.9 | 1.525 | 2.481 | 10.2 | 18.8 |
| 7 30 | 21 31.79 | −12 39.1 | 1.473 | 2.470 | 5.8 | 18.6 |
| 8 9 | 21 23.37 | −13 15.8 | 1.446 | 2.459 | 1.3 | 18.2 |
| 8 19 | 21 14.59 | −13 55.0 | 1.445 | 2.449 | 3.9 | 18.4 |
| 8 29 | 21 6.63 | −14 31.6 | 1.470 | 2.439 | 8.6 | 18.7 |
| 9 8 | 21 0.50 | −15 1.1 | 1.518 | 2.429 | 12.8 | 18.9 |
| 9 18 | 20 56.90 | −15 20.8 | 1.586 | 2.420 | 16.4 | 19.1 |

**257033** 2008 $FL_{41}$ 8 10.5 211.°15 1.°9/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.19 | −19 14.9 | 2.227 | 3.121 | 10.5 | 20.9 |
| 7 20 | 21 37.91 | −19 59.0 | 2.161 | 3.120 | 7.4 | 20.7 |
| 7 30 | 21 31.06 | −20 46.4 | 2.120 | 3.119 | 4.1 | 20.5 |
| 8 9 | 21 23.25 | −21 32.4 | 2.107 | 3.117 | 1.9 | 20.3 |
| 8 19 | 21 15.27 | −22 12.6 | 2.122 | 3.116 | 4.2 | 20.5 |
| 8 29 | 21 7.96 | −22 43.4 | 2.164 | 3.114 | 7.5 | 20.7 |
| 9 8 | 21 2.05 | −23 2.8 | 2.231 | 3.112 | 10.6 | 20.9 |
| 9 18 | 20 58.07 | −23 10.2 | 2.319 | 3.111 | 13.2 | 21.1 |

**268989** 2007 $EM_{90}$ 8 10.5 34.°02 1.°6/11.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.33 | − 9 19.1 | 1.321 | 2.218 | 16.1 | 20.8 |
| 7 20 | 21 38.60 | − 9 46.3 | 1.271 | 2.227 | 11.8 | 20.6 |
| 7 30 | 21 31.62 | −10 29.5 | 1.242 | 2.238 | 6.9 | 20.3 |
| 8 9 | 21 23.34 | −11 23.6 | 1.237 | 2.249 | 2.2 | 20.1 |
| 8 19 | 21 14.93 | −12 21.8 | 1.256 | 2.260 | 4.2 | 20.2 |
| 8 29 | 21 7.65 | −13 17.1 | 1.299 | 2.272 | 9.0 | 20.6 |
| 9 8 | 21 2.52 | −14 3.8 | 1.365 | 2.285 | 13.4 | 20.8 |
| 9 18 | 21 0.10 | −14 38.5 | 1.451 | 2.298 | 17.0 | 21.1 |

**205194** 2000 $ES_{5}$ 8 10.5 46.°29 1.°6/11.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.36 | − 6 47.1 | 1.721 | 2.599 | 13.9 | 19.6 |
| 7 20 | 21 36.88 | − 7 51.9 | 1.660 | 2.606 | 10.2 | 19.4 |
| 7 30 | 21 30.59 | − 9 13.7 | 1.622 | 2.613 | 6.1 | 19.2 |
| 8 9 | 21 23.20 | −10 47.1 | 1.609 | 2.620 | 2.1 | 19.0 |
| 8 19 | 21 15.63 | −12 24.9 | 1.624 | 2.627 | 3.6 | 19.1 |
| 8 29 | 21 8.84 | −13 59.1 | 1.665 | 2.635 | 7.7 | 19.4 |
| 9 8 | 21 3.70 | −15 23.3 | 1.732 | 2.643 | 11.6 | 19.6 |
| 9 18 | 21 0.76 | −16 33.3 | 1.821 | 2.651 | 14.8 | 19.8 |

**383939** 2008 $SV_{239}$ 8 10.5 3.°45 7.°7/ 6.3 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.97 | −27 32.5 | 0.957 | 1.895 | 16.8 | 19.2 |
| 7 20 | 21 37.04 | −28 40.8 | 0.918 | 1.893 | 12.5 | 18.9 |
| 7 30 | 21 31.06 | −29 44.0 | 0.897 | 1.892 | 8.8 | 18.7 |
| 8 9 | 21 23.28 | −30 30.4 | 0.896 | 1.894 | 7.8 | 18.7 |
| 8 19 | 21 15.33 | −30 51.1 | 0.916 | 1.899 | 10.6 | 18.9 |
| 8 29 | 21 8.98 | −30 42.3 | 0.956 | 1.905 | 14.7 | 19.1 |
| 9 8 | 21 5.52 | −30 6.0 | 1.013 | 1.913 | 18.7 | 19.4 |
| 9 18 | 21 5.50 | −29 6.8 | 1.086 | 1.924 | 22.2 | 19.7 |

**34229** 2000 $QE_{92}$ 8 10.5 93.°56 2.°2/11.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.35 | − 8 57.1 | 1.367 | 2.253 | 16.3 | 19.0 |
| 7 20 | 21 42.11 | − 9 6.6 | 1.315 | 2.266 | 12.0 | 18.8 |
| 7 30 | 21 33.53 | − 9 31.2 | 1.285 | 2.278 | 7.2 | 18.6 |
| 8 9 | 21 23.61 | −10 6.7 | 1.279 | 2.290 | 2.7 | 18.3 |
| 8 19 | 21 13.59 | −10 47.8 | 1.298 | 2.301 | 4.4 | 18.5 |
| 8 29 | 21 4.78 | −11 28.4 | 1.342 | 2.313 | 9.1 | 18.8 |
| 9 8 | 20 58.24 | −12 3.6 | 1.410 | 2.324 | 13.4 | 19.1 |
| 9 18 | 20 54.55 | −12 29.9 | 1.497 | 2.336 | 17.0 | 19.3 |

**358853** 2008 $FC_{77}$ 8 10.5 221.°10 0.°3/10.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.21 | −14 35.1 | 2.234 | 3.119 | 10.8 | 21.6 |
| 7 20 | 21 37.92 | −15 3.2 | 2.163 | 3.117 | 7.7 | 21.4 |
| 7 30 | 21 31.06 | −15 37.7 | 2.117 | 3.114 | 4.2 | 21.2 |
| 8 9 | 21 23.28 | −16 14.9 | 2.098 | 3.111 | 0.6 | 20.9 |
| 8 19 | 21 15.31 | −16 50.9 | 2.107 | 3.108 | 3.3 | 21.1 |
| 8 29 | 21 7.97 | −17 22.1 | 2.143 | 3.105 | 6.9 | 21.3 |
| 9 8 | 21 2.00 | −17 45.9 | 2.206 | 3.102 | 10.1 | 21.5 |
| 9 18 | 20 57.90 | −18 0.7 | 2.291 | 3.098 | 12.9 | 21.7 |

**390178** 2012 $WF_{6}$ 8 10.5 329.°26 4.°9/ 6.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.01 | −25 12.0 | 1.669 | 2.577 | 12.7 | 20.4 |
| 7 20 | 21 39.74 | −26 18.9 | 1.611 | 2.573 | 9.2 | 20.2 |
| 7 30 | 21 32.27 | −27 25.2 | 1.576 | 2.569 | 6.0 | 20.0 |
| 8 9 | 21 23.45 | −28 23.2 | 1.566 | 2.565 | 5.0 | 19.9 |
| 8 19 | 21 14.39 | −29 6.1 | 1.582 | 2.561 | 7.3 | 20.1 |
| 8 29 | 21 6.28 | −29 29.8 | 1.623 | 2.558 | 10.7 | 20.3 |
| 9 8 | 21 0.15 | −29 33.3 | 1.686 | 2.555 | 14.1 | 20.5 |
| 9 18 | 20 56.64 | −29 18.3 | 1.768 | 2.552 | 17.0 | 20.7 |

**347272** 2011 $KG_{34}$ 8 10.5 62.°02 2.°5/12.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.25 | − 8 2.2 | 1.535 | 2.416 | 15.2 | 20.7 |
| 7 20 | 21 40.32 | − 8 8.6 | 1.491 | 2.437 | 11.2 | 20.5 |
| 7 30 | 21 32.42 | − 8 29.1 | 1.468 | 2.458 | 6.8 | 20.3 |
| 8 9 | 21 23.46 | − 9 0.3 | 1.471 | 2.480 | 2.9 | 20.1 |
| 8 19 | 21 14.51 | − 9 37.4 | 1.499 | 2.501 | 4.1 | 20.2 |
| 8 29 | 21 6.68 | −10 15.3 | 1.553 | 2.523 | 8.1 | 20.5 |
| 9 8 | 21 0.83 | −10 49.2 | 1.630 | 2.544 | 12.0 | 20.8 |
| 9 18 | 20 57.47 | −11 16.2 | 1.730 | 2.566 | 15.2 | 21.1 |

**105981** 2000 $SS_{268}$ 8 10.5 268.°92 2.°6/12.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.43 | − 5 25.1 | 2.208 | 3.069 | 11.9 | 19.9 |
| 7 20 | 21 36.70 | − 5 46.5 | 2.125 | 3.059 | 9.0 | 19.7 |
| 7 30 | 21 30.44 | − 6 21.4 | 2.066 | 3.049 | 5.8 | 19.5 |
| 8 9 | 21 23.21 | − 7 7.4 | 2.034 | 3.039 | 3.0 | 19.3 |
| 8 19 | 21 15.72 | − 8 1.0 | 2.029 | 3.029 | 3.5 | 19.3 |
| 8 29 | 21 8.77 | − 8 57.6 | 2.051 | 3.019 | 6.6 | 19.5 |
| 9 8 | 21 3.09 | − 9 52.6 | 2.100 | 3.009 | 9.9 | 19.6 |
| 9 18 | 20 59.22 | −10 42.2 | 2.172 | 2.999 | 12.8 | 19.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **221437** 2006 $AQ_{15}$ | | | 8 10.5 160°.03 | | 0°.2/10.7 18 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.98 | −13 7.7 | 2.676 | 3.554 | 9.6 | 21.1 |
| 7 20 | 21 36.80 | −13 34.7 | 2.608 | 3.557 | 6.8 | 20.9 |
| 7 30 | 21 30.37 | −14 7.8 | 2.565 | 3.561 | 3.8 | 20.8 |
| 8 9 | 21 23.20 | −14 43.9 | 2.551 | 3.564 | 0.6 | 20.5 |
| 8 19 | 21 15.90 | −15 20.0 | 2.565 | 3.567 | 2.7 | 20.7 |
| 8 29 | 21 9.14 | −15 53.0 | 2.608 | 3.569 | 5.8 | 20.9 |
| 9 8 | 21 3.50 | −16 20.4 | 2.677 | 3.572 | 8.6 | 21.1 |
| 9 18 | 20 59.42 | −16 40.7 | 2.770 | 3.574 | 11.0 | 21.3 |
| **399869** 2005 $UQ_{463}$ | | | 8 10.5 329°.08 | | 6°.2/ 5.4 15 | |
| 7 10 | 21 44.62 | −30 17.9 | 1.855 | 2.759 | 11.8 | 20.7 |
| 7 20 | 21 39.38 | −31 25.4 | 1.797 | 2.751 | 9.0 | 20.5 |
| 7 30 | 21 32.05 | −32 28.0 | 1.762 | 2.743 | 6.8 | 20.3 |
| 8 9 | 21 23.44 | −33 18.0 | 1.752 | 2.736 | 6.4 | 20.3 |
| 8 19 | 21 14.58 | −33 49.8 | 1.768 | 2.729 | 8.3 | 20.4 |
| 8 29 | 21 6.62 | −34 0.2 | 1.808 | 2.722 | 11.1 | 20.6 |
| 9 8 | 21 0.54 | −33 49.3 | 1.870 | 2.716 | 14.0 | 20.7 |
| 9 18 | 20 56.96 | −33 19.6 | 1.951 | 2.710 | 16.5 | 20.9 |
| **367767** 2010 $WW_{15}$ | | | 8 10.5 344°.97 | | 0°.4/10.8 18 | |
| 7 10 | 21 36.86 | −12 18.9 | 0.885 | 1.816 | 18.5 | 19.6 |
| 7 20 | 21 34.96 | −12 45.4 | 0.825 | 1.800 | 13.5 | 19.2 |
| 7 30 | 21 30.09 | −13 31.4 | 0.782 | 1.785 | 7.7 | 18.9 |
| 8 9 | 21 23.21 | −14 30.6 | 0.759 | 1.772 | 1.2 | 18.4 |
| 8 19 | 21 15.77 | −15 33.6 | 0.756 | 1.762 | 5.5 | 18.7 |
| 8 29 | 21 9.57 | −16 30.1 | 0.772 | 1.753 | 11.9 | 19.0 |
| 9 8 | 21 6.11 | −17 11.8 | 0.807 | 1.747 | 17.6 | 19.3 |
| 9 18 | 21 6.23 | −17 34.3 | 0.857 | 1.743 | 22.4 | 19.5 |
| **114490** 2003 $AR_{58}$ | | | 8 10.5 173°.40 | | 2°.4/ 8.7 18 | |
| 7 10 | 21 46.08 | −18 42.2 | 1.745 | 2.644 | 12.7 | 19.9 |
| 7 20 | 21 40.34 | −19 44.0 | 1.685 | 2.646 | 9.0 | 19.7 |
| 7 30 | 21 32.55 | −20 51.0 | 1.648 | 2.647 | 5.0 | 19.4 |
| 8 9 | 21 23.51 | −21 56.6 | 1.638 | 2.648 | 2.4 | 19.3 |
| 8 19 | 21 14.24 | −22 54.2 | 1.655 | 2.649 | 5.2 | 19.4 |
| 8 29 | 21 5.86 | −23 38.5 | 1.698 | 2.649 | 9.2 | 19.7 |
| 9 8 | 20 59.32 | −24 7.0 | 1.765 | 2.649 | 12.8 | 19.9 |
| 9 18 | 20 55.24 | −24 19.5 | 1.852 | 2.649 | 15.9 | 20.1 |
| **154881** 2004 $RT_{143}$ | | | 8 10.5 276°.62 | | 5°.0/ 6.3 18 | |
| 7 10 | 21 45.86 | −29 41.4 | 2.257 | 3.152 | 10.4 | 19.9 |
| 7 20 | 21 39.91 | −30 26.1 | 2.194 | 3.145 | 7.8 | 19.7 |
| 7 30 | 21 32.20 | −31 6.2 | 2.156 | 3.138 | 5.6 | 19.6 |
| 8 9 | 21 23.46 | −31 36.1 | 2.144 | 3.132 | 5.1 | 19.6 |
| 8 19 | 21 14.54 | −31 51.8 | 2.159 | 3.125 | 6.7 | 19.7 |
| 8 29 | 21 6.40 | −31 51.0 | 2.201 | 3.118 | 9.2 | 19.8 |
| 9 8 | 20 59.85 | −31 33.9 | 2.266 | 3.112 | 11.8 | 20.0 |
| 9 18 | 20 55.43 | −31 2.4 | 2.352 | 3.105 | 14.1 | 20.1 |
| **98245** 2000 $SO_{166}$ | | | 8 10.5 281°.28 | | 3°.2/12.3 18 | |
| 7 10 | 21 46.80 | − 7 28.8 | 1.412 | 2.295 | 16.1 | 19.2 |
| 7 20 | 21 41.37 | − 7 21.4 | 1.331 | 2.277 | 12.2 | 18.9 |
| 7 30 | 21 33.39 | − 7 29.9 | 1.270 | 2.259 | 7.8 | 18.6 |
| 8 9 | 21 23.66 | − 7 52.4 | 1.233 | 2.241 | 3.7 | 18.4 |
| 8 19 | 21 13.35 | − 8 25.2 | 1.220 | 2.223 | 4.9 | 18.4 |
| 8 29 | 21 3.85 | − 9 2.8 | 1.233 | 2.204 | 9.6 | 18.6 |
| 9 8 | 20 56.44 | − 9 39.3 | 1.268 | 2.186 | 14.3 | 18.8 |
| 9 18 | 20 51.96 | −10 10.1 | 1.323 | 2.168 | 18.5 | 19.0 |
| **83391** 2001 $SH_{22}$ | | | 8 10.6 53°.87 | | 0°.2/10.4 18 | |
| 7 10 | 21 44.05 | −14 29.3 | 1.946 | 2.836 | 12.0 | 19.0 |
| 7 20 | 21 38.66 | −14 54.6 | 1.881 | 2.837 | 8.6 | 18.8 |
| 7 30 | 21 31.53 | −15 26.9 | 1.841 | 2.839 | 4.7 | 18.6 |
| 8 9 | 21 23.38 | −16 2.3 | 1.827 | 2.841 | 0.6 | 18.3 |
| 8 19 | 21 15.05 | −16 36.3 | 1.840 | 2.842 | 3.6 | 18.5 |
| 8 29 | 21 7.50 | −17 5.2 | 1.881 | 2.844 | 7.5 | 18.8 |
| 9 8 | 21 1.53 | −17 25.9 | 1.946 | 2.846 | 11.0 | 19.0 |
| 9 18 | 20 57.67 | −17 37.2 | 2.033 | 2.848 | 14.0 | 19.2 |
| **132505** 2002 $JY_{35}$ | | | 8 10.6 170°.44 | | 6°.7/16.5 18 | |
| 7 10 | 21 43.74 | + 6 5.3 | 2.145 | 2.947 | 14.3 | 20.2 |
| 7 20 | 21 38.33 | + 6 15.5 | 2.070 | 2.950 | 11.8 | 20.0 |
| 7 30 | 21 31.33 | + 6 5.4 | 2.017 | 2.952 | 9.3 | 19.9 |
| 8 9 | 21 23.35 | + 5 34.8 | 1.988 | 2.954 | 7.2 | 19.8 |
| 8 19 | 21 15.16 | + 4 45.8 | 1.984 | 2.956 | 6.7 | 19.7 |
| 8 29 | 21 7.59 | + 3 42.7 | 2.008 | 2.957 | 8.1 | 19.8 |
| 9 8 | 21 1.40 | + 2 31.4 | 2.057 | 2.958 | 10.5 | 20.0 |
| 9 18 | 20 57.11 | + 1 17.9 | 2.129 | 2.958 | 13.0 | 20.2 |
| **123120** Peternewman | | | 8 10.6 65°.67 | | 0°.9/11.4 18 | |
| 7 10 | 21 41.53 | − 9 30.8 | 2.015 | 2.895 | 12.1 | 19.5 |
| 7 20 | 21 36.82 | −10 19.9 | 1.951 | 2.899 | 8.8 | 19.3 |
| 7 30 | 21 30.51 | −11 21.0 | 1.911 | 2.904 | 5.1 | 19.0 |
| 8 9 | 21 23.25 | −12 29.5 | 1.897 | 2.909 | 1.3 | 18.8 |
| 8 19 | 21 15.81 | −13 40.3 | 1.911 | 2.914 | 3.2 | 18.9 |
| 8 29 | 21 9.05 | −14 47.7 | 1.953 | 2.920 | 7.0 | 19.2 |
| 9 8 | 21 3.73 | −15 47.2 | 2.020 | 2.925 | 10.5 | 19.4 |
| 9 18 | 21 0.35 | −16 35.7 | 2.110 | 2.930 | 13.4 | 19.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **250823** 2005 $UF_{71}$ | | | 8 10.6 344°.57 | | 0°.3/10.4 18 | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.89 | −16 6.3 | 1.697 | 2.595 | 13.1 | 20.0 |
| 7 20 | 21 39.52 | −16 4.7 | 1.629 | 2.588 | 9.4 | 19.7 |
| 7 30 | 21 32.12 | −16 8.5 | 1.583 | 2.582 | 5.2 | 19.5 |
| 8 9 | 21 23.50 | −16 14.1 | 1.563 | 2.576 | 0.7 | 19.1 |
| 8 19 | 21 14.65 | −16 18.0 | 1.569 | 2.571 | 4.0 | 19.4 |
| 8 29 | 21 6.69 | −16 17.3 | 1.600 | 2.567 | 8.3 | 19.6 |
| 9 8 | 21 0.54 | −16 10.0 | 1.656 | 2.563 | 12.2 | 19.9 |
| 9 18 | 20 56.82 | −15 55.2 | 1.733 | 2.560 | 15.6 | 20.1 |
| **126871** 2002 $EM_{87}$ | | | 8 10.6 109°.98 | | 0°.1/10.7 18 | |
| 7 10 | 21 42.88 | −13 6.9 | 2.371 | 3.251 | 10.5 | 20.2 |
| 7 20 | 21 37.54 | −13 36.4 | 2.311 | 3.262 | 7.5 | 20.0 |
| 7 30 | 21 30.83 | −14 12.6 | 2.276 | 3.272 | 4.1 | 19.8 |
| 8 9 | 21 23.33 | −14 52.1 | 2.269 | 3.282 | 0.6 | 19.6 |
| 8 19 | 21 15.73 | −15 31.1 | 2.290 | 3.292 | 2.9 | 19.8 |
| 8 29 | 21 8.78 | −16 6.3 | 2.340 | 3.302 | 6.3 | 20.0 |
| 9 8 | 21 3.12 | −16 34.9 | 2.415 | 3.312 | 9.3 | 20.2 |
| 9 18 | 20 59.20 | −16 55.4 | 2.514 | 3.321 | 11.9 | 20.4 |
| **509659** 2008 $GL_{133}$ | | | 8 10.6 69°.16 | | 0°.1/10.5 18 | |
| 7 10 | 21 42.81 | −13 39.0 | 2.113 | 2.999 | 11.3 | 21.5 |
| 7 20 | 21 37.61 | −14 11.4 | 2.058 | 3.012 | 8.1 | 21.3 |
| 7 30 | 21 30.90 | −14 50.9 | 2.027 | 3.024 | 4.4 | 21.1 |
| 8 9 | 21 23.34 | −15 33.4 | 2.023 | 3.037 | 0.6 | 20.9 |
| 8 19 | 21 15.69 | −16 14.9 | 2.047 | 3.050 | 3.3 | 21.1 |
| 8 29 | 21 8.79 | −16 51.3 | 2.099 | 3.062 | 6.9 | 21.4 |
| 9 8 | 21 3.32 | −17 20.0 | 2.176 | 3.075 | 10.1 | 21.6 |
| 9 18 | 20 59.76 | −17 39.3 | 2.275 | 3.088 | 12.8 | 21.8 |
| **445248** 2009 $QF_{13}$ | | | 8 10.6 293°.93 | | 4°.1/14.8 18 | |
| 7 10 | 21 39.70 | + 0 44.2 | 2.274 | 3.110 | 12.5 | 21.0 |
| 7 20 | 21 35.47 | + 0 14.3 | 2.189 | 3.100 | 9.9 | 20.8 |
| 7 30 | 21 29.80 | − 0 33.7 | 2.125 | 3.090 | 7.1 | 20.6 |
| 8 9 | 21 23.20 | − 1 38.0 | 2.088 | 3.080 | 4.7 | 20.4 |
| 8 19 | 21 16.35 | − 2 54.9 | 2.077 | 3.070 | 4.4 | 20.4 |
| 8 29 | 21 9.99 | − 4 19.3 | 2.095 | 3.061 | 6.7 | 20.5 |
| 9 8 | 21 4.82 | − 5 45.2 | 2.139 | 3.051 | 9.6 | 20.7 |
| 9 18 | 21 1.35 | − 7 7.3 | 2.207 | 3.042 | 12.4 | 20.9 |
| **264262** 1994 $PF_{4}$ | | | 8 10.6 355°.90 | | 1°.6/11.4 18 | |
| 7 10 | 21 39.62 | −11 24.0 | 0.966 | 1.888 | 18.2 | 19.2 |
| 7 20 | 21 36.69 | −11 25.8 | 0.911 | 1.880 | 13.4 | 18.9 |
| 7 30 | 21 30.93 | −11 44.4 | 0.874 | 1.875 | 7.8 | 18.6 |
| 8 9 | 21 23.38 | −12 15.3 | 0.858 | 1.871 | 2.2 | 18.3 |
| 8 19 | 21 15.47 | −12 52.0 | 0.863 | 1.869 | 5.0 | 18.5 |
| 8 29 | 21 8.85 | −13 26.8 | 0.889 | 1.869 | 10.9 | 18.8 |
| 9 8 | 21 4.85 | −13 53.4 | 0.934 | 1.870 | 16.1 | 19.1 |
| 9 18 | 21 4.18 | −14 7.8 | 0.996 | 1.874 | 20.6 | 19.4 |
| **91695** 1999 $TL_{136}$ | | | 8 10.6 222°.73 | | 1°.7/12.1 18 | |
| 7 10 | 21 42.12 | − 8 12.7 | 2.556 | 3.420 | 10.4 | 20.1 |
| 7 20 | 21 37.02 | − 8 28.9 | 2.476 | 3.414 | 7.7 | 19.9 |
| 7 30 | 21 30.58 | − 8 54.5 | 2.420 | 3.407 | 4.7 | 19.7 |
| 8 9 | 21 23.31 | − 9 27.4 | 2.392 | 3.401 | 2.0 | 19.5 |
| 8 19 | 21 15.85 | −10 4.6 | 2.392 | 3.394 | 2.9 | 19.5 |
| 8 29 | 21 8.88 | −10 42.8 | 2.420 | 3.387 | 5.9 | 19.7 |
| 9 8 | 21 3.04 | −11 18.7 | 2.476 | 3.379 | 8.8 | 19.9 |
| 9 18 | 20 58.81 | −11 49.7 | 2.555 | 3.371 | 11.5 | 20.1 |
| **321341** 2009 $JF_{14}$ | | | 8 10.6 54°.57 | | 1°.4/11.4 17 | |
| 7 10 | 21 46.88 | −10 24.1 | 1.200 | 2.099 | 17.2 | 20.7 |
| 7 20 | 21 41.22 | −10 44.5 | 1.159 | 2.117 | 12.4 | 20.5 |
| 7 30 | 21 33.11 | −11 20.1 | 1.138 | 2.134 | 7.2 | 20.3 |
| 8 9 | 21 23.66 | −12 5.2 | 1.140 | 2.153 | 2.0 | 20.0 |
| 8 19 | 21 14.20 | −12 53.0 | 1.167 | 2.171 | 4.5 | 20.2 |
| 8 29 | 21 6.14 | −13 36.9 | 1.218 | 2.190 | 9.6 | 20.6 |
| 9 8 | 21 0.52 | −14 11.7 | 1.290 | 2.209 | 14.0 | 20.9 |
| 9 18 | 20 57.88 | −14 34.9 | 1.382 | 2.228 | 17.8 | 21.2 |
| **183284** 2002 $TU_{294}$ | | | 8 10.6 343°.65 | | 16°.7/ 1.3 18 | |
| 7 10 | 22 5.91 | −53 49.5 | 1.388 | 2.228 | 18.7 | 19.2 |
| 7 20 | 21 55.99 | −55 2.2 | 1.354 | 2.224 | 17.4 | 19.1 |
| 7 30 | 21 41.58 | −55 41.8 | 1.338 | 2.221 | 16.8 | 19.1 |
| 8 9 | 21 24.80 | −55 36.0 | 1.341 | 2.217 | 17.0 | 19.1 |
| 8 19 | 21 8.45 | −54 40.3 | 1.363 | 2.215 | 18.1 | 19.1 |
| 8 29 | 20 55.15 | −52 58.5 | 1.403 | 2.213 | 19.7 | 19.2 |
| 9 8 | 20 46.41 | −50 41.2 | 1.459 | 2.211 | 21.5 | 19.4 |
| 9 18 | 20 42.55 | −48 0.6 | 1.531 | 2.209 | 23.2 | 19.5 |
| **361945** 2008 $HO_{57}$ | | | 8 10.6 355°.72 | | 7°.0/16.9 18 | |
| 7 10 | 21 36.73 | + 5 24.0 | 1.582 | 2.421 | 16.9 | 19.7 |
| 7 20 | 21 33.81 | + 5 5.2 | 1.510 | 2.415 | 13.9 | 19.5 |
| 7 30 | 21 29.04 | + 4 17.8 | 1.456 | 2.410 | 10.7 | 19.3 |
| 8 9 | 21 23.12 | + 3 3.0 | 1.425 | 2.406 | 7.9 | 19.1 |
| 8 19 | 21 16.92 | + 1 25.0 | 1.418 | 2.404 | 7.0 | 19.1 |
| 8 29 | 21 11.43 | − 0 28.1 | 1.435 | 2.403 | 8.9 | 19.2 |
| 9 8 | 21 7.56 | − 2 26.2 | 1.476 | 2.403 | 12.1 | 19.4 |
| 9 18 | 21 5.92 | − 4 20.1 | 1.540 | 2.404 | 15.3 | 19.6 |

**40891** 1999 $TH_{136}$ 8 10.6 319°.14 0°.8/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.11 | −15 53.0 | 1.598 | 2.498 | 13.6 | 19.2 |
| 7 20 | 21 39.84 | −16 15.4 | 1.529 | 2.490 | 9.7 | 18.9 |
| 7 30 | 21 32.39 | −16 45.2 | 1.483 | 2.483 | 5.3 | 18.7 |
| 8 9 | 21 23.59 | −17 17.4 | 1.462 | 2.475 | 0.9 | 18.3 |
| 8 19 | 21 14.50 | −17 47.1 | 1.467 | 2.469 | 4.4 | 18.6 |
| 8 29 | 21 6.30 | −18 9.5 | 1.497 | 2.462 | 8.9 | 18.8 |
| 9 8 | 21 0.01 | −18 21.7 | 1.551 | 2.456 | 13.0 | 19.1 |
| 9 18 | 20 56.30 | −18 22.7 | 1.625 | 2.450 | 16.5 | 19.3 |

**267321** 2001 $UX_1$ 8 10.6 134°.23 10°.8/14.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 55.13 | + 3 24.4 | 1.203 | 2.043 | 21.1 | 19.7 |
| 7 20 | 21 47.42 | + 5 9.9 | 1.145 | 2.049 | 17.5 | 19.5 |
| 7 30 | 21 36.75 | + 6 30.7 | 1.107 | 2.055 | 13.8 | 19.3 |
| 8 9 | 21 24.21 | + 7 21.4 | 1.090 | 2.060 | 11.2 | 19.2 |
| 8 19 | 21 11.31 | + 7 39.9 | 1.096 | 2.065 | 11.0 | 19.2 |
| 8 29 | 20 59.75 | + 7 29.5 | 1.125 | 2.070 | 13.3 | 19.3 |
| 9 8 | 20 50.91 | + 6 58.1 | 1.174 | 2.075 | 16.7 | 19.5 |
| 9 18 | 20 45.57 | + 6 15.1 | 1.242 | 2.079 | 20.0 | 19.8 |

**125039** 2001 $TX_{200}$ 8 10.6 294°.43 8°.2/ 4.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.78 | −31 59.2 | 1.510 | 2.417 | 13.8 | 19.5 |
| 7 20 | 21 42.21 | −33 30.6 | 1.451 | 2.404 | 10.8 | 19.3 |
| 7 30 | 21 33.91 | −34 55.7 | 1.414 | 2.391 | 8.6 | 19.1 |
| 8 9 | 21 23.82 | −36 3.8 | 1.401 | 2.378 | 8.5 | 19.1 |
| 8 19 | 21 13.30 | −36 46.5 | 1.412 | 2.366 | 10.7 | 19.2 |
| 8 29 | 21 3.88 | −36 59.6 | 1.446 | 2.353 | 13.8 | 19.4 |
| 9 8 | 20 56.89 | −36 44.1 | 1.500 | 2.341 | 17.0 | 19.5 |
| 9 18 | 20 53.08 | −36 4.2 | 1.571 | 2.328 | 19.9 | 19.7 |

**435603** 2008 $SF_{55}$ 8 10.6 54°.52 8°.1/ 5.7 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 52.60 | −35 21.5 | 1.665 | 2.557 | 13.5 | 20.5 |
| 7 20 | 21 45.20 | −36 11.8 | 1.618 | 2.559 | 10.8 | 20.4 |
| 7 30 | 21 35.30 | −36 49.9 | 1.593 | 2.562 | 8.6 | 20.2 |
| 8 9 | 21 23.98 | −37 7.7 | 1.593 | 2.564 | 8.3 | 20.2 |
| 8 19 | 21 12.65 | −37 0.6 | 1.618 | 2.566 | 9.9 | 20.3 |
| 8 29 | 21 2.71 | −36 27.9 | 1.666 | 2.569 | 12.6 | 20.5 |
| 9 8 | 20 55.26 | −35 32.8 | 1.736 | 2.571 | 15.3 | 20.7 |
| 9 18 | 20 50.87 | −34 20.7 | 1.825 | 2.574 | 17.8 | 20.9 |

**280100** 2002 $EA_{141}$ 8 10.6 66°.11 2°.8/ 8.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.72 | −21 5.2 | 1.638 | 2.540 | 13.2 | 20.3 |
| 7 20 | 21 41.56 | −21 36.5 | 1.583 | 2.545 | 9.4 | 20.0 |
| 7 30 | 21 33.25 | −22 9.3 | 1.552 | 2.550 | 5.3 | 19.8 |
| 8 9 | 21 23.71 | −22 37.9 | 1.546 | 2.555 | 2.8 | 19.7 |
| 8 19 | 21 14.05 | −22 57.2 | 1.566 | 2.560 | 5.4 | 19.9 |
| 8 29 | 21 5.47 | −23 3.9 | 1.612 | 2.565 | 9.4 | 20.1 |
| 9 8 | 20 58.92 | −22 57.2 | 1.681 | 2.570 | 13.1 | 20.3 |
| 9 18 | 20 54.98 | −22 37.8 | 1.771 | 2.575 | 16.2 | 20.6 |

**448641** 2010 $VD_{83}$ 8 10.6 21°.63 9°.7/19.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.47 | +12 44.2 | 1.989 | 2.759 | 16.3 | 20.3 |
| 7 20 | 21 36.87 | +13 30.4 | 1.922 | 2.763 | 14.2 | 20.1 |
| 7 30 | 21 30.61 | +13 51.9 | 1.874 | 2.768 | 12.1 | 20.0 |
| 8 9 | 21 23.35 | +13 46.7 | 1.846 | 2.773 | 10.4 | 19.9 |
| 8 19 | 21 15.87 | +13 15.5 | 1.842 | 2.779 | 9.7 | 19.9 |
| 8 29 | 21 9.05 | +12 21.6 | 1.862 | 2.785 | 10.3 | 19.9 |
| 9 8 | 21 3.67 | +11 11.3 | 1.905 | 2.791 | 11.9 | 20.1 |
| 9 18 | 21 0.29 | + 9 51.9 | 1.969 | 2.798 | 13.9 | 20.2 |

**48004** 2001 $BS_{61}$ 8 10.6 79°.61 0°.6/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.36 | −11 26.7 | 1.404 | 2.297 | 15.6 | 18.7 |
| 7 20 | 21 41.36 | −12 4.8 | 1.360 | 2.316 | 11.2 | 18.5 |
| 7 30 | 21 33.14 | −12 55.4 | 1.337 | 2.334 | 6.2 | 18.3 |
| 8 9 | 21 23.69 | −13 52.6 | 1.339 | 2.353 | 1.2 | 18.0 |
| 8 19 | 21 14.22 | −14 49.6 | 1.367 | 2.371 | 4.2 | 18.2 |
| 8 29 | 21 5.97 | −15 40.0 | 1.421 | 2.389 | 8.9 | 18.6 |
| 9 8 | 20 59.91 | −16 19.5 | 1.498 | 2.407 | 13.1 | 18.9 |
| 9 18 | 20 56.58 | −16 46.1 | 1.594 | 2.425 | 16.6 | 19.1 |

**521418** 2015 $MB_{147}$ 8 10.6 346°.53 1°.9/ 9.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.39 | −18 27.9 | 1.835 | 2.738 | 12.0 | 20.9 |
| 7 20 | 21 37.67 | −19 7.3 | 1.770 | 2.733 | 8.5 | 20.7 |
| 7 30 | 21 31.11 | −19 51.5 | 1.729 | 2.728 | 4.7 | 20.5 |
| 8 9 | 21 23.42 | −20 35.3 | 1.713 | 2.724 | 1.9 | 20.3 |
| 8 19 | 21 15.52 | −21 13.4 | 1.724 | 2.721 | 4.6 | 20.5 |
| 8 29 | 21 8.40 | −21 41.7 | 1.761 | 2.718 | 8.4 | 20.7 |
| 9 8 | 21 2.92 | −21 57.7 | 1.821 | 2.716 | 12.0 | 20.9 |
| 9 18 | 20 59.66 | −22 0.8 | 1.903 | 2.714 | 15.0 | 21.1 |

**377599** 2005 $QL_{129}$ 8 10.6 1°.24 1°.2/ 9.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.32 | −15 1.7 | 1.258 | 2.170 | 15.7 | 21.2 |
| 7 20 | 21 38.91 | −15 50.4 | 1.202 | 2.168 | 11.2 | 21.0 |
| 7 30 | 21 32.00 | −16 50.4 | 1.166 | 2.167 | 6.1 | 20.7 |
| 8 9 | 21 23.56 | −17 54.6 | 1.154 | 2.167 | 1.3 | 20.4 |
| 8 19 | 21 14.84 | −18 54.7 | 1.166 | 2.168 | 5.2 | 20.6 |
| 8 29 | 21 7.24 | −19 43.6 | 1.202 | 2.169 | 10.3 | 20.9 |
| 9 8 | 21 1.93 | −20 16.7 | 1.260 | 2.171 | 14.9 | 21.2 |
| 9 18 | 20 59.58 | −20 32.6 | 1.336 | 2.174 | 18.7 | 21.5 |

**56560** 2000 $JW_6$ 8 10.6 323°.94 1°.9/ 9.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 38.35 | −13 11.1 | 1.162 | 2.080 | 16.1 | 17.7 |
| 7 20 | 21 35.84 | −14 51.6 | 1.079 | 2.050 | 11.6 | 17.3 |
| 7 30 | 21 30.62 | −16 56.5 | 1.018 | 2.021 | 6.3 | 17.0 |
| 8 9 | 21 23.42 | −19 16.3 | 0.979 | 1.992 | 1.9 | 16.6 |
| 8 19 | 21 15.37 | −21 37.5 | 0.964 | 1.964 | 6.5 | 16.8 |
| 8 29 | 21 8.07 | −23 45.2 | 0.973 | 1.938 | 12.4 | 17.0 |
| 9 8 | 21 3.03 | −25 28.2 | 1.001 | 1.913 | 17.8 | 17.2 |
| 9 18 | 21 1.32 | −26 41.0 | 1.047 | 1.889 | 22.5 | 17.5 |

**11792** Sidorovsky 8 10.6 285°.11 1°.1/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.14 | −16 57.4 | 1.836 | 2.728 | 12.5 | 19.3 |
| 7 20 | 21 41.33 | −17 21.6 | 1.741 | 2.699 | 9.0 | 19.1 |
| 7 30 | 21 33.31 | −17 52.1 | 1.671 | 2.669 | 5.0 | 18.8 |
| 8 9 | 21 23.76 | −18 24.3 | 1.626 | 2.639 | 1.2 | 18.4 |
| 8 19 | 21 13.65 | −18 53.3 | 1.608 | 2.608 | 4.4 | 18.6 |
| 8 29 | 21 4.13 | −19 14.7 | 1.618 | 2.577 | 8.8 | 18.8 |
| 9 8 | 20 56.29 | −19 25.5 | 1.651 | 2.546 | 13.0 | 19.0 |
| 9 18 | 20 50.91 | −19 24.8 | 1.705 | 2.514 | 16.6 | 19.1 |

**56722** 2000 $NH_{12}$ 8 10.6 12°.18 11°.4/19.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.88 | +11 7.5 | 1.293 | 2.111 | 21.1 | 17.7 |
| 7 20 | 21 36.35 | +11 44.7 | 1.235 | 2.114 | 18.2 | 17.5 |
| 7 30 | 21 30.56 | +11 46.6 | 1.193 | 2.118 | 15.1 | 17.3 |
| 8 9 | 21 23.37 | +11 10.8 | 1.169 | 2.122 | 12.6 | 17.2 |
| 8 19 | 21 15.89 | + 9 59.2 | 1.166 | 2.128 | 11.4 | 17.2 |
| 8 29 | 21 9.39 | + 8 19.1 | 1.185 | 2.135 | 12.3 | 17.3 |
| 9 8 | 21 4.93 | + 6 22.3 | 1.225 | 2.143 | 14.7 | 17.4 |
| 9 18 | 21 3.18 | + 4 20.8 | 1.285 | 2.152 | 17.6 | 17.6 |

**284624** 2007 $VH_{85}$ 8 10.6 348°.59 5°.0/ 8.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.10 | −26 2.7 | 1.308 | 2.224 | 14.9 | 18.8 |
| 7 20 | 21 41.67 | −26 20.1 | 1.249 | 2.215 | 10.9 | 18.6 |
| 7 30 | 21 33.54 | −26 33.4 | 1.211 | 2.207 | 6.9 | 18.4 |
| 8 9 | 21 23.78 | −26 35.6 | 1.197 | 2.200 | 5.0 | 18.2 |
| 8 19 | 21 13.80 | −26 21.6 | 1.206 | 2.195 | 7.5 | 18.4 |
| 8 29 | 21 5.13 | −25 49.4 | 1.238 | 2.190 | 11.7 | 18.6 |
| 9 8 | 20 58.97 | −25 0.2 | 1.292 | 2.187 | 15.8 | 18.8 |
| 9 18 | 20 55.99 | −23 57.4 | 1.363 | 2.185 | 19.3 | 19.0 |

**519220** 2010 $TP_{194}$ 8 10.6 256°.37 2°.4/ 9.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.04 | −20 2.5 | 1.492 | 2.393 | 14.3 | 22.0 |
| 7 20 | 21 43.55 | −20 25.8 | 1.424 | 2.385 | 10.2 | 21.7 |
| 7 30 | 21 34.53 | −20 52.2 | 1.378 | 2.377 | 5.8 | 21.4 |
| 8 9 | 21 23.93 | −21 15.5 | 1.358 | 2.369 | 2.4 | 21.2 |
| 8 19 | 21 12.99 | −21 30.4 | 1.363 | 2.360 | 5.6 | 21.4 |
| 8 29 | 21 3.13 | −21 32.9 | 1.394 | 2.351 | 10.2 | 21.6 |
| 9 8 | 20 55.53 | −21 21.8 | 1.447 | 2.343 | 14.4 | 21.9 |
| 9 18 | 20 50.90 | −20 58.1 | 1.521 | 2.334 | 18.0 | 22.1 |

**509974** 2009 $SG_{358}$ 8 10.6 303°.82 0°.3/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.33 | −13 20.4 | 1.400 | 2.301 | 15.1 | 21.6 |
| 7 20 | 21 40.43 | −13 35.9 | 1.318 | 2.278 | 11.0 | 21.3 |
| 7 30 | 21 32.96 | −14 3.0 | 1.257 | 2.256 | 6.2 | 20.9 |
| 8 9 | 21 23.73 | −14 37.2 | 1.220 | 2.233 | 1.0 | 20.5 |
| 8 19 | 21 13.90 | −15 13.0 | 1.208 | 2.211 | 4.5 | 20.7 |
| 8 29 | 21 4.87 | −15 44.5 | 1.220 | 2.190 | 9.9 | 21.0 |
| 9 8 | 20 57.93 | −16 7.1 | 1.254 | 2.168 | 14.7 | 21.2 |
| 9 18 | 20 53.96 | −16 18.2 | 1.307 | 2.147 | 18.9 | 21.4 |

**408684** 2014 $MR_{47}$ 8 10.6 93°.90 3°.5/ 7.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.41 | −23 6.7 | 2.121 | 3.021 | 10.7 | 20.7 |
| 7 20 | 21 38.22 | −24 18.0 | 2.066 | 3.026 | 7.7 | 20.5 |
| 7 30 | 21 31.34 | −25 30.0 | 2.037 | 3.031 | 4.7 | 20.4 |
| 8 9 | 21 23.48 | −26 36.5 | 2.035 | 3.037 | 3.6 | 20.3 |
| 8 19 | 21 15.44 | −27 32.1 | 2.061 | 3.042 | 5.7 | 20.4 |
| 8 29 | 21 8.15 | −28 12.8 | 2.113 | 3.047 | 8.7 | 20.6 |
| 9 8 | 21 2.38 | −28 37.2 | 2.189 | 3.052 | 11.5 | 20.8 |
| 9 18 | 20 58.65 | −28 45.6 | 2.286 | 3.058 | 14.0 | 21.0 |

**155847** 2001 $AD_{31}$ 8 10.6 183°.80 2°.2/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.25 | − 6 9.0 | 3.024 | 3.871 | 9.4 | 21.4 |
| 7 20 | 21 37.63 | − 6 8.8 | 2.945 | 3.871 | 7.1 | 21.2 |
| 7 30 | 21 30.86 | − 6 17.0 | 2.891 | 3.870 | 4.6 | 21.0 |
| 8 9 | 21 23.41 | − 6 32.3 | 2.866 | 3.870 | 2.5 | 20.9 |
| 8 19 | 21 15.83 | − 6 52.7 | 2.870 | 3.868 | 2.9 | 20.9 |
| 8 29 | 21 8.69 | − 7 16.0 | 2.904 | 3.867 | 5.2 | 21.1 |
| 9 8 | 21 2.54 | − 7 39.6 | 2.965 | 3.864 | 7.7 | 21.2 |
| 9 18 | 20 57.79 | − 8 1.4 | 3.051 | 3.862 | 9.9 | 21.4 |

**13632** 1995 $WP_8$ 8 10.6 348°.03 6°.9/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.00 | −24 39.7 | 0.875 | 1.814 | 17.8 | 16.3 |
| 7 20 | 21 38.90 | −25 53.8 | 0.826 | 1.804 | 13.1 | 16.0 |
| 7 30 | 21 32.39 | −27 9.4 | 0.795 | 1.795 | 8.6 | 15.8 |
| 8 9 | 21 23.67 | −28 13.1 | 0.784 | 1.788 | 7.0 | 15.7 |
| 8 19 | 21 14.51 | −28 53.2 | 0.793 | 1.782 | 10.4 | 15.8 |
| 8 29 | 21 6.95 | −29 2.9 | 0.821 | 1.778 | 15.3 | 16.1 |
| 9 8 | 21 2.56 | −28 42.1 | 0.866 | 1.776 | 20.1 | 16.3 |
| 9 18 | 21 2.10 | −27 55.0 | 0.926 | 1.775 | 24.2 | 16.6 |

**18891** Kamler 8 10.6 320°.86 1°.7/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.40 | −17 58.0 | 1.340 | 2.249 | 15.1 | 18.4 |
| 7 20 | 21 41.15 | −18 19.8 | 1.273 | 2.238 | 10.8 | 18.2 |
| 7 30 | 21 33.30 | −18 47.8 | 1.227 | 2.227 | 6.0 | 17.9 |
| 8 9 | 21 23.78 | −19 16.1 | 1.205 | 2.217 | 1.8 | 17.6 |
| 8 19 | 21 13.88 | −19 38.7 | 1.207 | 2.208 | 5.4 | 17.8 |
| 8 29 | 21 5.04 | −19 50.5 | 1.234 | 2.198 | 10.4 | 18.0 |
| 9 8 | 20 58.51 | −19 49.3 | 1.282 | 2.190 | 15.0 | 18.3 |
| 9 18 | 20 55.03 | −19 34.8 | 1.349 | 2.181 | 18.9 | 18.5 |

**275399** 2011 $BR_{39}$ 8 10.6 189°.79 0°.6/10.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.49 | −15 6.8 | 1.874 | 2.761 | 12.5 | 21.4 |
| 7 20 | 21 41.27 | −15 40.2 | 1.806 | 2.761 | 8.9 | 21.2 |
| 7 30 | 21 33.10 | −16 20.8 | 1.762 | 2.760 | 4.9 | 20.9 |
| 8 9 | 21 23.74 | −17 3.8 | 1.744 | 2.758 | 0.8 | 20.6 |
| 8 19 | 21 14.14 | −17 44.3 | 1.755 | 2.756 | 3.9 | 20.9 |
| 8 29 | 21 5.36 | −18 17.8 | 1.792 | 2.753 | 8.1 | 21.1 |
| 9 8 | 20 58.30 | −18 41.4 | 1.855 | 2.749 | 11.8 | 21.4 |
| 9 18 | 20 53.57 | −18 54.0 | 1.939 | 2.745 | 14.9 | 21.6 |

**287137** 2002 $RV_{201}$ 8 10.6 336°.51 5°.3/ 7.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.15 | −25 6.0 | 1.253 | 2.169 | 15.4 | 20.0 |
| 7 20 | 21 42.56 | −25 48.8 | 1.196 | 2.162 | 11.2 | 19.8 |
| 7 30 | 21 34.11 | −26 29.9 | 1.160 | 2.156 | 7.1 | 19.5 |
| 8 9 | 21 23.89 | −27 0.8 | 1.147 | 2.150 | 5.3 | 19.4 |
| 8 19 | 21 13.38 | −27 14.2 | 1.158 | 2.145 | 8.0 | 19.5 |
| 8 29 | 21 4.22 | −27 6.4 | 1.191 | 2.141 | 12.4 | 19.8 |
| 9 8 | 20 57.69 | −26 38.1 | 1.245 | 2.137 | 16.6 | 20.0 |
| 9 18 | 20 54.51 | −25 52.3 | 1.317 | 2.133 | 20.1 | 20.2 |

**396364** 2014 $DN_{89}$ 8 10.6 234°.95 3°.1/13.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.47 | − 2 40.0 | 2.311 | 3.155 | 12.1 | 21.4 |
| 7 20 | 21 38.21 | − 3 12.6 | 2.218 | 3.140 | 9.3 | 21.2 |
| 7 30 | 21 31.38 | − 4 0.9 | 2.150 | 3.125 | 6.2 | 21.0 |
| 8 9 | 21 23.51 | − 5 2.9 | 2.108 | 3.109 | 3.6 | 20.8 |
| 8 19 | 21 15.31 | − 6 14.7 | 2.094 | 3.093 | 3.7 | 20.8 |
| 8 29 | 21 7.57 | − 7 31.2 | 2.110 | 3.076 | 6.6 | 21.0 |
| 9 8 | 21 1.06 | − 8 47.0 | 2.152 | 3.058 | 9.9 | 21.1 |
| 9 18 | 20 56.33 | − 9 57.5 | 2.218 | 3.040 | 12.8 | 21.3 |

**375268** 2008 $HA_{7}$ 8 10.6 49°.33 3°.7/ 8.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.10 | −22 25.1 | 1.345 | 2.255 | 15.0 | 20.9 |
| 7 20 | 21 42.86 | −23 0.9 | 1.297 | 2.262 | 10.7 | 20.7 |
| 7 30 | 21 34.08 | −23 37.2 | 1.272 | 2.270 | 6.3 | 20.5 |
| 8 9 | 21 23.88 | −24 6.4 | 1.271 | 2.278 | 3.7 | 20.4 |
| 8 19 | 21 13.60 | −24 22.8 | 1.294 | 2.287 | 6.6 | 20.6 |
| 8 29 | 21 4.70 | −24 22.9 | 1.342 | 2.295 | 10.9 | 20.8 |
| 9 8 | 20 58.26 | −24 6.6 | 1.411 | 2.304 | 14.9 | 21.1 |
| 9 18 | 20 54.87 | −23 36.1 | 1.500 | 2.313 | 18.2 | 21.3 |

**476309** 2007 $WD_{62}$ 8 10.6 285°.63 6°.7/ 4.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.70 | −30 45.4 | 1.885 | 2.786 | 11.8 | 20.8 |
| 7 20 | 21 40.34 | −32 13.5 | 1.818 | 2.770 | 9.1 | 20.6 |
| 7 30 | 21 32.76 | −33 37.6 | 1.776 | 2.754 | 7.1 | 20.5 |
| 8 9 | 21 23.72 | −34 49.4 | 1.759 | 2.737 | 6.9 | 20.4 |
| 8 19 | 21 14.26 | −35 41.7 | 1.768 | 2.721 | 8.9 | 20.5 |
| 8 29 | 21 5.60 | −36 10.3 | 1.802 | 2.705 | 11.7 | 20.7 |
| 9 8 | 20 58.80 | −36 14.8 | 1.857 | 2.689 | 14.6 | 20.8 |
| 9 18 | 20 54.59 | −35 57.5 | 1.930 | 2.673 | 17.1 | 21.0 |

**357874** 2005 $UH_{378}$ 8 10.6 151°.02 0°.2/10.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.75 | −14 5.1 | 2.524 | 3.404 | 9.9 | 21.7 |
| 7 20 | 21 37.47 | −14 37.0 | 2.458 | 3.409 | 7.1 | 21.5 |
| 7 30 | 21 30.84 | −15 14.9 | 2.418 | 3.414 | 3.9 | 21.3 |
| 8 9 | 21 23.43 | −15 55.2 | 2.405 | 3.419 | 0.5 | 21.1 |
| 8 19 | 21 15.90 | −16 34.5 | 2.421 | 3.423 | 2.9 | 21.3 |
| 8 29 | 21 8.94 | −17 9.5 | 2.466 | 3.427 | 6.1 | 21.5 |
| 9 8 | 21 3.19 | −17 37.6 | 2.537 | 3.431 | 9.1 | 21.7 |
| 9 18 | 20 59.09 | −17 57.4 | 2.632 | 3.434 | 11.6 | 21.9 |

**389167** 2009 $BN_{90}$ 8 10.6 184°.10 0°.0/10.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.58 | −12 43.5 | 2.048 | 2.932 | 11.7 | 21.9 |
| 7 20 | 21 38.35 | −13 27.2 | 1.980 | 2.933 | 8.4 | 21.7 |
| 7 30 | 21 31.44 | −14 20.1 | 1.936 | 2.932 | 4.7 | 21.5 |
| 8 9 | 21 23.52 | −15 17.6 | 1.919 | 2.932 | 0.6 | 21.2 |
| 8 19 | 21 15.39 | −16 14.8 | 1.929 | 2.932 | 3.4 | 21.4 |
| 8 29 | 21 7.94 | −17 6.8 | 1.968 | 2.931 | 7.3 | 21.6 |
| 9 8 | 21 1.95 | −17 49.8 | 2.032 | 2.930 | 10.7 | 21.8 |
| 9 18 | 20 57.97 | −18 21.8 | 2.118 | 2.929 | 13.7 | 22.0 |

**315870** 2008 $JD_{9}$ 8 10.6 21°.59 2°.8/ 7.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.20 | −16 39.0 | 1.689 | 2.595 | 12.6 | 19.1 |
| 7 20 | 21 36.24 | −18 39.1 | 1.638 | 2.603 | 8.8 | 18.8 |
| 7 30 | 21 30.38 | −20 48.1 | 1.612 | 2.612 | 4.9 | 18.6 |
| 8 9 | 21 23.38 | −22 56.4 | 1.612 | 2.621 | 2.8 | 18.5 |
| 8 19 | 21 16.15 | −24 54.4 | 1.641 | 2.631 | 5.7 | 18.7 |
| 8 29 | 21 9.73 | −26 34.1 | 1.696 | 2.642 | 9.5 | 19.0 |
| 9 8 | 21 5.01 | −27 51.2 | 1.774 | 2.653 | 13.0 | 19.2 |
| 9 18 | 21 2.57 | −28 45.0 | 1.873 | 2.665 | 15.9 | 19.5 |

**325488** 2009 $RF_{13}$ 8 10.6 292°.70 3°.8/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.18 | − 0 51.1 | 2.356 | 3.197 | 12.0 | 21.1 |
| 7 20 | 21 35.77 | − 1 7.3 | 2.276 | 3.191 | 9.4 | 20.9 |
| 7 30 | 21 29.98 | − 1 39.0 | 2.218 | 3.186 | 6.6 | 20.7 |
| 8 9 | 21 23.32 | − 2 24.5 | 2.186 | 3.180 | 4.3 | 20.6 |
| 8 19 | 21 16.45 | − 3 20.8 | 2.181 | 3.175 | 4.2 | 20.6 |
| 8 29 | 21 10.09 | − 4 23.7 | 2.204 | 3.170 | 6.4 | 20.7 |
| 9 8 | 21 4.89 | − 5 28.2 | 2.253 | 3.164 | 9.2 | 20.9 |
| 9 18 | 21 1.34 | − 6 30.0 | 2.327 | 3.159 | 11.9 | 21.1 |

**75549** 1999 $XL_{260}$ 8 10.6 201°.15 2°.0/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.50 | −18 15.7 | 1.942 | 2.838 | 11.7 | 19.6 |
| 7 20 | 21 39.13 | −19 12.4 | 1.877 | 2.837 | 8.3 | 19.4 |
| 7 30 | 21 31.93 | −20 14.2 | 1.837 | 2.835 | 4.6 | 19.2 |
| 8 9 | 21 23.60 | −21 15.5 | 1.823 | 2.834 | 2.0 | 19.0 |
| 8 19 | 21 15.05 | −22 10.5 | 1.837 | 2.832 | 4.7 | 19.2 |
| 8 29 | 21 7.25 | −22 54.3 | 1.878 | 2.830 | 8.4 | 19.4 |
| 9 8 | 21 1.06 | −23 24.4 | 1.943 | 2.828 | 11.8 | 19.6 |
| 9 18 | 20 57.06 | −23 40.1 | 2.030 | 2.826 | 14.7 | 19.8 |

**128685** 2004 $RT_{79}$ 8 10.6 325°.29 8°.3/ 1.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.65 | −33 6.7 | 1.829 | 2.733 | 11.9 | 18.4 |
| 7 20 | 21 38.38 | −35 34.6 | 1.770 | 2.717 | 9.6 | 18.2 |
| 7 30 | 21 31.80 | −37 58.3 | 1.736 | 2.701 | 8.4 | 18.1 |
| 8 9 | 21 23.61 | −40 6.4 | 1.729 | 2.686 | 8.9 | 18.1 |
| 8 19 | 21 14.84 | −41 49.5 | 1.748 | 2.671 | 11.0 | 18.2 |
| 8 29 | 21 6.77 | −43 1.9 | 1.790 | 2.657 | 13.6 | 18.4 |
| 9 8 | 21 0.58 | −43 42.6 | 1.852 | 2.643 | 16.2 | 18.5 |
| 9 18 | 20 57.09 | −43 54.5 | 1.930 | 2.630 | 18.4 | 18.7 |

**314461** 2005 $WC_{9}$ 8 10.6 249°.21 0°.8/11.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.74 | −11 13.8 | 2.407 | 3.282 | 10.6 | 22.0 |
| 7 20 | 21 37.60 | −11 34.1 | 2.325 | 3.272 | 7.7 | 21.8 |
| 7 30 | 21 30.99 | −12 2.6 | 2.268 | 3.261 | 4.4 | 21.5 |
| 8 9 | 21 23.47 | −12 36.4 | 2.238 | 3.251 | 1.2 | 21.3 |
| 8 19 | 21 15.72 | −13 12.4 | 2.237 | 3.240 | 2.9 | 21.4 |
| 8 29 | 21 8.48 | −13 47.0 | 2.264 | 3.229 | 6.3 | 21.6 |
| 9 8 | 21 2.46 | −14 17.2 | 2.317 | 3.218 | 9.5 | 21.8 |
| 9 18 | 20 58.17 | −14 40.7 | 2.393 | 3.206 | 12.2 | 22.0 |

**169948** 2002 $TZ_{62}$ 8 10.6 131°.74 4°.4/14.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.35 | − 0 43.1 | 2.094 | 2.934 | 13.3 | 20.3 |
| 7 20 | 21 38.09 | − 0 46.0 | 2.025 | 2.940 | 10.4 | 20.1 |
| 7 30 | 21 31.27 | − 1 5.3 | 1.979 | 2.946 | 7.4 | 20.0 |
| 8 9 | 21 23.52 | − 1 39.6 | 1.958 | 2.951 | 4.9 | 19.8 |
| 8 19 | 21 15.59 | − 2 26.0 | 1.965 | 2.957 | 4.8 | 19.8 |
| 8 29 | 21 8.33 | − 3 19.8 | 1.998 | 2.962 | 7.1 | 20.0 |
| 9 8 | 21 2.47 | − 4 16.1 | 2.057 | 2.967 | 10.1 | 20.2 |
| 9 18 | 20 58.51 | − 5 10.2 | 2.140 | 2.972 | 12.8 | 20.4 |

**380268** 2001 $YQ_{71}$ 8 10.6 236°.62 0°.2/10.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.09 | −14 28.7 | 2.001 | 2.885 | 12.0 | 21.3 |
| 7 20 | 21 41.00 | −14 52.0 | 1.920 | 2.872 | 8.6 | 21.1 |
| 7 30 | 21 33.00 | −15 22.5 | 1.862 | 2.859 | 4.8 | 20.8 |
| 8 9 | 21 23.78 | −15 56.3 | 1.832 | 2.845 | 0.7 | 20.5 |
| 8 19 | 21 14.22 | −16 29.2 | 1.830 | 2.831 | 3.6 | 20.7 |
| 8 29 | 21 5.32 | −16 57.1 | 1.855 | 2.817 | 7.7 | 20.9 |
| 9 8 | 20 58.00 | −17 17.0 | 1.906 | 2.801 | 11.5 | 21.1 |
| 9 18 | 20 52.89 | −17 27.6 | 1.978 | 2.786 | 14.6 | 21.3 |

**96181** 1988 $VW_{2}$ 8 10.6 294°.85 1°.6/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.62 | −10 6.6 | 1.653 | 2.537 | 14.1 | 19.7 |
| 7 20 | 21 40.46 | −10 18.7 | 1.555 | 2.505 | 10.5 | 19.4 |
| 7 30 | 21 32.97 | −10 44.1 | 1.478 | 2.472 | 6.3 | 19.1 |
| 8 9 | 21 23.81 | −11 19.8 | 1.427 | 2.439 | 2.0 | 18.7 |
| 8 19 | 21 13.94 | −12 1.5 | 1.401 | 2.405 | 4.1 | 18.8 |
| 8 29 | 21 4.60 | −12 43.8 | 1.402 | 2.371 | 8.9 | 19.0 |
| 9 8 | 20 56.98 | −13 21.5 | 1.426 | 2.337 | 13.5 | 19.2 |
| 9 18 | 20 51.96 | −13 50.8 | 1.471 | 2.304 | 17.6 | 19.4 |

**365825** 2011 $SH_{224}$ 8 10.6 268°.89 2°.4/ 9.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.23 | −19 10.8 | 1.258 | 2.166 | 15.9 | 21.0 |
| 7 20 | 21 44.00 | −19 38.8 | 1.197 | 2.162 | 11.4 | 20.8 |
| 7 30 | 21 34.91 | −20 11.8 | 1.158 | 2.158 | 6.4 | 20.5 |
| 8 9 | 21 24.06 | −20 42.7 | 1.142 | 2.154 | 2.4 | 20.2 |
| 8 19 | 21 12.87 | −21 4.6 | 1.151 | 2.150 | 6.0 | 20.4 |
| 8 29 | 21 2.98 | −21 13.0 | 1.184 | 2.146 | 11.1 | 20.7 |
| 9 8 | 20 55.69 | −21 6.3 | 1.239 | 2.142 | 15.8 | 21.0 |
| 9 18 | 20 51.74 | −20 45.3 | 1.311 | 2.138 | 19.7 | 21.2 |

**100384** 1995 $VH_{15}$ 8 10.6 3°.28 0°.4/10.8 17 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.51 | −13 12.4 | 0.985 | 1.907 | 17.9 | 19.0 |
| 7 20 | 21 38.02 | −13 25.3 | 0.935 | 1.905 | 13.0 | 18.7 |
| 7 30 | 21 31.68 | −13 52.6 | 0.904 | 1.905 | 7.3 | 18.4 |
| 8 9 | 21 23.61 | −14 28.5 | 0.893 | 1.906 | 1.2 | 18.0 |
| 8 19 | 21 15.27 | −15 5.6 | 0.903 | 1.909 | 5.1 | 18.3 |
| 8 29 | 21 8.30 | −15 36.7 | 0.936 | 1.913 | 10.9 | 18.6 |
| 9 8 | 21 3.97 | −15 56.7 | 0.988 | 1.919 | 16.0 | 19.0 |
| 9 18 | 21 2.96 | −16 3.0 | 1.057 | 1.926 | 20.3 | 19.3 |

**276858** 2004 $RN_{145}$ 8 10.6 326°.52 2°.4/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.24 | −18 54.7 | 1.309 | 2.223 | 15.0 | 20.4 |
| 7 20 | 21 39.75 | −19 27.2 | 1.238 | 2.206 | 10.7 | 20.1 |
| 7 30 | 21 32.62 | −20 6.1 | 1.189 | 2.190 | 6.0 | 19.7 |
| 8 9 | 21 23.77 | −20 44.6 | 1.163 | 2.174 | 2.4 | 19.5 |
| 8 19 | 21 14.43 | −21 15.9 | 1.160 | 2.159 | 5.9 | 19.7 |
| 8 29 | 21 6.10 | −21 34.2 | 1.182 | 2.145 | 10.9 | 19.9 |
| 9 8 | 21 0.05 | −21 36.7 | 1.224 | 2.132 | 15.5 | 20.1 |
| 9 18 | 20 57.08 | −21 23.4 | 1.285 | 2.120 | 19.5 | 20.4 |

**109177** 2001 $QL_{66}$ 8 10.6 260°.52 0°.3/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.71 | −13 40.2 | 1.682 | 2.571 | 13.6 | 19.2 |
| 7 20 | 21 41.70 | −13 49.0 | 1.605 | 2.560 | 9.9 | 18.9 |
| 7 30 | 21 33.50 | −14 6.2 | 1.551 | 2.548 | 5.6 | 18.6 |
| 8 9 | 21 23.88 | −14 28.1 | 1.523 | 2.536 | 0.9 | 18.3 |
| 8 19 | 21 13.89 | −14 50.4 | 1.521 | 2.524 | 3.9 | 18.5 |
| 8 29 | 21 4.73 | −15 9.0 | 1.546 | 2.512 | 8.6 | 18.7 |
| 9 8 | 20 57.43 | −15 20.7 | 1.595 | 2.500 | 12.7 | 19.0 |
| 9 18 | 20 52.69 | −15 24.0 | 1.664 | 2.487 | 16.3 | 19.2 |

**345470** 2006 $HU_{15}$ 8 10.6 320°.41 1°.4/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.83 | −16 25.6 | 1.595 | 2.497 | 13.5 | 20.3 |
| 7 20 | 21 39.00 | −17 8.9 | 1.526 | 2.489 | 9.6 | 20.0 |
| 7 30 | 21 32.01 | −18 0.3 | 1.481 | 2.481 | 5.2 | 19.8 |
| 8 9 | 21 23.67 | −18 53.8 | 1.461 | 2.473 | 1.4 | 19.5 |
| 8 19 | 21 15.00 | −19 43.2 | 1.466 | 2.466 | 4.7 | 19.7 |
| 8 29 | 21 7.19 | −20 22.8 | 1.497 | 2.459 | 9.2 | 19.9 |
| 9 8 | 21 1.26 | −20 49.2 | 1.551 | 2.452 | 13.3 | 20.2 |
| 9 18 | 20 57.87 | −21 1.1 | 1.625 | 2.446 | 16.7 | 20.4 |

**72534** 2001 $DZ_{99}$ 8 10.6 114°.36 3°.3/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.74 | − 3 1.8 | 1.864 | 2.722 | 13.9 | 19.1 |
| 7 20 | 21 37.85 | − 3 36.7 | 1.797 | 2.727 | 10.6 | 18.9 |
| 7 30 | 21 31.22 | − 4 29.6 | 1.752 | 2.732 | 7.0 | 18.7 |
| 8 9 | 21 23.55 | − 5 37.3 | 1.733 | 2.736 | 3.8 | 18.5 |
| 8 19 | 21 15.68 | − 6 54.7 | 1.741 | 2.741 | 4.1 | 18.6 |
| 8 29 | 21 8.52 | − 8 15.4 | 1.776 | 2.745 | 7.3 | 18.8 |
| 9 8 | 21 2.91 | − 9 32.9 | 1.836 | 2.750 | 10.8 | 19.0 |
| 9 18 | 20 59.38 | −10 42.3 | 1.919 | 2.754 | 14.0 | 19.2 |

**176119** 2001 $DZ_{77}$ 8 10.6 285°.58 1°.1/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.40 | −17 20.3 | 1.403 | 2.305 | 15.0 | 20.3 |
| 7 20 | 21 43.28 | −17 29.3 | 1.331 | 2.293 | 10.8 | 20.0 |
| 7 30 | 21 34.51 | −17 44.1 | 1.281 | 2.281 | 6.0 | 19.7 |
| 8 9 | 21 24.04 | −17 59.5 | 1.256 | 2.269 | 1.3 | 19.4 |
| 8 19 | 21 13.15 | −18 10.4 | 1.255 | 2.257 | 5.0 | 19.6 |
| 8 29 | 21 3.30 | −18 12.8 | 1.280 | 2.245 | 10.1 | 19.8 |
| 9 8 | 20 55.75 | −18 4.5 | 1.327 | 2.233 | 14.7 | 20.1 |
| 9 18 | 20 51.27 | −17 45.5 | 1.393 | 2.221 | 18.6 | 20.3 |

**278241** 2007 $EL_{144}$ 8 10.6 279°.89 0°.8/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.94 | −15 1.4 | 1.614 | 2.511 | 13.7 | 21.0 |
| 7 20 | 21 40.65 | −15 39.5 | 1.531 | 2.490 | 9.9 | 20.7 |
| 7 30 | 21 33.03 | −16 27.6 | 1.471 | 2.470 | 5.4 | 20.4 |
| 8 9 | 21 23.84 | −17 20.2 | 1.436 | 2.449 | 1.0 | 20.1 |
| 8 19 | 21 14.12 | −18 11.3 | 1.427 | 2.428 | 4.5 | 20.3 |
| 8 29 | 21 5.13 | −18 54.6 | 1.444 | 2.407 | 9.3 | 20.5 |
| 9 8 | 20 58.00 | −19 26.0 | 1.484 | 2.386 | 13.7 | 20.7 |
| 9 18 | 20 53.53 | −19 43.5 | 1.544 | 2.364 | 17.5 | 20.9 |

**81376** 2000 $GB_{69}$ 8 10.6 75°.04 4°.8/ 7.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.05 | −24 54.0 | 1.488 | 2.395 | 14.0 | 19.0 |
| 7 20 | 21 42.71 | −25 48.6 | 1.443 | 2.405 | 10.1 | 18.8 |
| 7 30 | 21 33.99 | −26 41.1 | 1.422 | 2.416 | 6.4 | 18.6 |
| 8 9 | 21 23.94 | −27 23.6 | 1.425 | 2.426 | 4.8 | 18.5 |
| 8 19 | 21 13.84 | −27 50.0 | 1.453 | 2.437 | 7.3 | 18.7 |
| 8 29 | 21 5.02 | −27 57.2 | 1.506 | 2.447 | 10.9 | 18.9 |
| 9 8 | 20 58.52 | −27 45.4 | 1.581 | 2.458 | 14.5 | 19.2 |
| 9 18 | 20 54.89 | −27 17.2 | 1.675 | 2.468 | 17.5 | 19.4 |

**91165** 1998 $QF_{84}$ 8 10.6 14°.07 3°.0/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.05 | − 8 23.3 | 1.824 | 2.697 | 13.5 | 18.2 |
| 7 20 | 21 40.19 | − 7 47.2 | 1.759 | 2.700 | 10.1 | 18.0 |
| 7 30 | 21 32.50 | − 7 21.3 | 1.718 | 2.704 | 6.4 | 17.8 |
| 8 9 | 21 23.76 | − 7 4.7 | 1.702 | 2.708 | 3.3 | 17.6 |
| 8 19 | 21 14.87 | − 6 55.8 | 1.713 | 2.713 | 4.2 | 17.7 |
| 8 29 | 21 6.82 | − 6 52.1 | 1.751 | 2.718 | 7.6 | 17.9 |
| 9 8 | 21 0.47 | − 6 50.9 | 1.813 | 2.724 | 11.1 | 18.2 |
| 9 18 | 20 56.34 | − 6 49.5 | 1.897 | 2.730 | 14.2 | 18.4 |

**469933** 2006 $AV_{48}$ 8 10.6 230°.18 2°.3/ 8.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.97 | −18 41.5 | 1.804 | 2.702 | 12.4 | 21.5 |
| 7 20 | 21 40.36 | −19 36.0 | 1.736 | 2.696 | 8.8 | 21.2 |
| 7 30 | 21 32.72 | −20 35.9 | 1.691 | 2.690 | 4.9 | 21.0 |
| 8 9 | 21 23.80 | −21 34.9 | 1.673 | 2.684 | 2.3 | 20.8 |
| 8 19 | 21 14.58 | −22 27.0 | 1.682 | 2.677 | 5.0 | 21.0 |
| 8 29 | 21 6.15 | −23 7.0 | 1.718 | 2.670 | 9.0 | 21.2 |
| 9 8 | 20 59.49 | −23 32.3 | 1.777 | 2.663 | 12.7 | 21.4 |
| 9 18 | 20 55.23 | −23 42.6 | 1.857 | 2.656 | 15.8 | 21.6 |

**241457** 2008 $YV_{137}$ 8 10.6 267°.58 1°.1/11.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.95 | −10 29.7 | 1.882 | 2.763 | 12.8 | 20.7 |
| 7 20 | 21 38.82 | −10 54.5 | 1.805 | 2.754 | 9.3 | 20.5 |
| 7 30 | 21 31.83 | −11 30.7 | 1.752 | 2.745 | 5.4 | 20.3 |
| 8 9 | 21 23.68 | −12 14.6 | 1.724 | 2.736 | 1.5 | 20.0 |
| 8 19 | 21 15.21 | −13 1.8 | 1.724 | 2.727 | 3.5 | 20.1 |
| 8 29 | 21 7.43 | −13 47.3 | 1.750 | 2.718 | 7.6 | 20.3 |
| 9 8 | 21 1.21 | −14 26.8 | 1.802 | 2.709 | 11.4 | 20.5 |
| 9 18 | 20 57.16 | −14 57.5 | 1.875 | 2.700 | 14.7 | 20.7 |

**332865** 2010 $VP_{191}$ 8 10.6 194°.84 3°.9/ 7.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.25 | −22 6.4 | 1.636 | 2.539 | 13.1 | 20.9 |
| 7 20 | 21 41.44 | −23 18.5 | 1.577 | 2.539 | 9.4 | 20.6 |
| 7 30 | 21 33.36 | −24 33.2 | 1.541 | 2.537 | 5.7 | 20.4 |
| 8 9 | 21 23.89 | −25 42.5 | 1.532 | 2.536 | 4.0 | 20.3 |
| 8 19 | 21 14.14 | −26 39.0 | 1.548 | 2.535 | 6.6 | 20.5 |
| 8 29 | 21 5.36 | −27 17.5 | 1.591 | 2.533 | 10.4 | 20.7 |
| 9 8 | 20 58.60 | −27 36.4 | 1.656 | 2.531 | 14.0 | 20.9 |
| 9 18 | 20 54.52 | −27 36.6 | 1.740 | 2.528 | 17.1 | 21.1 |

**130869** 2000 $VH_{1}$ 8 10.6 264°.21 7°.0/15.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.04 | + 4 54.6 | 2.083 | 2.892 | 14.4 | 19.5 |
| 7 20 | 21 39.59 | + 5 20.7 | 1.984 | 2.869 | 12.0 | 19.3 |
| 7 30 | 21 32.31 | + 5 27.6 | 1.906 | 2.846 | 9.5 | 19.1 |
| 8 9 | 21 23.76 | + 5 14.2 | 1.853 | 2.822 | 7.5 | 18.9 |
| 8 19 | 21 14.72 | + 4 41.2 | 1.825 | 2.797 | 7.1 | 18.9 |
| 8 29 | 21 6.13 | + 3 51.6 | 1.823 | 2.772 | 8.8 | 18.9 |
| 9 8 | 20 58.88 | + 2 51.0 | 1.847 | 2.747 | 11.5 | 19.0 |
| 9 18 | 20 53.66 | + 1 45.3 | 1.893 | 2.721 | 14.4 | 19.2 |

**505734** 2015 $BP_{16}$ 8 10.6 151°.32 1°.0/11.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.80 | −12 6.3 | 1.619 | 2.505 | 14.3 | 21.3 |
| 7 20 | 21 42.38 | −12 11.3 | 1.557 | 2.508 | 10.4 | 21.1 |
| 7 30 | 21 33.81 | −12 25.9 | 1.517 | 2.512 | 5.9 | 20.9 |
| 8 9 | 21 23.96 | −12 46.7 | 1.502 | 2.515 | 1.5 | 20.6 |
| 8 19 | 21 13.91 | −13 9.5 | 1.514 | 2.518 | 3.9 | 20.8 |
| 8 29 | 21 4.86 | −13 30.1 | 1.553 | 2.520 | 8.4 | 21.0 |
| 9 8 | 20 57.78 | −13 45.1 | 1.615 | 2.522 | 12.5 | 21.3 |
| 9 18 | 20 53.30 | −13 52.7 | 1.699 | 2.525 | 15.9 | 21.5 |

**86405** 2000 $AN_{152}$ 8 10.6 316°.55 4°.9/ 6.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.75 | −12 4.6 | 0.916 | 1.839 | 18.9 | 18.1 |
| 7 20 | 21 38.85 | −15 59.5 | 0.854 | 1.828 | 13.2 | 17.7 |
| 7 30 | 21 32.61 | −20 33.8 | 0.815 | 1.818 | 7.3 | 17.4 |
| 8 9 | 21 23.87 | −25 22.2 | 0.801 | 1.809 | 5.4 | 17.2 |
| 8 19 | 21 14.14 | −29 52.6 | 0.813 | 1.799 | 10.8 | 17.5 |
| 8 29 | 21 5.47 | −33 37.7 | 0.849 | 1.791 | 17.0 | 17.8 |
| 9 8 | 20 59.76 | −36 25.0 | 0.904 | 1.783 | 22.3 | 18.1 |
| 9 18 | 20 58.19 | −38 14.9 | 0.973 | 1.776 | 26.6 | 18.4 |

**144028** 2004 $BF_{20}$ 8 10.6 136°.37 8°.0/ 4.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 54.30 | −35 53.1 | 1.856 | 2.741 | 12.8 | 19.6 |
| 7 20 | 21 46.28 | −37 5.5 | 1.818 | 2.754 | 10.2 | 19.5 |
| 7 30 | 21 35.91 | −38 5.7 | 1.804 | 2.766 | 8.4 | 19.4 |
| 8 9 | 21 24.25 | −38 45.8 | 1.816 | 2.778 | 8.2 | 19.4 |
| 8 19 | 21 12.59 | −39 0.9 | 1.853 | 2.788 | 9.7 | 19.5 |
| 8 29 | 21 2.26 | −38 50.1 | 1.914 | 2.799 | 12.1 | 19.7 |
| 9 8 | 20 54.27 | −38 16.3 | 1.997 | 2.808 | 14.5 | 19.9 |
| 9 18 | 20 49.20 | −37 24.3 | 2.099 | 2.817 | 16.6 | 20.0 |

**431675** 2008 $CX_{202}$ 8 10.6 223°.13 0°.1/10.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.04 | −13 48.6 | 1.749 | 2.636 | 13.3 | 22.3 |
| 7 20 | 21 41.89 | −14 16.8 | 1.675 | 2.628 | 9.6 | 22.0 |
| 7 30 | 21 33.60 | −14 54.1 | 1.623 | 2.620 | 5.3 | 21.8 |
| 8 9 | 21 23.95 | −15 35.8 | 1.597 | 2.611 | 0.7 | 21.4 |
| 8 19 | 21 13.95 | −16 16.8 | 1.599 | 2.601 | 4.0 | 21.7 |
| 8 29 | 21 4.76 | −16 52.2 | 1.628 | 2.591 | 8.5 | 21.9 |
| 9 8 | 20 57.37 | −17 18.4 | 1.681 | 2.581 | 12.5 | 22.1 |
| 9 18 | 20 52.47 | −17 33.8 | 1.755 | 2.570 | 15.9 | 22.3 |

**520086** 2013 $XT_{27}$ 8 10.6 189°.09 1°.0/ 9.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.24 | −16 0.8 | 2.124 | 3.011 | 11.3 | 21.9 |
| 7 20 | 21 39.55 | −16 46.4 | 2.055 | 3.011 | 8.0 | 21.7 |
| 7 30 | 21 32.16 | −17 38.1 | 2.012 | 3.010 | 4.3 | 21.5 |
| 8 9 | 21 23.74 | −18 31.3 | 1.995 | 3.008 | 1.1 | 21.3 |
| 8 19 | 21 15.10 | −19 21.1 | 2.007 | 3.006 | 3.8 | 21.5 |
| 8 29 | 21 7.15 | −20 3.0 | 2.047 | 3.004 | 7.5 | 21.7 |
| 9 8 | 21 0.67 | −20 34.4 | 2.112 | 3.001 | 10.8 | 21.9 |
| 9 18 | 20 56.23 | −20 54.1 | 2.199 | 2.998 | 13.7 | 22.1 |

**312685** 2010 $NM_{30}$ 8 10.6 335°.77 3°.2/13.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.27 | − 4 41.7 | 1.757 | 2.629 | 14.0 | 20.6 |
| 7 20 | 21 36.28 | − 5 2.2 | 1.681 | 2.619 | 10.7 | 20.4 |
| 7 30 | 21 30.47 | − 5 39.9 | 1.626 | 2.610 | 7.0 | 20.2 |
| 8 9 | 21 23.51 | − 6 32.5 | 1.596 | 2.601 | 3.7 | 19.9 |
| 8 19 | 21 16.24 | − 7 35.2 | 1.591 | 2.593 | 4.1 | 20.0 |
| 8 29 | 21 9.63 | − 8 42.3 | 1.613 | 2.585 | 7.7 | 20.1 |
| 9 8 | 21 4.56 | − 9 47.4 | 1.659 | 2.578 | 11.4 | 20.4 |
| 9 18 | 21 1.66 | −10 45.4 | 1.727 | 2.572 | 14.8 | 20.6 |

**338471** 2003 $FV_{86}$ 8 10.6 35°.60 1°.6/11.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.10 | −11 44.4 | 1.147 | 2.052 | 17.4 | 19.5 |
| 7 20 | 21 41.42 | −11 35.2 | 1.112 | 2.073 | 12.6 | 19.3 |
| 7 30 | 21 33.29 | −11 38.8 | 1.098 | 2.095 | 7.2 | 19.0 |
| 8 9 | 21 23.89 | −11 51.3 | 1.105 | 2.117 | 2.1 | 18.8 |
| 8 19 | 21 14.61 | −12 7.7 | 1.137 | 2.141 | 4.5 | 19.0 |
| 8 29 | 21 6.83 | −12 23.0 | 1.192 | 2.166 | 9.5 | 19.4 |
| 9 8 | 21 1.56 | −12 33.4 | 1.269 | 2.191 | 13.9 | 19.7 |
| 9 18 | 20 59.27 | −12 36.6 | 1.365 | 2.217 | 17.6 | 20.0 |

**121320** 1999 $RR_{249}$ 8 10.6 293°.16 0°.6/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.67 | −15 50.3 | 2.103 | 2.993 | 11.2 | 20.4 |
| 7 20 | 21 38.52 | −16 13.0 | 2.022 | 2.978 | 8.0 | 20.2 |
| 7 30 | 21 31.65 | −16 41.5 | 1.965 | 2.963 | 4.4 | 19.9 |
| 8 9 | 21 23.68 | −17 12.3 | 1.934 | 2.948 | 0.8 | 19.6 |
| 8 19 | 21 15.42 | −17 41.2 | 1.931 | 2.932 | 3.6 | 19.8 |
| 8 29 | 21 7.77 | −18 4.6 | 1.956 | 2.917 | 7.4 | 20.0 |
| 9 8 | 21 1.54 | −18 20.0 | 2.005 | 2.902 | 10.9 | 20.2 |
| 9 18 | 20 57.33 | −18 25.9 | 2.077 | 2.887 | 13.9 | 20.4 |

**33515** Linbohan 8 10.6 25°.70 0°.9/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.62 | −15 50.2 | 1.312 | 2.220 | 15.4 | 17.6 |
| 7 20 | 21 40.42 | −16 12.8 | 1.262 | 2.226 | 11.0 | 17.3 |
| 7 30 | 21 32.83 | −16 43.6 | 1.233 | 2.233 | 6.0 | 17.1 |
| 8 9 | 21 23.85 | −17 16.7 | 1.228 | 2.241 | 1.0 | 16.8 |
| 8 19 | 21 14.74 | −17 46.2 | 1.247 | 2.249 | 4.8 | 17.0 |
| 8 29 | 21 6.85 | −18 7.2 | 1.290 | 2.258 | 9.7 | 17.4 |
| 9 8 | 21 1.24 | −18 16.8 | 1.356 | 2.268 | 14.0 | 17.6 |
| 9 18 | 20 58.49 | −18 14.2 | 1.441 | 2.278 | 17.6 | 17.9 |

**330397** 2006 $YT_{38}$ 8 10.6 317°.69 2°.9/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.68 | −18 31.7 | 1.243 | 2.160 | 15.4 | 20.4 |
| 7 20 | 21 39.55 | −19 25.5 | 1.170 | 2.140 | 11.1 | 20.1 |
| 7 30 | 21 32.66 | −20 28.7 | 1.118 | 2.119 | 6.2 | 19.8 |
| 8 9 | 21 23.87 | −21 33.1 | 1.088 | 2.099 | 2.9 | 19.5 |
| 8 19 | 21 14.45 | −22 29.9 | 1.082 | 2.080 | 6.5 | 19.7 |
| 8 29 | 21 5.99 | −23 11.2 | 1.100 | 2.062 | 11.7 | 19.9 |
| 9 8 | 20 59.88 | −23 32.8 | 1.137 | 2.044 | 16.6 | 20.1 |
| 9 18 | 20 57.02 | −23 34.0 | 1.192 | 2.027 | 20.7 | 20.3 |

**133153** 2003 $QU_{21}$ 8 10.6 346°.68 8°.2/ 6.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.95 | −34 7.9 | 1.493 | 2.394 | 14.3 | 19.2 |
| 7 20 | 21 44.36 | −34 53.6 | 1.441 | 2.390 | 11.3 | 19.0 |
| 7 30 | 21 35.05 | −35 27.8 | 1.411 | 2.386 | 8.8 | 18.8 |
| 8 9 | 21 24.17 | −35 41.9 | 1.404 | 2.382 | 8.3 | 18.8 |
| 8 19 | 21 13.17 | −35 30.5 | 1.421 | 2.379 | 10.2 | 18.9 |
| 8 29 | 21 3.58 | −34 52.7 | 1.461 | 2.377 | 13.1 | 19.1 |
| 9 8 | 20 56.60 | −33 51.7 | 1.522 | 2.375 | 16.2 | 19.3 |
| 9 18 | 20 52.82 | −32 33.1 | 1.602 | 2.373 | 19.0 | 19.5 |

**93071** 2000 $SD_{26}$ 8 10.6 295°.58 8°.2/16.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.31 | + 5 4.5 | 1.641 | 2.468 | 16.9 | 18.8 |
| 7 20 | 21 38.68 | + 5 35.5 | 1.556 | 2.451 | 14.1 | 18.6 |
| 7 30 | 21 31.94 | + 5 42.8 | 1.489 | 2.435 | 11.2 | 18.4 |
| 8 9 | 21 23.76 | + 5 24.6 | 1.446 | 2.418 | 8.8 | 18.2 |
| 8 19 | 21 15.07 | + 4 41.9 | 1.425 | 2.402 | 8.3 | 18.1 |
| 8 29 | 21 7.02 | + 3 39.1 | 1.430 | 2.385 | 10.1 | 18.2 |
| 9 8 | 21 0.65 | + 2 23.5 | 1.457 | 2.369 | 13.2 | 18.4 |
| 9 18 | 20 56.72 | + 1 3.3 | 1.505 | 2.353 | 16.5 | 18.5 |

**395373** 2011 $SP_{30}$ 8 10.6 92°.98 7°.4/17.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.01 | + 7 45.3 | 2.074 | 2.870 | 14.9 | 20.1 |
| 7 20 | 21 37.91 | + 8 5.9 | 2.008 | 2.879 | 12.5 | 20.0 |
| 7 30 | 21 31.24 | + 8 4.8 | 1.962 | 2.888 | 10.0 | 19.8 |
| 8 9 | 21 23.63 | + 7 41.6 | 1.939 | 2.896 | 8.1 | 19.7 |
| 8 19 | 21 15.85 | + 6 58.3 | 1.941 | 2.905 | 7.5 | 19.7 |
| 8 29 | 21 8.74 | + 5 58.9 | 1.969 | 2.913 | 8.6 | 19.8 |
| 9 8 | 21 3.03 | + 4 49.5 | 2.022 | 2.922 | 10.7 | 19.9 |
| 9 18 | 20 59.25 | + 3 36.4 | 2.098 | 2.930 | 13.1 | 20.1 |

**283687** 2002 $QG_{139}$ 8 10.6 342°.46 0°.9/ 9.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.75 | −12 17.4 | 1.539 | 2.439 | 14.0 | 20.2 |
| 7 20 | 21 36.88 | −13 49.1 | 1.472 | 2.433 | 10.0 | 19.9 |
| 7 30 | 21 30.92 | −15 36.5 | 1.428 | 2.428 | 5.4 | 19.6 |
| 8 9 | 21 23.60 | −17 31.5 | 1.410 | 2.423 | 1.0 | 19.3 |
| 8 19 | 21 15.93 | −19 24.5 | 1.418 | 2.419 | 4.7 | 19.6 |
| 8 29 | 21 9.04 | −21 6.1 | 1.452 | 2.415 | 9.3 | 19.8 |
| 9 8 | 21 3.96 | −22 29.6 | 1.510 | 2.412 | 13.5 | 20.1 |
| 9 18 | 21 1.37 | −23 31.9 | 1.588 | 2.409 | 17.0 | 20.3 |

**423104** 2004 $BL_{12}$ 8 10.6 258°.48 1°.0/11.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.32 | −11 21.0 | 1.647 | 2.532 | 14.1 | 21.8 |
| 7 20 | 21 41.56 | −11 39.7 | 1.565 | 2.516 | 10.3 | 21.5 |
| 7 30 | 21 33.53 | −12 10.3 | 1.505 | 2.499 | 6.0 | 21.2 |
| 8 9 | 21 23.99 | −12 49.0 | 1.470 | 2.483 | 1.5 | 20.9 |
| 8 19 | 21 13.95 | −13 30.8 | 1.462 | 2.465 | 4.0 | 21.0 |
| 8 29 | 21 4.65 | −14 10.4 | 1.480 | 2.447 | 8.7 | 21.3 |
| 9 8 | 20 57.20 | −14 43.2 | 1.522 | 2.429 | 13.1 | 21.5 |
| 9 18 | 20 52.35 | −15 6.4 | 1.585 | 2.411 | 16.8 | 21.7 |

**211076** 2002 $CU_{253}$ 8 10.6 197°.48 3°.9/ 8.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 49.82 | −22 11.9 | 1.529 | 2.432 | 13.9 | 20.0 |
| 7 20 | 21 43.41 | −23 8.9 | 1.469 | 2.430 | 10.0 | 19.8 |
| 7 30 | 21 34.53 | −24 8.0 | 1.432 | 2.429 | 6.0 | 19.6 |
| 8 9 | 21 24.12 | −25 1.3 | 1.420 | 2.426 | 3.9 | 19.4 |
| 8 19 | 21 13.43 | −25 41.5 | 1.435 | 2.424 | 6.6 | 19.6 |
| 8 29 | 21 3.84 | −26 4.1 | 1.474 | 2.421 | 10.7 | 19.8 |
| 9 8 | 20 56.48 | −26 8.0 | 1.537 | 2.417 | 14.6 | 20.1 |
| 9 18 | 20 52.04 | −25 54.7 | 1.618 | 2.413 | 17.9 | 20.3 |

**262501** 2006 $UB_{241}$ 8 10.6 266°.49 4°.3/ 7.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.88 | −22 24.1 | 1.545 | 2.452 | 13.6 | 20.3 |
| 7 20 | 21 41.41 | −23 36.6 | 1.478 | 2.441 | 9.8 | 20.0 |
| 7 30 | 21 33.50 | −24 52.7 | 1.434 | 2.430 | 6.0 | 19.8 |
| 8 9 | 21 23.99 | −26 3.8 | 1.415 | 2.419 | 4.3 | 19.7 |
| 8 19 | 21 14.05 | −27 1.7 | 1.422 | 2.408 | 7.1 | 19.8 |
| 8 29 | 21 5.04 | −27 40.6 | 1.454 | 2.397 | 11.1 | 20.0 |
| 9 8 | 20 58.14 | −27 58.3 | 1.508 | 2.386 | 15.0 | 20.2 |
| 9 18 | 20 54.10 | −27 55.8 | 1.581 | 2.374 | 18.3 | 20.4 |

**265545** 2005 $OQ_{6}$ 8 10.6 355°.48 2°.7/ 9.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.94 | −18 13.4 | 1.078 | 2.003 | 16.5 | 19.5 |
| 7 20 | 21 38.33 | −19 2.3 | 1.024 | 1.998 | 11.7 | 19.2 |
| 7 30 | 21 31.93 | −19 59.8 | 0.991 | 1.993 | 6.5 | 18.9 |
| 8 9 | 21 23.78 | −20 57.4 | 0.979 | 1.990 | 2.7 | 18.6 |
| 8 19 | 21 15.30 | −21 46.0 | 0.989 | 1.989 | 6.5 | 18.9 |
| 8 29 | 21 8.10 | −22 18.4 | 1.021 | 1.988 | 11.7 | 19.2 |
| 9 8 | 21 3.45 | −22 31.3 | 1.074 | 1.989 | 16.5 | 19.4 |
| 9 18 | 21 2.08 | −22 24.8 | 1.143 | 1.992 | 20.5 | 19.7 |

**437064** 2012 $UC_{47}$ 8 10.6 341°.18 4°.5/ 7.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.78 | −24 15.1 | 1.627 | 2.534 | 13.0 | 20.6 |
| 7 20 | 21 40.42 | −25 16.1 | 1.569 | 2.532 | 9.4 | 20.4 |
| 7 30 | 21 32.84 | −26 17.3 | 1.535 | 2.529 | 5.9 | 20.2 |
| 8 9 | 21 23.90 | −27 10.9 | 1.525 | 2.527 | 4.6 | 20.1 |
| 8 19 | 21 14.72 | −27 50.5 | 1.542 | 2.525 | 7.0 | 20.3 |
| 8 29 | 21 6.52 | −28 11.7 | 1.583 | 2.523 | 10.6 | 20.5 |
| 9 8 | 21 0.35 | −28 13.6 | 1.647 | 2.522 | 14.1 | 20.7 |
| 9 18 | 20 56.82 | −27 57.9 | 1.730 | 2.521 | 17.1 | 20.9 |

**476161** 2007 $TG_{371}$ 8 10.6 304°.32 2°.9/ 8.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.13 | −20 9.4 | 1.790 | 2.692 | 12.2 | 20.9 |
| 7 20 | 21 39.09 | −21 8.8 | 1.724 | 2.687 | 8.7 | 20.7 |
| 7 30 | 21 32.06 | −22 12.5 | 1.683 | 2.681 | 5.0 | 20.5 |
| 8 9 | 21 23.79 | −23 14.0 | 1.667 | 2.675 | 2.9 | 20.3 |
| 8 19 | 21 15.24 | −24 6.8 | 1.678 | 2.670 | 5.5 | 20.5 |
| 8 29 | 21 7.48 | −24 46.1 | 1.715 | 2.664 | 9.2 | 20.7 |
| 9 8 | 21 1.46 | −25 9.5 | 1.775 | 2.659 | 12.8 | 20.9 |
| 9 18 | 20 57.81 | −25 16.6 | 1.856 | 2.654 | 15.8 | 21.1 |

**280311** 2003 $QP_{77}$ 8 10.6 348°.96 1°.8/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.42 | −19 14.5 | 1.011 | 1.941 | 16.9 | 18.6 |
| 7 20 | 21 38.16 | −19 4.7 | 0.949 | 1.924 | 12.2 | 18.2 |
| 7 30 | 21 31.93 | −18 58.4 | 0.906 | 1.909 | 6.8 | 17.9 |
| 8 9 | 21 23.80 | −18 50.6 | 0.884 | 1.897 | 1.9 | 17.5 |
| 8 19 | 21 15.23 | −18 36.3 | 0.883 | 1.886 | 5.8 | 17.8 |
| 8 29 | 21 7.94 | −18 12.1 | 0.903 | 1.878 | 11.6 | 18.1 |
| 9 8 | 21 3.33 | −17 36.7 | 0.942 | 1.872 | 16.8 | 18.3 |
| 9 18 | 21 2.18 | −16 50.8 | 0.998 | 1.869 | 21.2 | 18.6 |

**195068** 2002 $CY_{94}$ 8 10.6 343°.06 1°.5/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.06 | −17 15.5 | 1.587 | 2.488 | 13.6 | 20.1 |
| 7 20 | 21 40.57 | −17 46.5 | 1.525 | 2.486 | 9.7 | 19.8 |
| 7 30 | 21 32.91 | −18 23.5 | 1.485 | 2.485 | 5.3 | 19.6 |
| 8 9 | 21 23.92 | −19 1.2 | 1.471 | 2.483 | 1.5 | 19.3 |
| 8 19 | 21 14.70 | −19 33.8 | 1.482 | 2.482 | 4.7 | 19.5 |
| 8 29 | 21 6.43 | −19 57.0 | 1.519 | 2.481 | 9.1 | 19.8 |
| 9 8 | 21 0.14 | −20 8.2 | 1.580 | 2.480 | 13.1 | 20.0 |
| 9 18 | 20 56.44 | −20 6.8 | 1.660 | 2.479 | 16.5 | 20.3 |

**467574** 2007 $TU_{432}$ 8 10.6 343°.77 5°.0/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.80 | − 5 4.6 | 0.929 | 1.839 | 20.0 | 20.2 |
| 7 20 | 21 36.35 | − 4 53.4 | 0.867 | 1.825 | 15.5 | 19.8 |
| 7 30 | 21 31.00 | − 5 8.3 | 0.822 | 1.813 | 10.3 | 19.5 |
| 8 9 | 21 23.69 | − 5 48.1 | 0.795 | 1.802 | 5.7 | 19.2 |
| 8 19 | 21 15.81 | − 6 47.1 | 0.789 | 1.793 | 6.2 | 19.2 |
| 8 29 | 21 9.07 | − 7 55.9 | 0.803 | 1.785 | 11.3 | 19.5 |
| 9 8 | 21 4.95 | − 9 3.8 | 0.836 | 1.780 | 16.6 | 19.8 |
| 9 18 | 21 4.33 | −10 1.9 | 0.886 | 1.776 | 21.4 | 20.0 |

**114098** 2002 $VJ_{40}$ 8 10.6 213°.07 2°.5/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.53 | − 5 30.0 | 2.013 | 2.871 | 13.0 | 20.4 |
| 7 20 | 21 39.89 | − 5 59.6 | 1.931 | 2.864 | 9.8 | 20.2 |
| 7 30 | 21 32.46 | − 6 44.3 | 1.873 | 2.857 | 6.2 | 19.9 |
| 8 9 | 21 23.88 | − 7 41.2 | 1.842 | 2.848 | 3.0 | 19.7 |
| 8 19 | 21 14.96 | − 8 45.8 | 1.838 | 2.839 | 3.7 | 19.7 |
| 8 29 | 21 6.67 | − 9 52.7 | 1.862 | 2.830 | 7.2 | 19.9 |
| 9 8 | 20 59.84 | −10 56.4 | 1.913 | 2.819 | 10.9 | 20.1 |
| 9 18 | 20 55.09 | −11 52.7 | 1.986 | 2.808 | 14.0 | 20.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **447814** 2007 $TP_{214}$ | | | 8 10.6 225°.97 | 17°.7/28.0 16 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 22 4.73 | −51 22.5 | 1.253 | 2.111 | 19.3 | 20.7 |
| 7 20 | 21 56.20 | −53 45.3 | 1.222 | 2.104 | 18.1 | 20.6 |
| 7 30 | 21 42.48 | −55 36.8 | 1.209 | 2.097 | 17.8 | 20.5 |
| 8 9 | 21 25.35 | −56 40.4 | 1.214 | 2.089 | 18.5 | 20.6 |
| 8 19 | 21 7.73 | −56 47.5 | 1.237 | 2.081 | 20.1 | 20.7 |
| 8 29 | 20 52.87 | −55 59.6 | 1.277 | 2.072 | 22.1 | 20.8 |
| 9 8 | 20 42.96 | −54 27.3 | 1.330 | 2.063 | 24.1 | 20.9 |
| 9 18 | 20 38.66 | −52 23.3 | 1.394 | 2.053 | 25.9 | 21.1 |
| **333461** 2004 $PD_{93}$ | | | 8 10.6 13°.94 | 5°.4/ 7.8 16 | | |
| 7 10 | 21 44.51 | −24 21.2 | 1.088 | 2.014 | 16.3 | 19.5 |
| 7 20 | 21 40.07 | −25 11.6 | 1.047 | 2.019 | 11.8 | 19.2 |
| 7 30 | 21 32.81 | −26 0.8 | 1.027 | 2.025 | 7.3 | 19.0 |
| 8 9 | 21 23.92 | −26 39.1 | 1.028 | 2.032 | 5.4 | 18.9 |
| 8 19 | 21 14.95 | −26 59.2 | 1.051 | 2.041 | 8.3 | 19.1 |
| 8 29 | 21 7.51 | −26 57.3 | 1.097 | 2.051 | 12.6 | 19.4 |
| 9 8 | 21 2.77 | −26 34.0 | 1.162 | 2.063 | 16.7 | 19.7 |
| 9 18 | 21 1.31 | −25 52.4 | 1.244 | 2.075 | 20.2 | 20.0 |
| **136679** 1995 $SK_{26}$ | | | 8 10.6 157°.25 | 2°.3/ 9.1 18 | | |
| 7 10 | 21 49.77 | −19 40.9 | 1.768 | 2.662 | 12.8 | 20.2 |
| 7 20 | 21 43.01 | −20 19.3 | 1.710 | 2.668 | 9.1 | 20.0 |
| 7 30 | 21 34.17 | −21 0.7 | 1.676 | 2.673 | 5.1 | 19.8 |
| 8 9 | 21 24.12 | −21 39.2 | 1.668 | 2.678 | 2.3 | 19.6 |
| 8 19 | 21 13.91 | −22 9.7 | 1.687 | 2.682 | 5.0 | 19.8 |
| 8 29 | 21 4.69 | −22 28.3 | 1.734 | 2.686 | 8.9 | 20.0 |
| 9 8 | 20 57.42 | −22 33.7 | 1.805 | 2.690 | 12.5 | 20.3 |
| 9 18 | 20 52.68 | −22 26.3 | 1.896 | 2.692 | 15.6 | 20.5 |
| **438086** 2004 $TJ_{174}$ | | | 8 10.6 308°.43 | 6°.0/ 5.7 18 | | |
| 7 10 | 21 46.44 | −31 42.5 | 2.078 | 2.974 | 11.1 | 20.5 |
| 7 20 | 21 40.64 | −32 34.0 | 2.015 | 2.964 | 8.6 | 20.4 |
| 7 30 | 21 32.88 | −33 19.2 | 1.976 | 2.954 | 6.5 | 20.2 |
| 8 9 | 21 23.94 | −33 52.0 | 1.963 | 2.944 | 6.1 | 20.2 |
| 8 19 | 21 14.77 | −34 7.4 | 1.976 | 2.934 | 7.8 | 20.3 |
| 8 29 | 21 6.45 | −34 3.4 | 2.014 | 2.925 | 10.3 | 20.4 |
| 9 8 | 20 59.88 | −33 40.4 | 2.075 | 2.915 | 13.0 | 20.6 |
| 9 18 | 20 55.65 | −33 0.8 | 2.156 | 2.906 | 15.3 | 20.7 |
| **502895** 2015 $DL_{223}$ | | | 8 10.6 185°.47 | 1°.9/ 9.1 17 | | |
| 7 10 | 21 47.67 | −18 3.0 | 1.988 | 2.878 | 11.8 | 22.0 |
| 7 20 | 21 41.43 | −18 59.0 | 1.921 | 2.878 | 8.4 | 21.8 |
| 7 30 | 21 33.30 | −20 0.3 | 1.880 | 2.877 | 4.6 | 21.6 |
| 8 9 | 21 24.01 | −21 0.8 | 1.866 | 2.876 | 1.9 | 21.4 |
| 8 19 | 21 14.47 | −21 55.0 | 1.880 | 2.875 | 4.6 | 21.6 |
| 8 29 | 21 5.70 | −22 38.1 | 1.921 | 2.872 | 8.3 | 21.8 |
| 9 8 | 20 58.58 | −23 7.7 | 1.988 | 2.869 | 11.7 | 22.0 |
| 9 18 | 20 53.71 | −23 23.2 | 2.076 | 2.865 | 14.7 | 22.2 |
| **373695** 2002 $RJ_{117}$ | | | 8 10.6 312°.65 | 4°.6/ 7.6 18 | | |
| 7 10 | 21 44.16 | −21 28.7 | 1.242 | 2.162 | 15.2 | 20.3 |
| 7 20 | 21 40.09 | −22 42.1 | 1.165 | 2.135 | 11.1 | 20.0 |
| 7 30 | 21 33.11 | −24 3.6 | 1.108 | 2.108 | 6.7 | 19.6 |
| 8 9 | 21 24.03 | −25 23.2 | 1.075 | 2.081 | 4.7 | 19.5 |
| 8 19 | 21 14.18 | −26 30.2 | 1.065 | 2.055 | 8.1 | 19.6 |
| 8 29 | 21 5.21 | −27 16.1 | 1.077 | 2.030 | 13.0 | 19.8 |
| 9 8 | 20 58.66 | −27 36.7 | 1.110 | 2.005 | 17.8 | 20.0 |
| 9 18 | 20 55.51 | −27 32.5 | 1.159 | 1.982 | 21.9 | 20.2 |
| **316455** 2010 $UW_{81}$ | | | 8 10.7 308°.80 | 1°.8/12.1 18 | | |
| 7 10 | 21 42.42 | − 8 45.2 | 2.054 | 2.929 | 12.1 | 20.7 |
| 7 20 | 21 37.64 | − 8 56.3 | 1.975 | 2.919 | 9.0 | 20.5 |
| 7 30 | 21 31.21 | − 9 18.5 | 1.920 | 2.909 | 5.5 | 20.3 |
| 8 9 | 21 23.74 | − 9 49.3 | 1.890 | 2.900 | 2.2 | 20.0 |
| 8 19 | 21 16.00 | −10 25.3 | 1.888 | 2.891 | 3.3 | 20.1 |
| 8 29 | 21 8.86 | −11 2.4 | 1.912 | 2.882 | 6.9 | 20.3 |
| 9 8 | 21 3.11 | −11 36.7 | 1.962 | 2.873 | 10.4 | 20.5 |
| 9 18 | 20 59.31 | −12 5.2 | 2.035 | 2.864 | 13.5 | 20.7 |
| **482215** 2010 $WY_{40}$ | | | 8 10.7 240°.72 | 3°.1/13.5 17 | | |
| 7 10 | 21 42.79 | − 3 38.2 | 2.692 | 3.534 | 10.6 | 22.4 |
| 7 20 | 21 37.59 | − 3 34.7 | 2.603 | 3.522 | 8.2 | 22.2 |
| 7 30 | 21 31.06 | − 3 42.2 | 2.538 | 3.510 | 5.6 | 22.0 |
| 8 9 | 21 23.72 | − 3 59.7 | 2.500 | 3.498 | 3.5 | 21.8 |
| 8 19 | 21 16.13 | − 4 25.2 | 2.490 | 3.485 | 3.6 | 21.8 |
| 8 29 | 21 8.98 | − 4 56.0 | 2.509 | 3.472 | 5.9 | 22.0 |
| 9 8 | 21 2.87 | − 5 28.9 | 2.554 | 3.458 | 8.6 | 22.1 |
| 9 18 | 20 58.29 | − 6 0.9 | 2.624 | 3.445 | 11.1 | 22.3 |
| **358886** 2008 $GX_{25}$ | | | 8 10.7 173°.81 | 4°.2/ 6.9 18 | | |
| 7 10 | 21 45.73 | −27 12.3 | 2.378 | 3.272 | 10.0 | 21.3 |
| 7 20 | 21 39.84 | −28 3.1 | 2.320 | 3.273 | 7.3 | 21.1 |
| 7 30 | 21 32.34 | −28 51.0 | 2.287 | 3.275 | 5.0 | 21.0 |
| 8 9 | 21 23.90 | −29 30.9 | 2.282 | 3.275 | 4.2 | 20.9 |
| 8 19 | 21 15.31 | −29 58.8 | 2.304 | 3.276 | 5.9 | 21.1 |
| 8 29 | 21 7.44 | −30 12.1 | 2.353 | 3.277 | 8.4 | 21.2 |
| 9 8 | 21 1.04 | −30 10.4 | 2.427 | 3.277 | 11.0 | 21.4 |
| 9 18 | 20 56.60 | −29 54.9 | 2.521 | 3.277 | 13.2 | 21.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **250266** 2003 $EY_{30}$ | | | 8 10.7 118°.52 | 2°.7/ 8.7 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 48.12 | −23 18.3 | 2.239 | 3.130 | 10.6 | 20.6 |
| 7 20 | 21 41.46 | −23 37.6 | 2.183 | 3.138 | 7.6 | 20.4 |
| 7 30 | 21 33.18 | −23 55.7 | 2.152 | 3.147 | 4.5 | 20.2 |
| 8 9 | 21 24.01 | −24 8.4 | 2.148 | 3.155 | 2.7 | 20.1 |
| 8 19 | 21 14.80 | −24 12.8 | 2.173 | 3.163 | 4.7 | 20.3 |
| 8 29 | 21 6.43 | −24 6.8 | 2.226 | 3.170 | 7.7 | 20.5 |
| 9 8 | 20 59.63 | −23 50.3 | 2.303 | 3.178 | 10.6 | 20.7 |
| 9 18 | 20 54.90 | −23 24.1 | 2.403 | 3.185 | 13.1 | 20.9 |
| **37964** 1998 $HR_{84}$ | | | 8 10.7 41°.79 | 8°.2/17.6 18 | | |
| 7 10 | 21 42.28 | + 7 44.3 | 1.658 | 2.472 | 17.3 | 18.4 |
| 7 20 | 21 37.77 | + 7 51.6 | 1.593 | 2.477 | 14.5 | 18.2 |
| 7 30 | 21 31.36 | + 7 31.6 | 1.546 | 2.482 | 11.5 | 18.0 |
| 8 9 | 21 23.78 | + 6 43.9 | 1.521 | 2.487 | 9.0 | 17.9 |
| 8 19 | 21 15.97 | + 5 31.8 | 1.520 | 2.493 | 8.2 | 17.9 |
| 8 29 | 21 8.95 | + 4 1.6 | 1.544 | 2.499 | 9.6 | 18.0 |
| 9 8 | 21 3.62 | + 2 22.0 | 1.592 | 2.505 | 12.2 | 18.1 |
| 9 18 | 21 0.57 | + 0 41.9 | 1.662 | 2.511 | 15.1 | 18.3 |
| **491652** 2012 $TK_{242}$ | | | 8 10.7 352°.53 | 1°.7/ 9.6 16 | | |
| 7 10 | 21 42.42 | −16 50.3 | 1.249 | 2.166 | 15.4 | 20.9 |
| 7 20 | 21 38.44 | −17 29.0 | 1.191 | 2.159 | 11.0 | 20.6 |
| 7 30 | 21 31.94 | −18 16.7 | 1.152 | 2.154 | 6.0 | 20.3 |
| 8 9 | 21 23.88 | −19 6.4 | 1.137 | 2.150 | 1.8 | 20.1 |
| 8 19 | 21 15.50 | −19 50.8 | 1.146 | 2.147 | 5.4 | 20.3 |
| 8 29 | 21 8.22 | −20 23.5 | 1.178 | 2.145 | 10.5 | 20.6 |
| 9 8 | 21 3.20 | −20 40.8 | 1.231 | 2.144 | 15.0 | 20.8 |
| 9 18 | 21 1.14 | −20 41.9 | 1.302 | 2.145 | 18.9 | 21.1 |
| **517701** 2015 $FE_{403}$ | | | 8 10.7 353°.05 | 4°.0/ 7.9 16 | | |
| 7 10 | 21 45.12 | −22 7.5 | 1.469 | 2.381 | 13.8 | 20.9 |
| 7 20 | 21 40.13 | −23 10.9 | 1.413 | 2.378 | 9.9 | 20.7 |
| 7 30 | 21 32.79 | −24 17.0 | 1.379 | 2.376 | 6.0 | 20.4 |
| 8 9 | 21 24.00 | −25 17.5 | 1.369 | 2.375 | 4.1 | 20.3 |
| 8 19 | 21 14.94 | −26 5.1 | 1.385 | 2.374 | 6.8 | 20.5 |
| 8 29 | 21 6.93 | −26 34.6 | 1.425 | 2.373 | 10.8 | 20.7 |
| 9 8 | 21 1.06 | −26 44.3 | 1.487 | 2.373 | 14.6 | 21.0 |
| 9 18 | 20 57.99 | −26 35.4 | 1.568 | 2.374 | 17.9 | 21.2 |
| **165642** 2001 $GJ_{11}$ | | | 8 10.7 181°.64 | 1°.0/11.7 18 | | |
| 7 10 | 21 43.77 | − 8 43.2 | 2.295 | 3.162 | 11.3 | 20.6 |
| 7 20 | 21 38.44 | − 9 33.5 | 2.221 | 3.163 | 8.3 | 20.4 |
| 7 30 | 21 31.59 | −10 35.4 | 2.172 | 3.163 | 4.8 | 20.2 |
| 8 9 | 21 23.82 | −11 44.9 | 2.151 | 3.163 | 1.4 | 20.0 |
| 8 19 | 21 15.82 | −12 57.3 | 2.159 | 3.162 | 2.9 | 20.1 |
| 8 29 | 21 8.40 | −14 7.3 | 2.196 | 3.161 | 6.5 | 20.3 |
| 9 8 | 21 2.26 | −15 10.6 | 2.259 | 3.159 | 9.7 | 20.5 |
| 9 18 | 20 57.92 | −16 4.2 | 2.347 | 3.157 | 12.5 | 20.7 |
| **97055** 1999 $UE_{52}$ | | | 8 10.7 250°.97 | 4°.1/14.2 18 | | |
| 7 10 | 21 43.18 | − 1 5.9 | 2.060 | 2.903 | 13.3 | 20.1 |
| 7 20 | 21 38.25 | − 1 25.5 | 1.972 | 2.890 | 10.5 | 19.8 |
| 7 30 | 21 31.60 | − 2 3.0 | 1.906 | 2.876 | 7.3 | 19.6 |
| 8 9 | 21 23.84 | − 2 56.8 | 1.866 | 2.862 | 4.6 | 19.4 |
| 8 19 | 21 15.71 | − 4 3.4 | 1.852 | 2.848 | 4.5 | 19.4 |
| 8 29 | 21 8.12 | − 5 17.4 | 1.867 | 2.833 | 7.3 | 19.5 |
| 9 8 | 21 1.88 | − 6 32.8 | 1.907 | 2.818 | 10.6 | 19.7 |
| 9 18 | 20 57.60 | − 7 44.2 | 1.970 | 2.803 | 13.7 | 19.9 |
| **448384** 2009 $OH_{14}$ | | | 8 10.7 326°.89 | 7°.9/15.3 17 | | |
| 7 10 | 21 43.29 | + 3 52.6 | 1.832 | 2.658 | 15.4 | 19.7 |
| 7 20 | 21 38.54 | + 4 53.6 | 1.745 | 2.639 | 12.9 | 19.5 |
| 7 30 | 21 31.86 | + 5 36.4 | 1.679 | 2.621 | 10.3 | 19.3 |
| 8 9 | 21 23.88 | + 5 58.8 | 1.635 | 2.603 | 8.4 | 19.1 |
| 8 19 | 21 15.46 | + 6 0.2 | 1.616 | 2.586 | 8.1 | 19.1 |
| 8 29 | 21 7.59 | + 5 42.7 | 1.621 | 2.570 | 9.8 | 19.1 |
| 9 8 | 21 1.24 | + 5 10.9 | 1.650 | 2.554 | 12.5 | 19.3 |
| 9 18 | 20 57.09 | + 4 30.7 | 1.700 | 2.539 | 15.3 | 19.4 |
| **300517** 2007 $TH_{196}$ | | | 8 10.7 116°.85 | 1°.8/12.1 18 | | |
| 7 10 | 21 43.85 | − 8 12.3 | 1.954 | 2.827 | 12.7 | 21.4 |
| 7 20 | 21 38.65 | − 8 33.6 | 1.888 | 2.831 | 9.4 | 21.2 |
| 7 30 | 21 31.75 | − 9 7.2 | 1.845 | 2.834 | 5.7 | 20.9 |
| 8 9 | 21 23.85 | − 9 49.9 | 1.828 | 2.838 | 2.3 | 20.7 |
| 8 19 | 21 15.75 | −10 37.4 | 1.838 | 2.841 | 3.4 | 20.8 |
| 8 29 | 21 8.38 | −11 25.0 | 1.875 | 2.844 | 7.1 | 21.1 |
| 9 8 | 21 2.51 | −12 8.5 | 1.938 | 2.847 | 10.6 | 21.3 |
| 9 18 | 20 58.69 | −12 44.6 | 2.023 | 2.850 | 13.6 | 21.5 |
| **494350** 2016 $TD_{70}$ | | | 8 10.7 213°.28 | 1°.1/11.5 18 | | |
| 7 10 | 21 44.93 | −10 57.2 | 2.144 | 3.019 | 11.7 | 21.3 |
| 7 20 | 21 39.35 | −11 9.9 | 2.070 | 3.016 | 8.5 | 21.1 |
| 7 30 | 21 32.13 | −11 31.5 | 2.020 | 3.012 | 5.0 | 20.8 |
| 8 9 | 21 23.91 | −11 59.1 | 1.996 | 3.008 | 1.5 | 20.6 |
| 8 19 | 21 15.47 | −12 29.2 | 2.001 | 3.004 | 3.1 | 20.7 |
| 8 29 | 21 7.68 | −12 58.3 | 2.034 | 3.000 | 6.8 | 20.9 |
| 9 8 | 21 1.30 | −13 23.1 | 2.092 | 2.996 | 10.2 | 21.1 |
| 9 18 | 20 56.88 | −13 41.5 | 2.173 | 2.991 | 13.1 | 21.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **280768** 2005 $SE_{13}$ | | | 8 10.7 | 9.°08 | 0.°8/11.4 | 18 |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.06 | −11 38.7 | 2.253 | 3.136 | 10.9 | 20.3 |
| 7 20 | 21 35.77 | −11 53.8 | 2.189 | 3.139 | 7.9 | 20.1 |
| 7 30 | 21 30.10 | −12 16.7 | 2.148 | 3.143 | 4.5 | 19.9 |
| 8 9 | 21 23.61 | −12 44.8 | 2.135 | 3.147 | 1.2 | 19.7 |
| 8 19 | 21 17.00 | −13 14.8 | 2.148 | 3.152 | 2.9 | 19.9 |
| 8 29 | 21 11.00 | −13 43.1 | 2.189 | 3.157 | 6.3 | 20.1 |
| 9 8 | 21 6.25 | −14 7.1 | 2.255 | 3.163 | 9.4 | 20.3 |
| 9 18 | 21 3.21 | −14 24.5 | 2.345 | 3.170 | 12.1 | 20.5 |
| **481124** 2005 $TX_{186}$ | | | 8 10.7 | 238.°68 | 3.°7/ 7.6 | 18 |
| 7 10 | 21 46.44 | −25 57.2 | 2.301 | 3.195 | 10.3 | 21.6 |
| 7 20 | 21 40.42 | −26 33.8 | 2.234 | 3.189 | 7.5 | 21.4 |
| 7 30 | 21 32.72 | −27 8.3 | 2.192 | 3.183 | 4.8 | 21.2 |
| 8 9 | 21 24.01 | −27 35.8 | 2.178 | 3.177 | 3.8 | 21.2 |
| 8 19 | 21 15.11 | −27 52.4 | 2.191 | 3.170 | 5.5 | 21.3 |
| 8 29 | 21 6.94 | −27 55.8 | 2.231 | 3.164 | 8.3 | 21.4 |
| 9 8 | 21 0.27 | −27 45.4 | 2.295 | 3.157 | 11.1 | 21.6 |
| 9 18 | 20 55.63 | −27 22.4 | 2.381 | 3.150 | 13.6 | 21.8 |
| **151326** 2002 $CO_{149}$ | | | 8 10.7 | 228.°98 | 0.°1/10.6 | 18 |
| 7 10 | 21 45.52 | −15 2.3 | 2.311 | 3.193 | 10.7 | 20.6 |
| 7 20 | 21 39.67 | −15 10.0 | 2.237 | 3.188 | 7.7 | 20.4 |
| 7 30 | 21 32.28 | −15 22.7 | 2.187 | 3.183 | 4.2 | 20.2 |
| 8 9 | 21 23.95 | −15 37.5 | 2.165 | 3.178 | 0.6 | 19.9 |
| 8 19 | 21 15.43 | −15 51.3 | 2.171 | 3.173 | 3.1 | 20.1 |
| 8 29 | 21 7.54 | −16 1.6 | 2.206 | 3.168 | 6.6 | 20.3 |
| 9 8 | 21 1.01 | −16 6.4 | 2.266 | 3.163 | 9.9 | 20.5 |
| 9 18 | 20 56.36 | −16 4.6 | 2.350 | 3.157 | 12.6 | 20.7 |
| **390265** 2012 $XV_{136}$ | | | 8 10.7 | 119.°51 | 2.°6/ 8.6 | 18 |
| 7 10 | 21 44.95 | −19 56.3 | 1.902 | 2.801 | 11.8 | 20.9 |
| 7 20 | 21 39.55 | −20 52.3 | 1.843 | 2.803 | 8.4 | 20.6 |
| 7 30 | 21 32.30 | −21 51.8 | 1.808 | 2.806 | 4.8 | 20.4 |
| 8 9 | 21 23.95 | −22 48.7 | 1.800 | 2.808 | 2.6 | 20.3 |
| 8 19 | 21 15.40 | −23 37.5 | 1.818 | 2.811 | 5.0 | 20.5 |
| 8 29 | 21 7.67 | −24 13.7 | 1.864 | 2.813 | 8.6 | 20.7 |
| 9 8 | 21 1.60 | −24 35.3 | 1.933 | 2.815 | 12.0 | 20.9 |
| 9 18 | 20 57.77 | −24 42.2 | 2.024 | 2.818 | 14.8 | 21.1 |
| **353782** 2012 $JB_{60}$ | | | 8 10.7 | 313.°26 | 4.°0/ 7.9 | 18 |
| 7 10 | 21 44.24 | −20 6.0 | 1.311 | 2.226 | 14.9 | 20.7 |
| 7 20 | 21 39.88 | −21 26.2 | 1.244 | 2.213 | 10.6 | 20.4 |
| 7 30 | 21 32.86 | −22 54.5 | 1.200 | 2.200 | 6.2 | 20.1 |
| 8 9 | 21 24.07 | −24 21.0 | 1.179 | 2.187 | 4.0 | 19.9 |
| 8 19 | 21 14.76 | −25 35.8 | 1.183 | 2.175 | 7.3 | 20.1 |
| 8 29 | 21 6.44 | −26 30.8 | 1.210 | 2.163 | 11.9 | 20.3 |
| 9 8 | 21 0.41 | −27 2.3 | 1.258 | 2.151 | 16.3 | 20.5 |
| 9 18 | 20 57.49 | −27 10.5 | 1.324 | 2.140 | 20.0 | 20.8 |
| **390443** 2013 $YN_{69}$ | | | 8 10.7 | 194.°63 | 0.°9/11.3 | 17 |
| 7 10 | 21 48.73 | −12 33.4 | 2.088 | 2.963 | 12.0 | 21.3 |
| 7 20 | 21 42.07 | −12 28.9 | 2.015 | 2.961 | 8.7 | 21.1 |
| 7 30 | 21 33.64 | −12 31.1 | 1.966 | 2.959 | 5.0 | 20.8 |
| 8 9 | 21 24.15 | −12 37.6 | 1.944 | 2.957 | 1.3 | 20.6 |
| 8 19 | 21 14.46 | −12 45.7 | 1.951 | 2.954 | 3.3 | 20.7 |
| 8 29 | 21 5.51 | −12 52.5 | 1.986 | 2.950 | 7.1 | 21.0 |
| 9 8 | 20 58.12 | −12 55.9 | 2.047 | 2.947 | 10.6 | 21.2 |
| 9 18 | 20 52.86 | −12 54.4 | 2.130 | 2.943 | 13.6 | 21.4 |
| **334652** 2002 $XV_{30}$ | | | 8 10.7 | 188.°63 | 11.°9/14.9 | 16 |
| 7 10 | 21 56.32 | + 5 59.2 | 1.278 | 2.099 | 21.1 | 20.6 |
| 7 20 | 21 48.50 | + 7 53.6 | 1.213 | 2.100 | 17.9 | 20.4 |
| 7 30 | 21 37.65 | + 9 23.5 | 1.166 | 2.099 | 14.7 | 20.2 |
| 8 9 | 21 24.78 | +10 22.2 | 1.140 | 2.098 | 12.4 | 20.0 |
| 8 19 | 21 11.34 | +10 46.3 | 1.138 | 2.096 | 12.1 | 20.0 |
| 8 29 | 20 59.02 | +10 37.8 | 1.159 | 2.094 | 14.1 | 20.1 |
| 9 8 | 20 49.30 | +10 4.4 | 1.200 | 2.091 | 17.1 | 20.3 |
| 9 18 | 20 43.05 | + 9 15.9 | 1.260 | 2.087 | 20.3 | 20.5 |
| **1736** Floirac | | | 8 10.7 | 288.°63 | 1.°4/11.6 | 18 |
| 7 10 | 21 45.14 | − 9 26.3 | 1.335 | 2.229 | 16.1 | 15.5 |
| 7 20 | 21 40.50 | − 9 59.6 | 1.254 | 2.209 | 12.0 | 15.2 |
| 7 30 | 21 33.24 | −10 51.4 | 1.194 | 2.190 | 7.1 | 14.9 |
| 8 9 | 21 24.16 | −11 57.2 | 1.158 | 2.170 | 2.0 | 14.5 |
| 8 19 | 21 14.41 | −13 10.0 | 1.146 | 2.150 | 4.5 | 14.7 |
| 8 29 | 21 5.46 | −14 21.2 | 1.158 | 2.131 | 10.0 | 14.9 |
| 9 8 | 20 58.63 | −15 23.3 | 1.193 | 2.111 | 15.0 | 15.1 |
| 9 18 | 20 54.82 | −16 11.4 | 1.246 | 2.092 | 19.4 | 15.4 |
| **381846** 2009 $WK_{184}$ | | | 8 10.7 | 168.°82 | 3.°5/ 7.9 | 17 |
| 7 10 | 21 47.64 | −22 32.5 | 1.905 | 2.802 | 11.9 | 21.6 |
| 7 20 | 21 41.50 | −23 31.3 | 1.846 | 2.805 | 8.5 | 21.4 |
| 7 30 | 21 33.41 | −24 31.3 | 1.812 | 2.807 | 5.1 | 21.2 |
| 8 9 | 21 24.14 | −25 25.8 | 1.805 | 2.809 | 3.5 | 21.1 |
| 8 19 | 21 14.67 | −26 9.3 | 1.825 | 2.811 | 5.8 | 21.2 |
| 8 29 | 21 6.08 | −26 37.7 | 1.871 | 2.812 | 9.2 | 21.4 |
| 9 8 | 20 59.25 | −26 49.8 | 1.942 | 2.813 | 12.4 | 21.6 |
| 9 18 | 20 54.79 | −26 46.5 | 2.033 | 2.813 | 15.2 | 21.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **380327** 2002 $LO_5$ | | | 8 10.7 | 114.°56 | 13.°5/27.6 | 18 |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.81 | +29 8.6 | 2.333 | 2.940 | 17.9 | 21.2 |
| 7 20 | 21 41.45 | +30 23.7 | 2.277 | 2.958 | 16.7 | 21.1 |
| 7 30 | 21 33.33 | +31 9.5 | 2.236 | 2.977 | 15.5 | 21.1 |
| 8 9 | 21 24.14 | +31 22.6 | 2.212 | 2.994 | 14.4 | 21.0 |
| 8 19 | 21 14.72 | +31 1.8 | 2.208 | 3.012 | 13.7 | 21.0 |
| 8 29 | 21 6.02 | +30 9.3 | 2.223 | 3.028 | 13.5 | 21.0 |
| 9 8 | 20 58.86 | +28 50.7 | 2.259 | 3.044 | 13.8 | 21.1 |
| 9 18 | 20 53.80 | +27 13.6 | 2.315 | 3.060 | 14.6 | 21.2 |
| **263191** 2007 $YT_{42}$ | | | 8 10.7 | 135.°45 | 0.°2/10.6 | 17 |
| 7 10 | 21 49.17 | −13 54.9 | 1.698 | 2.585 | 13.6 | 21.3 |
| 7 20 | 21 42.61 | −14 23.5 | 1.642 | 2.595 | 9.8 | 21.1 |
| 7 30 | 21 34.02 | −15 0.4 | 1.608 | 2.605 | 5.4 | 20.9 |
| 8 9 | 21 24.24 | −15 40.8 | 1.601 | 2.615 | 0.8 | 20.5 |
| 8 19 | 21 14.33 | −16 19.4 | 1.622 | 2.624 | 3.9 | 20.8 |
| 8 29 | 21 5.42 | −16 51.7 | 1.669 | 2.632 | 8.3 | 21.1 |
| 9 8 | 20 58.44 | −17 14.7 | 1.740 | 2.640 | 12.1 | 21.3 |
| 9 18 | 20 53.95 | −17 27.0 | 1.833 | 2.648 | 15.3 | 21.6 |
| **284770** 2008 $WC_{119}$ | | | 8 10.7 | 65.°66 | 2.°9/12.7 | 16 |
| 7 10 | 21 45.31 | − 6 35.1 | 1.712 | 2.583 | 14.3 | 20.8 |
| 7 20 | 21 39.83 | − 6 36.0 | 1.652 | 2.592 | 10.7 | 20.6 |
| 7 30 | 21 32.47 | − 6 51.3 | 1.615 | 2.601 | 6.8 | 20.4 |
| 8 9 | 21 24.02 | − 7 18.3 | 1.603 | 2.610 | 3.4 | 20.2 |
| 8 19 | 21 15.42 | − 7 53.3 | 1.618 | 2.619 | 4.1 | 20.3 |
| 8 29 | 21 7.70 | − 8 31.4 | 1.658 | 2.628 | 7.7 | 20.5 |
| 9 8 | 21 1.72 | − 9 8.0 | 1.723 | 2.638 | 11.4 | 20.8 |
| 9 18 | 20 58.03 | − 9 39.5 | 1.810 | 2.647 | 14.6 | 21.0 |
| **160833** 2000 $YN_{14}$ | | | 8 10.7 | 191.°56 | 0.°7/10.0 | 18 |
| 7 10 | 21 42.89 | −15 29.4 | 2.331 | 3.218 | 10.4 | 20.5 |
| 7 20 | 21 37.82 | −16 6.8 | 2.263 | 3.217 | 7.4 | 20.3 |
| 7 30 | 21 31.27 | −16 50.0 | 2.219 | 3.217 | 4.0 | 20.1 |
| 8 9 | 21 23.84 | −17 35.0 | 2.203 | 3.216 | 0.8 | 19.9 |
| 8 19 | 21 16.24 | −18 17.8 | 2.215 | 3.216 | 3.3 | 20.1 |
| 8 29 | 21 9.23 | −18 54.6 | 2.256 | 3.215 | 6.7 | 20.3 |
| 9 8 | 21 3.50 | −19 22.8 | 2.321 | 3.214 | 9.8 | 20.5 |
| 9 18 | 20 59.57 | −19 41.2 | 2.410 | 3.213 | 12.5 | 20.7 |
| **81665** 2000 $HQ_{94}$ | | | 8 10.7 | 336.°28 | 1.°7/ 9.5 | 18 |
| 7 10 | 21 44.29 | −17 55.3 | 1.737 | 2.638 | 12.6 | 19.2 |
| 7 20 | 21 39.25 | −18 31.1 | 1.672 | 2.633 | 9.0 | 18.9 |
| 7 30 | 21 32.23 | −19 12.3 | 1.629 | 2.629 | 5.0 | 18.7 |
| 8 9 | 21 23.99 | −19 53.6 | 1.612 | 2.624 | 1.7 | 18.4 |
| 8 19 | 21 15.50 | −20 29.6 | 1.622 | 2.620 | 4.6 | 18.6 |
| 8 29 | 21 7.84 | −20 56.0 | 1.657 | 2.617 | 8.7 | 18.9 |
| 9 8 | 21 1.94 | −21 10.2 | 1.716 | 2.613 | 12.4 | 19.1 |
| 9 18 | 20 58.40 | −21 11.5 | 1.796 | 2.610 | 15.6 | 19.3 |
| **40779** 1999 $TY_{25}$ | | | 8 10.7 | 328.°44 | 8.°3/ 4.1 | 18 |
| 7 10 | 21 49.44 | −38 27.3 | 2.009 | 2.893 | 12.0 | 18.4 |
| 7 20 | 21 42.95 | −39 23.8 | 1.957 | 2.887 | 9.9 | 18.3 |
| 7 30 | 21 34.26 | −40 8.1 | 1.928 | 2.881 | 8.5 | 18.2 |
| 8 9 | 21 24.28 | −40 33.1 | 1.924 | 2.876 | 8.5 | 18.2 |
| 8 19 | 21 14.17 | −40 34.5 | 1.944 | 2.871 | 9.9 | 18.3 |
| 8 29 | 21 5.14 | −40 11.0 | 1.988 | 2.866 | 12.0 | 18.4 |
| 9 8 | 20 58.17 | −39 25.1 | 2.053 | 2.861 | 14.3 | 18.6 |
| 9 18 | 20 53.87 | −38 20.9 | 2.138 | 2.857 | 16.3 | 18.7 |
| **447224** 2005 $UG_{27}$ | | | 8 10.7 | 305.°43 | 4.°2/ 7.4 | 18 |
| 7 10 | 21 44.83 | −25 2.2 | 1.938 | 2.840 | 11.5 | 20.5 |
| 7 20 | 21 39.65 | −25 52.7 | 1.864 | 2.824 | 8.4 | 20.3 |
| 7 30 | 21 32.48 | −26 42.8 | 1.815 | 2.808 | 5.4 | 20.1 |
| 8 9 | 21 24.04 | −27 26.6 | 1.791 | 2.792 | 4.2 | 20.0 |
| 8 19 | 21 15.27 | −27 58.3 | 1.794 | 2.776 | 6.3 | 20.1 |
| 8 29 | 21 7.23 | −28 14.4 | 1.823 | 2.760 | 9.6 | 20.2 |
| 9 8 | 21 0.86 | −28 13.6 | 1.875 | 2.745 | 12.9 | 20.4 |
| 9 18 | 20 56.81 | −27 56.8 | 1.947 | 2.730 | 15.7 | 20.6 |
| **474562** 2004 $BK_{39}$ | | | 8 10.7 | 236.°57 | 0.°4/11.1 | 18 |
| 7 10 | 21 44.30 | −11 22.7 | 2.506 | 3.377 | 10.3 | 22.3 |
| 7 20 | 21 38.85 | −12 1.5 | 2.415 | 3.361 | 7.5 | 22.1 |
| 7 30 | 21 31.89 | −12 49.3 | 2.350 | 3.344 | 4.3 | 21.9 |
| 8 9 | 21 23.96 | −13 42.7 | 2.313 | 3.326 | 0.9 | 21.6 |
| 8 19 | 21 15.71 | −14 37.7 | 2.306 | 3.308 | 2.9 | 21.7 |
| 8 29 | 21 7.90 | −15 30.2 | 2.327 | 3.290 | 6.3 | 21.9 |
| 9 8 | 21 1.25 | −16 16.6 | 2.375 | 3.270 | 9.5 | 22.1 |
| 9 18 | 20 56.31 | −16 54.5 | 2.447 | 3.250 | 12.3 | 22.2 |
| **201816** 2003 $YO_{15}$ | | | 8 10.7 | 131.°52 | 6.°3/ 4.9 | 18 |
| 7 10 | 21 47.98 | −32 11.7 | 2.134 | 3.026 | 11.0 | 19.9 |
| 7 20 | 21 41.68 | −33 30.5 | 2.091 | 3.035 | 8.5 | 19.8 |
| 7 30 | 21 33.48 | −34 42.2 | 2.072 | 3.044 | 6.7 | 19.7 |
| 8 9 | 21 24.18 | −35 39.9 | 2.080 | 3.053 | 6.5 | 19.7 |
| 8 19 | 21 14.74 | −36 18.5 | 2.115 | 3.061 | 8.1 | 19.8 |
| 8 29 | 21 6.22 | −36 35.8 | 2.174 | 3.069 | 10.4 | 20.0 |
| 9 8 | 20 59.46 | −36 32.5 | 2.257 | 3.077 | 12.8 | 20.2 |
| 9 18 | 20 55.03 | −36 11.2 | 2.359 | 3.084 | 14.8 | 20.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **478874** 2012 $VR_{98}$ | | | 8 10.7 271.°92 | 6.°2/15.5 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.20 | + 3 31.5 | 2.065 | 2.884 | 14.2 | 21.9 |
| 7 20 | 21 39.11 | + 3 41.9 | 1.964 | 2.859 | 11.7 | 21.7 |
| 7 30 | 21 32.19 | + 3 32.7 | 1.885 | 2.833 | 9.0 | 21.4 |
| 8 9 | 21 24.02 | + 3 3.5 | 1.829 | 2.807 | 6.8 | 21.3 |
| 8 19 | 21 15.35 | + 2 15.7 | 1.800 | 2.781 | 6.4 | 21.2 |
| 8 29 | 21 7.11 | + 1 13.2 | 1.798 | 2.754 | 8.3 | 21.3 |
| 9 8 | 21 0.19 | + 0 2.0 | 1.820 | 2.727 | 11.3 | 21.4 |
| 9 18 | 20 55.28 | − 1 11.8 | 1.866 | 2.699 | 14.4 | 21.5 |
| **509742** 2008 $TJ_{46}$ | | | 8 10.7 265.°22 | 1.°0/11.4 18 | | |
| 7 10 | 21 44.38 | −10 23.0 | 1.820 | 2.702 | 13.1 | 22.0 |
| 7 20 | 21 39.31 | −10 55.3 | 1.741 | 2.691 | 9.6 | 21.8 |
| 7 30 | 21 32.29 | −11 40.0 | 1.685 | 2.679 | 5.6 | 21.5 |
| 8 9 | 21 24.03 | −12 33.2 | 1.655 | 2.668 | 1.4 | 21.2 |
| 8 19 | 21 15.40 | −13 29.8 | 1.652 | 2.656 | 3.6 | 21.4 |
| 8 29 | 21 7.43 | −14 24.1 | 1.676 | 2.644 | 7.8 | 21.6 |
| 9 8 | 21 1.07 | −15 11.4 | 1.725 | 2.632 | 11.8 | 21.8 |
| 9 18 | 20 56.97 | −15 48.6 | 1.795 | 2.620 | 15.2 | 22.0 |
| **101557** 1999 $AW_{6}$ | | | 8 10.7 143.°21 | 0.°2/10.8 18 | | |
| 7 10 | 21 46.16 | −12 22.1 | 1.736 | 2.623 | 13.4 | 19.1 |
| 7 20 | 21 40.51 | −13 2.0 | 1.675 | 2.628 | 9.6 | 18.8 |
| 7 30 | 21 32.90 | −13 52.3 | 1.636 | 2.633 | 5.4 | 18.6 |
| 8 9 | 21 24.10 | −14 48.2 | 1.624 | 2.637 | 0.8 | 18.3 |
| 8 19 | 21 15.11 | −15 43.8 | 1.639 | 2.642 | 3.7 | 18.5 |
| 8 29 | 21 6.97 | −16 33.6 | 1.680 | 2.645 | 8.1 | 18.8 |
| 9 8 | 21 0.61 | −17 13.7 | 1.746 | 2.649 | 11.9 | 19.0 |
| 9 18 | 20 56.61 | −17 42.0 | 1.834 | 2.653 | 15.2 | 19.3 |
| **323350** 2003 $US_{331}$ | | | 8 10.7 182.°63 | 3.°7/13.3 17 | | |
| 7 10 | 21 47.54 | − 4 8.0 | 1.703 | 2.562 | 14.9 | 21.6 |
| 7 20 | 21 41.55 | − 4 13.9 | 1.633 | 2.563 | 11.4 | 21.4 |
| 7 30 | 21 33.52 | − 4 36.9 | 1.584 | 2.564 | 7.6 | 21.2 |
| 8 9 | 21 24.20 | − 5 14.9 | 1.560 | 2.563 | 4.2 | 21.0 |
| 8 19 | 21 14.60 | − 6 3.7 | 1.564 | 2.563 | 4.6 | 21.0 |
| 8 29 | 21 5.82 | − 6 58.0 | 1.593 | 2.561 | 8.2 | 21.2 |
| 9 8 | 20 58.83 | − 7 51.7 | 1.648 | 2.560 | 12.0 | 21.4 |
| 9 18 | 20 54.26 | − 8 40.2 | 1.724 | 2.557 | 15.4 | 21.7 |
| **198455** 2004 $XU_{9}$ | | | 8 10.7 310.°09 | 7.°6/ 4.6 18 | | |
| 7 10 | 21 47.16 | −31 37.5 | 1.631 | 2.535 | 13.1 | 19.2 |
| 7 20 | 21 41.69 | −33 7.4 | 1.577 | 2.529 | 10.2 | 19.1 |
| 7 30 | 21 33.74 | −34 31.0 | 1.546 | 2.523 | 8.0 | 18.9 |
| 8 9 | 21 24.25 | −35 38.6 | 1.540 | 2.518 | 7.9 | 18.9 |
| 8 19 | 21 14.43 | −36 22.8 | 1.559 | 2.512 | 9.9 | 19.0 |
| 8 29 | 21 5.67 | −36 40.0 | 1.601 | 2.507 | 12.8 | 19.2 |
| 9 8 | 20 59.11 | −36 30.9 | 1.664 | 2.501 | 15.8 | 19.4 |
| 9 18 | 20 55.45 | −35 59.0 | 1.744 | 2.496 | 18.4 | 19.5 |
| **309616** 2008 $CE_{23}$ | | | 8 10.7 179.°69 | 0.°2/10.8 18 | | |
| 7 10 | 21 45.59 | −14 2.3 | 2.168 | 3.050 | 11.3 | 20.9 |
| 7 20 | 21 39.80 | −14 11.9 | 2.099 | 3.050 | 8.1 | 20.7 |
| 7 30 | 21 32.39 | −14 27.7 | 2.054 | 3.050 | 4.5 | 20.5 |
| 8 9 | 21 24.04 | −14 46.4 | 2.037 | 3.050 | 0.7 | 20.2 |
| 8 19 | 21 15.52 | −15 5.0 | 2.048 | 3.050 | 3.2 | 20.4 |
| 8 29 | 21 7.69 | −15 20.4 | 2.086 | 3.050 | 6.8 | 20.6 |
| 9 8 | 21 1.30 | −15 30.3 | 2.150 | 3.050 | 10.2 | 20.8 |
| 9 18 | 20 56.87 | −15 33.4 | 2.237 | 3.049 | 13.0 | 21.0 |
| **9480** Inti | | | 8 10.7 275.°33 | 0.°2/10.6 18 | | |
| 7 10 | 21 43.19 | −14 15.3 | 2.315 | 3.199 | 10.6 | 18.2 |
| 7 20 | 21 38.13 | −14 40.6 | 2.232 | 3.185 | 7.6 | 18.0 |
| 7 30 | 21 31.52 | −15 12.5 | 2.174 | 3.171 | 4.2 | 17.8 |
| 8 9 | 21 23.92 | −15 47.7 | 2.143 | 3.156 | 0.6 | 17.5 |
| 8 19 | 21 16.05 | −16 22.5 | 2.140 | 3.142 | 3.1 | 17.7 |
| 8 29 | 21 8.71 | −16 53.4 | 2.165 | 3.127 | 6.7 | 17.9 |
| 9 8 | 21 2.64 | −17 17.4 | 2.215 | 3.113 | 10.0 | 18.0 |
| 9 18 | 20 58.38 | −17 33.0 | 2.288 | 3.098 | 12.8 | 18.2 |
| **44579** 1999 $GR_{25}$ | | | 8 10.7 66.°19 | 0.°3/10.4 18 | | R |
| 7 10 | 21 43.74 | −14 3.7 | 1.952 | 2.841 | 12.0 | 18.4 |
| 7 20 | 21 38.63 | −14 41.2 | 1.889 | 2.845 | 8.6 | 18.2 |
| 7 30 | 21 31.81 | −15 26.6 | 1.851 | 2.849 | 4.7 | 18.0 |
| 8 9 | 21 23.97 | −16 15.3 | 1.839 | 2.852 | 0.7 | 17.7 |
| 8 19 | 21 15.95 | −17 2.6 | 1.854 | 2.856 | 3.6 | 18.0 |
| 8 29 | 21 8.68 | −17 43.9 | 1.897 | 2.860 | 7.5 | 18.2 |
| 9 8 | 21 2.94 | −18 15.9 | 1.964 | 2.864 | 11.0 | 18.4 |
| 9 18 | 20 59.29 | −18 37.0 | 2.053 | 2.868 | 13.9 | 18.6 |
| **57318** 2001 $QT_{237}$ | | | 8 10.7 299.°24 | 0.°8/11.2 18 | | |
| 7 10 | 21 44.35 | −11 9.1 | 1.474 | 2.368 | 14.9 | 18.7 |
| 7 20 | 21 39.76 | −11 39.6 | 1.390 | 2.347 | 10.9 | 18.5 |
| 7 30 | 21 32.79 | −12 25.0 | 1.328 | 2.325 | 6.3 | 18.1 |
| 8 9 | 21 24.15 | −13 20.7 | 1.290 | 2.303 | 1.4 | 17.8 |
| 8 19 | 21 14.92 | −14 20.6 | 1.278 | 2.282 | 4.2 | 17.9 |
| 8 29 | 21 6.42 | −15 17.7 | 1.290 | 2.261 | 9.4 | 18.1 |
| 9 8 | 20 59.84 | −16 5.8 | 1.326 | 2.240 | 14.1 | 18.4 |
| 9 18 | 20 56.03 | −16 41.2 | 1.380 | 2.219 | 18.2 | 18.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **179849** 2002 $TL_{251}$ | | | 8 10.7 7.°34 | 4.°2/ 8.1 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.98 | −21 38.4 | 1.263 | 2.180 | 15.2 | 19.5 |
| 7 20 | 21 41.03 | −22 42.2 | 1.212 | 2.180 | 10.9 | 19.3 |
| 7 30 | 21 33.43 | −23 49.4 | 1.182 | 2.181 | 6.5 | 19.0 |
| 8 9 | 21 24.22 | −24 50.8 | 1.175 | 2.182 | 4.3 | 18.9 |
| 8 19 | 21 14.76 | −25 37.9 | 1.192 | 2.184 | 7.2 | 19.1 |
| 8 29 | 21 6.53 | −26 5.2 | 1.233 | 2.186 | 11.7 | 19.4 |
| 9 8 | 21 0.76 | −26 11.1 | 1.294 | 2.189 | 15.8 | 19.6 |
| 9 18 | 20 58.09 | −25 57.3 | 1.374 | 2.192 | 19.3 | 19.9 |
| **342119** 2008 $SD_{103}$ | | | 8 10.7 278.°00 | 7.°9/17.2 18 | | |
| 7 10 | 21 42.70 | + 7 16.1 | 1.809 | 2.618 | 16.3 | 20.6 |
| 7 20 | 21 38.12 | + 7 27.0 | 1.727 | 2.609 | 13.7 | 20.4 |
| 7 30 | 21 31.66 | + 7 12.8 | 1.665 | 2.600 | 10.9 | 20.2 |
| 8 9 | 21 23.97 | + 6 32.9 | 1.625 | 2.591 | 8.6 | 20.0 |
| 8 19 | 21 15.90 | + 5 29.2 | 1.609 | 2.581 | 7.9 | 20.0 |
| 8 29 | 21 8.46 | + 4 6.8 | 1.619 | 2.572 | 9.4 | 20.0 |
| 9 8 | 21 2.56 | + 2 33.5 | 1.653 | 2.563 | 12.0 | 20.2 |
| 9 18 | 20 58.85 | + 0 57.6 | 1.709 | 2.554 | 15.0 | 20.3 |
| **300513** 2007 $TJ_{186}$ | | | 8 10.7 214.°69 | 2.°1/12.7 18 | | |
| 7 10 | 21 43.49 | − 6 8.9 | 2.312 | 3.170 | 11.6 | 20.9 |
| 7 20 | 21 38.30 | − 6 38.3 | 2.230 | 3.164 | 8.7 | 20.7 |
| 7 30 | 21 31.60 | − 7 20.4 | 2.173 | 3.157 | 5.5 | 20.5 |
| 8 9 | 21 23.95 | − 8 12.5 | 2.142 | 3.150 | 2.5 | 20.3 |
| 8 19 | 21 16.04 | − 9 10.7 | 2.140 | 3.142 | 3.2 | 20.4 |
| 8 29 | 21 8.65 | −10 10.7 | 2.167 | 3.134 | 6.4 | 20.5 |
| 9 8 | 21 2.51 | −11 7.7 | 2.220 | 3.126 | 9.6 | 20.7 |
| 9 18 | 20 58.14 | −11 58.5 | 2.296 | 3.117 | 12.5 | 20.9 |
| **182517** 2001 $SC_{294}$ | | | 8 10.7 244.°55 | 1.°0/ 9.9 18 | | R |
| 7 10 | 21 44.72 | −16 32.0 | 2.319 | 3.205 | 10.5 | 21.4 |
| 7 20 | 21 39.24 | −17 5.5 | 2.238 | 3.192 | 7.5 | 21.2 |
| 7 30 | 21 32.14 | −17 44.3 | 2.182 | 3.179 | 4.1 | 21.0 |
| 8 9 | 21 24.03 | −18 24.4 | 2.153 | 3.166 | 1.0 | 20.7 |
| 8 19 | 21 15.64 | −19 1.8 | 2.153 | 3.152 | 3.5 | 20.9 |
| 8 29 | 21 7.80 | −19 32.8 | 2.181 | 3.138 | 7.1 | 21.1 |
| 9 8 | 21 1.28 | −19 54.9 | 2.235 | 3.124 | 10.3 | 21.3 |
| 9 18 | 20 56.63 | −20 6.9 | 2.311 | 3.109 | 13.1 | 21.4 |
| **173181** 1998 $FM$ | | | 8 10.7 45.°78 | 1.°7/ 9.5 18 | | |
| 7 10 | 21 44.82 | −17 57.3 | 1.731 | 2.631 | 12.7 | 19.7 |
| 7 20 | 21 39.45 | −18 34.1 | 1.686 | 2.647 | 9.0 | 19.6 |
| 7 30 | 21 32.24 | −19 15.3 | 1.665 | 2.664 | 4.9 | 19.3 |
| 8 9 | 21 24.03 | −19 55.4 | 1.669 | 2.681 | 1.7 | 19.2 |
| 8 19 | 21 15.79 | −20 29.4 | 1.700 | 2.699 | 4.4 | 19.4 |
| 8 29 | 21 8.52 | −20 53.5 | 1.757 | 2.717 | 8.3 | 19.7 |
| 9 8 | 21 3.05 | −21 5.8 | 1.838 | 2.735 | 11.8 | 19.9 |
| 9 18 | 20 59.87 | −21 6.1 | 1.940 | 2.753 | 14.7 | 20.2 |
| **132334** 2002 $GN_{38}$ | | | 8 10.7 181.°06 | 0.°4/11.0 18 | | |
| 7 10 | 21 45.76 | −12 2.0 | 1.992 | 2.873 | 12.2 | 20.7 |
| 7 20 | 21 40.07 | −12 32.0 | 1.924 | 2.873 | 8.8 | 20.5 |
| 7 30 | 21 32.62 | −13 11.2 | 1.879 | 2.874 | 5.0 | 20.3 |
| 8 9 | 21 24.10 | −13 55.8 | 1.861 | 2.874 | 1.0 | 20.0 |
| 8 19 | 21 15.36 | −14 41.2 | 1.870 | 2.873 | 3.3 | 20.2 |
| 8 29 | 21 7.35 | −15 22.9 | 1.908 | 2.873 | 7.3 | 20.4 |
| 9 8 | 21 0.87 | −15 57.3 | 1.970 | 2.872 | 10.9 | 20.6 |
| 9 18 | 20 56.50 | −16 22.4 | 2.055 | 2.870 | 13.9 | 20.8 |
| **510933** 2013 $EH_{75}$ | | | 8 10.7 118.°24 | 2.°1/12.9 18 | | |
| 7 10 | 21 42.01 | − 5 30.0 | 2.521 | 3.375 | 10.8 | 22.2 |
| 7 20 | 21 37.04 | − 6 4.4 | 2.457 | 3.388 | 8.1 | 22.1 |
| 7 30 | 21 30.80 | − 6 50.5 | 2.418 | 3.400 | 5.1 | 21.9 |
| 8 9 | 21 23.83 | − 7 45.3 | 2.405 | 3.412 | 2.5 | 21.7 |
| 8 19 | 21 16.74 | − 8 45.3 | 2.422 | 3.423 | 2.9 | 21.8 |
| 8 29 | 21 10.21 | − 9 46.1 | 2.467 | 3.434 | 5.7 | 22.0 |
| 9 8 | 21 4.83 | −10 43.8 | 2.539 | 3.445 | 8.5 | 22.2 |
| 9 18 | 21 1.03 | −11 35.3 | 2.636 | 3.456 | 11.0 | 22.4 |
| **509622** 2008 $FJ_{32}$ | | | 8 10.7 114.°06 | 2.°7/ 8.6 18 | | |
| 7 10 | 21 47.54 | −23 11.3 | 2.356 | 3.246 | 10.2 | 21.7 |
| 7 20 | 21 41.03 | −23 37.0 | 2.304 | 3.259 | 7.3 | 21.5 |
| 7 30 | 21 33.00 | −24 1.6 | 2.277 | 3.272 | 4.3 | 21.3 |
| 8 9 | 21 24.15 | −24 21.3 | 2.279 | 3.284 | 2.7 | 21.3 |
| 8 19 | 21 15.27 | −24 32.6 | 2.308 | 3.297 | 4.5 | 21.4 |
| 8 29 | 21 7.20 | −24 33.7 | 2.366 | 3.309 | 7.4 | 21.6 |
| 9 8 | 21 0.61 | −24 24.2 | 2.449 | 3.320 | 10.2 | 21.8 |
| 9 18 | 20 55.97 | −24 4.7 | 2.554 | 3.332 | 12.5 | 22.0 |
| **450159** 2000 $JJ_{5}$ | | | 8 10.7 267.°68 | 5.°4/ 6.6 15 | | |
| 7 10 | 22 1.47 | −26 0.5 | 1.948 | 2.824 | 12.6 | 23.4 |
| 7 20 | 21 52.37 | −27 30.7 | 1.835 | 2.780 | 9.5 | 23.1 |
| 7 30 | 21 40.10 | −29 4.5 | 1.748 | 2.733 | 6.5 | 22.8 |
| 8 9 | 21 25.31 | −30 31.7 | 1.691 | 2.683 | 5.5 | 22.6 |
| 8 19 | 21 9.16 | −31 42.2 | 1.663 | 2.631 | 8.1 | 22.7 |
| 8 29 | 20 53.25 | −32 28.5 | 1.665 | 2.576 | 12.1 | 22.8 |
| 9 8 | 20 39.22 | −32 48.3 | 1.692 | 2.519 | 16.0 | 22.9 |
| 9 18 | 20 28.29 | −32 44.0 | 1.739 | 2.458 | 19.6 | 23.0 |

**375716** 2009 $QJ_{20}$ 8 10.7 342.°03 3.°1/ 9.2 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.58 | −20 34.2 | 1.117 | 2.039 | 16.4 | 20.0 |
| 7 20 | 21 41.07 | −20 57.1 | 1.057 | 2.028 | 11.8 | 19.7 |
| 7 30 | 21 33.63 | −21 23.8 | 1.017 | 2.018 | 6.7 | 19.4 |
| 8 9 | 21 24.30 | −21 47.0 | 0.998 | 2.009 | 3.1 | 19.1 |
| 8 19 | 21 14.57 | −21 59.6 | 1.002 | 2.001 | 6.6 | 19.3 |
| 8 29 | 21 6.12 | −21 57.0 | 1.029 | 1.995 | 11.8 | 19.6 |
| 9 8 | 21 0.33 | −21 37.9 | 1.075 | 1.989 | 16.7 | 19.8 |
| 9 18 | 20 57.96 | −21 3.5 | 1.139 | 1.985 | 20.8 | 20.1 |

**211273** 2002 $RM_{101}$ 8 10.7 299.°73 8.°1/ 4.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 51.36 | −35 15.3 | 1.780 | 2.671 | 12.9 | 20.0 |
| 7 20 | 21 44.79 | −36 11.3 | 1.703 | 2.644 | 10.4 | 19.8 |
| 7 30 | 21 35.57 | −36 58.0 | 1.649 | 2.617 | 8.5 | 19.7 |
| 8 9 | 21 24.59 | −37 26.6 | 1.620 | 2.590 | 8.3 | 19.6 |
| 8 19 | 21 13.11 | −37 30.7 | 1.616 | 2.563 | 10.1 | 19.6 |
| 8 29 | 21 2.62 | −37 7.6 | 1.636 | 2.536 | 12.9 | 19.7 |
| 9 8 | 20 54.37 | −36 19.2 | 1.676 | 2.509 | 15.9 | 19.9 |
| 9 18 | 20 49.16 | −35 9.9 | 1.736 | 2.482 | 18.7 | 20.0 |

**63307** 2001 $FG_9$ 8 10.7 162.°42 2.°1/12.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.28 | − 7 23.3 | 1.624 | 2.500 | 14.7 | 19.3 |
| 7 20 | 21 40.73 | − 7 53.3 | 1.559 | 2.503 | 10.9 | 19.0 |
| 7 30 | 21 33.11 | − 8 39.3 | 1.516 | 2.505 | 6.7 | 18.8 |
| 8 9 | 21 24.21 | − 9 37.2 | 1.498 | 2.508 | 2.6 | 18.6 |
| 8 19 | 21 15.04 | −10 41.3 | 1.506 | 2.510 | 3.9 | 18.6 |
| 8 29 | 21 6.74 | −11 45.0 | 1.541 | 2.511 | 8.2 | 18.9 |
| 9 8 | 21 0.29 | −12 42.6 | 1.600 | 2.512 | 12.2 | 19.2 |
| 9 18 | 20 56.30 | −13 30.1 | 1.681 | 2.513 | 15.7 | 19.4 |

**520443** 2014 $KK_{65}$ 8 10.7 111.°48 1.°6/ 9.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.06 | −17 56.0 | 2.263 | 3.153 | 10.5 | 21.8 |
| 7 20 | 21 38.66 | −18 46.1 | 2.207 | 3.164 | 7.4 | 21.7 |
| 7 30 | 21 31.76 | −19 40.1 | 2.177 | 3.175 | 4.1 | 21.5 |
| 8 9 | 21 23.99 | −20 33.2 | 2.175 | 3.186 | 1.6 | 21.3 |
| 8 19 | 21 16.11 | −21 21.0 | 2.200 | 3.196 | 3.9 | 21.5 |
| 8 29 | 21 8.93 | −21 59.7 | 2.254 | 3.206 | 7.2 | 21.7 |
| 9 8 | 21 3.13 | −22 27.1 | 2.333 | 3.216 | 10.1 | 21.9 |
| 9 18 | 20 59.19 | −22 42.7 | 2.434 | 3.226 | 12.7 | 22.1 |

**459735** 2013 $QV_2$ 8 10.7 26.°20 4.°5/13.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.06 | − 4 14.2 | 1.064 | 1.958 | 19.3 | 20.2 |
| 7 20 | 21 38.99 | − 4 19.7 | 1.017 | 1.967 | 14.7 | 19.9 |
| 7 30 | 21 32.31 | − 4 50.3 | 0.989 | 1.976 | 9.7 | 19.7 |
| 8 9 | 21 24.09 | − 5 42.2 | 0.981 | 1.987 | 5.3 | 19.5 |
| 8 19 | 21 15.69 | − 6 48.6 | 0.996 | 1.998 | 5.6 | 19.5 |
| 8 29 | 21 8.59 | − 8 0.0 | 1.033 | 2.011 | 10.0 | 19.8 |
| 9 8 | 21 3.94 | − 9 7.4 | 1.091 | 2.024 | 14.7 | 20.1 |
| 9 18 | 21 2.36 | −10 4.1 | 1.168 | 2.039 | 18.7 | 20.4 |

**149379** 2002 $XE_{99}$ 8 10.7 316.°62 3.°6/12.6 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.29 | − 7 12.9 | 1.340 | 2.227 | 16.5 | 19.9 |
| 7 20 | 21 40.50 | − 6 58.7 | 1.266 | 2.214 | 12.6 | 19.6 |
| 7 30 | 21 33.21 | − 7 1.0 | 1.212 | 2.201 | 8.1 | 19.3 |
| 8 9 | 21 24.25 | − 7 18.0 | 1.180 | 2.188 | 4.1 | 19.0 |
| 8 19 | 21 14.79 | − 7 46.1 | 1.173 | 2.176 | 5.0 | 19.1 |
| 8 29 | 21 6.22 | − 8 20.1 | 1.190 | 2.164 | 9.6 | 19.3 |
| 9 8 | 20 59.77 | − 8 54.0 | 1.229 | 2.153 | 14.2 | 19.5 |
| 9 18 | 20 56.24 | − 9 22.8 | 1.287 | 2.142 | 18.3 | 19.7 |

**431166** 2006 $RT_{46}$ 8 10.7 244.°25 3.°1/ 8.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.71 | −21 14.3 | 1.768 | 2.664 | 12.7 | 21.8 |
| 7 20 | 21 43.32 | −21 59.4 | 1.690 | 2.649 | 9.2 | 21.6 |
| 7 30 | 21 34.64 | −22 47.6 | 1.637 | 2.634 | 5.3 | 21.3 |
| 8 9 | 21 24.45 | −23 32.3 | 1.610 | 2.618 | 3.1 | 21.1 |
| 8 19 | 21 13.83 | −24 7.5 | 1.610 | 2.601 | 5.7 | 21.3 |
| 8 29 | 21 4.02 | −24 28.8 | 1.636 | 2.584 | 9.7 | 21.5 |
| 9 8 | 20 56.10 | −24 34.2 | 1.686 | 2.567 | 13.5 | 21.7 |
| 9 18 | 20 50.82 | −24 24.5 | 1.757 | 2.549 | 16.8 | 21.9 |

**469248** 2016 $JA_{21}$ 8 10.7 56.°34 4.°8/13.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.15 | − 3 15.5 | 1.309 | 2.183 | 17.7 | 20.9 |
| 7 20 | 21 40.91 | − 3 11.6 | 1.254 | 2.191 | 13.6 | 20.7 |
| 7 30 | 21 33.29 | − 3 29.6 | 1.218 | 2.199 | 9.2 | 20.5 |
| 8 9 | 21 24.24 | − 4 7.1 | 1.205 | 2.207 | 5.4 | 20.3 |
| 8 19 | 21 14.98 | − 4 59.2 | 1.216 | 2.215 | 5.6 | 20.3 |
| 8 29 | 21 6.83 | − 5 58.9 | 1.251 | 2.223 | 9.4 | 20.5 |
| 9 8 | 21 0.88 | − 6 58.5 | 1.309 | 2.232 | 13.6 | 20.8 |
| 9 18 | 20 57.76 | − 7 51.8 | 1.387 | 2.241 | 17.3 | 21.1 |

**210718** 2000 $ST_{252}$ 8 10.7 266.°98 2.°1/ 8.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.24 | −22 19.5 | 3.382 | 4.268 | 7.5 | 21.5 |
| 7 20 | 21 37.16 | −23 0.8 | 3.287 | 4.241 | 5.4 | 21.4 |
| 7 30 | 21 30.90 | −23 43.2 | 3.219 | 4.213 | 3.2 | 21.2 |
| 8 9 | 21 23.89 | −24 23.4 | 3.181 | 4.185 | 2.1 | 21.1 |
| 8 19 | 21 16.61 | −24 58.4 | 3.171 | 4.157 | 3.6 | 21.1 |
| 8 29 | 21 9.66 | −25 25.8 | 3.191 | 4.128 | 5.9 | 21.3 |
| 9 8 | 21 3.58 | −25 43.9 | 3.238 | 4.099 | 8.2 | 21.4 |
| 9 18 | 20 58.80 | −25 52.3 | 3.308 | 4.070 | 10.2 | 21.5 |

**155294** 2005 $XY_{65}$ 8 10.7 309.°12 0.°5/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 41.51 | −13 22.0 | 2.079 | 2.968 | 11.4 | 19.8 |
| 7 20 | 21 37.08 | −14 21.1 | 2.005 | 2.961 | 8.1 | 19.5 |
| 7 30 | 21 31.01 | −15 29.9 | 1.956 | 2.954 | 4.5 | 19.3 |
| 8 9 | 21 23.91 | −16 43.3 | 1.934 | 2.947 | 0.7 | 19.0 |
| 8 19 | 21 16.55 | −17 55.7 | 1.940 | 2.941 | 3.5 | 19.2 |
| 8 29 | 21 9.77 | −19 1.6 | 1.973 | 2.935 | 7.3 | 19.4 |
| 9 8 | 21 4.36 | −19 56.8 | 2.031 | 2.929 | 10.8 | 19.7 |
| 9 18 | 21 0.88 | −20 38.9 | 2.112 | 2.923 | 13.7 | 19.8 |

**340223** 2006 $BS_{32}$ 8 10.7 79.°51 0.°1/10.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.61 | −12 16.9 | 1.695 | 2.585 | 13.5 | 20.6 |
| 7 20 | 21 39.44 | −13 3.5 | 1.637 | 2.592 | 9.7 | 20.4 |
| 7 30 | 21 32.35 | −14 1.2 | 1.602 | 2.599 | 5.4 | 20.1 |
| 8 9 | 21 24.11 | −15 4.4 | 1.593 | 2.606 | 0.8 | 19.8 |
| 8 19 | 21 15.68 | −16 7.0 | 1.610 | 2.613 | 3.8 | 20.1 |
| 8 29 | 21 8.12 | −17 3.1 | 1.654 | 2.620 | 8.1 | 20.4 |
| 9 8 | 21 2.32 | −17 48.4 | 1.722 | 2.627 | 12.0 | 20.6 |
| 9 18 | 20 58.86 | −18 20.8 | 1.811 | 2.634 | 15.2 | 20.8 |

**474537** 2003 $WF_{13}$ 8 10.7 301.°55 1.°9/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.56 | − 9 23.5 | 1.670 | 2.553 | 14.0 | 21.3 |
| 7 20 | 21 39.71 | − 9 29.9 | 1.580 | 2.528 | 10.5 | 21.1 |
| 7 30 | 21 32.69 | − 9 49.4 | 1.512 | 2.504 | 6.4 | 20.8 |
| 8 9 | 21 24.19 | −10 19.3 | 1.470 | 2.480 | 2.4 | 20.5 |
| 8 19 | 21 15.15 | −10 55.7 | 1.453 | 2.456 | 3.9 | 20.5 |
| 8 29 | 21 6.72 | −11 33.6 | 1.462 | 2.433 | 8.4 | 20.7 |
| 9 8 | 21 0.00 | −12 8.0 | 1.494 | 2.409 | 12.8 | 20.9 |
| 9 18 | 20 55.74 | −12 35.4 | 1.548 | 2.386 | 16.6 | 21.1 |

**265584** 2005 $QZ_{147}$ 8 10.7 359.°75 4.°2/ 7.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.84 | −20 35.6 | 1.239 | 2.158 | 15.3 | 20.0 |
| 7 20 | 21 39.58 | −21 57.3 | 1.187 | 2.157 | 10.9 | 19.7 |
| 7 30 | 21 32.70 | −23 25.0 | 1.156 | 2.155 | 6.4 | 19.5 |
| 8 9 | 21 24.18 | −24 48.5 | 1.148 | 2.155 | 4.3 | 19.3 |
| 8 19 | 21 15.34 | −25 57.7 | 1.164 | 2.155 | 7.4 | 19.5 |
| 8 29 | 21 7.67 | −26 45.6 | 1.204 | 2.156 | 11.9 | 19.8 |
| 9 8 | 21 2.38 | −27 9.6 | 1.263 | 2.158 | 16.1 | 20.1 |
| 9 18 | 21 0.19 | −27 10.6 | 1.341 | 2.160 | 19.7 | 20.3 |

**78725** 2002 $TM_{230}$ 8 10.7 285.°18 0.°8/ 9.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.74 | −14 40.2 | 2.481 | 3.367 | 9.9 | 19.4 |
| 7 20 | 21 36.34 | −15 43.2 | 2.401 | 3.356 | 7.0 | 19.2 |
| 7 30 | 21 30.54 | −16 53.9 | 2.348 | 3.346 | 3.8 | 18.9 |
| 8 9 | 21 23.85 | −18 7.6 | 2.322 | 3.335 | 0.9 | 18.7 |
| 8 19 | 21 16.90 | −19 19.6 | 2.325 | 3.324 | 3.3 | 18.9 |
| 8 29 | 21 10.40 | −20 25.1 | 2.357 | 3.314 | 6.6 | 19.1 |
| 9 8 | 21 5.04 | −21 20.6 | 2.415 | 3.303 | 9.6 | 19.2 |
| 9 18 | 21 1.33 | −22 4.0 | 2.495 | 3.293 | 12.3 | 19.4 |

**71336** 2000 $AE_{99}$ 8 10.7 260.°33 1.°0/11.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.69 | −10 26.0 | 1.975 | 2.853 | 12.4 | 19.4 |
| 7 20 | 21 39.48 | −10 55.6 | 1.890 | 2.837 | 9.1 | 19.2 |
| 7 30 | 21 32.42 | −11 36.8 | 1.828 | 2.821 | 5.3 | 18.9 |
| 8 9 | 21 24.15 | −12 25.9 | 1.793 | 2.805 | 1.4 | 18.6 |
| 8 19 | 21 15.49 | −13 18.4 | 1.785 | 2.789 | 3.4 | 18.7 |
| 8 29 | 21 7.42 | −14 9.2 | 1.805 | 2.772 | 7.5 | 18.9 |
| 9 8 | 21 0.81 | −14 53.9 | 1.850 | 2.755 | 11.3 | 19.1 |
| 9 18 | 20 56.33 | −15 29.5 | 1.917 | 2.738 | 14.5 | 19.3 |

**98838** 2001 $AH_{19}$ 8 10.7 139.°95 1.°7/ 9.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.33 | −17 18.5 | 1.779 | 2.676 | 12.6 | 19.8 |
| 7 20 | 21 39.98 | −18 6.2 | 1.717 | 2.677 | 8.9 | 19.6 |
| 7 30 | 21 32.67 | −19 0.0 | 1.678 | 2.677 | 4.9 | 19.4 |
| 8 9 | 21 24.17 | −19 54.2 | 1.666 | 2.678 | 1.7 | 19.2 |
| 8 19 | 21 15.45 | −20 42.9 | 1.680 | 2.678 | 4.5 | 19.4 |
| 8 29 | 21 7.56 | −21 21.3 | 1.721 | 2.679 | 8.6 | 19.6 |
| 9 8 | 21 1.42 | −21 46.6 | 1.786 | 2.679 | 12.2 | 19.8 |
| 9 18 | 20 57.61 | −21 58.1 | 1.871 | 2.679 | 15.3 | 20.0 |

**95438** 2002 $CD_{244}$ 8 10.7 68.°58 3.°7/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.47 | − 1 6.3 | 2.152 | 2.996 | 12.8 | 19.2 |
| 7 20 | 21 36.85 | − 1 31.9 | 2.089 | 3.007 | 10.0 | 19.0 |
| 7 30 | 21 30.79 | − 2 13.9 | 2.048 | 3.019 | 6.9 | 18.9 |
| 8 9 | 21 23.89 | − 3 10.1 | 2.033 | 3.030 | 4.3 | 18.7 |
| 8 19 | 21 16.85 | − 4 16.3 | 2.046 | 3.042 | 4.1 | 18.7 |
| 8 29 | 21 10.46 | − 5 27.6 | 2.086 | 3.054 | 6.6 | 18.9 |
| 9 8 | 21 5.37 | − 6 38.3 | 2.152 | 3.065 | 9.5 | 19.1 |
| 9 18 | 21 2.06 | − 7 44.0 | 2.242 | 3.077 | 12.2 | 19.3 |

**12942** 6054 $P$–$L$ 8 10.7 311.°74 2.°0/12.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.93 | − 8 12.5 | 1.976 | 2.852 | 12.5 | 18.8 |
| 7 20 | 21 37.49 | − 8 26.6 | 1.890 | 2.833 | 9.3 | 18.6 |
| 7 30 | 21 31.30 | − 8 53.1 | 1.826 | 2.815 | 5.8 | 18.3 |
| 8 9 | 21 23.98 | − 9 29.6 | 1.788 | 2.798 | 2.4 | 18.1 |
| 8 19 | 21 16.30 | −10 12.4 | 1.777 | 2.780 | 3.5 | 18.1 |
| 8 29 | 21 9.17 | −10 57.0 | 1.793 | 2.763 | 7.2 | 18.3 |
| 9 8 | 21 3.44 | −11 38.8 | 1.833 | 2.746 | 10.9 | 18.5 |
| 9 18 | 20 59.73 | −12 14.3 | 1.896 | 2.730 | 14.2 | 18.7 |

**107879** 2001 $FP_{89}$ 8 10.7 165°.26 0°.7/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.26 | −16 21.4 | 2.666 | 3.549 | 9.4 | 20.3 |
| 7 20 | 21 37.95 | −16 51.4 | 2.598 | 3.551 | 6.7 | 20.1 |
| 7 30 | 21 31.34 | −17 25.5 | 2.557 | 3.554 | 3.6 | 19.9 |
| 8 9 | 21 23.97 | −18 0.3 | 2.543 | 3.556 | 0.8 | 19.7 |
| 8 19 | 21 16.46 | −18 32.7 | 2.559 | 3.558 | 3.0 | 19.9 |
| 8 29 | 21 9.50 | −18 59.8 | 2.603 | 3.560 | 6.1 | 20.1 |
| 9 8 | 21 3.70 | −19 19.5 | 2.674 | 3.562 | 8.8 | 20.3 |
| 9 18 | 20 59.48 | −19 30.9 | 2.767 | 3.563 | 11.2 | 20.5 |

**223381** 2003 $SO_{62}$ 8 10.7 38°.72 3°.5/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.29 | − 3 13.8 | 2.258 | 3.107 | 12.1 | 20.0 |
| 7 20 | 21 37.42 | − 3 11.6 | 2.187 | 3.110 | 9.4 | 19.8 |
| 7 30 | 21 31.11 | − 3 22.7 | 2.140 | 3.113 | 6.4 | 19.6 |
| 8 9 | 21 23.94 | − 3 45.7 | 2.118 | 3.116 | 4.0 | 19.5 |
| 8 19 | 21 16.61 | − 4 18.1 | 2.123 | 3.119 | 4.0 | 19.5 |
| 8 29 | 21 9.86 | − 4 56.3 | 2.156 | 3.122 | 6.5 | 19.6 |
| 9 8 | 21 4.37 | − 5 36.3 | 2.215 | 3.126 | 9.4 | 19.8 |
| 9 18 | 21 0.63 | − 6 14.3 | 2.297 | 3.129 | 12.1 | 20.0 |

**440606** 2005 $VK_{72}$ 8 10.7 312°.04 2°.3/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.21 | −19 10.1 | 1.850 | 2.752 | 12.0 | 20.6 |
| 7 20 | 21 38.59 | −19 56.0 | 1.769 | 2.731 | 8.5 | 20.3 |
| 7 30 | 21 32.00 | −20 47.2 | 1.711 | 2.710 | 4.8 | 20.0 |
| 8 9 | 21 24.10 | −21 38.2 | 1.680 | 2.690 | 2.3 | 19.8 |
| 8 19 | 21 15.79 | −22 23.4 | 1.674 | 2.670 | 5.0 | 20.0 |
| 8 29 | 21 8.13 | −22 57.6 | 1.695 | 2.650 | 8.9 | 20.2 |
| 9 8 | 21 2.08 | −23 18.1 | 1.740 | 2.631 | 12.6 | 20.4 |
| 9 18 | 20 58.32 | −23 24.0 | 1.805 | 2.612 | 15.8 | 20.5 |

**269034** 2007 $FP_{26}$ 8 10.7 69°.36 0°.3/10.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.17 | −14 9.6 | 1.531 | 2.426 | 14.4 | 20.7 |
| 7 20 | 21 41.33 | −14 38.5 | 1.483 | 2.441 | 10.2 | 20.4 |
| 7 30 | 21 33.39 | −15 16.1 | 1.457 | 2.455 | 5.6 | 20.2 |
| 8 9 | 21 24.28 | −15 57.1 | 1.456 | 2.469 | 0.8 | 19.9 |
| 8 19 | 21 15.10 | −16 36.0 | 1.481 | 2.484 | 4.1 | 20.2 |
| 8 29 | 21 7.02 | −17 7.8 | 1.532 | 2.499 | 8.6 | 20.5 |
| 9 8 | 21 0.96 | −17 29.6 | 1.607 | 2.513 | 12.6 | 20.8 |
| 9 18 | 20 57.47 | −17 39.9 | 1.702 | 2.528 | 15.9 | 21.0 |

**277533** 2005 $YZ_{3}$ 8 10.7 245°.47 7°.1/ 4.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.22 | −31 43.1 | 1.808 | 2.705 | 12.4 | 20.6 |
| 7 20 | 21 43.06 | −33 5.6 | 1.747 | 2.696 | 9.6 | 20.4 |
| 7 30 | 21 34.53 | −34 22.4 | 1.710 | 2.686 | 7.5 | 20.3 |
| 8 9 | 21 24.48 | −35 24.5 | 1.699 | 2.675 | 7.3 | 20.2 |
| 8 19 | 21 14.06 | −36 5.1 | 1.713 | 2.665 | 9.2 | 20.3 |
| 8 29 | 21 4.58 | −36 20.7 | 1.751 | 2.654 | 12.1 | 20.5 |
| 9 8 | 20 57.16 | −36 11.8 | 1.812 | 2.643 | 14.9 | 20.6 |
| 9 18 | 20 52.52 | −35 41.7 | 1.890 | 2.632 | 17.5 | 20.8 |

**324969** 2008 $AV_{20}$ 8 10.7 100°.53 0°.9/10.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.36 | −15 39.7 | 1.532 | 2.427 | 14.4 | 21.2 |
| 7 20 | 21 42.92 | −16 11.3 | 1.482 | 2.440 | 10.2 | 20.9 |
| 7 30 | 21 34.28 | −16 50.2 | 1.456 | 2.454 | 5.6 | 20.7 |
| 8 9 | 21 24.42 | −17 30.5 | 1.454 | 2.468 | 1.1 | 20.4 |
| 8 19 | 21 14.48 | −18 6.7 | 1.479 | 2.481 | 4.4 | 20.7 |
| 8 29 | 21 5.69 | −18 34.0 | 1.531 | 2.494 | 8.9 | 21.0 |
| 9 8 | 20 59.02 | −18 50.0 | 1.605 | 2.506 | 12.9 | 21.3 |
| 9 18 | 20 55.03 | −18 54.1 | 1.700 | 2.519 | 16.2 | 21.5 |

**451338** 2010 $VY_{167}$ 8 10.7 346°.90 5°.1/14.7 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.26 | − 0 33.6 | 1.825 | 2.676 | 14.5 | 21.1 |
| 7 20 | 21 37.03 | − 0 25.4 | 1.750 | 2.670 | 11.5 | 20.9 |
| 7 30 | 21 31.04 | − 0 35.6 | 1.697 | 2.665 | 8.3 | 20.7 |
| 8 9 | 21 23.96 | − 1 3.3 | 1.668 | 2.661 | 5.6 | 20.5 |
| 8 19 | 21 16.60 | − 1 45.9 | 1.664 | 2.657 | 5.4 | 20.5 |
| 8 29 | 21 9.89 | − 2 38.6 | 1.686 | 2.653 | 7.9 | 20.6 |
| 9 8 | 21 4.69 | − 3 35.6 | 1.733 | 2.651 | 11.1 | 20.8 |
| 9 18 | 21 1.56 | − 4 31.3 | 1.801 | 2.648 | 14.2 | 21.0 |

**289510** 2005 $EN_{160}$ 8 10.7 59°.36 0°.3/10.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.36 | −13 24.7 | 1.255 | 2.158 | 16.3 | 20.7 |
| 7 20 | 21 41.76 | −14 5.5 | 1.213 | 2.175 | 11.6 | 20.5 |
| 7 30 | 21 33.72 | −14 57.8 | 1.193 | 2.192 | 6.4 | 20.3 |
| 8 9 | 21 24.34 | −15 54.6 | 1.196 | 2.209 | 0.9 | 20.0 |
| 8 19 | 21 14.92 | −16 48.6 | 1.224 | 2.227 | 4.6 | 20.3 |
| 8 29 | 21 6.83 | −17 33.1 | 1.276 | 2.245 | 9.7 | 20.6 |
| 9 8 | 21 1.12 | −18 4.4 | 1.351 | 2.263 | 14.0 | 20.9 |
| 9 18 | 20 58.33 | −18 21.0 | 1.444 | 2.281 | 17.6 | 21.2 |

**288474** 2004 $FE_{6}$ 8 10.7 20°.71 0°.5/11.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.61 | −11 49.1 | 1.861 | 2.747 | 12.7 | 21.2 |
| 7 20 | 21 38.64 | −12 17.5 | 1.796 | 2.748 | 9.1 | 21.0 |
| 7 30 | 21 31.90 | −12 56.0 | 1.754 | 2.750 | 5.2 | 20.7 |
| 8 9 | 21 24.08 | −13 40.4 | 1.739 | 2.752 | 1.1 | 20.5 |
| 8 19 | 21 16.06 | −14 26.1 | 1.750 | 2.753 | 3.4 | 20.6 |
| 8 29 | 21 8.80 | −15 8.3 | 1.788 | 2.755 | 7.5 | 20.9 |
| 9 8 | 21 3.12 | −15 43.2 | 1.851 | 2.758 | 11.1 | 21.1 |
| 9 18 | 20 59.57 | −16 8.4 | 1.935 | 2.760 | 14.3 | 21.3 |

**180251** 2003 $UM_{283}$ 8 10.7 263°.28 0°.9/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 49.77 | −16 16.7 | 1.596 | 2.489 | 14.0 | 20.5 |
| 7 20 | 21 43.56 | −16 35.7 | 1.514 | 2.471 | 10.1 | 20.2 |
| 7 30 | 21 34.88 | −17 1.8 | 1.455 | 2.453 | 5.6 | 19.9 |
| 8 9 | 21 24.56 | −17 30.0 | 1.421 | 2.434 | 1.1 | 19.6 |
| 8 19 | 21 13.70 | −17 55.2 | 1.413 | 2.415 | 4.6 | 19.8 |
| 8 29 | 21 3.66 | −18 12.6 | 1.432 | 2.395 | 9.4 | 20.0 |
| 9 8 | 20 55.63 | −18 19.4 | 1.475 | 2.375 | 13.8 | 20.2 |
| 9 18 | 20 50.39 | −18 14.8 | 1.537 | 2.355 | 17.6 | 20.4 |

**193395** 2000 $WU_{6}$ 8 10.7 318°.66 3°.2/ 9.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.41 | −21 4.8 | 1.323 | 2.236 | 14.9 | 19.9 |
| 7 20 | 21 41.65 | −21 29.8 | 1.240 | 2.207 | 10.8 | 19.6 |
| 7 30 | 21 34.05 | −21 58.5 | 1.179 | 2.179 | 6.3 | 19.2 |
| 8 9 | 21 24.46 | −22 24.0 | 1.141 | 2.151 | 3.2 | 19.0 |
| 8 19 | 21 14.16 | −22 39.4 | 1.126 | 2.123 | 6.5 | 19.1 |
| 8 29 | 21 4.73 | −22 39.8 | 1.135 | 2.097 | 11.5 | 19.3 |
| 9 8 | 20 57.63 | −22 23.1 | 1.165 | 2.071 | 16.3 | 19.5 |
| 9 18 | 20 53.78 | −21 50.1 | 1.213 | 2.046 | 20.5 | 19.7 |

**508208** 2015 $FX_{396}$ 8 10.7 319°.00 1°.1/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.37 | −14 43.0 | 1.643 | 2.542 | 13.3 | 20.3 |
| 7 20 | 21 38.77 | −15 40.0 | 1.575 | 2.536 | 9.5 | 20.0 |
| 7 30 | 21 32.11 | −16 47.5 | 1.530 | 2.529 | 5.2 | 19.8 |
| 8 9 | 21 24.14 | −17 59.1 | 1.510 | 2.523 | 1.1 | 19.5 |
| 8 19 | 21 15.83 | −19 7.9 | 1.516 | 2.517 | 4.4 | 19.7 |
| 8 29 | 21 8.32 | −20 7.3 | 1.549 | 2.512 | 8.9 | 20.0 |
| 9 8 | 21 2.57 | −20 53.0 | 1.605 | 2.506 | 12.9 | 20.2 |
| 9 18 | 20 59.27 | −21 22.9 | 1.681 | 2.501 | 16.3 | 20.4 |

**52385** 1993 $OC$ 8 10.7 357°.98 9°.9/12.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 56.83 | − 3 51.2 | 1.116 | 1.986 | 20.3 | 16.8 |
| 7 20 | 21 49.09 | − 1 0.7 | 1.053 | 1.981 | 16.4 | 16.6 |
| 7 30 | 21 38.12 | + 1 38.9 | 1.011 | 1.978 | 12.6 | 16.4 |
| 8 9 | 21 25.05 | + 3 58.5 | 0.993 | 1.976 | 10.1 | 16.2 |
| 8 19 | 21 11.53 | + 5 50.0 | 0.999 | 1.976 | 10.8 | 16.3 |
| 8 29 | 20 59.40 | + 7 10.0 | 1.028 | 1.977 | 13.9 | 16.4 |
| 9 8 | 20 50.19 | + 8 1.4 | 1.078 | 1.979 | 17.7 | 16.7 |
| 9 18 | 20 44.72 | + 8 30.8 | 1.145 | 1.983 | 21.2 | 16.9 |

**292747** 2006 $UD_{175}$ 8 10.7 320°.11 6°.2/ 6.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.13 | −30 8.7 | 1.811 | 2.712 | 12.2 | 20.2 |
| 7 20 | 21 41.43 | −31 7.8 | 1.752 | 2.705 | 9.3 | 20.0 |
| 7 30 | 21 33.55 | −32 1.5 | 1.717 | 2.699 | 6.8 | 19.8 |
| 8 9 | 21 24.34 | −32 42.4 | 1.707 | 2.693 | 6.3 | 19.8 |
| 8 19 | 21 14.90 | −33 5.0 | 1.722 | 2.687 | 8.2 | 19.9 |
| 8 29 | 21 6.42 | −33 6.4 | 1.763 | 2.681 | 11.1 | 20.1 |
| 9 8 | 20 59.90 | −32 47.2 | 1.825 | 2.676 | 14.0 | 20.2 |
| 9 18 | 20 55.96 | −32 10.0 | 1.907 | 2.671 | 16.6 | 20.4 |

**139266** 2001 $HB_{56}$ 8 10.7 62°.93 8°.1/ 4.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.72 | −29 53.0 | 1.331 | 2.243 | 14.9 | 19.2 |
| 7 20 | 21 42.97 | −31 44.3 | 1.299 | 2.258 | 11.3 | 19.0 |
| 7 30 | 21 34.50 | −33 27.8 | 1.290 | 2.272 | 8.6 | 18.9 |
| 8 9 | 21 24.48 | −34 51.5 | 1.305 | 2.287 | 8.3 | 19.0 |
| 8 19 | 21 14.38 | −35 47.2 | 1.344 | 2.302 | 10.6 | 19.1 |
| 8 29 | 21 5.73 | −36 11.5 | 1.404 | 2.318 | 13.7 | 19.4 |
| 9 8 | 20 59.69 | −36 6.6 | 1.485 | 2.333 | 16.8 | 19.6 |
| 9 18 | 20 56.85 | −35 37.3 | 1.583 | 2.348 | 19.4 | 19.8 |

**257904** 2000 $UZ_{19}$ 8 10.7 261°.83 4°.4/ 8.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.20 | −23 30.6 | 1.478 | 2.383 | 14.2 | 20.6 |
| 7 20 | 21 44.05 | −24 23.0 | 1.409 | 2.370 | 10.3 | 20.4 |
| 7 30 | 21 35.21 | −25 16.8 | 1.362 | 2.357 | 6.4 | 20.1 |
| 8 9 | 21 24.63 | −26 3.8 | 1.339 | 2.343 | 4.5 | 20.0 |
| 8 19 | 21 13.57 | −26 36.6 | 1.342 | 2.330 | 7.2 | 20.1 |
| 8 29 | 21 3.54 | −26 50.3 | 1.370 | 2.315 | 11.4 | 20.3 |
| 9 8 | 20 55.80 | −26 43.9 | 1.419 | 2.301 | 15.5 | 20.5 |
| 9 18 | 20 51.16 | −26 19.3 | 1.487 | 2.287 | 19.0 | 20.7 |

**489681** 2007 $VS_{56}$ 8 10.7 272°.60 4°.3/14.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.27 | − 1 35.8 | 1.998 | 2.845 | 13.5 | 22.4 |
| 7 20 | 21 38.43 | − 1 40.5 | 1.910 | 2.830 | 10.6 | 22.1 |
| 7 30 | 21 31.85 | − 2 2.1 | 1.845 | 2.816 | 7.5 | 21.9 |
| 8 9 | 21 24.12 | − 2 39.7 | 1.805 | 2.802 | 4.8 | 21.7 |
| 8 19 | 21 16.02 | − 3 30.1 | 1.792 | 2.787 | 4.7 | 21.7 |
| 8 29 | 21 8.47 | − 4 28.8 | 1.806 | 2.772 | 7.5 | 21.8 |
| 9 8 | 21 2.31 | − 5 30.2 | 1.844 | 2.758 | 10.8 | 22.0 |
| 9 18 | 20 58.16 | − 6 29.1 | 1.906 | 2.743 | 14.0 | 22.2 |

**257784** 2000 $DB_{43}$ 8 10.7 147°.66 2°.0/ 9.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.16 | −19 17.1 | 1.684 | 2.579 | 13.3 | 20.4 |
| 7 20 | 21 43.47 | −19 43.8 | 1.625 | 2.584 | 9.5 | 20.1 |
| 7 30 | 21 34.62 | −20 13.8 | 1.591 | 2.588 | 5.3 | 19.9 |
| 8 9 | 21 24.52 | −20 41.3 | 1.582 | 2.593 | 2.0 | 19.7 |
| 8 19 | 21 14.26 | −21 1.7 | 1.600 | 2.597 | 4.8 | 19.9 |
| 8 29 | 21 5.04 | −21 11.4 | 1.644 | 2.601 | 9.0 | 20.2 |
| 9 8 | 20 57.84 | −21 9.2 | 1.713 | 2.604 | 12.8 | 20.4 |
| 9 18 | 20 53.25 | −20 55.3 | 1.802 | 2.607 | 15.9 | 20.6 |

**435688** 2008 $TH_{96}$ 8 10.7 131°.41 5°.6/15.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.33 | + 2 29.6 | 2.034 | 2.857 | 14.2 | 21.3 |
| 7 20 | 21 39.70 | + 2 35.1 | 1.969 | 2.868 | 11.4 | 21.2 |
| 7 30 | 21 32.43 | + 2 21.7 | 1.925 | 2.878 | 8.5 | 21.0 |
| 8 9 | 21 24.19 | + 1 50.2 | 1.905 | 2.887 | 6.2 | 20.9 |
| 8 19 | 21 15.79 | + 1 3.3 | 1.913 | 2.896 | 5.8 | 20.9 |
| 8 29 | 21 8.10 | + 0 5.6 | 1.947 | 2.905 | 7.7 | 21.0 |
| 9 8 | 21 1.88 | − 0 57.1 | 2.007 | 2.914 | 10.4 | 21.2 |
| 9 18 | 20 57.64 | − 1 59.4 | 2.090 | 2.922 | 13.1 | 21.4 |

**199927** 2007 $GO_{36}$ 8 10.7 35°.33 8°.3/ 5.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.55 | −31 43.7 | 1.298 | 2.211 | 15.2 | 19.7 |
| 7 20 | 21 42.84 | −33 0.9 | 1.266 | 2.223 | 11.7 | 19.6 |
| 7 30 | 21 34.40 | −34 7.7 | 1.255 | 2.236 | 9.0 | 19.4 |
| 8 9 | 21 24.48 | −34 54.0 | 1.268 | 2.250 | 8.5 | 19.5 |
| 8 19 | 21 14.58 | −35 13.3 | 1.303 | 2.265 | 10.5 | 19.6 |
| 8 29 | 21 6.24 | −35 3.9 | 1.360 | 2.280 | 13.6 | 19.8 |
| 9 8 | 21 0.58 | −34 29.0 | 1.438 | 2.296 | 16.7 | 20.1 |
| 9 18 | 20 58.10 | −33 33.7 | 1.532 | 2.312 | 19.4 | 20.3 |

**49003** 1998 $QC_{58}$ 8 10.7 304°.88 0°.6/11.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.01 | −12 7.0 | 1.366 | 2.265 | 15.5 | 18.8 |
| 7 20 | 21 40.43 | −12 29.6 | 1.286 | 2.245 | 11.4 | 18.5 |
| 7 30 | 21 33.28 | −13 6.0 | 1.226 | 2.224 | 6.5 | 18.2 |
| 8 9 | 21 24.37 | −13 51.9 | 1.191 | 2.204 | 1.3 | 17.8 |
| 8 19 | 21 14.84 | −14 41.0 | 1.179 | 2.184 | 4.4 | 17.9 |
| 8 29 | 21 6.11 | −15 26.4 | 1.192 | 2.164 | 9.8 | 18.2 |
| 9 8 | 20 59.48 | −16 2.6 | 1.227 | 2.145 | 14.8 | 18.4 |
| 9 18 | 20 55.81 | −16 26.3 | 1.281 | 2.126 | 19.0 | 18.6 |

**255295** 2005 $VO_{113}$ 8 10.7 284°.56 1°.1/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.80 | −10 56.8 | 2.176 | 3.052 | 11.5 | 20.6 |
| 7 20 | 21 38.70 | −11 7.9 | 2.090 | 3.036 | 8.4 | 20.4 |
| 7 30 | 21 31.96 | −11 28.0 | 2.027 | 3.020 | 5.0 | 20.2 |
| 8 9 | 21 24.15 | −11 54.4 | 1.992 | 3.003 | 1.5 | 19.9 |
| 8 19 | 21 16.02 | −12 23.9 | 1.984 | 2.987 | 3.1 | 20.0 |
| 8 29 | 21 8.43 | −12 52.8 | 2.003 | 2.971 | 6.8 | 20.2 |
| 9 8 | 21 2.17 | −13 17.9 | 2.049 | 2.954 | 10.3 | 20.4 |
| 9 18 | 20 57.82 | −13 36.8 | 2.117 | 2.938 | 13.3 | 20.5 |

**105220** 2000 $OV_{58}$ 8 10.7 321°.01 0°.0/10.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.68 | −11 41.4 | 1.852 | 2.741 | 12.6 | 19.1 |
| 7 20 | 21 37.39 | −12 39.0 | 1.778 | 2.733 | 9.1 | 18.8 |
| 7 30 | 21 31.29 | −13 49.0 | 1.729 | 2.726 | 5.1 | 18.6 |
| 8 9 | 21 24.05 | −15 6.0 | 1.705 | 2.718 | 0.8 | 18.3 |
| 8 19 | 21 16.49 | −16 23.8 | 1.708 | 2.711 | 3.6 | 18.5 |
| 8 29 | 21 9.58 | −17 35.9 | 1.739 | 2.705 | 7.8 | 18.7 |
| 9 8 | 21 4.19 | −18 37.3 | 1.794 | 2.698 | 11.6 | 18.9 |
| 9 18 | 21 0.93 | −19 25.0 | 1.871 | 2.692 | 14.8 | 19.1 |

**352482** 2008 $BG_{40}$ 8 10.7 183°.99 2°.6/ 8.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.88 | −21 38.8 | 2.464 | 3.355 | 9.8 | 21.4 |
| 7 20 | 21 39.29 | −22 33.7 | 2.399 | 3.355 | 7.0 | 21.2 |
| 7 30 | 21 32.19 | −23 30.2 | 2.360 | 3.355 | 4.1 | 21.1 |
| 8 9 | 21 24.18 | −24 23.3 | 2.349 | 3.354 | 2.6 | 21.0 |
| 8 19 | 21 15.98 | −25 8.8 | 2.366 | 3.353 | 4.5 | 21.1 |
| 8 29 | 21 8.39 | −25 43.1 | 2.412 | 3.352 | 7.4 | 21.3 |
| 9 8 | 21 2.10 | −26 4.7 | 2.483 | 3.350 | 10.2 | 21.5 |
| 9 18 | 20 57.61 | −26 13.4 | 2.576 | 3.348 | 12.6 | 21.6 |

**236209** 2005 $WT_{122}$ 8 10.7 7°.76 2°.7/13.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 39.15 | − 4 8.2 | 2.561 | 3.414 | 10.7 | 19.9 |
| 7 20 | 21 35.09 | − 4 23.4 | 2.488 | 3.415 | 8.2 | 19.7 |
| 7 30 | 21 29.82 | − 4 50.6 | 2.440 | 3.417 | 5.5 | 19.5 |
| 8 9 | 21 23.83 | − 5 27.9 | 2.417 | 3.419 | 3.1 | 19.4 |
| 8 19 | 21 17.68 | − 6 12.4 | 2.422 | 3.421 | 3.3 | 19.4 |
| 8 29 | 21 12.02 | − 7 0.5 | 2.455 | 3.423 | 5.7 | 19.6 |
| 9 8 | 21 7.41 | − 7 48.4 | 2.515 | 3.426 | 8.4 | 19.8 |
| 9 18 | 21 4.28 | − 8 32.9 | 2.598 | 3.430 | 10.8 | 19.9 |

**361074** 2006 $AX_{73}$ 8 10.7 39°.88 2°.5/ 9.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.59 | −19 15.9 | 1.185 | 2.096 | 16.5 | 20.6 |
| 7 20 | 21 44.43 | −19 41.8 | 1.133 | 2.099 | 11.8 | 20.3 |
| 7 30 | 21 35.41 | −20 12.5 | 1.102 | 2.102 | 6.6 | 20.0 |
| 8 9 | 21 24.68 | −20 40.5 | 1.094 | 2.105 | 2.5 | 19.8 |
| 8 19 | 21 13.75 | −20 59.2 | 1.109 | 2.109 | 6.0 | 20.0 |
| 8 29 | 21 4.24 | −21 4.3 | 1.149 | 2.112 | 11.1 | 20.3 |
| 9 8 | 20 57.44 | −20 54.4 | 1.209 | 2.116 | 15.8 | 20.6 |
| 9 18 | 20 54.00 | −20 30.8 | 1.288 | 2.120 | 19.6 | 20.9 |

**19084** Eilestam 8 10.7 86°.11 2°.9/ 9.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 51.40 | −20 53.3 | 1.386 | 2.290 | 15.0 | 17.2 |
| 7 20 | 21 44.67 | −21 18.6 | 1.335 | 2.297 | 10.7 | 17.0 |
| 7 30 | 21 35.40 | −21 45.8 | 1.305 | 2.304 | 6.1 | 16.8 |
| 8 9 | 21 24.68 | −22 8.2 | 1.300 | 2.310 | 2.9 | 16.6 |
| 8 19 | 21 13.84 | −22 20.3 | 1.321 | 2.317 | 5.8 | 16.8 |
| 8 29 | 21 4.33 | −22 18.7 | 1.367 | 2.324 | 10.3 | 17.1 |
| 9 8 | 20 57.26 | −22 3.2 | 1.434 | 2.331 | 14.5 | 17.3 |
| 9 18 | 20 53.23 | −21 35.0 | 1.522 | 2.337 | 17.9 | 17.6 |

**514356** 2016 $QB_9$ 8 10.7 316°.32 3°.9/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.07 | − 7 26.7 | 1.424 | 2.307 | 16.0 | 20.5 |
| 7 20 | 21 41.07 | − 6 54.2 | 1.342 | 2.287 | 12.2 | 20.2 |
| 7 30 | 21 33.60 | − 6 35.3 | 1.280 | 2.267 | 8.0 | 19.9 |
| 8 9 | 21 24.44 | − 6 29.3 | 1.242 | 2.248 | 4.3 | 19.6 |
| 8 19 | 21 14.71 | − 6 34.4 | 1.228 | 2.229 | 5.2 | 19.6 |
| 8 29 | 21 5.75 | − 6 46.9 | 1.238 | 2.210 | 9.5 | 19.8 |
| 9 8 | 20 58.80 | − 7 2.1 | 1.271 | 2.192 | 14.0 | 20.0 |
| 9 18 | 20 54.69 | − 7 15.8 | 1.323 | 2.175 | 18.1 | 20.2 |

**302144** 2001 $SQ_{83}$ 8 10.7 358°.14 7°.3/ 8.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 56.22 | −33 51.7 | 1.475 | 2.370 | 14.8 | 19.6 |
| 7 20 | 21 48.14 | −33 50.1 | 1.419 | 2.367 | 11.5 | 19.4 |
| 7 30 | 21 37.29 | −33 34.6 | 1.385 | 2.364 | 8.5 | 19.3 |
| 8 9 | 21 24.96 | −32 58.5 | 1.376 | 2.363 | 7.3 | 19.2 |
| 8 19 | 21 12.69 | −31 58.8 | 1.391 | 2.363 | 9.0 | 19.3 |
| 8 29 | 21 2.06 | −30 37.3 | 1.432 | 2.363 | 12.2 | 19.5 |
| 9 8 | 20 54.22 | −28 59.0 | 1.495 | 2.365 | 15.5 | 19.7 |
| 9 18 | 20 49.71 | −27 10.3 | 1.578 | 2.367 | 18.5 | 19.9 |

**1888** Zu Chong–Zhi 8 10.7 209°.35 3°.0/13.1 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.20 | − 5 14.4 | 2.098 | 2.952 | 12.7 | 16.5 |
| 7 20 | 21 40.42 | − 5 20.4 | 2.018 | 2.947 | 9.7 | 16.3 |
| 7 30 | 21 32.92 | − 5 39.8 | 1.961 | 2.941 | 6.3 | 16.1 |
| 8 9 | 21 24.34 | − 6 10.5 | 1.931 | 2.935 | 3.4 | 15.9 |
| 8 19 | 21 15.48 | − 6 49.6 | 1.928 | 2.928 | 3.8 | 15.9 |
| 8 29 | 21 7.22 | − 7 32.7 | 1.954 | 2.920 | 7.0 | 16.1 |
| 9 8 | 21 0.39 | − 8 15.6 | 2.005 | 2.912 | 10.4 | 16.3 |
| 9 18 | 20 55.55 | − 8 54.6 | 2.079 | 2.904 | 13.4 | 16.5 |

**285298** 1998 $TR_{12}$ 8 10.7 290°.59 5°.5/14.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.57 | + 0 37.4 | 1.890 | 2.730 | 14.5 | 21.8 |
| 7 20 | 21 38.86 | + 0 44.7 | 1.792 | 2.704 | 11.7 | 21.5 |
| 7 30 | 21 32.24 | + 0 32.9 | 1.715 | 2.677 | 8.6 | 21.3 |
| 8 9 | 21 24.27 | + 0 1.9 | 1.662 | 2.651 | 6.1 | 21.1 |
| 8 19 | 21 15.77 | − 0 46.3 | 1.635 | 2.625 | 5.8 | 21.0 |
| 8 29 | 21 7.74 | − 1 47.2 | 1.634 | 2.598 | 8.3 | 21.1 |
| 9 8 | 21 1.13 | − 2 54.6 | 1.658 | 2.572 | 11.8 | 21.3 |
| 9 18 | 20 56.68 | − 4 2.3 | 1.703 | 2.545 | 15.2 | 21.4 |

**91795** 1999 $TP_{228}$ 8 10.7 7°.98 4°.7/ 7.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.66 | −27 57.3 | 2.072 | 2.969 | 11.1 | 19.3 |
| 7 20 | 21 40.80 | −28 40.6 | 2.015 | 2.969 | 8.2 | 19.2 |
| 7 30 | 21 33.12 | −29 20.0 | 1.983 | 2.970 | 5.6 | 19.0 |
| 8 9 | 21 24.38 | −29 49.9 | 1.977 | 2.970 | 4.8 | 19.0 |
| 8 19 | 21 15.49 | −30 6.1 | 1.997 | 2.971 | 6.5 | 19.1 |
| 8 29 | 21 7.47 | −30 6.1 | 2.044 | 2.971 | 9.3 | 19.2 |
| 9 8 | 21 1.12 | −29 50.1 | 2.114 | 2.972 | 12.1 | 19.4 |
| 9 18 | 20 57.01 | −29 19.9 | 2.205 | 2.973 | 14.5 | 19.6 |

**262926** 2007 $DA_7$ 8 10.7 250°.68 2°.3/ 8.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.91 | −20 9.9 | 2.403 | 3.295 | 10.0 | 20.9 |
| 7 20 | 21 38.73 | −21 3.6 | 2.325 | 3.282 | 7.1 | 20.7 |
| 7 30 | 21 31.98 | −22 0.7 | 2.272 | 3.269 | 4.1 | 20.5 |
| 8 9 | 21 24.22 | −22 56.4 | 2.247 | 3.255 | 2.3 | 20.4 |
| 8 19 | 21 16.17 | −23 46.0 | 2.250 | 3.241 | 4.4 | 20.5 |
| 8 29 | 21 8.65 | −24 25.5 | 2.282 | 3.227 | 7.5 | 20.7 |
| 9 8 | 21 2.40 | −24 52.7 | 2.338 | 3.213 | 10.5 | 20.8 |
| 9 18 | 20 57.97 | −25 7.0 | 2.417 | 3.198 | 13.1 | 21.0 |

**405734** 2005 $YA_{15}$ 8 10.7 311°.70 1°.2/11.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.07 | −12 24.5 | 1.107 | 2.015 | 17.6 | 20.3 |
| 7 20 | 21 42.32 | −12 23.1 | 1.036 | 1.999 | 13.0 | 19.9 |
| 7 30 | 21 34.53 | −12 35.3 | 0.984 | 1.983 | 7.6 | 19.6 |
| 8 9 | 21 24.65 | −12 57.1 | 0.954 | 1.967 | 1.8 | 19.2 |
| 8 19 | 21 14.11 | −13 22.8 | 0.947 | 1.952 | 5.0 | 19.4 |
| 8 29 | 21 4.65 | −13 46.3 | 0.963 | 1.938 | 11.0 | 19.6 |
| 9 8 | 20 57.79 | −14 2.3 | 0.999 | 1.924 | 16.5 | 19.9 |
| 9 18 | 20 54.45 | −14 7.8 | 1.052 | 1.912 | 21.1 | 20.2 |

**509030** 2005 $QG_{42}$ 8 10.7 329°.77 2°.0/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.15 | −18 45.8 | 1.121 | 2.041 | 16.4 | 20.1 |
| 7 20 | 21 40.99 | −18 53.7 | 1.048 | 2.018 | 11.9 | 19.7 |
| 7 30 | 21 33.81 | −19 7.1 | 0.994 | 1.996 | 6.7 | 19.4 |
| 8 9 | 21 24.55 | −19 20.1 | 0.962 | 1.975 | 2.1 | 19.0 |
| 8 19 | 21 14.63 | −19 26.4 | 0.953 | 1.955 | 5.9 | 19.2 |
| 8 29 | 21 5.78 | −19 21.1 | 0.966 | 1.937 | 11.7 | 19.5 |
| 9 8 | 20 59.52 | −19 1.8 | 0.998 | 1.920 | 16.9 | 19.7 |
| 9 18 | 20 56.76 | −18 28.8 | 1.048 | 1.904 | 21.5 | 19.9 |

**323547** 2004 $SA_{15}$ 8 10.7 288°.97 2°.2/12.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.19 | − 5 1.7 | 2.242 | 3.102 | 11.8 | 20.8 |
| 7 20 | 21 36.88 | − 5 49.6 | 2.147 | 3.081 | 9.0 | 20.6 |
| 7 30 | 21 31.01 | − 6 53.3 | 2.076 | 3.060 | 5.7 | 20.4 |
| 8 9 | 21 24.09 | − 8 9.8 | 2.031 | 3.038 | 2.6 | 20.1 |
| 8 19 | 21 16.80 | − 9 34.5 | 2.015 | 3.017 | 3.2 | 20.1 |
| 8 29 | 21 9.94 | −11 1.7 | 2.027 | 2.996 | 6.6 | 20.3 |
| 9 8 | 21 4.26 | −12 25.3 | 2.065 | 2.975 | 10.0 | 20.5 |
| 9 18 | 21 0.35 | −13 40.8 | 2.127 | 2.953 | 13.1 | 20.7 |

**340550** 2006 $KL_{35}$ 8 10.8 159°.67 0°.6/11.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.96 | −11 40.4 | 2.199 | 3.073 | 11.5 | 22.0 |
| 7 20 | 21 40.12 | −12 8.2 | 2.132 | 3.079 | 8.3 | 21.8 |
| 7 30 | 21 32.69 | −12 44.5 | 2.090 | 3.084 | 4.7 | 21.6 |
| 8 9 | 21 24.33 | −13 25.7 | 2.076 | 3.089 | 1.0 | 21.3 |
| 8 19 | 21 15.81 | −14 7.9 | 2.090 | 3.093 | 3.0 | 21.5 |
| 8 29 | 21 7.96 | −14 47.0 | 2.132 | 3.097 | 6.7 | 21.7 |
| 9 8 | 21 1.51 | −15 19.9 | 2.200 | 3.100 | 10.0 | 21.9 |
| 9 18 | 20 56.99 | −15 44.6 | 2.292 | 3.103 | 12.8 | 22.1 |

**420439** 2012 $DP_{36}$ 8 10.8 223°.56 4°.1/ 8.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 52.24 | −23 52.6 | 1.605 | 2.504 | 13.6 | 21.4 |
| 7 20 | 21 45.29 | −24 32.0 | 1.539 | 2.497 | 9.9 | 21.2 |
| 7 30 | 21 35.84 | −25 10.9 | 1.495 | 2.490 | 6.1 | 20.9 |
| 8 9 | 21 24.83 | −25 42.2 | 1.478 | 2.482 | 4.1 | 20.8 |
| 8 19 | 21 13.49 | −26 0.1 | 1.486 | 2.474 | 6.6 | 20.9 |
| 8 29 | 21 3.22 | −26 0.9 | 1.521 | 2.466 | 10.5 | 21.1 |
| 9 8 | 20 55.17 | −25 44.6 | 1.578 | 2.457 | 14.4 | 21.4 |
| 9 18 | 20 50.05 | −25 13.2 | 1.655 | 2.448 | 17.7 | 21.6 |

**397446** 2007 $EL_{76}$ 8 10.8 242°.72 3°.0/ 8.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.08 | −23 50.4 | 2.328 | 3.220 | 10.2 | 20.8 |
| 7 20 | 21 40.21 | −24 18.2 | 2.263 | 3.219 | 7.3 | 20.6 |
| 7 30 | 21 32.75 | −24 45.0 | 2.223 | 3.217 | 4.4 | 20.5 |
| 8 9 | 21 24.35 | −25 6.6 | 2.210 | 3.215 | 3.0 | 20.4 |
| 8 19 | 21 15.81 | −25 19.6 | 2.226 | 3.213 | 4.8 | 20.5 |
| 8 29 | 21 7.97 | −25 21.6 | 2.268 | 3.210 | 7.7 | 20.7 |
| 9 8 | 21 1.58 | −25 12.0 | 2.336 | 3.208 | 10.6 | 20.8 |
| 9 18 | 20 57.13 | −24 51.4 | 2.426 | 3.206 | 13.0 | 21.0 |

**394215** 2006 $SY_{250}$ 8 10.8 323°.58 0°.8/11.4 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.74 | −11 26.8 | 1.817 | 2.703 | 12.9 | 21.4 |
| 7 20 | 21 38.88 | −11 47.8 | 1.745 | 2.697 | 9.4 | 21.2 |
| 7 30 | 21 32.16 | −12 19.3 | 1.696 | 2.691 | 5.4 | 20.9 |
| 8 9 | 21 24.29 | −12 57.8 | 1.673 | 2.685 | 1.3 | 20.6 |
| 8 19 | 21 16.13 | −13 38.6 | 1.676 | 2.680 | 3.5 | 20.8 |
| 8 29 | 21 8.70 | −14 17.1 | 1.706 | 2.675 | 7.6 | 21.0 |
| 9 8 | 21 2.86 | −14 49.2 | 1.760 | 2.670 | 11.5 | 21.3 |
| 9 18 | 20 59.22 | −15 12.5 | 1.836 | 2.665 | 14.7 | 21.5 |

**265959** 2006 $BV_{270}$ 8 10.8 264°.71 1°.2/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.74 | −10 43.3 | 2.658 | 3.522 | 10.0 | 21.3 |
| 7 20 | 21 39.91 | −10 41.6 | 2.559 | 3.499 | 7.4 | 21.1 |
| 7 30 | 21 32.61 | −10 46.6 | 2.485 | 3.475 | 4.4 | 20.9 |
| 8 9 | 21 24.36 | −10 56.6 | 2.439 | 3.450 | 1.6 | 20.6 |
| 8 19 | 21 15.79 | −11 9.4 | 2.423 | 3.425 | 2.8 | 20.7 |
| 8 29 | 21 7.62 | −11 22.6 | 2.435 | 3.400 | 6.0 | 20.9 |
| 9 8 | 21 0.55 | −11 33.8 | 2.475 | 3.374 | 9.0 | 21.0 |
| 9 18 | 20 55.11 | −11 41.4 | 2.539 | 3.348 | 11.7 | 21.2 |

**511944** 2015 $HG_{174}$ 8 10.8 96°.65 6°.3/ 5.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.73 | −28 49.3 | 1.785 | 2.687 | 12.3 | 21.0 |
| 7 20 | 21 41.83 | −30 30.2 | 1.746 | 2.700 | 9.3 | 20.9 |
| 7 30 | 21 33.81 | −32 6.2 | 1.732 | 2.714 | 6.8 | 20.8 |
| 8 9 | 21 24.53 | −33 28.3 | 1.744 | 2.727 | 6.5 | 20.8 |
| 8 19 | 21 15.11 | −34 29.7 | 1.782 | 2.740 | 8.4 | 20.9 |
| 8 29 | 21 6.70 | −35 6.9 | 1.844 | 2.753 | 11.2 | 21.1 |
| 9 8 | 21 0.28 | −35 20.1 | 1.929 | 2.765 | 14.0 | 21.3 |
| 9 18 | 20 56.43 | −35 12.1 | 2.033 | 2.778 | 16.3 | 21.5 |

**219311** 2000 $EC_{53}$ 8 10.8 22°.04 0°.4/10.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.21 | −14 33.9 | 1.145 | 2.058 | 16.8 | 20.3 |
| 7 20 | 21 40.54 | −14 55.1 | 1.099 | 2.065 | 12.0 | 20.0 |
| 7 30 | 21 33.27 | −15 27.2 | 1.072 | 2.073 | 6.6 | 19.7 |
| 8 9 | 21 24.48 | −16 4.0 | 1.068 | 2.082 | 1.0 | 19.4 |
| 8 19 | 21 15.54 | −16 38.7 | 1.088 | 2.092 | 4.8 | 19.7 |
| 8 29 | 21 7.94 | −17 5.3 | 1.130 | 2.103 | 10.1 | 20.0 |
| 9 8 | 21 2.80 | −17 20.2 | 1.194 | 2.114 | 14.8 | 20.3 |
| 9 18 | 21 0.72 | −17 22.1 | 1.276 | 2.127 | 18.7 | 20.6 |

**95482** 2002 $EB_{19}$ 8 10.8 42°.10 2°.0/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.74 | − 9 41.0 | 1.917 | 2.793 | 12.8 | 18.7 |
| 7 20 | 21 40.06 | − 9 28.4 | 1.859 | 2.803 | 9.5 | 18.5 |
| 7 30 | 21 32.70 | − 9 25.5 | 1.824 | 2.814 | 5.8 | 18.3 |
| 8 9 | 21 24.39 | − 9 30.1 | 1.815 | 2.825 | 2.4 | 18.1 |
| 8 19 | 21 15.98 | − 9 39.7 | 1.833 | 2.836 | 3.5 | 18.2 |
| 8 29 | 21 8.39 | − 9 51.2 | 1.879 | 2.848 | 7.0 | 18.5 |
| 9 8 | 21 2.39 | −10 1.6 | 1.949 | 2.859 | 10.5 | 18.7 |
| 9 18 | 20 58.49 | −10 8.5 | 2.041 | 2.872 | 13.4 | 18.9 |

**90400** 2003 $YS_{26}$ 8 10.8 275°.18 2°.0/ 9.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.32 | −19 8.3 | 1.471 | 2.372 | 14.5 | 19.7 |
| 7 20 | 21 44.07 | −19 25.9 | 1.401 | 2.362 | 10.4 | 19.5 |
| 7 30 | 21 35.26 | −19 47.5 | 1.352 | 2.351 | 5.9 | 19.2 |
| 8 9 | 21 24.81 | −20 7.3 | 1.329 | 2.341 | 2.0 | 18.9 |
| 8 19 | 21 13.97 | −20 20.1 | 1.331 | 2.330 | 5.2 | 19.1 |
| 8 29 | 21 4.16 | −20 21.8 | 1.359 | 2.320 | 10.0 | 19.3 |
| 9 8 | 20 56.58 | −20 11.1 | 1.409 | 2.310 | 14.4 | 19.6 |
| 9 18 | 20 51.97 | −19 48.3 | 1.479 | 2.299 | 18.1 | 19.8 |

**299157** 2005 $FO_{11}$ 8 10.8 95°.11 3°.8/ 7.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.43 | −23 15.8 | 1.968 | 2.866 | 11.5 | 21.0 |
| 7 20 | 21 40.64 | −24 27.5 | 1.924 | 2.883 | 8.2 | 20.8 |
| 7 30 | 21 33.05 | −25 39.0 | 1.905 | 2.898 | 5.1 | 20.6 |
| 8 9 | 21 24.45 | −26 43.7 | 1.913 | 2.914 | 3.8 | 20.6 |
| 8 19 | 21 15.75 | −27 35.9 | 1.948 | 2.930 | 5.9 | 20.7 |
| 8 29 | 21 7.95 | −28 12.0 | 2.009 | 2.945 | 9.0 | 21.0 |
| 9 8 | 21 1.84 | −28 30.9 | 2.095 | 2.960 | 11.9 | 21.2 |
| 9 18 | 20 57.94 | −28 33.7 | 2.201 | 2.975 | 14.4 | 21.4 |

**478973** 2012 $XH_{99}$ 8 10.8 338°.49 1°.4/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.97 | −17 31.1 | 1.535 | 2.438 | 13.9 | 21.0 |
| 7 20 | 21 40.78 | −17 50.1 | 1.469 | 2.431 | 9.9 | 20.7 |
| 7 30 | 21 33.35 | −18 14.8 | 1.425 | 2.425 | 5.5 | 20.4 |
| 8 9 | 21 24.52 | −18 40.0 | 1.406 | 2.419 | 1.4 | 20.2 |
| 8 19 | 21 15.41 | −19 0.7 | 1.413 | 2.414 | 4.6 | 20.4 |
| 8 29 | 21 7.23 | −19 12.8 | 1.444 | 2.409 | 9.2 | 20.6 |
| 9 8 | 21 1.06 | −19 13.9 | 1.499 | 2.405 | 13.3 | 20.9 |
| 9 18 | 20 57.53 | −19 3.6 | 1.574 | 2.401 | 16.9 | 21.1 |

**381817** 2009 $VE_{55}$ 8 10.8 245°.21 0°.8/10.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.03 | −15 0.9 | 1.805 | 2.695 | 12.8 | 22.2 |
| 7 20 | 21 41.38 | −15 40.7 | 1.727 | 2.683 | 9.2 | 21.9 |
| 7 30 | 21 33.67 | −16 29.1 | 1.673 | 2.670 | 5.1 | 21.7 |
| 8 9 | 21 24.59 | −17 21.1 | 1.644 | 2.657 | 1.0 | 21.4 |
| 8 19 | 21 15.12 | −18 10.9 | 1.643 | 2.644 | 4.1 | 21.6 |
| 8 29 | 21 6.36 | −18 53.4 | 1.669 | 2.631 | 8.4 | 21.8 |
| 9 8 | 20 59.29 | −19 24.9 | 1.719 | 2.617 | 12.4 | 22.0 |
| 9 18 | 20 54.62 | −19 43.7 | 1.790 | 2.602 | 15.8 | 22.2 |

**476820** 2008 $UJ_{242}$ 8 10.8 87°.40 3°.4/ 8.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.15 | −23 34.0 | 1.780 | 2.677 | 12.6 | 20.7 |
| 7 20 | 21 43.37 | −24 2.5 | 1.731 | 2.689 | 9.0 | 20.5 |
| 7 30 | 21 34.59 | −24 29.7 | 1.707 | 2.702 | 5.4 | 20.4 |
| 8 9 | 21 24.71 | −24 50.0 | 1.709 | 2.714 | 3.4 | 20.3 |
| 8 19 | 21 14.81 | −24 59.1 | 1.737 | 2.727 | 5.6 | 20.4 |
| 8 29 | 21 6.01 | −24 54.9 | 1.792 | 2.739 | 9.1 | 20.7 |
| 9 8 | 20 59.19 | −24 37.4 | 1.871 | 2.751 | 12.4 | 20.9 |
| 9 18 | 20 54.86 | −24 8.1 | 1.971 | 2.763 | 15.2 | 21.1 |

**470729** 2008 $UM_{66}$ 8 10.8 330°.38 2°.1/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.70 | −10 47.2 | 1.205 | 2.111 | 16.6 | 20.5 |
| 7 20 | 21 39.06 | −10 34.8 | 1.124 | 2.085 | 12.5 | 20.2 |
| 7 30 | 21 32.72 | −10 36.2 | 1.063 | 2.060 | 7.6 | 19.8 |
| 8 9 | 21 24.49 | −10 49.0 | 1.024 | 2.036 | 2.7 | 19.5 |
| 8 19 | 21 15.56 | −11 9.2 | 1.008 | 2.013 | 4.7 | 19.5 |
| 8 29 | 21 7.47 | −11 31.4 | 1.014 | 1.992 | 10.2 | 19.8 |
| 9 8 | 21 1.60 | −11 50.1 | 1.041 | 1.972 | 15.5 | 20.0 |
| 9 18 | 20 58.91 | −12 1.2 | 1.086 | 1.954 | 20.0 | 20.2 |

**393758** 2005 $EZ_{266}$ 8 10.8 181°.78 5°.5/16.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.63 | + 5 16.1 | 2.497 | 3.294 | 12.6 | 22.6 |
| 7 20 | 21 38.39 | + 5 8.0 | 2.416 | 3.295 | 10.4 | 22.5 |
| 7 30 | 21 31.77 | + 4 42.0 | 2.357 | 3.296 | 8.0 | 22.3 |
| 8 9 | 21 24.30 | + 3 58.5 | 2.324 | 3.295 | 6.0 | 22.2 |
| 8 19 | 21 16.62 | + 3 0.0 | 2.318 | 3.295 | 5.5 | 22.2 |
| 8 29 | 21 9.44 | + 1 50.5 | 2.340 | 3.293 | 6.9 | 22.2 |
| 9 8 | 21 3.41 | + 0 35.3 | 2.389 | 3.291 | 9.2 | 22.4 |
| 9 18 | 20 59.02 | − 0 40.5 | 2.463 | 3.289 | 11.5 | 22.6 |

**509819** 2008 $WY_{39}$ 8 10.8 229°.78 0°.7/11.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.72 | −11 19.5 | 2.102 | 2.978 | 11.8 | 22.6 |
| 7 20 | 21 40.17 | −11 45.4 | 2.022 | 2.969 | 8.6 | 22.4 |
| 7 30 | 21 32.88 | −12 21.0 | 1.966 | 2.959 | 5.0 | 22.1 |
| 8 9 | 21 24.49 | −13 2.7 | 1.936 | 2.949 | 1.2 | 21.9 |
| 8 19 | 21 15.79 | −13 46.5 | 1.935 | 2.938 | 3.2 | 22.0 |
| 8 29 | 21 7.68 | −14 28.0 | 1.962 | 2.928 | 7.1 | 22.2 |
| 9 8 | 21 1.00 | −15 3.5 | 2.014 | 2.916 | 10.6 | 22.4 |
| 9 18 | 20 56.34 | −15 30.6 | 2.089 | 2.905 | 13.7 | 22.6 |

**522884** 2016 $OU_{7}$ 8 10.8 179°.95 1°.1/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.88 | −18 11.4 | 2.417 | 3.301 | 10.2 | 21.6 |
| 7 20 | 21 40.72 | −18 25.0 | 2.349 | 3.302 | 7.3 | 21.4 |
| 7 30 | 21 33.05 | −18 41.2 | 2.305 | 3.302 | 4.0 | 21.2 |
| 8 9 | 21 24.50 | −18 56.7 | 2.290 | 3.302 | 1.1 | 21.0 |
| 8 19 | 21 15.81 | −19 8.5 | 2.303 | 3.302 | 3.4 | 21.1 |
| 8 29 | 21 7.78 | −19 14.3 | 2.345 | 3.302 | 6.7 | 21.3 |
| 9 8 | 21 1.11 | −19 12.7 | 2.413 | 3.301 | 9.7 | 21.5 |
| 9 18 | 20 56.27 | −19 3.3 | 2.504 | 3.300 | 12.2 | 21.7 |

**208577** 2002 $CS_{69}$ 8 10.8 19°.35 0°.1/10.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.59 | −10 42.9 | 0.987 | 1.904 | 18.4 | 19.0 |
| 7 20 | 21 38.28 | −11 50.5 | 0.942 | 1.910 | 13.3 | 18.7 |
| 7 30 | 21 32.18 | −13 18.8 | 0.916 | 1.916 | 7.4 | 18.5 |
| 8 9 | 21 24.40 | −14 58.2 | 0.911 | 1.924 | 1.1 | 18.1 |
| 8 19 | 21 16.36 | −16 36.8 | 0.928 | 1.933 | 5.1 | 18.4 |
| 8 29 | 21 9.66 | −18 3.0 | 0.968 | 1.943 | 11.0 | 18.8 |
| 9 8 | 21 5.53 | −19 9.3 | 1.028 | 1.954 | 16.0 | 19.1 |
| 9 18 | 21 4.64 | −19 52.6 | 1.105 | 1.966 | 20.2 | 19.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **48676** 1996 $AW_6$ | | | 8 10.8 302.°76 | 2.°2/ 9.5 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.91 | −18 8.5 | 1.370 | 2.277 | 14.9 | 19.4 |
| 7 20 | 21 41.94 | −18 43.5 | 1.292 | 2.256 | 10.8 | 19.1 |
| 7 30 | 21 34.27 | −19 26.1 | 1.235 | 2.235 | 6.0 | 18.8 |
| 8 9 | 21 24.76 | −20 9.8 | 1.202 | 2.214 | 2.2 | 18.5 |
| 8 19 | 21 14.62 | −20 47.3 | 1.193 | 2.193 | 5.6 | 18.6 |
| 8 29 | 21 5.35 | −21 12.7 | 1.209 | 2.172 | 10.8 | 18.9 |
| 9 8 | 20 58.30 | −21 22.5 | 1.247 | 2.152 | 15.5 | 19.1 |
| 9 18 | 20 54.34 | −21 16.2 | 1.303 | 2.133 | 19.6 | 19.3 |
| **514383** 2016 $RR_{38}$ | | | 8 10.8 245.°30 | 2.°1/ 9.4 18 | | |
| 7 10 | 21 50.33 | −21 15.1 | 2.088 | 2.976 | 11.4 | 21.4 |
| 7 20 | 21 43.50 | −21 26.3 | 2.010 | 2.964 | 8.2 | 21.1 |
| 7 30 | 21 34.74 | −21 37.9 | 1.956 | 2.952 | 4.7 | 20.9 |
| 8 9 | 21 24.79 | −21 45.8 | 1.930 | 2.940 | 2.1 | 20.7 |
| 8 19 | 21 14.57 | −21 46.5 | 1.932 | 2.927 | 4.4 | 20.9 |
| 8 29 | 21 5.11 | −21 37.8 | 1.962 | 2.914 | 8.1 | 21.1 |
| 9 8 | 20 57.30 | −21 18.8 | 2.018 | 2.901 | 11.5 | 21.2 |
| 9 18 | 20 51.75 | −20 50.4 | 2.095 | 2.888 | 14.4 | 21.4 |
| **427663** 2004 $BC_{25}$ | | | 8 10.8 329.°72 | 1.°6/10.9 17 | | |
| 7 10 | 22 1.69 | −17 52.9 | 1.174 | 2.068 | 17.9 | 19.6 |
| 7 20 | 21 52.79 | −16 11.7 | 1.098 | 2.053 | 13.2 | 19.2 |
| 7 30 | 21 40.37 | −14 24.9 | 1.044 | 2.040 | 7.7 | 18.9 |
| 8 9 | 21 25.70 | −12 33.1 | 1.015 | 2.028 | 2.0 | 18.5 |
| 8 19 | 21 10.54 | −10 39.7 | 1.013 | 2.016 | 5.4 | 18.7 |
| 8 29 | 20 56.91 | − 8 49.6 | 1.037 | 2.005 | 11.4 | 19.0 |
| 9 8 | 20 46.43 | − 7 7.1 | 1.084 | 1.995 | 16.8 | 19.3 |
| 9 18 | 20 39.93 | − 5 33.9 | 1.150 | 1.987 | 21.2 | 19.5 |
| **437673** 2014 $CE_{16}$ | | | 8 10.8 241.°84 | 0.°4/11.1 18 | | |
| 7 10 | 21 45.17 | −12 7.7 | 1.840 | 2.725 | 12.8 | 21.3 |
| 7 20 | 21 39.93 | −12 38.7 | 1.770 | 2.722 | 9.3 | 21.0 |
| 7 30 | 21 32.80 | −13 20.0 | 1.723 | 2.718 | 5.3 | 20.8 |
| 8 9 | 21 24.50 | −14 7.2 | 1.701 | 2.714 | 1.0 | 20.5 |
| 8 19 | 21 15.93 | −14 55.5 | 1.707 | 2.711 | 3.5 | 20.7 |
| 8 29 | 21 8.09 | −15 39.9 | 1.740 | 2.707 | 7.7 | 20.9 |
| 9 8 | 21 1.87 | −16 16.2 | 1.797 | 2.703 | 11.5 | 21.1 |
| 9 18 | 20 57.87 | −16 42.3 | 1.877 | 2.699 | 14.7 | 21.3 |
| **24338** 2000 $AE_{80}$ | | | 8 10.8 173.°71 | 1.°2/11.9 18 | | |
| 7 10 | 21 42.30 | − 9 13.6 | 2.643 | 3.509 | 10.0 | 19.7 |
| 7 20 | 21 37.38 | − 9 39.7 | 2.570 | 3.510 | 7.4 | 19.5 |
| 7 30 | 21 31.19 | −10 14.5 | 2.522 | 3.511 | 4.4 | 19.3 |
| 8 9 | 21 24.25 | −10 55.5 | 2.502 | 3.512 | 1.5 | 19.1 |
| 8 19 | 21 17.14 | −11 39.4 | 2.510 | 3.513 | 2.6 | 19.2 |
| 8 29 | 21 10.52 | −12 22.7 | 2.547 | 3.514 | 5.6 | 19.4 |
| 9 8 | 21 4.99 | −13 2.4 | 2.611 | 3.514 | 8.5 | 19.6 |
| 9 18 | 21 0.99 | −13 36.0 | 2.699 | 3.514 | 10.9 | 19.8 |
| **196054** 2002 $TK$ | | | 8 10.8 23.°36 | 3.°2/ 8.4 18 | | |
| 7 10 | 21 45.27 | −23 53.7 | 2.125 | 3.022 | 10.8 | 19.7 |
| 7 20 | 21 39.75 | −24 22.1 | 2.069 | 3.027 | 7.8 | 19.5 |
| 7 30 | 21 32.57 | −24 49.5 | 2.037 | 3.031 | 4.7 | 19.4 |
| 8 9 | 21 24.46 | −25 11.3 | 2.032 | 3.036 | 3.2 | 19.3 |
| 8 19 | 21 16.24 | −25 23.8 | 2.054 | 3.041 | 5.1 | 19.4 |
| 8 29 | 21 8.82 | −25 24.7 | 2.103 | 3.047 | 8.1 | 19.6 |
| 9 8 | 21 2.95 | −25 13.4 | 2.176 | 3.053 | 11.0 | 19.8 |
| 9 18 | 20 59.13 | −24 50.7 | 2.271 | 3.059 | 13.6 | 20.0 |
| **389130** 2008 $YW_{170}$ | | | 8 10.8 119.°00 | 1.°6/ 9.3 17 | | |
| 7 10 | 21 44.29 | −16 2.1 | 1.972 | 2.864 | 11.8 | 21.2 |
| 7 20 | 21 39.18 | −17 17.2 | 1.913 | 2.871 | 8.3 | 21.0 |
| 7 30 | 21 32.34 | −18 39.7 | 1.879 | 2.877 | 4.5 | 20.8 |
| 8 9 | 21 24.43 | −20 3.2 | 1.872 | 2.883 | 1.6 | 20.6 |
| 8 19 | 21 16.32 | −21 21.0 | 1.893 | 2.890 | 4.3 | 20.8 |
| 8 29 | 21 8.93 | −22 27.8 | 1.941 | 2.896 | 8.0 | 21.0 |
| 9 8 | 21 3.08 | −23 19.8 | 2.015 | 2.901 | 11.4 | 21.2 |
| 9 18 | 20 59.32 | −23 56.0 | 2.110 | 2.907 | 14.2 | 21.4 |
| **78048** 2002 $JZ_{126}$ | | | 8 10.8 332.°93 | 3.°3/12.9 18 | | |
| 7 10 | 21 41.87 | − 5 33.0 | 1.157 | 2.052 | 18.0 | 18.6 |
| 7 20 | 21 38.40 | − 5 59.4 | 1.089 | 2.041 | 13.7 | 18.3 |
| 7 30 | 21 32.31 | − 6 50.6 | 1.040 | 2.031 | 8.7 | 18.0 |
| 8 9 | 21 24.47 | − 8 2.6 | 1.012 | 2.021 | 4.0 | 17.7 |
| 8 19 | 21 16.11 | − 9 28.0 | 1.007 | 2.012 | 4.9 | 17.8 |
| 8 29 | 21 8.70 | −10 56.7 | 1.026 | 2.004 | 10.0 | 18.0 |
| 9 8 | 21 3.56 | −12 18.8 | 1.065 | 1.997 | 15.1 | 18.3 |
| 9 18 | 21 1.51 | −13 26.9 | 1.124 | 1.991 | 19.5 | 18.5 |
| **474490** 2003 $SQ_{366}$ | | | 8 10.8 312.°44 | 1.°0/11.4 18 | | |
| 7 10 | 21 44.83 | −11 28.7 | 1.597 | 2.488 | 14.1 | 21.0 |
| 7 20 | 21 39.97 | −11 43.5 | 1.522 | 2.476 | 10.4 | 20.7 |
| 7 30 | 21 32.96 | −12 9.9 | 1.469 | 2.464 | 6.0 | 20.5 |
| 8 9 | 21 24.56 | −12 44.3 | 1.440 | 2.453 | 1.5 | 20.1 |
| 8 19 | 21 15.76 | −13 21.9 | 1.437 | 2.441 | 3.8 | 20.3 |
| 8 29 | 21 7.73 | −13 57.6 | 1.460 | 2.430 | 8.5 | 20.5 |
| 9 8 | 21 1.52 | −14 26.8 | 1.506 | 2.420 | 12.7 | 20.8 |
| 9 18 | 20 57.83 | −14 46.8 | 1.573 | 2.410 | 16.4 | 21.0 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **212317** 2005 $QA_{62}$ | | | 8 10.8 318.°05 | 0.°5/10.4 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.52 | −14 25.8 | 1.954 | 2.845 | 11.9 | 20.4 |
| 7 20 | 21 38.68 | −15 2.3 | 1.884 | 2.840 | 8.5 | 20.2 |
| 7 30 | 21 32.09 | −15 46.8 | 1.838 | 2.836 | 4.7 | 20.0 |
| 8 9 | 21 24.41 | −16 34.9 | 1.818 | 2.831 | 0.8 | 19.7 |
| 8 19 | 21 16.48 | −17 21.6 | 1.825 | 2.827 | 3.6 | 19.9 |
| 8 29 | 21 9.23 | −18 2.3 | 1.859 | 2.823 | 7.5 | 20.1 |
| 9 8 | 21 3.48 | −18 33.7 | 1.918 | 2.819 | 11.1 | 20.4 |
| 9 18 | 20 59.81 | −18 54.0 | 1.998 | 2.815 | 14.2 | 20.6 |
| **521183** 2015 $FP_{411}$ | | | 8 10.8 82.°84 | 4.°6/13.9 17 | | |
| 7 10 | 21 48.89 | − 2 43.1 | 1.782 | 2.631 | 14.8 | 21.1 |
| 7 20 | 21 42.35 | − 2 19.7 | 1.732 | 2.653 | 11.5 | 20.9 |
| 7 30 | 21 34.01 | − 2 12.5 | 1.704 | 2.675 | 7.9 | 20.8 |
| 8 9 | 21 24.69 | − 2 20.4 | 1.701 | 2.697 | 5.1 | 20.6 |
| 8 19 | 21 15.34 | − 2 40.6 | 1.725 | 2.718 | 5.1 | 20.7 |
| 8 29 | 21 6.95 | − 3 9.1 | 1.775 | 2.739 | 7.8 | 20.9 |
| 9 8 | 21 0.33 | − 3 41.1 | 1.851 | 2.760 | 11.0 | 21.1 |
| 9 18 | 20 55.99 | − 4 12.4 | 1.948 | 2.781 | 13.9 | 21.4 |
| **327783** 2006 $UJ_{182}$ | | | 8 10.8 328.°98 | 0.°8/11.3 18 | | |
| 7 10 | 21 40.33 | −10 36.0 | 1.080 | 1.994 | 17.4 | 19.6 |
| 7 20 | 21 37.56 | −11 13.5 | 1.006 | 1.972 | 12.9 | 19.2 |
| 7 30 | 21 31.99 | −12 12.1 | 0.951 | 1.950 | 7.5 | 18.9 |
| 8 9 | 21 24.45 | −13 26.3 | 0.917 | 1.930 | 1.7 | 18.5 |
| 8 19 | 21 16.20 | −14 47.3 | 0.906 | 1.911 | 4.9 | 18.6 |
| 8 29 | 21 8.86 | −16 4.5 | 0.916 | 1.894 | 11.0 | 18.9 |
| 9 8 | 21 3.90 | −17 8.7 | 0.946 | 1.878 | 16.6 | 19.1 |
| 9 18 | 21 2.30 | −17 54.4 | 0.994 | 1.863 | 21.3 | 19.4 |
| **505838** 2015 $CL_{15}$ | | | 8 10.8 132.°58 | 0.°8/10.2 17 | | |
| 7 10 | 21 48.94 | −15 26.1 | 1.737 | 2.626 | 13.3 | 21.8 |
| 7 20 | 21 42.61 | −16 1.2 | 1.680 | 2.636 | 9.4 | 21.6 |
| 7 30 | 21 34.27 | −16 43.3 | 1.648 | 2.645 | 5.2 | 21.3 |
| 8 9 | 21 24.76 | −17 27.0 | 1.641 | 2.654 | 1.0 | 21.0 |
| 8 19 | 21 15.11 | −18 7.2 | 1.662 | 2.663 | 4.1 | 21.3 |
| 8 29 | 21 6.41 | −18 39.4 | 1.709 | 2.671 | 8.3 | 21.6 |
| 9 8 | 20 59.59 | −19 0.7 | 1.782 | 2.679 | 12.0 | 21.8 |
| 9 18 | 20 55.20 | −19 10.4 | 1.875 | 2.686 | 15.2 | 22.1 |
| **314573** 2005 $YF_{213}$ | | | 8 10.8 256.°33 | 4.°0/ 6.8 18 | | |
| 7 10 | 21 44.43 | −25 56.2 | 2.342 | 3.238 | 10.0 | 20.6 |
| 7 20 | 21 39.21 | −26 58.0 | 2.275 | 3.231 | 7.3 | 20.5 |
| 7 30 | 21 32.35 | −27 58.8 | 2.234 | 3.223 | 4.9 | 20.3 |
| 8 9 | 21 24.47 | −28 53.0 | 2.221 | 3.216 | 4.1 | 20.2 |
| 8 19 | 21 16.34 | −29 35.9 | 2.235 | 3.209 | 5.9 | 20.3 |
| 8 29 | 21 8.84 | −30 4.1 | 2.275 | 3.201 | 8.6 | 20.5 |
| 9 8 | 21 2.73 | −30 16.4 | 2.340 | 3.194 | 11.2 | 20.7 |
| 9 18 | 20 58.55 | −30 13.5 | 2.426 | 3.186 | 13.6 | 20.8 |
| **189195** 2003 $PB_1$ | | | 8 10.8 351.°28 | 4.°1/ 8.4 18 | | |
| 7 10 | 21 51.80 | −28 17.2 | 2.113 | 3.002 | 11.3 | 19.2 |
| 7 20 | 21 44.43 | −28 19.5 | 2.049 | 3.000 | 8.3 | 19.0 |
| 7 30 | 21 35.18 | −28 15.9 | 2.010 | 2.998 | 5.5 | 18.8 |
| 8 9 | 21 24.90 | −28 2.2 | 1.999 | 2.997 | 4.1 | 18.8 |
| 8 19 | 21 14.56 | −27 35.7 | 2.015 | 2.996 | 5.8 | 18.9 |
| 8 29 | 21 5.20 | −26 55.9 | 2.058 | 2.995 | 8.7 | 19.0 |
| 9 8 | 20 57.65 | −26 4.1 | 2.127 | 2.994 | 11.7 | 19.2 |
| 9 18 | 20 52.45 | −25 2.8 | 2.218 | 2.994 | 14.2 | 19.4 |
| **198041** 2004 $RN_{272}$ | | | 8 10.8 102.°18 | 1.°0/11.6 17 | | |
| 7 10 | 21 45.96 | − 9 47.3 | 1.741 | 2.621 | 13.7 | 21.0 |
| 7 20 | 21 40.44 | −10 29.1 | 1.685 | 2.633 | 10.0 | 20.8 |
| 7 30 | 21 33.06 | −11 23.4 | 1.653 | 2.646 | 5.8 | 20.6 |
| 8 9 | 21 24.58 | −12 25.4 | 1.646 | 2.658 | 1.5 | 20.3 |
| 8 19 | 21 15.96 | −13 29.4 | 1.667 | 2.670 | 3.5 | 20.5 |
| 8 29 | 21 8.21 | −14 29.3 | 1.714 | 2.682 | 7.7 | 20.8 |
| 9 8 | 21 2.20 | −15 20.6 | 1.786 | 2.694 | 11.4 | 21.0 |
| 9 18 | 20 58.47 | −16 0.5 | 1.880 | 2.705 | 14.6 | 21.3 |
| **102307** 1999 $TV_{95}$ | | | 8 10.8 340.°12 | 2.°0/12.0 18 | | |
| 7 10 | 21 36.32 | − 8 42.6 | 0.916 | 1.839 | 18.9 | 18.5 |
| 7 20 | 21 34.88 | − 9 10.1 | 0.848 | 1.817 | 14.2 | 18.1 |
| 7 30 | 21 30.57 | −10 3.2 | 0.798 | 1.797 | 8.6 | 17.8 |
| 8 9 | 21 24.25 | −11 17.4 | 0.767 | 1.779 | 2.8 | 17.4 |
| 8 19 | 21 17.25 | −12 43.6 | 0.757 | 1.763 | 5.1 | 17.5 |
| 8 29 | 21 11.28 | −14 9.9 | 0.766 | 1.750 | 11.4 | 17.7 |
| 9 8 | 21 7.88 | −15 24.6 | 0.794 | 1.738 | 17.2 | 18.0 |
| 9 18 | 21 8.00 | −16 20.0 | 0.838 | 1.729 | 22.3 | 18.3 |
| **392059** 2009 $BP_{182}$ | | | 8 10.8 327.°17 | 1.°6/12.0 18 | | |
| 7 10 | 21 42.93 | − 8 30.1 | 1.706 | 2.588 | 13.8 | 20.8 |
| 7 20 | 21 38.46 | − 9 4.4 | 1.635 | 2.583 | 10.2 | 20.6 |
| 7 30 | 21 32.07 | − 9 53.6 | 1.585 | 2.577 | 6.1 | 20.3 |
| 8 9 | 21 24.45 | −10 53.7 | 1.561 | 2.572 | 2.1 | 20.1 |
| 8 19 | 21 16.52 | −11 59.1 | 1.563 | 2.567 | 3.6 | 20.2 |
| 8 29 | 21 9.31 | −13 3.4 | 1.591 | 2.563 | 7.8 | 20.4 |
| 9 8 | 21 3.74 | −14 1.1 | 1.644 | 2.559 | 11.8 | 20.6 |
| 9 18 | 21 0.45 | −14 48.2 | 1.718 | 2.555 | 15.3 | 20.9 |

**388985** 2008 $UL_{64}$ 8 10.8 258°.64 0°.1/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.03 | −12 54.4 | 2.040 | 2.921 | 11.9 | 22.2 |
| 7 20 | 21 40.59 | −13 33.6 | 1.950 | 2.901 | 8.7 | 22.0 |
| 7 30 | 21 33.25 | −14 22.8 | 1.884 | 2.879 | 4.9 | 21.7 |
| 8 9 | 21 24.65 | −15 17.8 | 1.844 | 2.858 | 0.8 | 21.3 |
| 8 19 | 21 15.59 | −16 13.5 | 1.833 | 2.836 | 3.5 | 21.5 |
| 8 29 | 21 7.05 | −17 4.8 | 1.850 | 2.813 | 7.6 | 21.7 |
| 9 8 | 20 59.95 | −17 47.6 | 1.892 | 2.790 | 11.4 | 21.9 |
| 9 18 | 20 54.97 | −18 19.4 | 1.956 | 2.766 | 14.7 | 22.1 |

**481722** 2008 $EO_{160}$ 8 10.8 103°.69 2°.5/13.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.42 | − 4 45.7 | 2.205 | 3.062 | 12.1 | 21.8 |
| 7 20 | 21 37.66 | − 5 16.3 | 2.137 | 3.068 | 9.1 | 21.6 |
| 7 30 | 21 31.44 | − 6 0.7 | 2.093 | 3.074 | 5.9 | 21.4 |
| 8 9 | 21 24.34 | − 6 56.2 | 2.075 | 3.080 | 3.0 | 21.2 |
| 8 19 | 21 17.07 | − 7 58.5 | 2.084 | 3.086 | 3.3 | 21.3 |
| 8 29 | 21 10.41 | − 9 3.0 | 2.122 | 3.091 | 6.3 | 21.5 |
| 9 8 | 21 5.02 | −10 4.6 | 2.186 | 3.097 | 9.5 | 21.7 |
| 9 18 | 21 1.41 | −10 59.8 | 2.274 | 3.103 | 12.3 | 21.9 |

**504384** 2007 $VE_{170}$ 8 10.8 303°.72 1°.3/11.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.33 | −11 14.6 | 1.236 | 2.137 | 16.7 | 21.4 |
| 7 20 | 21 41.73 | −11 23.0 | 1.156 | 2.114 | 12.4 | 21.1 |
| 7 30 | 21 34.30 | −11 46.5 | 1.095 | 2.092 | 7.3 | 20.7 |
| 8 9 | 21 24.85 | −12 21.3 | 1.057 | 2.070 | 2.0 | 20.3 |
| 8 19 | 21 14.65 | −13 1.7 | 1.043 | 2.048 | 4.7 | 20.5 |
| 8 29 | 21 5.30 | −13 40.8 | 1.052 | 2.026 | 10.4 | 20.7 |
| 9 8 | 20 58.23 | −14 12.6 | 1.082 | 2.005 | 15.8 | 20.9 |
| 9 18 | 20 54.43 | −14 33.3 | 1.130 | 1.984 | 20.4 | 21.2 |

**91938** 1999 $VB_{60}$ 8 10.8 283°.85 4°.0/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.46 | − 1 45.1 | 2.254 | 3.097 | 12.4 | 19.7 |
| 7 20 | 21 37.79 | − 1 45.2 | 2.166 | 3.083 | 9.7 | 19.5 |
| 7 30 | 21 31.58 | − 2 0.2 | 2.101 | 3.070 | 6.9 | 19.3 |
| 8 9 | 21 24.39 | − 2 28.8 | 2.061 | 3.056 | 4.5 | 19.1 |
| 8 19 | 21 16.89 | − 3 8.8 | 2.048 | 3.042 | 4.4 | 19.1 |
| 8 29 | 21 9.87 | − 3 56.4 | 2.063 | 3.029 | 6.8 | 19.2 |
| 9 8 | 21 4.07 | − 4 47.0 | 2.103 | 3.015 | 9.8 | 19.3 |
| 9 18 | 21 0.03 | − 5 36.3 | 2.167 | 3.001 | 12.6 | 19.5 |

**153224** 2000 $YR_{48}$ 8 10.8 252°.00 1°.3/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.00 | − 9 42.8 | 2.510 | 3.376 | 10.5 | 20.6 |
| 7 20 | 21 38.77 | − 9 55.0 | 2.421 | 3.362 | 7.7 | 20.4 |
| 7 30 | 21 32.09 | −10 15.8 | 2.358 | 3.347 | 4.7 | 20.2 |
| 8 9 | 21 24.48 | −10 42.9 | 2.321 | 3.332 | 1.7 | 20.0 |
| 8 19 | 21 16.61 | −11 13.6 | 2.314 | 3.317 | 2.8 | 20.0 |
| 8 29 | 21 9.19 | −11 44.7 | 2.334 | 3.301 | 6.0 | 20.2 |
| 9 8 | 21 2.91 | −12 13.0 | 2.382 | 3.285 | 9.1 | 20.4 |
| 9 18 | 20 58.29 | −12 36.3 | 2.453 | 3.269 | 11.9 | 20.5 |

**5524** Lecacheux 8 10.8 85°.15 2°.7/ 8.9 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.68 | −17 54.7 | 1.449 | 2.354 | 14.4 | 16.4 |
| 7 20 | 21 41.43 | −19 7.6 | 1.393 | 2.357 | 10.2 | 16.1 |
| 7 30 | 21 33.83 | −20 28.2 | 1.361 | 2.360 | 5.7 | 15.9 |
| 8 9 | 21 24.77 | −21 48.1 | 1.353 | 2.363 | 2.7 | 15.7 |
| 8 19 | 21 15.43 | −22 58.6 | 1.371 | 2.366 | 5.8 | 15.9 |
| 8 29 | 21 7.12 | −23 53.2 | 1.414 | 2.369 | 10.2 | 16.2 |
| 9 8 | 21 0.94 | −24 28.6 | 1.479 | 2.373 | 14.3 | 16.4 |
| 9 18 | 20 57.55 | −24 44.6 | 1.564 | 2.376 | 17.7 | 16.7 |

**123424** 2000 $WQ_{108}$ 8 10.8 176°.83 1°.3/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.58 | −10 32.8 | 2.110 | 2.980 | 12.0 | 20.6 |
| 7 20 | 21 41.43 | −10 41.3 | 2.039 | 2.982 | 8.8 | 20.4 |
| 7 30 | 21 33.58 | −10 58.8 | 1.993 | 2.983 | 5.2 | 20.2 |
| 8 9 | 21 24.72 | −11 22.5 | 1.973 | 2.984 | 1.7 | 20.0 |
| 8 19 | 21 15.66 | −11 49.0 | 1.982 | 2.985 | 3.2 | 20.1 |
| 8 29 | 21 7.29 | −12 15.0 | 2.018 | 2.985 | 6.8 | 20.3 |
| 9 8 | 21 0.40 | −12 37.2 | 2.081 | 2.984 | 10.3 | 20.5 |
| 9 18 | 20 55.55 | −12 53.5 | 2.166 | 2.983 | 13.2 | 20.7 |

**43111** 1999 $XD_{30}$ 8 10.8 141°.72 1°.6/12.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.61 | − 7 44.8 | 2.559 | 3.420 | 10.5 | 19.7 |
| 7 20 | 21 37.64 | − 8 7.4 | 2.490 | 3.426 | 7.8 | 19.5 |
| 7 30 | 21 31.39 | − 8 39.8 | 2.445 | 3.431 | 4.8 | 19.3 |
| 8 9 | 21 24.38 | − 9 19.5 | 2.427 | 3.436 | 2.0 | 19.1 |
| 8 19 | 21 17.22 | −10 3.3 | 2.438 | 3.441 | 2.7 | 19.2 |
| 8 29 | 21 10.58 | −10 47.7 | 2.478 | 3.446 | 5.7 | 19.4 |
| 9 8 | 21 5.07 | −11 29.1 | 2.545 | 3.450 | 8.5 | 19.6 |
| 9 18 | 21 1.13 | −12 5.2 | 2.635 | 3.454 | 11.1 | 19.8 |

**478818** 2012 $VM_{14}$ 8 10.8 290°.35 3°.5/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.40 | − 5 19.3 | 1.762 | 2.627 | 14.2 | 21.2 |
| 7 20 | 21 40.40 | − 5 17.2 | 1.667 | 2.601 | 11.0 | 21.0 |
| 7 30 | 21 33.30 | − 5 30.6 | 1.593 | 2.575 | 7.3 | 20.7 |
| 8 9 | 21 24.72 | − 5 58.3 | 1.544 | 2.549 | 4.0 | 20.4 |
| 8 19 | 21 15.56 | − 6 37.2 | 1.522 | 2.522 | 4.5 | 20.4 |
| 8 29 | 21 6.93 | − 7 22.6 | 1.525 | 2.495 | 8.2 | 20.6 |
| 9 8 | 20 59.86 | − 8 9.1 | 1.553 | 2.469 | 12.3 | 20.8 |
| 9 18 | 20 55.15 | − 8 51.8 | 1.602 | 2.442 | 16.1 | 20.9 |

**522713** 2016 $LX_{60}$ 8 10.8 154°.47 1°.5/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.40 | − 8 28.6 | 1.611 | 2.489 | 14.7 | 22.1 |
| 7 20 | 21 41.70 | − 9 7.3 | 1.548 | 2.494 | 10.8 | 21.9 |
| 7 30 | 21 33.89 | −10 1.3 | 1.507 | 2.499 | 6.4 | 21.7 |
| 8 9 | 21 24.79 | −11 5.9 | 1.492 | 2.503 | 2.1 | 21.4 |
| 8 19 | 21 15.42 | −12 14.8 | 1.503 | 2.507 | 3.8 | 21.5 |
| 8 29 | 21 6.95 | −13 21.1 | 1.541 | 2.510 | 8.2 | 21.8 |
| 9 8 | 21 0.35 | −14 19.3 | 1.603 | 2.513 | 12.3 | 22.1 |
| 9 18 | 20 56.26 | −15 5.8 | 1.686 | 2.516 | 15.8 | 22.3 |

**512467** 2016 $QJ_{53}$ 8 10.8 342°.19 0°.1/10.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.02 | −12 38.8 | 1.427 | 2.328 | 14.8 | 20.9 |
| 7 20 | 21 38.86 | −13 23.0 | 1.361 | 2.321 | 10.7 | 20.7 |
| 7 30 | 21 32.44 | −14 20.6 | 1.317 | 2.315 | 6.0 | 20.4 |
| 8 9 | 21 24.57 | −15 25.6 | 1.297 | 2.310 | 0.9 | 20.0 |
| 8 19 | 21 16.35 | −16 30.9 | 1.301 | 2.305 | 4.3 | 20.3 |
| 8 29 | 21 9.01 | −17 29.3 | 1.331 | 2.301 | 9.2 | 20.5 |
| 9 8 | 21 3.64 | −18 15.3 | 1.383 | 2.298 | 13.6 | 20.8 |
| 9 18 | 21 0.93 | −18 46.3 | 1.455 | 2.295 | 17.4 | 21.0 |

**437794** 2015 $CD_{42}$ 8 10.8 65°.03 1°.3/10.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.27 | −17 24.1 | 1.514 | 2.412 | 14.3 | 20.3 |
| 7 20 | 21 43.02 | −17 42.6 | 1.465 | 2.424 | 10.2 | 20.1 |
| 7 30 | 21 34.56 | −18 6.1 | 1.438 | 2.436 | 5.6 | 19.9 |
| 8 9 | 21 24.88 | −18 29.5 | 1.436 | 2.449 | 1.4 | 19.6 |
| 8 19 | 21 15.13 | −18 47.8 | 1.460 | 2.461 | 4.5 | 19.9 |
| 8 29 | 21 6.53 | −18 57.5 | 1.510 | 2.473 | 9.0 | 20.2 |
| 9 8 | 21 0.07 | −18 56.8 | 1.583 | 2.486 | 12.9 | 20.4 |
| 9 18 | 20 56.30 | −18 45.6 | 1.677 | 2.499 | 16.2 | 20.7 |

**429713** 2011 $JB_{2}$ 8 10.8 111°.60 0°.9/11.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.59 | − 8 23.4 | 1.863 | 2.736 | 13.3 | 21.3 |
| 7 20 | 21 40.12 | − 9 30.6 | 1.807 | 2.751 | 9.6 | 21.1 |
| 7 30 | 21 32.89 | −10 51.8 | 1.774 | 2.766 | 5.6 | 20.9 |
| 8 9 | 21 24.62 | −12 21.2 | 1.769 | 2.781 | 1.5 | 20.7 |
| 8 19 | 21 16.21 | −13 52.0 | 1.792 | 2.796 | 3.3 | 20.8 |
| 8 29 | 21 8.60 | −15 17.4 | 1.843 | 2.810 | 7.3 | 21.1 |
| 9 8 | 21 2.59 | −16 32.1 | 1.920 | 2.823 | 11.0 | 21.4 |
| 9 18 | 20 58.73 | −17 32.9 | 2.019 | 2.837 | 14.0 | 21.6 |

**443100** 2013 $JB_{25}$ 8 10.8 155°.72 1°.4/ 9.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.52 | −17 45.5 | 2.598 | 3.484 | 9.5 | 21.6 |
| 7 20 | 21 38.33 | −18 35.1 | 2.534 | 3.489 | 6.7 | 21.4 |
| 7 30 | 21 31.79 | −19 28.4 | 2.496 | 3.493 | 3.7 | 21.3 |
| 8 9 | 21 24.45 | −20 21.4 | 2.487 | 3.498 | 1.4 | 21.1 |
| 8 19 | 21 16.96 | −21 10.1 | 2.506 | 3.502 | 3.5 | 21.3 |
| 8 29 | 21 10.01 | −21 51.0 | 2.554 | 3.506 | 6.5 | 21.5 |
| 9 8 | 21 4.24 | −22 21.9 | 2.628 | 3.509 | 9.2 | 21.6 |
| 9 18 | 21 0.11 | −22 42.0 | 2.725 | 3.512 | 11.6 | 21.8 |

**95931** 2003 $JT_{16}$ 8 10.8 41°.78 6°.7/18.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.04 | + 9 8.5 | 1.839 | 2.639 | 16.4 | 18.7 |
| 7 20 | 21 36.87 | + 8 15.7 | 1.779 | 2.657 | 13.5 | 18.6 |
| 7 30 | 21 31.07 | + 6 54.3 | 1.740 | 2.675 | 10.5 | 18.4 |
| 8 9 | 21 24.35 | + 5 7.0 | 1.723 | 2.694 | 7.8 | 18.3 |
| 8 19 | 21 17.51 | + 2 59.7 | 1.733 | 2.713 | 6.7 | 18.3 |
| 8 29 | 21 11.42 | + 0 41.3 | 1.771 | 2.733 | 8.0 | 18.4 |
| 9 8 | 21 6.83 | − 1 38.4 | 1.835 | 2.753 | 10.6 | 18.6 |
| 9 18 | 21 4.23 | − 3 50.7 | 1.924 | 2.774 | 13.3 | 18.8 |

**268309** 2005 $QR_{136}$ 8 10.8 176°.29 0°.4/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.41 | −14 0.1 | 1.893 | 2.778 | 12.5 | 21.5 |
| 7 20 | 21 41.51 | −14 42.0 | 1.827 | 2.780 | 9.0 | 21.3 |
| 7 30 | 21 33.72 | −15 32.5 | 1.784 | 2.781 | 5.0 | 21.1 |
| 8 9 | 21 24.78 | −16 26.4 | 1.769 | 2.782 | 0.8 | 20.8 |
| 8 19 | 21 15.58 | −17 18.5 | 1.781 | 2.783 | 3.7 | 21.0 |
| 8 29 | 21 7.17 | −18 3.8 | 1.820 | 2.783 | 7.8 | 21.3 |
| 9 8 | 21 0.40 | −18 38.9 | 1.885 | 2.782 | 11.5 | 21.5 |
| 9 18 | 20 55.88 | −19 2.2 | 1.971 | 2.781 | 14.6 | 21.7 |

**396506** 2014 $GU_{5}$ 8 10.8 339°.55 10°.2/ 3.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 51.32 | −41 2.7 | 1.730 | 2.612 | 13.6 | 20.2 |
| 7 20 | 21 44.87 | −42 11.0 | 1.682 | 2.606 | 11.6 | 20.0 |
| 7 30 | 21 35.76 | −43 3.5 | 1.657 | 2.600 | 10.4 | 19.9 |
| 8 9 | 21 25.09 | −43 31.4 | 1.654 | 2.595 | 10.5 | 19.9 |
| 8 19 | 21 14.25 | −43 29.7 | 1.674 | 2.590 | 11.9 | 20.0 |
| 8 29 | 21 4.74 | −42 57.5 | 1.717 | 2.585 | 14.1 | 20.1 |
| 9 8 | 20 57.71 | −41 58.3 | 1.779 | 2.581 | 16.4 | 20.3 |
| 9 18 | 20 53.80 | −40 38.0 | 1.859 | 2.578 | 18.5 | 20.5 |

**421431** 2014 $CU_{22}$ 8 10.8 179°.66 2°.2/13.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.26 | − 4 58.5 | 2.354 | 3.205 | 11.6 | 21.7 |
| 7 20 | 21 38.97 | − 5 39.8 | 2.278 | 3.207 | 8.7 | 21.5 |
| 7 30 | 21 32.21 | − 6 34.7 | 2.226 | 3.208 | 5.6 | 21.3 |
| 8 9 | 21 24.54 | − 7 40.2 | 2.202 | 3.208 | 2.7 | 21.1 |
| 8 19 | 21 16.65 | − 8 51.9 | 2.206 | 3.208 | 3.1 | 21.2 |
| 8 29 | 21 9.30 | −10 4.9 | 2.240 | 3.207 | 6.2 | 21.4 |
| 9 8 | 21 3.18 | −11 14.3 | 2.300 | 3.206 | 9.3 | 21.6 |
| 9 18 | 20 58.79 | −12 16.3 | 2.385 | 3.204 | 12.1 | 21.7 |

**38484** 1999 $TX_{100}$ 8 10.8 3°.97 10°.9/ 3.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 49.14 | −38 14.6 | 1.398 | 2.299 | 15.1 | 18.0 |
| 7 20 | 21 43.64 | −39 46.1 | 1.359 | 2.298 | 12.6 | 17.8 |
| 7 30 | 21 35.21 | −41 2.1 | 1.341 | 2.298 | 11.0 | 17.7 |
| 8 9 | 21 25.02 | −41 51.6 | 1.345 | 2.299 | 11.2 | 17.7 |
| 8 19 | 21 14.65 | −42 8.0 | 1.371 | 2.301 | 12.9 | 17.9 |
| 8 29 | 21 5.77 | −41 49.6 | 1.418 | 2.303 | 15.5 | 18.0 |
| 9 8 | 20 59.66 | −41 0.8 | 1.483 | 2.306 | 18.1 | 18.2 |
| 9 18 | 20 56.93 | −39 47.7 | 1.565 | 2.310 | 20.4 | 18.4 |

**104168** 2000 $EU_{79}$ 8 10.8 355°.22 3°.4/ 8.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.13 | −22 40.7 | 1.683 | 2.587 | 12.8 | 19.2 |
| 7 20 | 21 41.53 | −23 16.9 | 1.624 | 2.585 | 9.2 | 18.9 |
| 7 30 | 21 33.80 | −23 53.7 | 1.588 | 2.584 | 5.5 | 18.7 |
| 8 9 | 21 24.80 | −24 25.0 | 1.577 | 2.583 | 3.4 | 18.6 |
| 8 19 | 21 15.59 | −24 45.6 | 1.592 | 2.583 | 5.8 | 18.7 |
| 8 29 | 21 7.35 | −24 52.1 | 1.632 | 2.582 | 9.6 | 19.0 |
| 9 8 | 21 1.04 | −24 43.6 | 1.696 | 2.582 | 13.1 | 19.2 |
| 9 18 | 20 57.27 | −24 21.2 | 1.780 | 2.583 | 16.2 | 19.4 |

**482223** 2010 $XJ_{30}$ 8 10.8 228°.75 5°.9/ 3.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.12 | −34 24.2 | 2.720 | 3.603 | 9.2 | 21.6 |
| 7 20 | 21 40.40 | −35 38.4 | 2.658 | 3.594 | 7.4 | 21.4 |
| 7 30 | 21 33.05 | −36 46.5 | 2.622 | 3.584 | 6.1 | 21.3 |
| 8 9 | 21 24.68 | −37 42.8 | 2.614 | 3.575 | 6.1 | 21.3 |
| 8 19 | 21 16.05 | −38 23.0 | 2.633 | 3.564 | 7.4 | 21.4 |
| 8 29 | 21 7.99 | −38 44.7 | 2.677 | 3.554 | 9.3 | 21.5 |
| 9 8 | 21 1.27 | −38 47.8 | 2.745 | 3.543 | 11.3 | 21.6 |
| 9 18 | 20 56.45 | −38 34.1 | 2.832 | 3.532 | 13.1 | 21.8 |

**122323** 2000 $QZ_{17}$ 8 10.8 316°.60 0°.6/10.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.84 | −14 6.6 | 1.387 | 2.291 | 15.0 | 19.7 |
| 7 20 | 21 39.67 | −14 45.2 | 1.310 | 2.272 | 10.8 | 19.4 |
| 7 30 | 21 33.03 | −15 36.4 | 1.254 | 2.254 | 6.1 | 19.1 |
| 8 9 | 21 24.72 | −16 34.5 | 1.222 | 2.235 | 1.0 | 18.7 |
| 8 19 | 21 15.84 | −17 32.3 | 1.214 | 2.218 | 4.7 | 19.0 |
| 8 29 | 21 7.78 | −18 22.6 | 1.231 | 2.200 | 9.9 | 19.2 |
| 9 8 | 21 1.75 | −19 0.0 | 1.270 | 2.184 | 14.6 | 19.4 |
| 9 18 | 20 58.59 | −19 21.9 | 1.328 | 2.168 | 18.7 | 19.7 |

**44124** 1998 $HM_{37}$ 8 10.8 65°.71 2°.0/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.78 | − 9 22.5 | 1.297 | 2.187 | 16.8 | 19.3 |
| 7 20 | 21 42.85 | − 9 33.3 | 1.252 | 2.204 | 12.3 | 19.0 |
| 7 30 | 21 34.54 | − 9 59.3 | 1.228 | 2.221 | 7.3 | 18.8 |
| 8 9 | 21 24.91 | −10 36.0 | 1.227 | 2.238 | 2.6 | 18.6 |
| 8 19 | 21 15.23 | −11 17.4 | 1.251 | 2.256 | 4.3 | 18.7 |
| 8 29 | 21 6.82 | −11 57.6 | 1.300 | 2.273 | 9.0 | 19.1 |
| 9 8 | 21 0.72 | −12 31.4 | 1.372 | 2.291 | 13.4 | 19.4 |
| 9 18 | 20 57.49 | −12 55.7 | 1.464 | 2.308 | 17.0 | 19.6 |

**178721** 2000 $SZ_{264}$ 8 10.8 329°.87 4°.9/ 8.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.93 | −22 40.1 | 1.134 | 2.055 | 16.2 | 19.9 |
| 7 20 | 21 42.29 | −23 37.6 | 1.075 | 2.044 | 11.8 | 19.6 |
| 7 30 | 21 34.61 | −24 38.4 | 1.036 | 2.035 | 7.2 | 19.3 |
| 8 9 | 21 24.97 | −25 32.5 | 1.020 | 2.026 | 4.9 | 19.2 |
| 8 19 | 21 14.84 | −26 10.6 | 1.026 | 2.018 | 8.1 | 19.3 |
| 8 29 | 21 5.99 | −26 26.5 | 1.054 | 2.010 | 12.9 | 19.6 |
| 9 8 | 20 59.85 | −26 19.1 | 1.102 | 2.003 | 17.4 | 19.8 |
| 9 18 | 20 57.20 | −25 50.6 | 1.167 | 1.997 | 21.4 | 20.1 |

**52156** 4100 $T\text{-}_{1}$ 8 10.8 173°.55 1°.0/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.24 | −15 21.2 | 1.812 | 2.700 | 12.8 | 19.6 |
| 7 20 | 21 42.19 | −16 7.7 | 1.748 | 2.703 | 9.2 | 19.4 |
| 7 30 | 21 34.13 | −17 1.9 | 1.707 | 2.705 | 5.0 | 19.1 |
| 8 9 | 21 24.86 | −17 58.3 | 1.693 | 2.706 | 1.1 | 18.9 |
| 8 19 | 21 15.34 | −18 51.0 | 1.707 | 2.707 | 4.1 | 19.1 |
| 8 29 | 21 6.65 | −19 35.0 | 1.748 | 2.708 | 8.3 | 19.4 |
| 9 8 | 20 59.72 | −20 7.1 | 1.813 | 2.708 | 12.0 | 19.6 |
| 9 18 | 20 55.16 | −20 26.1 | 1.900 | 2.707 | 15.2 | 19.8 |

**126343** 2002 $AW_{161}$ 8 10.8 257°.35 1°.2/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.13 | −11 20.7 | 1.874 | 2.751 | 13.0 | 21.0 |
| 7 20 | 21 42.19 | −11 25.4 | 1.788 | 2.735 | 9.6 | 20.8 |
| 7 30 | 21 34.21 | −11 39.7 | 1.726 | 2.719 | 5.6 | 20.5 |
| 8 9 | 21 24.89 | −12 0.6 | 1.690 | 2.702 | 1.6 | 20.2 |
| 8 19 | 21 15.15 | −12 24.7 | 1.681 | 2.685 | 3.5 | 20.3 |
| 8 29 | 21 6.05 | −12 47.9 | 1.700 | 2.667 | 7.8 | 20.5 |
| 9 8 | 20 58.58 | −13 6.8 | 1.743 | 2.650 | 11.8 | 20.7 |
| 9 18 | 20 53.42 | −13 19.2 | 1.809 | 2.631 | 15.2 | 20.9 |

**508566** 2016 $WD_{40}$ 8 10.8 154°.07 3°.2/13.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.12 | − 4 35.8 | 2.257 | 3.109 | 12.0 | 21.1 |
| 7 20 | 21 38.89 | − 4 33.4 | 2.184 | 3.110 | 9.2 | 20.9 |
| 7 30 | 21 32.17 | − 4 43.3 | 2.135 | 3.112 | 6.1 | 20.7 |
| 8 9 | 21 24.55 | − 5 4.1 | 2.112 | 3.113 | 3.6 | 20.5 |
| 8 19 | 21 16.74 | − 5 33.3 | 2.116 | 3.114 | 3.8 | 20.5 |
| 8 29 | 21 9.53 | − 6 7.2 | 2.148 | 3.115 | 6.5 | 20.7 |
| 9 8 | 21 3.60 | − 6 42.2 | 2.207 | 3.116 | 9.5 | 20.9 |
| 9 18 | 20 59.45 | − 7 14.8 | 2.288 | 3.117 | 12.2 | 21.1 |

**280359** 2003 $SO_{320}$ 8 10.8 12°.24 3°.5/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 40.17 | − 5 4.9 | 1.191 | 2.085 | 17.7 | 19.5 |
| 7 20 | 21 36.95 | − 5 27.4 | 1.139 | 2.089 | 13.4 | 19.3 |
| 7 30 | 21 31.40 | − 6 12.9 | 1.106 | 2.095 | 8.6 | 19.0 |
| 8 9 | 21 24.44 | − 7 17.0 | 1.095 | 2.102 | 4.2 | 18.8 |
| 8 19 | 21 17.26 | − 8 32.5 | 1.107 | 2.111 | 4.7 | 18.8 |
| 8 29 | 21 11.13 | − 9 50.4 | 1.142 | 2.120 | 9.2 | 19.1 |
| 9 8 | 21 7.13 | −11 2.1 | 1.199 | 2.132 | 13.7 | 19.4 |
| 9 18 | 21 5.88 | −12 1.4 | 1.275 | 2.144 | 17.6 | 19.7 |

**56551** 2000 $HJ_{78}$ 8 10.8 99°.10 2°.2/ 9.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 51.88 | −18 50.5 | 1.287 | 2.192 | 15.9 | 19.4 |
| 7 20 | 21 45.30 | −19 17.5 | 1.235 | 2.198 | 11.3 | 19.2 |
| 7 30 | 21 36.03 | −19 49.2 | 1.205 | 2.204 | 6.3 | 18.9 |
| 8 9 | 21 25.17 | −20 18.8 | 1.198 | 2.210 | 2.3 | 18.7 |
| 8 19 | 21 14.14 | −20 40.0 | 1.217 | 2.216 | 5.6 | 18.9 |
| 8 29 | 21 4.47 | −20 48.5 | 1.260 | 2.222 | 10.5 | 19.2 |
| 9 8 | 20 57.36 | −20 42.9 | 1.325 | 2.228 | 14.9 | 19.5 |
| 9 18 | 20 53.43 | −20 24.1 | 1.408 | 2.233 | 18.6 | 19.7 |

**290877** 2005 $WN_{66}$ 8 10.8 151°.22 0°.8/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.00 | −16 11.6 | 2.587 | 3.470 | 9.7 | 21.3 |
| 7 20 | 21 38.66 | −16 45.4 | 2.522 | 3.475 | 6.9 | 21.1 |
| 7 30 | 21 31.98 | −17 23.7 | 2.483 | 3.480 | 3.8 | 20.9 |
| 8 9 | 21 24.52 | −18 2.8 | 2.472 | 3.485 | 0.9 | 20.7 |
| 8 19 | 21 16.93 | −18 39.2 | 2.490 | 3.490 | 3.1 | 20.9 |
| 8 29 | 21 9.90 | −19 10.0 | 2.536 | 3.494 | 6.2 | 21.1 |
| 9 8 | 21 4.06 | −19 32.9 | 2.609 | 3.498 | 9.0 | 21.3 |
| 9 18 | 20 59.85 | −19 46.9 | 2.705 | 3.502 | 11.4 | 21.5 |

**440935** 2006 $XP_{70}$ 8 10.8 242°.35 0°.5/10.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.30 | −16 8.6 | 2.315 | 3.197 | 10.6 | 21.7 |
| 7 20 | 21 40.49 | −16 20.1 | 2.238 | 3.190 | 7.6 | 21.5 |
| 7 30 | 21 33.08 | −16 36.0 | 2.185 | 3.182 | 4.2 | 21.3 |
| 8 9 | 21 24.71 | −16 53.0 | 2.160 | 3.174 | 0.7 | 21.0 |
| 8 19 | 21 16.11 | −17 8.2 | 2.164 | 3.165 | 3.2 | 21.2 |
| 8 29 | 21 8.11 | −17 18.7 | 2.196 | 3.157 | 6.7 | 21.4 |
| 9 8 | 21 1.47 | −17 22.6 | 2.253 | 3.148 | 10.0 | 21.6 |
| 9 18 | 20 56.70 | −17 19.2 | 2.334 | 3.139 | 12.7 | 21.8 |

**500785** 2013 $EU_{78}$ 8 10.8 60°.73 0°.4/11.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.89 | −11 9.4 | 1.095 | 2.000 | 18.0 | 21.4 |
| 7 20 | 21 42.53 | −11 58.1 | 1.055 | 2.016 | 13.0 | 21.2 |
| 7 30 | 21 34.49 | −13 3.2 | 1.035 | 2.034 | 7.3 | 20.9 |
| 8 9 | 21 24.92 | −14 16.7 | 1.038 | 2.051 | 1.3 | 20.6 |
| 8 19 | 21 15.30 | −15 29.0 | 1.064 | 2.069 | 4.7 | 20.9 |
| 8 29 | 21 7.13 | −16 31.7 | 1.115 | 2.087 | 10.2 | 21.3 |
| 9 8 | 21 1.56 | −17 19.1 | 1.186 | 2.105 | 15.0 | 21.6 |
| 9 18 | 20 59.17 | −17 49.3 | 1.276 | 2.123 | 18.9 | 21.9 |

**291247** 2006 $BE_{52}$ 8 10.8 228°.30 0°.6/10.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.35 | −15 33.8 | 2.581 | 3.463 | 9.7 | 21.7 |
| 7 20 | 21 38.28 | −16 6.8 | 2.504 | 3.457 | 6.9 | 21.5 |
| 7 30 | 21 31.82 | −16 45.0 | 2.453 | 3.450 | 3.8 | 21.3 |
| 8 9 | 21 24.51 | −17 24.9 | 2.430 | 3.443 | 0.7 | 21.0 |
| 8 19 | 21 17.00 | −18 3.1 | 2.436 | 3.436 | 3.0 | 21.2 |
| 8 29 | 21 9.98 | −18 36.3 | 2.469 | 3.429 | 6.2 | 21.4 |
| 9 8 | 21 4.12 | −19 1.9 | 2.530 | 3.421 | 9.1 | 21.6 |
| 9 18 | 20 59.87 | −19 18.8 | 2.613 | 3.413 | 11.7 | 21.8 |

**199328** 2006 $BC_{131}$ 8 10.8 229°.76 0°.9/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.55 | −10 12.2 | 1.962 | 2.838 | 12.6 | 20.8 |
| 7 20 | 21 40.22 | −10 47.0 | 1.883 | 2.830 | 9.2 | 20.5 |
| 7 30 | 21 33.06 | −11 33.6 | 1.829 | 2.821 | 5.4 | 20.3 |
| 8 9 | 21 24.72 | −12 28.1 | 1.800 | 2.813 | 1.4 | 20.0 |
| 8 19 | 21 16.05 | −13 25.6 | 1.800 | 2.803 | 3.3 | 20.1 |
| 8 29 | 21 8.02 | −14 20.8 | 1.827 | 2.794 | 7.4 | 20.4 |
| 9 8 | 21 1.48 | −15 9.3 | 1.879 | 2.784 | 11.1 | 20.6 |
| 9 18 | 20 57.05 | −15 48.0 | 1.954 | 2.774 | 14.3 | 20.8 |

**147104** 2002 $TG_{42}$ 8 10.8 275°.81 1°.0/11.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.76 | −10 44.1 | 1.606 | 2.492 | 14.4 | 20.4 |
| 7 20 | 21 41.54 | −11 9.7 | 1.520 | 2.471 | 10.6 | 20.1 |
| 7 30 | 21 34.02 | −11 48.9 | 1.456 | 2.451 | 6.2 | 19.8 |
| 8 9 | 21 24.90 | −12 37.9 | 1.417 | 2.430 | 1.6 | 19.5 |
| 8 19 | 21 15.21 | −13 31.1 | 1.404 | 2.409 | 3.9 | 19.6 |
| 8 29 | 21 6.18 | −14 22.4 | 1.418 | 2.387 | 8.8 | 19.8 |
| 9 8 | 20 58.95 | −15 6.4 | 1.455 | 2.366 | 13.3 | 20.1 |
| 9 18 | 20 54.35 | −15 39.5 | 1.512 | 2.344 | 17.2 | 20.3 |

**445831** 2012 $CR_{33}$ 8 10.8 248°.80 0°.9/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.01 | −11 36.5 | 2.452 | 3.324 | 10.5 | 21.3 |
| 7 20 | 21 39.51 | −11 40.9 | 2.370 | 3.314 | 7.7 | 21.1 |
| 7 30 | 21 32.53 | −11 52.3 | 2.312 | 3.304 | 4.5 | 20.9 |
| 8 9 | 21 24.64 | −12 8.4 | 2.281 | 3.293 | 1.3 | 20.7 |
| 8 19 | 21 16.51 | −12 26.7 | 2.279 | 3.283 | 2.8 | 20.8 |
| 8 29 | 21 8.90 | −12 44.3 | 2.306 | 3.272 | 6.1 | 21.0 |
| 9 8 | 21 2.50 | −12 58.7 | 2.359 | 3.261 | 9.3 | 21.1 |
| 9 18 | 20 57.82 | −13 8.2 | 2.435 | 3.250 | 12.0 | 21.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **76057** 2000 $DZ_{61}$ | | | 8 10.8 333°.06 | 1°.7/ 9.8 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.96 | −18 32.2 | 1.736 | 2.634 | 12.8 | 18.9 |
| 7 20 | 21 41.36 | −18 53.4 | 1.670 | 2.630 | 9.2 | 18.6 |
| 7 30 | 21 33.72 | −19 18.5 | 1.628 | 2.626 | 5.1 | 18.4 |
| 8 9 | 21 24.83 | −19 42.8 | 1.611 | 2.623 | 1.7 | 18.1 |
| 8 19 | 21 15.70 | −20 1.7 | 1.621 | 2.620 | 4.5 | 18.3 |
| 8 29 | 21 7.45 | −20 11.7 | 1.657 | 2.617 | 8.6 | 18.6 |
| 9 8 | 21 1.02 | −20 10.9 | 1.717 | 2.615 | 12.4 | 18.8 |
| 9 18 | 20 57.01 | −19 59.2 | 1.797 | 2.612 | 15.6 | 19.0 |
| **306620** 2000 $QG_{46}$ | | | 8 10.8 323°.57 | 2°.2/12.3 18 | | |
| 7 10 | 21 40.64 | − 7 39.4 | 1.259 | 2.158 | 16.6 | 20.3 |
| 7 20 | 21 37.60 | − 8 10.6 | 1.174 | 2.130 | 12.5 | 19.9 |
| 7 30 | 21 32.02 | − 9 4.1 | 1.109 | 2.103 | 7.7 | 19.6 |
| 8 9 | 21 24.62 | −10 16.3 | 1.066 | 2.077 | 2.9 | 19.2 |
| 8 19 | 21 16.48 | −11 40.3 | 1.046 | 2.051 | 4.5 | 19.3 |
| 8 29 | 21 9.04 | −13 6.7 | 1.049 | 2.027 | 10.0 | 19.5 |
| 9 8 | 21 3.65 | −14 25.9 | 1.074 | 2.004 | 15.2 | 19.7 |
| 9 18 | 21 1.26 | −15 30.9 | 1.118 | 1.982 | 19.8 | 19.9 |
| **465590** 2009 $AR_{35}$ | | | 8 10.8 349°.26 | 4°.5/12.6 17 | | |
| 7 10 | 21 47.62 | − 7 56.6 | 1.037 | 1.937 | 19.2 | 20.5 |
| 7 20 | 21 42.74 | − 7 11.2 | 0.977 | 1.931 | 14.6 | 20.2 |
| 7 30 | 21 34.86 | − 6 42.6 | 0.936 | 1.927 | 9.5 | 19.9 |
| 8 9 | 21 25.05 | − 6 30.5 | 0.916 | 1.923 | 5.0 | 19.7 |
| 8 19 | 21 14.78 | − 6 32.3 | 0.917 | 1.920 | 6.0 | 19.7 |
| 8 29 | 21 5.79 | − 6 43.4 | 0.941 | 1.918 | 10.9 | 20.0 |
| 9 8 | 20 59.49 | − 6 57.9 | 0.985 | 1.917 | 16.0 | 20.2 |
| 9 18 | 20 56.68 | − 7 10.4 | 1.046 | 1.917 | 20.4 | 20.5 |
| **181835** 1998 $SU_{125}$ | | | 8 10.8 356°.64 | 6°.2/ 7.5 18 | | |
| 7 10 | 21 43.28 | −24 45.0 | 0.996 | 1.927 | 16.9 | 18.6 |
| 7 20 | 21 39.83 | −25 46.3 | 0.948 | 1.921 | 12.4 | 18.3 |
| 7 30 | 21 33.28 | −26 47.5 | 0.919 | 1.917 | 8.0 | 18.1 |
| 8 9 | 21 24.80 | −27 37.5 | 0.911 | 1.914 | 6.3 | 18.0 |
| 8 19 | 21 15.99 | −28 6.7 | 0.924 | 1.913 | 9.2 | 18.2 |
| 8 29 | 21 8.64 | −28 10.0 | 0.957 | 1.913 | 13.8 | 18.4 |
| 9 8 | 21 4.13 | −27 47.4 | 1.009 | 1.915 | 18.2 | 18.7 |
| 9 18 | 21 3.16 | −27 2.5 | 1.077 | 1.919 | 22.0 | 18.9 |
| **132341** 2002 $GC_{43}$ | | | 8 10.8 50°.37 | 0°.1/10.8 18 | | |
| 7 10 | 21 48.76 | −15 1.6 | 1.660 | 2.550 | 13.7 | 19.4 |
| 7 20 | 21 42.63 | −15 4.4 | 1.598 | 2.553 | 9.8 | 19.2 |
| 7 30 | 21 34.41 | −15 13.8 | 1.559 | 2.556 | 5.5 | 18.9 |
| 8 9 | 21 24.95 | −15 26.0 | 1.546 | 2.559 | 0.9 | 18.6 |
| 8 19 | 21 15.31 | −15 37.2 | 1.559 | 2.562 | 3.8 | 18.9 |
| 8 29 | 21 6.64 | −15 44.0 | 1.599 | 2.565 | 8.3 | 19.1 |
| 9 8 | 20 59.88 | −15 44.0 | 1.662 | 2.569 | 12.2 | 19.4 |
| 9 18 | 20 55.64 | −15 36.4 | 1.747 | 2.572 | 15.6 | 19.6 |
| **418925** 2009 $CZ_{45}$ | | | 8 10.8 313°.83 | 0°.1/10.9 17 | | |
| 7 10 | 21 48.91 | −13 29.9 | 1.273 | 2.173 | 16.3 | 21.5 |
| 7 20 | 21 43.30 | −13 49.2 | 1.211 | 2.171 | 11.8 | 21.2 |
| 7 30 | 21 35.03 | −14 20.2 | 1.171 | 2.169 | 6.7 | 20.9 |
| 8 9 | 21 25.08 | −14 57.4 | 1.154 | 2.167 | 1.1 | 20.6 |
| 8 19 | 21 14.78 | −15 34.5 | 1.162 | 2.166 | 4.6 | 20.8 |
| 8 29 | 21 5.62 | −16 5.4 | 1.193 | 2.164 | 10.0 | 21.1 |
| 9 8 | 20 58.84 | −16 26.0 | 1.247 | 2.163 | 14.7 | 21.4 |
| 9 18 | 20 55.18 | −16 34.5 | 1.320 | 2.161 | 18.7 | 21.6 |
| **3522** Becker | | | 8 10.8 342°.96 | 5°.5/14.8 18 | | |
| 7 10 | 21 38.74 | − 0 57.5 | 1.531 | 2.397 | 15.9 | 15.9 |
| 7 20 | 21 35.73 | − 0 51.3 | 1.450 | 2.379 | 12.7 | 15.6 |
| 7 30 | 21 30.73 | − 1 6.8 | 1.389 | 2.362 | 9.2 | 15.4 |
| 8 9 | 21 24.41 | − 1 43.4 | 1.351 | 2.347 | 6.1 | 15.2 |
| 8 19 | 21 17.65 | − 2 38.0 | 1.336 | 2.332 | 5.8 | 15.1 |
| 8 29 | 21 11.56 | − 3 44.6 | 1.346 | 2.319 | 8.7 | 15.3 |
| 9 8 | 21 7.12 | − 4 55.8 | 1.379 | 2.308 | 12.5 | 15.5 |
| 9 18 | 21 5.05 | − 6 4.3 | 1.432 | 2.298 | 16.1 | 15.7 |
| **217341** 2004 $RT_{179}$ | | | 8 10.8 202°.05 | 3°.1/13.5 18 | | |
| 7 10 | 21 43.85 | − 4 33.3 | 2.349 | 3.199 | 11.7 | 19.9 |
| 7 20 | 21 38.68 | − 4 28.9 | 2.273 | 3.198 | 8.9 | 19.7 |
| 7 30 | 21 32.08 | − 4 36.3 | 2.221 | 3.198 | 6.0 | 19.5 |
| 8 9 | 21 24.60 | − 4 54.3 | 2.196 | 3.197 | 3.5 | 19.4 |
| 8 19 | 21 16.92 | − 5 20.4 | 2.198 | 3.196 | 3.7 | 19.4 |
| 8 29 | 21 9.79 | − 5 51.4 | 2.228 | 3.195 | 6.3 | 19.5 |
| 9 8 | 21 3.88 | − 6 23.8 | 2.284 | 3.193 | 9.2 | 19.7 |
| 9 18 | 20 59.70 | − 6 54.4 | 2.364 | 3.192 | 11.9 | 19.9 |
| **481256** 2005 $WK_{184}$ | | | 8 10.8 229°.22 | 4°.3/ 5.9 18 | | |
| 7 10 | 21 45.61 | −29 31.8 | 2.909 | 3.795 | 8.6 | 22.1 |
| 7 20 | 21 39.92 | −30 31.1 | 2.837 | 3.783 | 6.5 | 21.9 |
| 7 30 | 21 32.78 | −31 27.4 | 2.791 | 3.770 | 4.8 | 21.8 |
| 8 9 | 21 24.72 | −32 15.9 | 2.774 | 3.757 | 4.4 | 21.8 |
| 8 19 | 21 16.41 | −32 52.8 | 2.785 | 3.743 | 5.8 | 21.8 |
| 8 29 | 21 8.59 | −33 15.5 | 2.823 | 3.729 | 7.9 | 22.0 |
| 9 8 | 21 1.94 | −33 23.3 | 2.886 | 3.714 | 10.1 | 22.1 |
| 9 18 | 20 56.97 | −33 17.0 | 2.971 | 3.699 | 12.0 | 22.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **420424** 2012 $DL_{21}$ | | | 8 10.8 204°.75 | 0°.1/10.9 17 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 48.83 | −12 54.6 | 1.597 | 2.484 | 14.3 | 22.0 |
| 7 20 | 21 42.88 | −13 26.3 | 1.528 | 2.482 | 10.3 | 21.8 |
| 7 30 | 21 34.67 | −14 8.9 | 1.482 | 2.479 | 5.8 | 21.5 |
| 8 9 | 21 25.04 | −14 57.3 | 1.462 | 2.475 | 1.0 | 21.1 |
| 8 19 | 21 15.06 | −15 45.6 | 1.468 | 2.471 | 4.0 | 21.4 |
| 8 29 | 21 5.96 | −16 28.2 | 1.500 | 2.466 | 8.7 | 21.6 |
| 9 8 | 20 58.82 | −17 0.9 | 1.556 | 2.461 | 13.0 | 21.9 |
| 9 18 | 20 54.31 | −17 21.8 | 1.633 | 2.456 | 16.5 | 22.1 |
| **141445** 2002 $CA_{55}$ | | | 8 10.8 217°.76 | 0°.8/11.6 18 | | |
| 7 10 | 21 44.17 | −11 7.2 | 2.650 | 3.519 | 9.9 | 21.1 |
| 7 20 | 21 38.84 | −11 27.2 | 2.568 | 3.511 | 7.2 | 20.9 |
| 7 30 | 21 32.15 | −11 54.7 | 2.512 | 3.503 | 4.2 | 20.7 |
| 8 9 | 21 24.63 | −12 27.0 | 2.483 | 3.495 | 1.2 | 20.5 |
| 8 19 | 21 16.89 | −13 1.2 | 2.483 | 3.486 | 2.6 | 20.6 |
| 8 29 | 21 9.62 | −13 34.2 | 2.512 | 3.477 | 5.8 | 20.8 |
| 9 8 | 21 3.44 | −14 3.2 | 2.568 | 3.467 | 8.7 | 20.9 |
| 9 18 | 20 58.85 | −14 26.2 | 2.648 | 3.457 | 11.3 | 21.1 |
| **136697** 1995 $SN_{60}$ | | | 8 10.8 98°.82 | 2°.2/ 9.5 17 | | |
| 7 10 | 21 50.09 | −18 27.0 | 1.504 | 2.403 | 14.3 | 20.4 |
| 7 20 | 21 43.70 | −19 10.1 | 1.457 | 2.417 | 10.2 | 20.2 |
| 7 30 | 21 35.04 | −19 58.0 | 1.431 | 2.430 | 5.6 | 20.0 |
| 8 9 | 21 25.09 | −20 43.8 | 1.432 | 2.443 | 2.2 | 19.8 |
| 8 19 | 21 15.04 | −21 21.3 | 1.458 | 2.456 | 5.2 | 20.0 |
| 8 29 | 21 6.17 | −21 46.2 | 1.510 | 2.468 | 9.5 | 20.3 |
| 9 8 | 20 59.48 | −21 56.6 | 1.585 | 2.480 | 13.4 | 20.5 |
| 9 18 | 20 55.55 | −21 53.0 | 1.680 | 2.492 | 16.6 | 20.8 |
| **198052** 2004 $RU_{298}$ | | | 8 10.8 27°.84 | 1°.7/11.9 18 | | |
| 7 10 | 21 44.04 | − 9 3.0 | 1.307 | 2.202 | 16.3 | 20.1 |
| 7 20 | 21 39.59 | − 9 29.7 | 1.256 | 2.210 | 12.0 | 19.8 |
| 7 30 | 21 32.85 | −10 12.9 | 1.225 | 2.219 | 7.1 | 19.6 |
| 8 9 | 21 24.75 | −11 7.8 | 1.217 | 2.229 | 2.3 | 19.3 |
| 8 19 | 21 16.47 | −12 7.4 | 1.234 | 2.239 | 4.1 | 19.5 |
| 8 29 | 21 9.27 | −13 4.6 | 1.275 | 2.249 | 8.9 | 19.8 |
| 9 8 | 21 4.19 | −13 53.3 | 1.338 | 2.261 | 13.4 | 20.1 |
| 9 18 | 21 1.83 | −14 29.8 | 1.422 | 2.273 | 17.1 | 20.4 |
| **319001** 2005 $UG_{431}$ | | | 8 10.8 237°.29 | 0°.7/10.2 16 | | |
| 7 10 | 21 44.24 | −15 57.0 | 2.557 | 3.439 | 9.8 | 23.0 |
| 7 20 | 21 38.97 | −16 29.1 | 2.476 | 3.428 | 7.0 | 22.8 |
| 7 30 | 21 32.26 | −17 6.2 | 2.420 | 3.417 | 3.9 | 22.5 |
| 8 9 | 21 24.66 | −17 45.0 | 2.392 | 3.405 | 0.8 | 22.3 |
| 8 19 | 21 16.81 | −18 21.8 | 2.393 | 3.393 | 3.1 | 22.5 |
| 8 29 | 21 9.45 | −18 53.3 | 2.423 | 3.381 | 6.4 | 22.7 |
| 9 8 | 21 3.25 | −19 17.0 | 2.479 | 3.369 | 9.4 | 22.8 |
| 9 18 | 20 58.72 | −19 31.8 | 2.558 | 3.356 | 12.0 | 23.0 |
| **441585** 2008 $UO_{98}$ | | | 8 10.9 301°.27 | 1°.8/12.1 18 | | |
| 7 10 | 21 44.84 | − 8 32.3 | 1.612 | 2.494 | 14.5 | 20.4 |
| 7 20 | 21 40.32 | − 8 58.5 | 1.511 | 2.459 | 10.9 | 20.1 |
| 7 30 | 21 33.47 | − 9 41.6 | 1.432 | 2.424 | 6.7 | 19.8 |
| 8 9 | 21 24.91 | −10 38.6 | 1.377 | 2.388 | 2.4 | 19.5 |
| 8 19 | 21 15.56 | −11 44.4 | 1.348 | 2.352 | 4.0 | 19.5 |
| 8 29 | 21 6.67 | −12 52.1 | 1.345 | 2.316 | 8.9 | 19.7 |
| 9 8 | 20 59.44 | −13 54.9 | 1.365 | 2.280 | 13.7 | 19.9 |
| 9 18 | 20 54.80 | −14 47.5 | 1.405 | 2.245 | 17.9 | 20.0 |
| **144368** 2004 $DK_{48}$ | | | 8 10.9 173°.93 | 0°.9/11.5 18 | | |
| 7 10 | 21 47.87 | −10 29.5 | 1.915 | 2.789 | 12.9 | 21.2 |
| 7 20 | 21 41.85 | −11 2.3 | 1.847 | 2.792 | 9.4 | 21.0 |
| 7 30 | 21 33.96 | −11 46.2 | 1.802 | 2.795 | 5.5 | 20.8 |
| 8 9 | 21 24.94 | −12 37.2 | 1.784 | 2.796 | 1.4 | 20.5 |
| 8 19 | 21 15.67 | −13 30.2 | 1.794 | 2.798 | 3.4 | 20.6 |
| 8 29 | 21 7.16 | −14 20.1 | 1.832 | 2.798 | 7.4 | 20.9 |
| 9 8 | 21 0.26 | −15 3.0 | 1.895 | 2.798 | 11.1 | 21.1 |
| 9 18 | 20 55.57 | −15 36.1 | 1.980 | 2.797 | 14.3 | 21.3 |
| **326029** 2010 $XM_{22}$ | | | 8 10.9 76°.64 | 1°.6/ 9.8 17 | | |
| 7 10 | 21 49.16 | −16 43.1 | 1.398 | 2.300 | 15.1 | 20.6 |
| 7 20 | 21 43.11 | −17 27.1 | 1.354 | 2.315 | 10.7 | 20.4 |
| 7 30 | 21 34.74 | −18 18.1 | 1.332 | 2.331 | 5.9 | 20.1 |
| 8 9 | 21 25.05 | −19 9.1 | 1.334 | 2.346 | 1.7 | 19.9 |
| 8 19 | 21 15.30 | −19 53.3 | 1.362 | 2.362 | 5.0 | 20.2 |
| 8 29 | 21 6.79 | −20 25.5 | 1.415 | 2.378 | 9.6 | 20.5 |
| 9 8 | 21 0.53 | −20 43.4 | 1.491 | 2.393 | 13.6 | 20.7 |
| 9 18 | 20 57.08 | −20 46.9 | 1.587 | 2.408 | 17.0 | 21.0 |
| **163497** 2002 $SX_{40}$ | | | 8 10.9 316°.06 | 3°.7/ 8.2 18 | | |
| 7 10 | 21 46.62 | −23 0.4 | 1.770 | 2.672 | 12.4 | 19.6 |
| 7 20 | 21 41.19 | −23 47.5 | 1.706 | 2.667 | 8.9 | 19.4 |
| 7 30 | 21 33.69 | −24 35.6 | 1.666 | 2.662 | 5.4 | 19.2 |
| 8 9 | 21 24.90 | −25 18.1 | 1.652 | 2.657 | 3.7 | 19.1 |
| 8 19 | 21 15.86 | −25 49.6 | 1.664 | 2.652 | 6.0 | 19.2 |
| 8 29 | 21 7.67 | −26 6.2 | 1.702 | 2.648 | 9.6 | 19.4 |
| 9 8 | 21 1.32 | −26 6.6 | 1.763 | 2.644 | 13.0 | 19.6 |
| 9 18 | 20 57.42 | −25 51.7 | 1.844 | 2.640 | 16.0 | 19.8 |

**507967** 2015 $BR_{69}$ 8 10.9 48°.37 4°.1/13.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.90 | − 4 6.6 | 1.405 | 2.278 | 16.7 | 21.3 |
| 7 20 | 21 40.85 | − 4 10.3 | 1.346 | 2.284 | 12.8 | 21.1 |
| 7 30 | 21 33.55 | − 4 34.1 | 1.307 | 2.290 | 8.5 | 20.9 |
| 8 9 | 21 24.88 | − 5 15.4 | 1.292 | 2.296 | 4.8 | 20.7 |
| 8 19 | 21 15.97 | − 6 9.2 | 1.301 | 2.302 | 5.0 | 20.7 |
| 8 29 | 21 8.05 | − 7 8.7 | 1.336 | 2.309 | 8.8 | 20.9 |
| 9 8 | 21 2.17 | − 8 6.9 | 1.393 | 2.315 | 12.9 | 21.2 |
| 9 18 | 20 58.95 | − 8 58.3 | 1.471 | 2.322 | 16.6 | 21.5 |

**322356** 2011 $KC_{4}$ 8 10.9 37°.31 0°.9/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.31 | −17 25.2 | 2.634 | 3.521 | 9.4 | 20.4 |
| 7 20 | 21 37.44 | −17 44.7 | 2.575 | 3.529 | 6.6 | 20.2 |
| 7 30 | 21 31.32 | −18 7.4 | 2.541 | 3.538 | 3.6 | 20.0 |
| 8 9 | 21 24.51 | −18 30.1 | 2.535 | 3.548 | 0.9 | 19.8 |
| 8 19 | 21 17.61 | −18 50.0 | 2.558 | 3.557 | 3.0 | 20.0 |
| 8 29 | 21 11.29 | −19 4.7 | 2.608 | 3.567 | 6.0 | 20.2 |
| 9 8 | 21 6.11 | −19 12.7 | 2.685 | 3.577 | 8.7 | 20.4 |
| 9 18 | 21 2.49 | −19 13.1 | 2.784 | 3.587 | 11.0 | 20.6 |

**155073** 2005 $SP_{77}$ 8 10.9 276°.17 0°.2/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.59 | −12 41.5 | 1.645 | 2.534 | 13.9 | 21.3 |
| 7 20 | 21 41.39 | −13 12.9 | 1.562 | 2.516 | 10.1 | 21.0 |
| 7 30 | 21 33.94 | −13 56.0 | 1.501 | 2.498 | 5.7 | 20.7 |
| 8 9 | 21 24.97 | −14 46.3 | 1.466 | 2.479 | 1.0 | 20.4 |
| 8 19 | 21 15.48 | −15 37.9 | 1.457 | 2.460 | 4.0 | 20.5 |
| 8 29 | 21 6.67 | −16 24.9 | 1.474 | 2.441 | 8.8 | 20.8 |
| 9 8 | 20 59.65 | −17 2.6 | 1.515 | 2.422 | 13.1 | 21.0 |
| 9 18 | 20 55.19 | −17 28.4 | 1.576 | 2.403 | 16.9 | 21.2 |

**11155** Kinpu 8 10.9 147°.84 3°.2/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.38 | − 6 1.6 | 1.636 | 2.501 | 15.1 | 17.5 |
| 7 20 | 21 43.10 | − 6 3.2 | 1.573 | 2.508 | 11.4 | 17.3 |
| 7 30 | 21 34.72 | − 6 20.4 | 1.531 | 2.515 | 7.4 | 17.1 |
| 8 9 | 21 25.07 | − 6 50.5 | 1.515 | 2.521 | 3.7 | 16.9 |
| 8 19 | 21 15.19 | − 7 29.5 | 1.525 | 2.526 | 4.3 | 16.9 |
| 8 29 | 21 6.24 | − 8 12.2 | 1.562 | 2.531 | 8.2 | 17.2 |
| 9 8 | 20 59.18 | − 8 53.4 | 1.623 | 2.536 | 12.1 | 17.4 |
| 9 18 | 20 54.63 | − 9 29.1 | 1.706 | 2.540 | 15.5 | 17.6 |

**404895** 2014 $KA_{78}$ 8 10.9 77°.21 0°.2/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.67 | −12 15.6 | 2.121 | 3.004 | 11.5 | 20.7 |
| 7 20 | 21 37.99 | −13 17.4 | 2.059 | 3.011 | 8.2 | 20.5 |
| 7 30 | 21 31.76 | −14 28.7 | 2.021 | 3.017 | 4.5 | 20.3 |
| 8 9 | 21 24.60 | −15 44.6 | 2.011 | 3.024 | 0.7 | 20.0 |
| 8 19 | 21 17.25 | −16 59.5 | 2.028 | 3.031 | 3.2 | 20.3 |
| 8 29 | 21 10.53 | −18 8.0 | 2.074 | 3.037 | 6.9 | 20.5 |
| 9 8 | 21 5.18 | −19 6.1 | 2.145 | 3.044 | 10.2 | 20.7 |
| 9 18 | 21 1.69 | −19 51.4 | 2.240 | 3.051 | 13.0 | 20.9 |

**507247** 2011 $BV_{88}$ 8 10.9 264°.84 0°.4/10.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.46 | −14 54.3 | 1.586 | 2.479 | 14.1 | 21.4 |
| 7 20 | 21 42.71 | −15 15.1 | 1.512 | 2.469 | 10.2 | 21.1 |
| 7 30 | 21 34.66 | −15 44.5 | 1.460 | 2.458 | 5.7 | 20.8 |
| 8 9 | 21 25.10 | −16 17.6 | 1.434 | 2.447 | 0.9 | 20.5 |
| 8 19 | 21 15.12 | −16 49.2 | 1.434 | 2.436 | 4.2 | 20.7 |
| 8 29 | 21 6.00 | −17 14.4 | 1.459 | 2.425 | 9.0 | 20.9 |
| 9 8 | 20 58.83 | −17 29.9 | 1.509 | 2.414 | 13.3 | 21.2 |
| 9 18 | 20 54.34 | −17 34.3 | 1.578 | 2.403 | 16.9 | 21.4 |

**118213** 1995 $YO_{18}$ 8 10.9 268°.69 1°.3/12.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.40 | − 9 18.1 | 2.225 | 3.096 | 11.5 | 20.5 |
| 7 20 | 21 38.54 | − 9 41.2 | 2.142 | 3.085 | 8.5 | 20.3 |
| 7 30 | 21 32.11 | −10 14.9 | 2.083 | 3.073 | 5.1 | 20.1 |
| 8 9 | 21 24.68 | −10 56.4 | 2.050 | 3.061 | 1.8 | 19.8 |
| 8 19 | 21 16.95 | −11 41.9 | 2.046 | 3.049 | 3.0 | 19.9 |
| 8 29 | 21 9.74 | −12 27.4 | 2.069 | 3.037 | 6.5 | 20.1 |
| 9 8 | 21 3.81 | −13 8.8 | 2.118 | 3.025 | 9.9 | 20.3 |
| 9 18 | 20 59.69 | −13 43.2 | 2.190 | 3.013 | 12.9 | 20.5 |

**440187** 2004 $CD_{103}$ 8 10.9 155°.23 1°.4/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.53 | −11 7.8 | 2.164 | 3.033 | 11.8 | 20.6 |
| 7 20 | 21 42.10 | −10 56.3 | 2.095 | 3.037 | 8.7 | 20.4 |
| 7 30 | 21 34.02 | −10 52.1 | 2.050 | 3.040 | 5.2 | 20.2 |
| 8 9 | 21 24.97 | −10 53.3 | 2.032 | 3.043 | 1.8 | 20.0 |
| 8 19 | 21 15.76 | −10 57.6 | 2.043 | 3.046 | 3.1 | 20.1 |
| 8 29 | 21 7.28 | −11 2.4 | 2.082 | 3.048 | 6.7 | 20.3 |
| 9 8 | 21 0.27 | −11 5.4 | 2.147 | 3.051 | 10.0 | 20.5 |
| 9 18 | 20 55.26 | −11 5.0 | 2.236 | 3.053 | 12.9 | 20.7 |

**446964** 2003 $TS_{47}$ 8 10.9 320°.76 0°.7/11.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.27 | −13 0.5 | 2.234 | 3.112 | 11.1 | 20.8 |
| 7 20 | 21 39.80 | −12 59.3 | 2.160 | 3.108 | 8.1 | 20.6 |
| 7 30 | 21 32.76 | −13 4.4 | 2.111 | 3.104 | 4.6 | 20.4 |
| 8 9 | 21 24.78 | −13 13.3 | 2.088 | 3.100 | 1.1 | 20.1 |
| 8 19 | 21 16.61 | −13 23.6 | 2.093 | 3.097 | 3.0 | 20.3 |
| 8 29 | 21 9.06 | −13 32.4 | 2.126 | 3.093 | 6.5 | 20.5 |
| 9 8 | 21 2.86 | −13 37.5 | 2.185 | 3.090 | 9.8 | 20.7 |
| 9 18 | 20 58.53 | −13 37.5 | 2.267 | 3.086 | 12.6 | 20.9 |

**445404** 2010 $TC_{34}$ 8 10.9 256°.01 1°.1/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.37 | − 9 45.0 | 2.537 | 3.404 | 10.4 | 22.3 |
| 7 20 | 21 38.40 | −10 11.4 | 2.446 | 3.387 | 7.6 | 22.1 |
| 7 30 | 21 32.00 | −10 47.2 | 2.380 | 3.370 | 4.5 | 21.9 |
| 8 9 | 21 24.67 | −11 29.7 | 2.341 | 3.352 | 1.5 | 21.7 |
| 8 19 | 21 17.04 | −12 15.6 | 2.331 | 3.334 | 2.7 | 21.7 |
| 8 29 | 21 9.84 | −13 1.0 | 2.349 | 3.316 | 6.0 | 21.9 |
| 9 8 | 21 3.73 | −13 42.5 | 2.394 | 3.297 | 9.1 | 22.1 |
| 9 18 | 20 59.25 | −14 17.5 | 2.463 | 3.278 | 11.9 | 22.3 |

**317257** 2002 $EO_{5}$ 8 10.9 276°.80 11°.5/20.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.34 | +14 0.0 | 1.024 | 1.843 | 25.3 | 19.8 |
| 7 20 | 21 39.90 | +13 23.0 | 0.952 | 1.836 | 21.8 | 19.6 |
| 7 30 | 21 33.48 | +11 50.8 | 0.893 | 1.829 | 17.8 | 19.3 |
| 8 9 | 21 24.96 | + 9 19.5 | 0.853 | 1.822 | 13.7 | 19.0 |
| 8 19 | 21 15.71 | + 5 54.5 | 0.833 | 1.815 | 11.5 | 18.9 |
| 8 29 | 21 7.46 | + 1 53.5 | 0.836 | 1.808 | 12.9 | 19.0 |
| 9 8 | 21 1.76 | − 2 17.6 | 0.862 | 1.801 | 16.9 | 19.2 |
| 9 18 | 20 59.61 | − 6 14.6 | 0.909 | 1.794 | 21.5 | 19.4 |

**230396** 2002 $JM_{14}$ 8 10.9 59°.47 1°.8/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.39 | −16 0.3 | 1.558 | 2.459 | 13.8 | 19.6 |
| 7 20 | 21 40.31 | −17 9.5 | 1.513 | 2.474 | 9.8 | 19.4 |
| 7 30 | 21 33.17 | −18 26.6 | 1.490 | 2.490 | 5.3 | 19.2 |
| 8 9 | 21 24.85 | −19 44.2 | 1.493 | 2.505 | 1.8 | 19.0 |
| 8 19 | 21 16.41 | −20 54.6 | 1.523 | 2.521 | 4.8 | 19.2 |
| 8 29 | 21 8.99 | −21 51.8 | 1.578 | 2.537 | 9.0 | 19.5 |
| 9 8 | 21 3.48 | −22 32.6 | 1.656 | 2.553 | 12.8 | 19.8 |
| 9 18 | 21 0.46 | −22 56.3 | 1.755 | 2.569 | 15.9 | 20.0 |

**86054** 1999 $RH_{11}$ 8 10.9 332°.90 0°.4/10.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.86 | −12 35.4 | 1.901 | 2.791 | 12.2 | 18.9 |
| 7 20 | 21 37.66 | −13 36.3 | 1.830 | 2.785 | 8.8 | 18.6 |
| 7 30 | 21 31.70 | −14 48.4 | 1.782 | 2.779 | 4.9 | 18.4 |
| 8 9 | 21 24.63 | −16 6.5 | 1.760 | 2.774 | 0.7 | 18.1 |
| 8 19 | 21 17.27 | −17 24.1 | 1.766 | 2.769 | 3.6 | 18.3 |
| 8 29 | 21 10.53 | −18 35.1 | 1.799 | 2.764 | 7.7 | 18.5 |
| 9 8 | 21 5.27 | −19 34.7 | 1.857 | 2.759 | 11.3 | 18.7 |
| 9 18 | 21 2.07 | −20 20.2 | 1.936 | 2.755 | 14.5 | 19.0 |

**148473** 2001 $EC_{4}$ 8 10.9 112°.37 0°.9/11.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.45 | − 9 27.2 | 1.597 | 2.478 | 14.7 | 20.8 |
| 7 20 | 21 41.74 | −10 19.0 | 1.542 | 2.491 | 10.7 | 20.6 |
| 7 30 | 21 33.97 | −11 25.2 | 1.511 | 2.504 | 6.2 | 20.4 |
| 8 9 | 21 24.99 | −12 40.0 | 1.505 | 2.517 | 1.5 | 20.1 |
| 8 19 | 21 15.84 | −13 56.3 | 1.526 | 2.530 | 3.7 | 20.3 |
| 8 29 | 21 7.65 | −15 7.1 | 1.573 | 2.542 | 8.2 | 20.6 |
| 9 8 | 21 1.37 | −16 7.2 | 1.646 | 2.554 | 12.2 | 20.9 |
| 9 18 | 20 57.56 | −16 53.6 | 1.739 | 2.565 | 15.6 | 21.1 |

**292659** 2006 $UK_{57}$ 8 10.9 44°.76 4°.6/13.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.88 | − 4 50.7 | 1.290 | 2.168 | 17.6 | 20.7 |
| 7 20 | 21 42.39 | − 4 29.5 | 1.235 | 2.175 | 13.5 | 20.4 |
| 7 30 | 21 34.46 | − 4 27.6 | 1.200 | 2.183 | 9.0 | 20.2 |
| 8 9 | 21 25.08 | − 4 43.5 | 1.188 | 2.191 | 5.2 | 20.0 |
| 8 19 | 21 15.48 | − 5 13.2 | 1.200 | 2.200 | 5.5 | 20.1 |
| 8 29 | 21 7.02 | − 5 50.9 | 1.236 | 2.209 | 9.4 | 20.3 |
| 9 8 | 21 0.82 | − 6 30.2 | 1.294 | 2.218 | 13.6 | 20.6 |
| 9 18 | 20 57.50 | − 7 5.6 | 1.373 | 2.227 | 17.4 | 20.8 |

**400425** 2008 $CX_{126}$ 8 10.9 153°.52 0°.3/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.54 | −12 25.3 | 2.299 | 3.176 | 10.9 | 22.1 |
| 7 20 | 21 39.23 | −12 53.9 | 2.231 | 3.179 | 7.9 | 21.9 |
| 7 30 | 21 32.43 | −13 30.1 | 2.189 | 3.183 | 4.4 | 21.7 |
| 8 9 | 21 24.74 | −14 10.6 | 2.173 | 3.186 | 0.8 | 21.4 |
| 8 19 | 21 16.88 | −14 51.4 | 2.186 | 3.190 | 2.9 | 21.6 |
| 8 29 | 21 9.64 | −15 29.0 | 2.228 | 3.193 | 6.4 | 21.9 |
| 9 8 | 21 3.70 | −16 0.2 | 2.295 | 3.195 | 9.6 | 22.1 |
| 9 18 | 20 59.55 | −16 23.3 | 2.385 | 3.198 | 12.3 | 22.2 |

**200107** 1995 $SG_{78}$ 8 10.9 199°.81 1°.2/ 9.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.74 | −16 23.1 | 1.872 | 2.763 | 12.4 | 20.6 |
| 7 20 | 21 41.14 | −17 1.4 | 1.805 | 2.762 | 8.8 | 20.4 |
| 7 30 | 21 33.63 | −17 46.2 | 1.763 | 2.760 | 4.9 | 20.1 |
| 8 9 | 21 24.94 | −18 32.3 | 1.746 | 2.759 | 1.2 | 19.9 |
| 8 19 | 21 16.01 | −19 14.6 | 1.757 | 2.757 | 4.1 | 20.1 |
| 8 29 | 21 7.85 | −19 48.6 | 1.795 | 2.755 | 8.1 | 20.3 |
| 9 8 | 21 1.35 | −20 11.5 | 1.857 | 2.753 | 11.7 | 20.6 |
| 9 18 | 20 57.10 | −20 22.3 | 1.941 | 2.750 | 14.8 | 20.8 |

**260426** 2004 $XT_{98}$ 8 10.9 286°.20 1°.1/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.47 | −16 49.9 | 2.331 | 3.219 | 10.4 | 20.7 |
| 7 20 | 21 38.58 | −17 23.2 | 2.250 | 3.206 | 7.4 | 20.5 |
| 7 30 | 21 32.14 | −18 1.6 | 2.195 | 3.192 | 4.1 | 20.3 |
| 8 9 | 21 24.72 | −18 41.3 | 2.166 | 3.179 | 1.1 | 20.1 |
| 8 19 | 21 17.02 | −19 18.2 | 2.165 | 3.165 | 3.5 | 20.2 |
| 8 29 | 21 9.84 | −19 48.7 | 2.193 | 3.151 | 6.9 | 20.4 |
| 9 8 | 21 3.93 | −20 10.4 | 2.245 | 3.138 | 10.1 | 20.6 |
| 9 18 | 20 59.81 | −20 21.9 | 2.320 | 3.124 | 12.9 | 20.8 |

**340372** 2006 $DQ_{161}$ 8 10.9 151°.20 0°.7/10.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.53 | −15 34.4 | 1.840 | 2.729 | 12.6 | 21.6 |
| 7 20 | 21 41.68 | −16 1.6 | 1.777 | 2.732 | 9.0 | 21.3 |
| 7 30 | 21 33.92 | −16 35.4 | 1.737 | 2.735 | 5.0 | 21.1 |
| 8 9 | 21 25.01 | −17 11.1 | 1.724 | 2.737 | 0.9 | 20.8 |
| 8 19 | 21 15.90 | −17 44.2 | 1.738 | 2.740 | 3.8 | 21.0 |
| 8 29 | 21 7.62 | −18 10.4 | 1.779 | 2.742 | 7.9 | 21.3 |
| 9 8 | 21 1.05 | −18 27.2 | 1.845 | 2.744 | 11.6 | 21.5 |
| 9 18 | 20 56.77 | −18 33.6 | 1.932 | 2.746 | 14.7 | 21.7 |

**9583** 1990 $HL_{1}$ 8 10.9 54°.01 16°.7/27.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.42 | +23 26.8 | 1.339 | 2.059 | 25.0 | 18.0 |
| 7 20 | 21 43.41 | +25 5.4 | 1.309 | 2.090 | 22.7 | 17.9 |
| 7 30 | 21 34.97 | +26 0.4 | 1.292 | 2.122 | 20.4 | 17.8 |
| 8 9 | 21 25.18 | +26 7.5 | 1.291 | 2.153 | 18.4 | 17.8 |
| 8 19 | 21 15.33 | +25 26.8 | 1.306 | 2.185 | 17.1 | 17.8 |
| 8 29 | 21 6.81 | +24 4.5 | 1.341 | 2.217 | 16.7 | 17.9 |
| 9 8 | 21 0.66 | +22 12.4 | 1.394 | 2.249 | 17.3 | 18.0 |
| 9 18 | 20 57.48 | +20 3.7 | 1.466 | 2.281 | 18.5 | 18.2 |

**42285** 2001 $TN_{40}$ 8 10.9 254°.38 0°.8/11.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.47 | −12 38.7 | 1.433 | 2.323 | 15.5 | 18.8 |
| 7 20 | 21 44.38 | −12 43.5 | 1.359 | 2.313 | 11.4 | 18.5 |
| 7 30 | 21 35.71 | −12 58.9 | 1.307 | 2.302 | 6.6 | 18.2 |
| 8 9 | 21 25.34 | −13 21.2 | 1.279 | 2.292 | 1.5 | 17.8 |
| 8 19 | 21 14.50 | −13 45.4 | 1.277 | 2.281 | 4.2 | 18.0 |
| 8 29 | 21 4.59 | −14 6.7 | 1.300 | 2.270 | 9.4 | 18.3 |
| 9 8 | 20 56.86 | −14 21.2 | 1.346 | 2.259 | 14.1 | 18.5 |
| 9 18 | 20 52.09 | −14 26.8 | 1.412 | 2.247 | 18.1 | 18.7 |

**199157** 2005 $YN_{170}$ 8 10.9 0°.66 2°.0/12.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.57 | − 8 25.1 | 1.626 | 2.506 | 14.5 | 20.8 |
| 7 20 | 21 40.48 | − 8 44.0 | 1.560 | 2.506 | 10.8 | 20.5 |
| 7 30 | 21 33.35 | − 9 17.3 | 1.515 | 2.506 | 6.5 | 20.3 |
| 8 9 | 21 24.95 | −10 1.5 | 1.496 | 2.506 | 2.5 | 20.0 |
| 8 19 | 21 16.26 | −10 51.6 | 1.502 | 2.506 | 3.8 | 20.1 |
| 8 29 | 21 8.41 | −11 41.7 | 1.534 | 2.506 | 8.0 | 20.4 |
| 9 8 | 21 2.34 | −12 26.8 | 1.591 | 2.506 | 12.1 | 20.6 |
| 9 18 | 20 58.68 | −13 3.1 | 1.668 | 2.507 | 15.6 | 20.9 |

**135584** 2002 $GQ_{100}$ 8 10.9 8°.53 4°.2/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.52 | −22 6.1 | 0.962 | 1.891 | 17.7 | 18.6 |
| 7 20 | 21 42.13 | −22 35.4 | 0.918 | 1.891 | 12.7 | 18.4 |
| 7 30 | 21 34.58 | −23 6.5 | 0.893 | 1.894 | 7.5 | 18.1 |
| 8 9 | 21 25.15 | −23 30.3 | 0.888 | 1.897 | 4.2 | 17.9 |
| 8 19 | 21 15.54 | −23 39.5 | 0.905 | 1.902 | 7.5 | 18.1 |
| 8 29 | 21 7.54 | −23 29.9 | 0.943 | 1.909 | 12.6 | 18.4 |
| 9 8 | 21 2.50 | −23 1.7 | 1.000 | 1.916 | 17.4 | 18.7 |
| 9 18 | 21 1.03 | −22 17.4 | 1.073 | 1.925 | 21.3 | 19.0 |

**302163** 2001 $SM_{346}$ 8 10.9 342°.21 8°.9/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 40.83 | + 8 29.9 | 1.646 | 2.458 | 17.5 | 20.0 |
| 7 20 | 21 37.15 | + 8 51.9 | 1.569 | 2.450 | 14.9 | 19.8 |
| 7 30 | 21 31.54 | + 8 46.5 | 1.511 | 2.442 | 12.1 | 19.6 |
| 8 9 | 21 24.67 | + 8 12.2 | 1.474 | 2.435 | 9.8 | 19.4 |
| 8 19 | 21 17.42 | + 7 10.7 | 1.460 | 2.428 | 8.9 | 19.4 |
| 8 29 | 21 10.84 | + 5 47.3 | 1.470 | 2.423 | 10.1 | 19.4 |
| 9 8 | 21 5.86 | + 4 10.4 | 1.502 | 2.418 | 12.7 | 19.6 |
| 9 18 | 21 3.16 | + 2 29.2 | 1.557 | 2.414 | 15.5 | 19.7 |

**170610** 2003 $YG_{44}$ 8 10.9 138°.35 0°.5/11.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.23 | −12 36.1 | 2.000 | 2.880 | 12.2 | 20.4 |
| 7 20 | 21 40.62 | −12 52.8 | 1.934 | 2.883 | 8.8 | 20.2 |
| 7 30 | 21 33.30 | −13 17.6 | 1.892 | 2.886 | 5.0 | 20.0 |
| 8 9 | 21 24.94 | −13 47.1 | 1.876 | 2.889 | 1.0 | 19.7 |
| 8 19 | 21 16.40 | −14 17.5 | 1.888 | 2.891 | 3.2 | 19.9 |
| 8 29 | 21 8.59 | −14 44.8 | 1.927 | 2.894 | 7.1 | 20.2 |
| 9 8 | 21 2.31 | −15 6.2 | 1.992 | 2.896 | 10.6 | 20.4 |
| 9 18 | 20 58.09 | −15 19.8 | 2.079 | 2.899 | 13.6 | 20.6 |

**405841** 2006 $BF_{212}$ 8 10.9 234°.28 1°.3/12.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.94 | − 7 24.8 | 2.778 | 3.636 | 9.9 | 21.7 |
| 7 20 | 21 37.28 | − 8 9.5 | 2.690 | 3.625 | 7.3 | 21.5 |
| 7 30 | 21 31.36 | − 9 4.8 | 2.627 | 3.614 | 4.5 | 21.3 |
| 8 9 | 21 24.64 | −10 8.0 | 2.592 | 3.602 | 1.7 | 21.1 |
| 8 19 | 21 17.66 | −11 15.4 | 2.587 | 3.590 | 2.5 | 21.1 |
| 8 29 | 21 11.08 | −12 22.9 | 2.611 | 3.578 | 5.5 | 21.3 |
| 9 8 | 21 5.47 | −13 26.4 | 2.663 | 3.566 | 8.3 | 21.5 |
| 9 18 | 21 1.30 | −14 23.0 | 2.740 | 3.553 | 10.9 | 21.6 |

**260352** 2004 $TJ_{308}$ 8 10.9 287°.48 2°.4/12.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.60 | − 7 30.8 | 2.253 | 3.116 | 11.7 | 20.5 |
| 7 20 | 21 39.39 | − 7 23.1 | 2.170 | 3.105 | 8.8 | 20.3 |
| 7 30 | 21 32.61 | − 7 25.5 | 2.110 | 3.094 | 5.6 | 20.1 |
| 8 9 | 21 24.84 | − 7 36.4 | 2.076 | 3.083 | 2.8 | 19.9 |
| 8 19 | 21 16.79 | − 7 53.6 | 2.071 | 3.072 | 3.4 | 19.9 |
| 8 29 | 21 9.28 | − 8 14.2 | 2.093 | 3.061 | 6.5 | 20.1 |
| 9 8 | 21 3.04 | − 8 34.8 | 2.141 | 3.050 | 9.7 | 20.3 |
| 9 18 | 20 58.63 | − 8 52.9 | 2.212 | 3.039 | 12.6 | 20.5 |

**204107** 2003 $WN_{129}$ 8 10.9 280°.32 2°.2/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.58 | − 8 17.2 | 1.835 | 2.708 | 13.4 | 20.3 |
| 7 20 | 21 40.34 | − 8 23.9 | 1.761 | 2.704 | 10.0 | 20.0 |
| 7 30 | 21 33.23 | − 8 43.0 | 1.711 | 2.699 | 6.2 | 19.8 |
| 8 9 | 21 24.95 | − 9 12.0 | 1.686 | 2.695 | 2.6 | 19.6 |
| 8 19 | 21 16.37 | − 9 47.1 | 1.688 | 2.691 | 3.6 | 19.6 |
| 8 29 | 21 8.51 | −10 23.8 | 1.716 | 2.686 | 7.5 | 19.9 |
| 9 8 | 21 2.24 | −10 57.9 | 1.769 | 2.682 | 11.2 | 20.1 |
| 9 18 | 20 58.17 | −11 26.0 | 1.844 | 2.678 | 14.5 | 20.3 |

**124234** 2001 $PP_{41}$ 8 10.9 290°.44 1°.5/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.88 | −17 6.1 | 1.242 | 2.149 | 16.2 | 19.4 |
| 7 20 | 21 44.31 | −17 28.2 | 1.173 | 2.136 | 11.7 | 19.1 |
| 7 30 | 21 35.83 | −17 58.4 | 1.124 | 2.124 | 6.6 | 18.8 |
| 8 9 | 21 25.41 | −18 30.3 | 1.099 | 2.112 | 1.7 | 18.4 |
| 8 19 | 21 14.45 | −18 57.0 | 1.098 | 2.100 | 5.4 | 18.7 |
| 8 29 | 21 4.58 | −19 13.0 | 1.121 | 2.088 | 10.9 | 18.9 |
| 9 8 | 20 57.20 | −19 15.2 | 1.165 | 2.076 | 15.9 | 19.2 |
| 9 18 | 20 53.17 | −19 3.5 | 1.227 | 2.065 | 20.1 | 19.4 |

**331323** 2011 $WE_{118}$ 8 10.9 30°.43 3°.6/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.39 | − 3 27.4 | 1.957 | 2.813 | 13.4 | 20.4 |
| 7 20 | 21 38.63 | − 3 36.4 | 1.887 | 2.815 | 10.3 | 20.2 |
| 7 30 | 21 32.22 | − 4 1.0 | 1.840 | 2.817 | 7.0 | 20.0 |
| 8 9 | 21 24.79 | − 4 39.4 | 1.818 | 2.819 | 4.1 | 19.8 |
| 8 19 | 21 17.14 | − 5 27.8 | 1.823 | 2.822 | 4.1 | 19.8 |
| 8 29 | 21 10.16 | − 6 21.6 | 1.855 | 2.824 | 7.1 | 20.0 |
| 9 8 | 21 4.61 | − 7 15.5 | 1.911 | 2.827 | 10.4 | 20.2 |
| 9 18 | 21 1.04 | − 8 5.1 | 1.991 | 2.830 | 13.4 | 20.4 |

**21003** 1987 $YV_{1}$ 8 10.9 290°.76 1°.2/ 9.8 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.73 | −13 31.3 | 1.688 | 2.582 | 13.3 | 18.2 |
| 7 20 | 21 39.36 | −14 52.9 | 1.606 | 2.565 | 9.6 | 17.9 |
| 7 30 | 21 32.88 | −16 28.8 | 1.548 | 2.547 | 5.3 | 17.6 |
| 8 9 | 21 24.93 | −18 12.0 | 1.516 | 2.529 | 1.3 | 17.3 |
| 8 19 | 21 16.46 | −19 54.0 | 1.511 | 2.511 | 4.6 | 17.5 |
| 8 29 | 21 8.60 | −21 26.2 | 1.533 | 2.494 | 9.1 | 17.7 |
| 9 8 | 21 2.41 | −22 42.4 | 1.579 | 2.476 | 13.3 | 17.9 |
| 9 18 | 20 58.65 | −23 39.4 | 1.645 | 2.459 | 16.9 | 18.1 |

**219136** 1998 $VC_{47}$ 8 10.9 167°.16 1°.2/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.81 | −16 28.9 | 1.870 | 2.758 | 12.5 | 21.3 |
| 7 20 | 21 42.62 | −17 8.7 | 1.807 | 2.762 | 8.9 | 21.1 |
| 7 30 | 21 34.48 | −17 54.6 | 1.768 | 2.765 | 4.9 | 20.9 |
| 8 9 | 21 25.16 | −18 41.4 | 1.756 | 2.768 | 1.3 | 20.6 |
| 8 19 | 21 15.63 | −19 23.8 | 1.771 | 2.771 | 4.1 | 20.8 |
| 8 29 | 21 6.93 | −19 57.3 | 1.813 | 2.772 | 8.1 | 21.1 |
| 9 8 | 20 59.96 | −20 19.5 | 1.881 | 2.774 | 11.7 | 21.3 |
| 9 18 | 20 55.31 | −20 29.6 | 1.970 | 2.774 | 14.8 | 21.5 |

**250297** 2003 $QT_{15}$ 8 10.9 341°.49 1°.2/11.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.98 | −13 28.4 | 1.090 | 2.000 | 17.7 | 19.2 |
| 7 20 | 21 43.05 | −13 6.7 | 1.028 | 1.991 | 13.0 | 18.9 |
| 7 30 | 21 35.14 | −12 55.4 | 0.984 | 1.983 | 7.6 | 18.6 |
| 8 9 | 21 25.31 | −12 51.3 | 0.963 | 1.976 | 1.9 | 18.2 |
| 8 19 | 21 15.02 | −12 50.4 | 0.964 | 1.969 | 4.8 | 18.4 |
| 8 29 | 21 5.97 | −12 48.3 | 0.988 | 1.964 | 10.6 | 18.7 |
| 9 8 | 20 59.56 | −12 41.8 | 1.032 | 1.960 | 15.9 | 19.0 |
| 9 18 | 20 56.58 | −12 28.6 | 1.094 | 1.957 | 20.3 | 19.3 |

**364515** 2007 $EF_{132}$ 8 10.9 165°.53 3°.2/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.10 | − 1 38.5 | 2.641 | 3.476 | 11.0 | 21.9 |
| 7 20 | 21 37.37 | − 2 2.1 | 2.565 | 3.479 | 8.5 | 21.7 |
| 7 30 | 21 31.40 | − 2 39.2 | 2.512 | 3.481 | 5.9 | 21.6 |
| 8 9 | 21 24.67 | − 3 27.9 | 2.487 | 3.483 | 3.6 | 21.4 |
| 8 19 | 21 17.77 | − 4 25.2 | 2.490 | 3.485 | 3.5 | 21.4 |
| 8 29 | 21 11.33 | − 5 27.1 | 2.521 | 3.487 | 5.7 | 21.6 |
| 9 8 | 21 5.95 | − 6 29.4 | 2.580 | 3.489 | 8.3 | 21.7 |
| 9 18 | 21 2.06 | − 7 28.3 | 2.663 | 3.490 | 10.7 | 21.9 |

**115925** 2003 $WZ_{14}$ 8 10.9 81°.50 2°.1/ 9.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.18 | −17 48.4 | 1.384 | 2.286 | 15.2 | 19.9 |
| 7 20 | 21 43.91 | −18 35.8 | 1.342 | 2.303 | 10.7 | 19.7 |
| 7 30 | 21 35.26 | −19 29.0 | 1.321 | 2.320 | 5.9 | 19.5 |
| 8 9 | 21 25.29 | −20 20.5 | 1.325 | 2.337 | 2.2 | 19.3 |
| 8 19 | 21 15.27 | −21 3.5 | 1.355 | 2.354 | 5.3 | 19.6 |
| 8 29 | 21 6.53 | −21 32.9 | 1.410 | 2.370 | 9.8 | 19.9 |
| 9 8 | 21 0.12 | −21 47.0 | 1.488 | 2.387 | 13.9 | 20.1 |
| 9 18 | 20 56.57 | −21 46.0 | 1.585 | 2.403 | 17.2 | 20.4 |

**416620** 2004 $RK_{162}$ 8 10.9 271°.92 1°.2/11.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.52 | −12 8.6 | 1.386 | 2.277 | 15.9 | 21.3 |
| 7 20 | 21 44.59 | −12 7.6 | 1.307 | 2.260 | 11.7 | 21.0 |
| 7 30 | 21 35.95 | −12 17.9 | 1.249 | 2.244 | 6.9 | 20.6 |
| 8 9 | 21 25.46 | −12 36.1 | 1.214 | 2.227 | 1.8 | 20.3 |
| 8 19 | 21 14.34 | −12 57.5 | 1.205 | 2.210 | 4.4 | 20.4 |
| 8 29 | 21 4.10 | −13 17.2 | 1.221 | 2.192 | 9.7 | 20.7 |
| 9 8 | 20 56.07 | −13 31.1 | 1.260 | 2.175 | 14.7 | 20.9 |
| 9 18 | 20 51.12 | −13 36.6 | 1.318 | 2.157 | 18.9 | 21.1 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **498426** 2008 $AE_{49}$ | | | 8 10.9 210°.95 | 0°.4/10.6 17 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 49.75 | −14 19.3 | 1.830 | 2.713 | 13.0 | 23.0 |
| 7 20 | 21 43.43 | −14 51.2 | 1.755 | 2.707 | 9.4 | 22.8 |
| 7 30 | 21 35.02 | −15 31.5 | 1.704 | 2.700 | 5.2 | 22.5 |
| 8 9 | 21 25.28 | −16 15.4 | 1.679 | 2.692 | 0.8 | 22.2 |
| 8 19 | 21 15.18 | −16 57.8 | 1.682 | 2.684 | 3.8 | 22.4 |
| 8 29 | 21 5.83 | −17 33.9 | 1.712 | 2.675 | 8.2 | 22.7 |
| 9 8 | 20 58.23 | −18 0.4 | 1.768 | 2.665 | 12.1 | 22.9 |
| 9 18 | 20 53.04 | −18 15.7 | 1.844 | 2.655 | 15.4 | 23.1 |
| **104467** 2000 $GR_{14}$ | | | 8 10.9 120°.89 | 0°.7/10.4 17 | | |
| 7 10 | 21 48.74 | −14 49.2 | 1.689 | 2.579 | 13.6 | 20.8 |
| 7 20 | 21 42.64 | −15 25.3 | 1.634 | 2.589 | 9.7 | 20.6 |
| 7 30 | 21 34.50 | −16 9.3 | 1.602 | 2.599 | 5.3 | 20.3 |
| 8 9 | 21 25.18 | −16 55.8 | 1.595 | 2.609 | 0.9 | 20.0 |
| 8 19 | 21 15.70 | −17 39.2 | 1.616 | 2.618 | 4.0 | 20.3 |
| 8 29 | 21 7.18 | −18 14.8 | 1.663 | 2.627 | 8.3 | 20.6 |
| 9 8 | 21 0.55 | −18 39.6 | 1.735 | 2.636 | 12.1 | 20.8 |
| 9 18 | 20 56.37 | −18 52.5 | 1.828 | 2.644 | 15.3 | 21.1 |
| **397736** 2008 $ER_{134}$ | | | 8 10.9 16°.42 | 1°.2/10.0 18 | | |
| 7 10 | 21 42.11 | −15 59.7 | 1.423 | 2.332 | 14.3 | 20.0 |
| 7 20 | 21 38.13 | −16 38.2 | 1.377 | 2.342 | 10.2 | 19.8 |
| 7 30 | 21 32.05 | −17 24.6 | 1.352 | 2.353 | 5.6 | 19.6 |
| 8 9 | 21 24.78 | −18 12.8 | 1.352 | 2.364 | 1.3 | 19.3 |
| 8 19 | 21 17.39 | −18 56.5 | 1.376 | 2.378 | 4.5 | 19.6 |
| 8 29 | 21 11.03 | −19 30.4 | 1.424 | 2.392 | 9.0 | 19.9 |
| 9 8 | 21 6.62 | −19 51.3 | 1.496 | 2.407 | 13.0 | 20.1 |
| 9 18 | 21 4.69 | −19 58.3 | 1.587 | 2.424 | 16.3 | 20.4 |
| **390916** 2005 $EF_{188}$ | | | 8 10.9 327°.67 | 3°.0/ 8.8 18 | | |
| 7 10 | 21 47.64 | −21 56.3 | 1.811 | 2.710 | 12.3 | 20.7 |
| 7 20 | 21 41.88 | −22 30.7 | 1.748 | 2.708 | 8.8 | 20.5 |
| 7 30 | 21 34.11 | −23 6.2 | 1.710 | 2.706 | 5.2 | 20.3 |
| 8 9 | 21 25.12 | −23 37.3 | 1.697 | 2.704 | 3.0 | 20.1 |
| 8 19 | 21 15.92 | −23 59.0 | 1.710 | 2.703 | 5.3 | 20.3 |
| 8 29 | 21 7.59 | −24 8.1 | 1.750 | 2.701 | 9.0 | 20.5 |
| 9 8 | 21 1.07 | −24 3.5 | 1.814 | 2.699 | 12.5 | 20.7 |
| 9 18 | 20 56.95 | −23 45.8 | 1.898 | 2.698 | 15.4 | 20.9 |
| **509503** 2007 $UO_{116}$ | | | 8 10.9 299°.24 | 2°.9/ 8.7 18 | | |
| 7 10 | 21 45.93 | −20 47.8 | 1.793 | 2.693 | 12.3 | 21.1 |
| 7 20 | 21 40.75 | −21 37.8 | 1.725 | 2.686 | 8.8 | 20.8 |
| 7 30 | 21 33.53 | −22 31.2 | 1.681 | 2.679 | 5.1 | 20.6 |
| 8 9 | 21 25.04 | −23 21.7 | 1.663 | 2.671 | 2.9 | 20.4 |
| 8 19 | 21 16.23 | −24 3.6 | 1.672 | 2.664 | 5.4 | 20.6 |
| 8 29 | 21 8.21 | −24 32.2 | 1.706 | 2.657 | 9.2 | 20.8 |
| 9 8 | 21 1.94 | −24 45.5 | 1.764 | 2.650 | 12.7 | 21.0 |
| 9 18 | 20 58.04 | −24 43.5 | 1.842 | 2.643 | 15.8 | 21.2 |
| **440930** 2006 $XA_{21}$ | | | 8 10.9 332°.81 | 3°.2/12.9 18 | | |
| 7 10 | 21 45.24 | − 6 38.2 | 1.859 | 2.726 | 13.5 | 20.3 |
| 7 20 | 21 40.09 | − 6 19.0 | 1.783 | 2.719 | 10.3 | 20.1 |
| 7 30 | 21 33.11 | − 6 12.1 | 1.730 | 2.713 | 6.7 | 19.9 |
| 8 9 | 21 24.97 | − 6 16.2 | 1.702 | 2.706 | 3.7 | 19.7 |
| 8 19 | 21 16.54 | − 6 29.1 | 1.700 | 2.701 | 4.1 | 19.7 |
| 8 29 | 21 8.79 | − 6 47.4 | 1.725 | 2.695 | 7.5 | 19.9 |
| 9 8 | 21 2.60 | − 7 7.3 | 1.775 | 2.690 | 11.1 | 20.1 |
| 9 18 | 20 58.56 | − 7 25.4 | 1.847 | 2.685 | 14.3 | 20.3 |
| **523196** 2016 $UG_{149}$ | | | 8 10.9 228°.13 | 1°.5/12.2 18 | | |
| 7 10 | 21 44.13 | − 8 48.6 | 2.431 | 3.296 | 10.9 | 21.5 |
| 7 20 | 21 38.97 | − 9 5.8 | 2.350 | 3.288 | 8.0 | 21.3 |
| 7 30 | 21 32.36 | − 9 32.8 | 2.293 | 3.280 | 4.9 | 21.1 |
| 8 9 | 21 24.85 | −10 6.9 | 2.263 | 3.272 | 1.9 | 20.9 |
| 8 19 | 21 17.08 | −10 45.2 | 2.261 | 3.264 | 2.8 | 20.9 |
| 8 29 | 21 9.82 | −11 23.9 | 2.288 | 3.256 | 6.1 | 21.1 |
| 9 8 | 21 3.74 | −11 59.8 | 2.341 | 3.247 | 9.2 | 21.3 |
| 9 18 | 20 59.34 | −12 30.1 | 2.418 | 3.237 | 11.9 | 21.5 |
| **261530** 2005 $WN_{95}$ | | | 8 10.9 67°.07 | 3°.9/ 7.4 18 | | |
| 7 10 | 21 45.09 | −24 38.5 | 2.110 | 3.009 | 10.8 | 20.8 |
| 7 20 | 21 39.80 | −25 41.8 | 2.063 | 3.021 | 7.8 | 20.6 |
| 7 30 | 21 32.83 | −26 44.0 | 2.041 | 3.033 | 5.0 | 20.5 |
| 8 9 | 21 24.91 | −27 39.1 | 2.046 | 3.045 | 4.0 | 20.4 |
| 8 19 | 21 16.88 | −28 22.3 | 2.078 | 3.057 | 5.8 | 20.6 |
| 8 29 | 21 9.63 | −28 50.4 | 2.137 | 3.070 | 8.6 | 20.8 |
| 9 8 | 21 3.94 | −29 2.3 | 2.219 | 3.082 | 11.4 | 21.0 |
| 9 18 | 21 0.29 | −28 59.1 | 2.322 | 3.095 | 13.8 | 21.2 |
| **47110** 1999 $CK_{44}$ | | | 8 10.9 252°.07 | 4°.1/ 7.3 18 | | |
| 7 10 | 21 47.79 | −25 54.0 | 2.225 | 3.117 | 10.6 | 19.4 |
| 7 20 | 21 41.88 | −26 46.6 | 2.148 | 3.102 | 7.8 | 19.2 |
| 7 30 | 21 34.11 | −27 38.1 | 2.097 | 3.086 | 5.2 | 19.0 |
| 8 9 | 21 25.14 | −28 22.9 | 2.072 | 3.069 | 4.2 | 18.9 |
| 8 19 | 21 15.83 | −28 56.0 | 2.075 | 3.052 | 6.0 | 19.0 |
| 8 29 | 21 7.15 | −29 14.0 | 2.106 | 3.035 | 8.9 | 19.1 |
| 9 8 | 20 59.99 | −29 15.8 | 2.160 | 3.018 | 11.9 | 19.3 |
| 9 18 | 20 54.96 | −29 2.5 | 2.235 | 3.000 | 14.5 | 19.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **50486** 2000 $DY_{84}$ | | | 8 10.9 251°.49 | 3°.2/ 8.9 18 | | |
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 50.51 | −21 33.0 | 1.696 | 2.593 | 13.1 | 20.1 |
| 7 20 | 21 44.23 | −22 12.6 | 1.621 | 2.579 | 9.5 | 19.8 |
| 7 30 | 21 35.58 | −22 54.6 | 1.569 | 2.565 | 5.6 | 19.6 |
| 8 9 | 21 25.40 | −23 32.7 | 1.543 | 2.551 | 3.2 | 19.4 |
| 8 19 | 21 14.78 | −24 0.8 | 1.544 | 2.536 | 5.7 | 19.5 |
| 8 29 | 21 5.00 | −24 14.8 | 1.571 | 2.521 | 9.8 | 19.7 |
| 9 8 | 20 57.20 | −24 13.0 | 1.621 | 2.506 | 13.7 | 19.9 |
| 9 18 | 20 52.10 | −23 56.4 | 1.691 | 2.490 | 17.1 | 20.1 |
| **190627** 2000 $WP_{94}$ | | | 8 10.9 319°.67 | 9°.5/15.8 18 | | |
| 7 10 | 21 45.20 | + 4 30.2 | 1.469 | 2.304 | 18.1 | 18.8 |
| 7 20 | 21 40.63 | + 5 39.7 | 1.387 | 2.285 | 15.3 | 18.5 |
| 7 30 | 21 33.70 | + 6 27.2 | 1.323 | 2.267 | 12.4 | 18.3 |
| 8 9 | 21 25.11 | + 6 48.9 | 1.281 | 2.250 | 10.1 | 18.1 |
| 8 19 | 21 15.90 | + 6 43.7 | 1.261 | 2.233 | 9.6 | 18.1 |
| 8 29 | 21 7.35 | + 6 14.0 | 1.264 | 2.217 | 11.5 | 18.1 |
| 9 8 | 21 0.66 | + 5 26.4 | 1.289 | 2.201 | 14.6 | 18.3 |
| 9 18 | 20 56.67 | + 4 28.8 | 1.333 | 2.186 | 17.9 | 18.5 |
| **513469** 2009 $BG_{181}$ | | | 8 10.9 298°.37 | 1°.0/11.7 18 | | |
| 7 10 | 21 43.86 | − 8 43.4 | 1.703 | 2.584 | 13.9 | 20.8 |
| 7 20 | 21 39.56 | − 9 38.3 | 1.603 | 2.552 | 10.3 | 20.5 |
| 7 30 | 21 33.09 | −10 51.8 | 1.526 | 2.519 | 6.2 | 20.2 |
| 8 9 | 21 25.03 | −12 19.6 | 1.474 | 2.487 | 1.7 | 19.8 |
| 8 19 | 21 16.27 | −13 55.0 | 1.449 | 2.454 | 3.8 | 19.9 |
| 8 29 | 21 7.94 | −15 29.8 | 1.451 | 2.421 | 8.6 | 20.1 |
| 9 8 | 21 1.18 | −16 56.2 | 1.477 | 2.387 | 13.2 | 20.3 |
| 9 18 | 20 56.83 | −18 8.7 | 1.524 | 2.354 | 17.2 | 20.5 |
| **179715** 2002 $RR_{62}$ | | | 8 10.9 331°.90 | 1°.3/11.7 18 | | |
| 7 10 | 21 39.56 | − 9 15.6 | 1.070 | 1.983 | 17.7 | 18.9 |
| 7 20 | 21 37.14 | − 9 55.4 | 0.996 | 1.961 | 13.2 | 18.5 |
| 7 30 | 21 31.97 | −10 58.7 | 0.941 | 1.940 | 7.9 | 18.2 |
| 8 9 | 21 24.86 | −12 20.4 | 0.907 | 1.920 | 2.2 | 17.8 |
| 8 19 | 21 17.04 | −13 51.3 | 0.895 | 1.901 | 4.8 | 17.9 |
| 8 29 | 21 10.11 | −15 20.1 | 0.905 | 1.884 | 10.8 | 18.1 |
| 9 8 | 21 5.52 | −16 36.6 | 0.935 | 1.869 | 16.4 | 18.4 |
| 9 18 | 21 4.23 | −17 34.2 | 0.982 | 1.855 | 21.2 | 18.6 |
| **92192** 1999 $XY_{227}$ | | | 8 10.9 170°.94 | 0°.8/11.7 18 | | |
| 7 10 | 21 44.13 | −11 2.1 | 2.992 | 3.856 | 9.1 | 20.0 |
| 7 20 | 21 38.68 | −11 15.6 | 2.919 | 3.859 | 6.6 | 19.9 |
| 7 30 | 21 32.09 | −11 35.3 | 2.872 | 3.862 | 3.9 | 19.7 |
| 8 9 | 21 24.81 | −11 59.1 | 2.853 | 3.864 | 1.2 | 19.5 |
| 8 19 | 21 17.41 | −12 24.5 | 2.863 | 3.866 | 2.3 | 19.6 |
| 8 29 | 21 10.46 | −12 49.1 | 2.903 | 3.868 | 5.1 | 19.8 |
| 9 8 | 21 4.51 | −13 10.6 | 2.971 | 3.869 | 7.7 | 20.0 |
| 9 18 | 20 59.95 | −13 27.5 | 3.063 | 3.870 | 10.0 | 20.1 |
| **42106** 2001 $AB_{38}$ | | | 8 10.9 232°.42 | 4°.5/ 6.3 18 | | |
| 7 10 | 21 47.07 | −29 53.5 | 2.710 | 3.596 | 9.2 | 20.1 |
| 7 20 | 21 41.09 | −30 42.7 | 2.639 | 3.585 | 6.9 | 19.9 |
| 7 30 | 21 33.56 | −31 28.0 | 2.594 | 3.573 | 5.1 | 19.8 |
| 8 9 | 21 25.06 | −32 4.7 | 2.577 | 3.561 | 4.6 | 19.7 |
| 8 19 | 21 16.33 | −32 28.9 | 2.588 | 3.549 | 6.0 | 19.8 |
| 8 29 | 21 8.18 | −32 38.3 | 2.625 | 3.536 | 8.2 | 19.9 |
| 9 8 | 21 1.32 | −32 32.8 | 2.688 | 3.523 | 10.5 | 20.0 |
| 9 18 | 20 56.28 | −32 13.3 | 2.772 | 3.509 | 12.6 | 20.2 |
| **337299** 2000 $YQ_{8}$ | | | 8 10.9 317°.64 | 7°.1/14.2 18 | | |
| 7 10 | 21 47.61 | − 0 43.4 | 1.522 | 2.374 | 16.8 | 20.0 |
| 7 20 | 21 42.26 | + 0 21.6 | 1.441 | 2.359 | 13.6 | 19.7 |
| 7 30 | 21 34.56 | + 1 9.6 | 1.381 | 2.344 | 10.2 | 19.5 |
| 8 9 | 21 25.27 | + 1 38.4 | 1.344 | 2.330 | 7.6 | 19.3 |
| 8 19 | 21 15.43 | + 1 47.7 | 1.331 | 2.316 | 7.5 | 19.3 |
| 8 29 | 21 6.33 | + 1 39.7 | 1.342 | 2.303 | 10.1 | 19.4 |
| 9 8 | 20 59.10 | + 1 19.4 | 1.376 | 2.290 | 13.7 | 19.6 |
| 9 18 | 20 54.54 | + 0 52.7 | 1.431 | 2.278 | 17.2 | 19.8 |
| **48470** 1991 $TC_{2}$ | | | 8 10.9 236°.38 | 20°.2/27.9 18 | | |
| 7 10 | 22 19.16 | −58 19.2 | 1.278 | 2.095 | 21.3 | 18.0 |
| 7 20 | 22 7.86 | −60 16.8 | 1.246 | 2.086 | 20.4 | 17.9 |
| 7 30 | 21 49.90 | −61 36.4 | 1.230 | 2.076 | 20.2 | 17.8 |
| 8 9 | 21 27.75 | −62 0.4 | 1.230 | 2.066 | 20.7 | 17.8 |
| 8 19 | 21 5.58 | −61 20.4 | 1.247 | 2.055 | 21.9 | 17.9 |
| 8 29 | 20 47.61 | −59 40.8 | 1.278 | 2.043 | 23.5 | 18.0 |
| 9 8 | 20 36.11 | −57 15.7 | 1.323 | 2.031 | 25.3 | 18.1 |
| 9 18 | 20 31.28 | −54 20.5 | 1.380 | 2.019 | 26.9 | 18.2 |
| **73813** 1995 $UZ_{57}$ | | | 8 10.9 159°.76 | 0°.1/10.8 18 | | |
| 7 10 | 21 49.26 | −13 36.5 | 1.756 | 2.640 | 13.4 | 21.0 |
| 7 20 | 21 43.03 | −14 6.5 | 1.693 | 2.645 | 9.6 | 20.8 |
| 7 30 | 21 34.76 | −14 45.2 | 1.654 | 2.650 | 5.4 | 20.5 |
| 8 9 | 21 25.28 | −15 27.9 | 1.640 | 2.654 | 0.9 | 20.2 |
| 8 19 | 21 15.57 | −16 9.5 | 1.655 | 2.657 | 3.7 | 20.5 |
| 8 29 | 21 6.75 | −16 45.3 | 1.696 | 2.660 | 8.1 | 20.7 |
| 9 8 | 20 59.74 | −17 11.8 | 1.762 | 2.663 | 11.9 | 21.0 |
| 9 18 | 20 55.14 | −17 27.7 | 1.849 | 2.665 | 15.2 | 21.2 |

**293464** 2007 $EN_{205}$ 8 10.9 182°.63 0°.9/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 44.15 | −16 34.7 | 2.628 | 3.510 | 9.5 | 21.4 |
| 7 20 | 21 38.89 | −17 7.3 | 2.558 | 3.510 | 6.8 | 21.2 |
| 7 30 | 21 32.28 | −17 44.2 | 2.514 | 3.510 | 3.7 | 21.0 |
| 8 9 | 21 24.88 | −18 21.9 | 2.498 | 3.510 | 0.9 | 20.8 |
| 8 19 | 21 17.30 | −18 56.8 | 2.510 | 3.510 | 3.1 | 20.9 |
| 8 29 | 21 10.26 | −19 26.1 | 2.551 | 3.509 | 6.2 | 21.1 |
| 9 8 | 21 4.36 | −19 47.5 | 2.619 | 3.508 | 9.0 | 21.3 |
| 9 18 | 21 0.08 | −20 0.0 | 2.710 | 3.506 | 11.4 | 21.5 |

**351977** 2006 $UB_{70}$ 8 10.9 276°.59 3°.1/ 9.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.36 | −20 31.6 | 1.494 | 2.397 | 14.2 | 21.3 |
| 7 20 | 21 43.62 | −21 12.3 | 1.424 | 2.385 | 10.2 | 21.0 |
| 7 30 | 21 35.34 | −21 57.0 | 1.376 | 2.373 | 5.9 | 20.7 |
| 8 9 | 21 25.42 | −22 38.8 | 1.352 | 2.361 | 3.1 | 20.5 |
| 8 19 | 21 15.04 | −23 11.1 | 1.354 | 2.349 | 5.9 | 20.7 |
| 8 29 | 21 5.61 | −23 28.7 | 1.381 | 2.337 | 10.4 | 20.9 |
| 9 8 | 20 58.33 | −23 29.9 | 1.431 | 2.325 | 14.6 | 21.1 |
| 9 18 | 20 53.98 | −23 15.2 | 1.500 | 2.313 | 18.2 | 21.3 |

**29005** 2784 *P–L* 8 10.9 85°.38 0°.4/10.6 18

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|---|---|---|---|---|---|---|
| 7 10 | 21 43.94 | −14 25.6 | 2.218 | 3.102 | 11.0 | 19.3 |
| 7 20 | 21 38.90 | −15 0.2 | 2.155 | 3.108 | 7.8 | 19.1 |
| 7 30 | 21 32.34 | −15 41.4 | 2.117 | 3.114 | 4.3 | 18.9 |
| 8 9 | 21 24.90 | −16 25.2 | 2.106 | 3.119 | 0.7 | 18.6 |
| 8 19 | 21 17.29 | −17 7.5 | 2.123 | 3.125 | 3.2 | 18.8 |
| 8 29 | 21 10.34 | −17 44.4 | 2.168 | 3.131 | 6.7 | 19.1 |
| 9 8 | 21 4.72 | −18 13.2 | 2.238 | 3.136 | 9.9 | 19.3 |
| 9 18 | 21 0.94 | −18 32.4 | 2.331 | 3.142 | 12.6 | 19.5 |

**49045** 1998 $RC_{17}$ 8 10.9 318°.72 1°.6/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.92 | −10 12.2 | 1.232 | 2.134 | 16.7 | 19.2 |
| 7 20 | 21 40.08 | −10 27.5 | 1.154 | 2.112 | 12.4 | 18.9 |
| 7 30 | 21 33.56 | −10 59.9 | 1.095 | 2.091 | 7.4 | 18.5 |
| 8 9 | 21 25.16 | −11 45.6 | 1.058 | 2.070 | 2.3 | 18.2 |
| 8 19 | 21 16.06 | −12 38.6 | 1.045 | 2.051 | 4.5 | 18.3 |
| 8 29 | 21 7.79 | −13 31.1 | 1.055 | 2.031 | 10.1 | 18.5 |
| 9 8 | 21 1.72 | −14 16.1 | 1.086 | 2.013 | 15.3 | 18.7 |
| 9 18 | 20 58.76 | −14 49.0 | 1.136 | 1.996 | 19.9 | 19.0 |

**230341** 2002 $CF_{215}$ 8 10.9 265°.27 1°.6/ 9.9 18

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|---|---|---|---|---|---|---|
| 7 10 | 21 49.76 | −18 12.4 | 1.900 | 2.788 | 12.3 | 21.3 |
| 7 20 | 21 43.56 | −18 36.6 | 1.811 | 2.766 | 8.9 | 21.0 |
| 7 30 | 21 35.21 | −19 5.5 | 1.747 | 2.744 | 5.0 | 20.7 |
| 8 9 | 21 25.40 | −19 34.4 | 1.708 | 2.720 | 1.6 | 20.4 |
| 8 19 | 21 15.10 | −19 58.4 | 1.698 | 2.697 | 4.4 | 20.6 |
| 8 29 | 21 5.43 | −20 13.7 | 1.715 | 2.673 | 8.6 | 20.8 |
| 9 8 | 20 57.43 | −20 17.9 | 1.756 | 2.648 | 12.5 | 21.0 |
| 9 18 | 20 51.85 | −20 10.7 | 1.819 | 2.623 | 15.9 | 21.2 |

**175638** 2007 $UF_{47}$ 8 10.9 38°.34 3°.1/13.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.80 | − 5 28.5 | 1.830 | 2.695 | 13.8 | 20.2 |
| 7 20 | 21 39.78 | − 5 35.6 | 1.762 | 2.697 | 10.5 | 20.0 |
| 7 30 | 21 32.95 | − 5 57.6 | 1.717 | 2.699 | 6.8 | 19.7 |
| 8 9 | 21 25.02 | − 6 32.2 | 1.696 | 2.701 | 3.6 | 19.5 |
| 8 19 | 21 16.85 | − 7 15.5 | 1.702 | 2.703 | 4.0 | 19.6 |
| 8 29 | 21 9.41 | − 8 2.7 | 1.734 | 2.705 | 7.4 | 19.8 |
| 9 8 | 21 3.54 | − 8 48.7 | 1.792 | 2.707 | 10.9 | 20.0 |
| 9 18 | 20 59.81 | − 9 29.6 | 1.871 | 2.709 | 14.1 | 20.2 |

**312765** 2010 $TF_{179}$ 8 10.9 162°.10 2°.2/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.29 | −20 36.0 | 2.381 | 3.272 | 10.1 | 21.1 |
| 7 20 | 21 39.83 | −21 14.6 | 2.318 | 3.274 | 7.2 | 20.9 |
| 7 30 | 21 32.86 | −21 55.0 | 2.279 | 3.275 | 4.1 | 20.7 |
| 8 9 | 21 25.00 | −22 32.9 | 2.269 | 3.277 | 2.2 | 20.6 |
| 8 19 | 21 16.97 | −23 4.5 | 2.286 | 3.279 | 4.1 | 20.7 |
| 8 29 | 21 9.58 | −23 26.6 | 2.331 | 3.280 | 7.2 | 20.9 |
| 9 8 | 21 3.52 | −23 37.7 | 2.402 | 3.281 | 10.0 | 21.1 |
| 9 18 | 20 59.28 | −23 37.8 | 2.495 | 3.282 | 12.5 | 21.3 |

**465849** 2010 $PD_{60}$ 8 10.9 355°.93 3°.4/13.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.14 | − 5 10.5 | 1.023 | 1.924 | 19.3 | 20.4 |
| 7 20 | 21 38.17 | − 5 43.5 | 0.965 | 1.920 | 14.6 | 20.2 |
| 7 30 | 21 32.47 | − 6 44.0 | 0.925 | 1.917 | 9.3 | 19.9 |
| 8 9 | 21 24.98 | − 8 7.1 | 0.905 | 1.914 | 4.2 | 19.6 |
| 8 19 | 21 17.04 | − 9 43.9 | 0.908 | 1.913 | 5.0 | 19.6 |
| 8 29 | 21 10.23 | −11 22.2 | 0.933 | 1.914 | 10.3 | 19.9 |
| 9 8 | 21 5.85 | −12 51.0 | 0.978 | 1.915 | 15.5 | 20.2 |
| 9 18 | 21 4.70 | −14 2.8 | 1.041 | 1.917 | 20.0 | 20.5 |

**119910** 2002 $ET_{30}$ 8 10.9 129°.94 0°.5/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.66 | −15 6.6 | 2.443 | 3.324 | 10.2 | 20.0 |
| 7 20 | 21 39.29 | −15 36.5 | 2.380 | 3.332 | 7.3 | 19.8 |
| 7 30 | 21 32.53 | −16 11.6 | 2.343 | 3.339 | 4.0 | 19.6 |
| 8 9 | 21 24.95 | −16 48.4 | 2.333 | 3.346 | 0.7 | 19.4 |
| 8 19 | 21 17.24 | −17 23.4 | 2.352 | 3.353 | 3.0 | 19.6 |
| 8 29 | 21 10.13 | −17 53.4 | 2.399 | 3.360 | 6.3 | 19.8 |
| 9 8 | 21 4.28 | −18 16.0 | 2.473 | 3.367 | 9.2 | 20.0 |
| 9 18 | 21 0.13 | −18 30.0 | 2.569 | 3.373 | 11.7 | 20.2 |

**454865** 2015 $TE_3$ 8 10.9 296°.25 4°.6/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 46.41 | −27 59.9 | 2.204 | 3.099 | 10.6 | 21.0 |
| 7 20 | 21 40.86 | −28 46.9 | 2.139 | 3.092 | 7.9 | 20.9 |
| 7 30 | 21 33.53 | −29 30.8 | 2.099 | 3.085 | 5.5 | 20.7 |
| 8 9 | 21 25.12 | −30 6.0 | 2.085 | 3.077 | 4.7 | 20.6 |
| 8 19 | 21 16.49 | −30 28.0 | 2.098 | 3.070 | 6.4 | 20.7 |
| 8 29 | 21 8.58 | −30 34.2 | 2.138 | 3.063 | 9.1 | 20.9 |
| 9 8 | 21 2.21 | −30 24.3 | 2.201 | 3.057 | 11.8 | 21.1 |
| 9 18 | 20 57.95 | −29 59.7 | 2.285 | 3.050 | 14.2 | 21.2 |

**252212** 2001 $HM_{18}$ 8 10.9 191°.30 10°.0/ 1.9 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 58.82 | −43 59.6 | 2.141 | 2.996 | 12.5 | 21.4 |
| 7 20 | 21 50.21 | −45 28.5 | 2.096 | 2.995 | 10.9 | 21.3 |
| 7 30 | 21 38.93 | −46 41.3 | 2.075 | 2.992 | 10.0 | 21.2 |
| 8 9 | 21 26.02 | −47 29.6 | 2.078 | 2.989 | 10.3 | 21.2 |
| 8 19 | 21 12.83 | −47 48.0 | 2.106 | 2.984 | 11.5 | 21.3 |
| 8 29 | 21 0.86 | −47 35.8 | 2.157 | 2.979 | 13.3 | 21.4 |
| 9 8 | 20 51.31 | −46 56.4 | 2.228 | 2.973 | 15.1 | 21.5 |
| 9 18 | 20 44.89 | −45 55.4 | 2.317 | 2.966 | 16.8 | 21.7 |

**184190** 2004 $PY_{19}$ 8 10.9 24°.09 2°.7/ 8.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.31 | −19 48.8 | 2.072 | 2.970 | 11.0 | 19.7 |
| 7 20 | 21 38.65 | −21 3.2 | 2.011 | 2.971 | 7.8 | 19.5 |
| 7 30 | 21 32.31 | −22 21.6 | 1.976 | 2.973 | 4.5 | 19.3 |
| 8 9 | 21 24.94 | −23 38.0 | 1.968 | 2.975 | 2.7 | 19.2 |
| 8 19 | 21 17.33 | −24 46.1 | 1.987 | 2.977 | 5.0 | 19.4 |
| 8 29 | 21 10.38 | −25 41.3 | 2.033 | 2.979 | 8.3 | 19.6 |
| 9 8 | 21 4.88 | −26 20.8 | 2.104 | 2.981 | 11.4 | 19.8 |
| 9 18 | 21 1.38 | −26 44.1 | 2.196 | 2.984 | 14.0 | 20.0 |

**94035** 2000 $XX_{47}$ 8 10.9 193°.49 0°.1/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.82 | −15 31.0 | 1.930 | 2.811 | 12.5 | 19.6 |
| 7 20 | 21 44.03 | −15 27.9 | 1.860 | 2.810 | 9.0 | 19.4 |
| 7 30 | 21 35.31 | −15 29.5 | 1.814 | 2.809 | 5.1 | 19.2 |
| 8 9 | 21 25.43 | −15 32.9 | 1.794 | 2.808 | 0.8 | 18.8 |
| 8 19 | 21 15.33 | −15 34.9 | 1.803 | 2.806 | 3.5 | 19.1 |
| 8 29 | 21 6.07 | −15 33.0 | 1.840 | 2.804 | 7.6 | 19.3 |
| 9 8 | 20 58.53 | −15 25.5 | 1.902 | 2.801 | 11.3 | 19.5 |
| 9 18 | 20 53.29 | −15 11.8 | 1.986 | 2.799 | 14.4 | 19.7 |

**257169** 2008 $HN_{69}$ 8 10.9 49°.94 2°.6/12.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.78 | − 6 51.1 | 1.998 | 2.864 | 12.8 | 20.1 |
| 7 20 | 21 39.57 | − 6 48.6 | 1.938 | 2.874 | 9.6 | 20.0 |
| 7 30 | 21 32.75 | − 6 58.1 | 1.900 | 2.884 | 6.1 | 19.8 |
| 8 9 | 21 25.01 | − 7 17.5 | 1.888 | 2.894 | 3.1 | 19.6 |
| 8 19 | 21 17.12 | − 7 43.8 | 1.903 | 2.905 | 3.6 | 19.7 |
| 8 29 | 21 9.97 | − 8 13.2 | 1.946 | 2.915 | 6.8 | 19.9 |
| 9 8 | 21 4.29 | − 8 42.0 | 2.013 | 2.926 | 10.1 | 20.1 |
| 9 18 | 21 0.56 | − 9 7.0 | 2.104 | 2.937 | 13.0 | 20.3 |

**390886** 2004 $XU_{59}$ 8 10.9 239°.11 2°.3/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.84 | −20 1.4 | 2.237 | 3.125 | 10.8 | 22.3 |
| 7 20 | 21 41.91 | −20 48.6 | 2.154 | 3.109 | 7.7 | 22.1 |
| 7 30 | 21 34.18 | −21 39.3 | 2.097 | 3.093 | 4.4 | 21.8 |
| 8 9 | 21 25.28 | −22 28.4 | 2.067 | 3.076 | 2.3 | 21.7 |
| 8 19 | 21 16.00 | −23 11.2 | 2.066 | 3.058 | 4.5 | 21.8 |
| 8 29 | 21 7.28 | −23 43.4 | 2.092 | 3.040 | 7.9 | 22.0 |
| 9 8 | 20 59.98 | −24 3.0 | 2.144 | 3.021 | 11.2 | 22.2 |
| 9 18 | 20 54.72 | −24 9.6 | 2.218 | 3.002 | 14.0 | 22.3 |

**396985** 2005 $SX_{135}$ 8 10.9 5°.46 0°.9/10.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.42 | −15 56.4 | 1.787 | 2.683 | 12.6 | 21.0 |
| 7 20 | 21 39.59 | −16 27.4 | 1.725 | 2.683 | 9.0 | 20.7 |
| 7 30 | 21 32.88 | −17 5.2 | 1.685 | 2.684 | 5.0 | 20.5 |
| 8 9 | 21 25.05 | −17 45.0 | 1.672 | 2.685 | 1.1 | 20.2 |
| 8 19 | 21 17.00 | −18 21.9 | 1.685 | 2.686 | 3.9 | 20.4 |
| 8 29 | 21 9.75 | −18 51.4 | 1.724 | 2.688 | 8.0 | 20.7 |
| 9 8 | 21 4.15 | −19 10.7 | 1.787 | 2.690 | 11.7 | 20.9 |
| 9 18 | 21 0.78 | −19 18.7 | 1.871 | 2.693 | 14.8 | 21.1 |

**380311** 2002 $EO_{121}$ 8 10.9 93°.98 7°.1/ 6.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 57.20 | −34 35.2 | 1.857 | 2.739 | 12.9 | 20.9 |
| 7 20 | 21 48.53 | −35 15.8 | 1.824 | 2.762 | 10.0 | 20.8 |
| 7 30 | 21 37.70 | −35 44.6 | 1.815 | 2.784 | 7.8 | 20.7 |
| 8 9 | 21 25.80 | −35 55.0 | 1.832 | 2.806 | 7.2 | 20.7 |
| 8 19 | 21 14.11 | −35 43.6 | 1.875 | 2.827 | 8.6 | 20.8 |
| 8 29 | 21 3.87 | −35 10.7 | 1.944 | 2.848 | 11.0 | 21.0 |
| 9 8 | 20 55.98 | −34 19.5 | 2.036 | 2.869 | 13.5 | 21.2 |
| 9 18 | 20 50.89 | −33 14.6 | 2.148 | 2.889 | 15.7 | 21.4 |

**219968** 2002 $JC_{95}$ 8 10.9 38°.16 4°.1/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.60 | − 2 10.8 | 2.166 | 3.010 | 12.7 | 19.8 |
| 7 20 | 21 38.69 | − 2 1.4 | 2.096 | 3.014 | 9.9 | 19.6 |
| 7 30 | 21 32.28 | − 2 6.4 | 2.050 | 3.019 | 7.0 | 19.5 |
| 8 9 | 21 24.95 | − 2 24.6 | 2.028 | 3.023 | 4.5 | 19.3 |
| 8 19 | 21 17.45 | − 2 53.7 | 2.034 | 3.028 | 4.4 | 19.3 |
| 8 29 | 21 10.55 | − 3 30.1 | 2.067 | 3.032 | 6.8 | 19.5 |
| 9 8 | 21 4.96 | − 4 9.5 | 2.125 | 3.037 | 9.6 | 19.7 |
| 9 18 | 21 1.19 | − 4 47.9 | 2.206 | 3.042 | 12.4 | 19.9 |

**103894** 2000 $DB_{55}$ 8 10.9 288°.13 2°.5/13.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 42.83 | − 4 28.4 | 1.863 | 2.727 | 13.7 | 19.4 |
| 7 20 | 21 38.47 | − 5 18.1 | 1.785 | 2.720 | 10.4 | 19.2 |
| 7 30 | 21 32.30 | − 6 26.2 | 1.729 | 2.713 | 6.6 | 19.0 |
| 8 9 | 21 24.98 | − 7 49.1 | 1.699 | 2.706 | 3.1 | 18.7 |
| 8 19 | 21 17.31 | − 9 20.9 | 1.695 | 2.699 | 3.6 | 18.7 |
| 8 29 | 21 10.24 | −10 54.3 | 1.720 | 2.692 | 7.3 | 19.0 |
| 9 8 | 21 4.65 | −12 22.5 | 1.770 | 2.685 | 11.1 | 19.2 |
| 9 18 | 21 1.13 | −13 40.1 | 1.843 | 2.678 | 14.4 | 19.4 |

**320085** 2007 $EO_{78}$ 8 10.9 338°.63 2°.7/13.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.60 | − 4 47.5 | 2.055 | 2.916 | 12.6 | 20.4 |
| 7 20 | 21 37.41 | − 5 14.2 | 1.979 | 2.912 | 9.6 | 20.2 |
| 7 30 | 21 31.63 | − 5 55.9 | 1.926 | 2.908 | 6.3 | 20.0 |
| 8 9 | 21 24.86 | − 6 50.0 | 1.899 | 2.904 | 3.2 | 19.8 |
| 8 19 | 21 17.84 | − 7 52.4 | 1.898 | 2.900 | 3.5 | 19.8 |
| 8 29 | 21 11.38 | − 8 57.9 | 1.925 | 2.897 | 6.7 | 20.0 |
| 9 8 | 21 6.25 | −10 1.1 | 1.978 | 2.894 | 10.1 | 20.2 |
| 9 18 | 21 2.97 | −10 57.7 | 2.053 | 2.891 | 13.1 | 20.4 |

**865** Zubaida 8 10.9 210°.11 4°.3/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.05 | + 0 2.4 | 2.029 | 2.863 | 13.9 | 16.3 |
| 7 20 | 21 40.65 | − 0 23.3 | 1.945 | 2.856 | 10.9 | 16.1 |
| 7 30 | 21 33.49 | − 1 8.4 | 1.883 | 2.850 | 7.7 | 15.9 |
| 8 9 | 21 25.18 | − 2 10.9 | 1.847 | 2.842 | 4.9 | 15.7 |
| 8 19 | 21 16.52 | − 3 26.9 | 1.839 | 2.834 | 4.6 | 15.7 |
| 8 29 | 21 8.42 | − 4 50.5 | 1.858 | 2.825 | 7.3 | 15.8 |
| 9 8 | 21 1.74 | − 6 15.1 | 1.904 | 2.816 | 10.6 | 16.0 |
| 9 18 | 20 57.08 | − 7 34.9 | 1.974 | 2.806 | 13.8 | 16.2 |

**471805** 2012 $VX_{99}$ 8 10.9 319°.98 8°.1/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.20 | + 1 59.3 | 1.495 | 2.341 | 17.4 | 20.3 |
| 7 20 | 21 40.63 | + 2 56.6 | 1.412 | 2.323 | 14.3 | 20.1 |
| 7 30 | 21 33.74 | + 3 33.4 | 1.349 | 2.305 | 11.1 | 19.9 |
| 8 9 | 21 25.25 | + 3 47.2 | 1.307 | 2.287 | 8.6 | 19.7 |
| 8 19 | 21 16.18 | + 3 37.8 | 1.289 | 2.271 | 8.3 | 19.6 |
| 8 29 | 21 7.77 | + 3 8.3 | 1.295 | 2.254 | 10.5 | 19.7 |
| 9 8 | 21 1.18 | + 2 24.8 | 1.322 | 2.239 | 13.9 | 19.9 |
| 9 18 | 20 57.23 | + 1 34.6 | 1.370 | 2.224 | 17.4 | 20.0 |

**62675** 2000 $TL_{12}$ 8 10.9 244°.10 0°.8/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.55 | −14 47.7 | 2.148 | 3.035 | 11.2 | 19.6 |
| 7 20 | 21 38.77 | −15 41.0 | 2.079 | 3.033 | 8.0 | 19.4 |
| 7 30 | 21 32.38 | −16 42.0 | 2.034 | 3.032 | 4.4 | 19.1 |
| 8 9 | 21 24.99 | −17 45.7 | 2.017 | 3.030 | 0.9 | 18.9 |
| 8 19 | 21 17.37 | −18 47.1 | 2.028 | 3.028 | 3.5 | 19.1 |
| 8 29 | 21 10.34 | −19 41.3 | 2.066 | 3.027 | 7.2 | 19.3 |
| 9 8 | 21 4.68 | −20 24.9 | 2.130 | 3.025 | 10.5 | 19.5 |
| 9 18 | 21 0.91 | −20 56.2 | 2.216 | 3.023 | 13.3 | 19.7 |

**476665** 2008 $TH_{17}$ 8 10.9 306°.51 3°.5/13.1 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.59 | − 5 45.2 | 1.534 | 2.410 | 15.4 | 22.1 |
| 7 20 | 21 40.20 | − 5 45.2 | 1.444 | 2.385 | 11.9 | 21.8 |
| 7 30 | 21 33.52 | − 6 2.6 | 1.376 | 2.361 | 7.8 | 21.5 |
| 8 9 | 21 25.22 | − 6 35.9 | 1.331 | 2.337 | 4.1 | 21.2 |
| 8 19 | 21 16.30 | − 7 21.4 | 1.310 | 2.313 | 4.7 | 21.2 |
| 8 29 | 21 7.98 | − 8 13.6 | 1.315 | 2.289 | 8.9 | 21.4 |
| 9 8 | 21 1.42 | − 9 5.9 | 1.343 | 2.266 | 13.3 | 21.6 |
| 9 18 | 20 57.48 | − 9 52.7 | 1.392 | 2.243 | 17.4 | 21.8 |

**200512** 2001 $BR_{25}$ 8 10.9 177°.91 0°.7/10.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.82 | −15 6.4 | 2.069 | 2.953 | 11.7 | 20.5 |
| 7 20 | 21 41.12 | −15 44.6 | 2.001 | 2.954 | 8.3 | 20.3 |
| 7 30 | 21 33.69 | −16 29.6 | 1.958 | 2.955 | 4.6 | 20.1 |
| 8 9 | 21 25.21 | −17 16.9 | 1.942 | 2.955 | 0.9 | 19.8 |
| 8 19 | 21 16.50 | −18 1.7 | 1.954 | 2.956 | 3.5 | 20.0 |
| 8 29 | 21 8.49 | −18 39.8 | 1.994 | 2.955 | 7.3 | 20.3 |
| 9 8 | 21 1.97 | −19 8.4 | 2.060 | 2.955 | 10.8 | 20.5 |
| 9 18 | 20 57.51 | −19 26.1 | 2.147 | 2.954 | 13.7 | 20.7 |

**91172** 1998 $RG_5$ 8 10.9 28°.87 5°.0/ 6.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.48 | −28 19.7 | 2.059 | 2.957 | 11.1 | 19.2 |
| 7 20 | 21 40.94 | −29 10.9 | 2.006 | 2.960 | 8.3 | 19.0 |
| 7 30 | 21 33.59 | −29 58.0 | 1.978 | 2.964 | 5.8 | 18.9 |
| 8 9 | 21 25.19 | −30 35.2 | 1.976 | 2.968 | 5.0 | 18.9 |
| 8 19 | 21 16.64 | −30 57.9 | 2.001 | 2.972 | 6.7 | 19.0 |
| 8 29 | 21 8.94 | −31 3.7 | 2.051 | 2.976 | 9.4 | 19.2 |
| 9 8 | 21 2.90 | −30 52.7 | 2.125 | 2.981 | 12.1 | 19.3 |
| 9 18 | 20 59.06 | −30 26.5 | 2.219 | 2.985 | 14.5 | 19.5 |

**274963** 2009 $SF_{329}$ 8 10.9 306°.16 4°.9/14.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.60 | − 2 35.3 | 1.427 | 2.296 | 16.8 | 20.3 |
| 7 20 | 21 40.23 | − 2 33.3 | 1.349 | 2.282 | 13.2 | 20.0 |
| 7 30 | 21 33.52 | − 2 52.9 | 1.291 | 2.269 | 9.1 | 19.7 |
| 8 9 | 21 25.22 | − 3 33.0 | 1.255 | 2.255 | 5.6 | 19.5 |
| 8 19 | 21 16.39 | − 4 29.8 | 1.243 | 2.242 | 5.6 | 19.5 |
| 8 29 | 21 8.32 | − 5 36.7 | 1.256 | 2.230 | 9.2 | 19.7 |
| 9 8 | 21 2.15 | − 6 45.6 | 1.292 | 2.217 | 13.5 | 19.9 |
| 9 18 | 20 58.68 | − 7 49.5 | 1.348 | 2.206 | 17.5 | 20.1 |

**329438** 2002 $PL$ 8 10.9 18°.33 0°.8/11.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 43.17 | −11 18.5 | 0.988 | 1.905 | 18.5 | 20.2 |
| 7 20 | 21 39.57 | −11 46.0 | 0.945 | 1.911 | 13.4 | 20.0 |
| 7 30 | 21 33.18 | −12 31.1 | 0.920 | 1.919 | 7.7 | 19.7 |
| 8 9 | 21 25.15 | −13 26.8 | 0.915 | 1.928 | 1.7 | 19.3 |
| 8 19 | 21 16.91 | −14 24.6 | 0.933 | 1.939 | 4.7 | 19.6 |
| 8 29 | 21 10.05 | −15 16.0 | 0.973 | 1.951 | 10.4 | 20.0 |
| 9 8 | 21 5.78 | −15 54.6 | 1.033 | 1.965 | 15.5 | 20.3 |
| 9 18 | 21 4.70 | −16 17.4 | 1.111 | 1.979 | 19.6 | 20.6 |

**316330** 2010 $RM_{116}$ 8 10.9 20°.45 3°.2/ 9.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.67 | −18 19.2 | 0.889 | 1.821 | 18.4 | 19.5 |
| 7 20 | 21 40.15 | −19 15.3 | 0.854 | 1.829 | 13.1 | 19.2 |
| 7 30 | 21 33.57 | −20 19.8 | 0.837 | 1.840 | 7.3 | 19.0 |
| 8 9 | 21 25.21 | −21 21.9 | 0.840 | 1.851 | 3.2 | 18.8 |
| 8 19 | 21 16.74 | −22 11.3 | 0.864 | 1.864 | 7.0 | 19.1 |
| 8 29 | 21 9.88 | −22 41.2 | 0.909 | 1.879 | 12.4 | 19.4 |
| 9 8 | 21 5.91 | −22 49.1 | 0.973 | 1.895 | 17.2 | 19.7 |
| 9 18 | 21 5.37 | −22 36.4 | 1.053 | 1.912 | 21.2 | 20.1 |

**380753** 2005 $SC_{160}$ 8 10.9 342°.65 2°.1/ 9.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.11 | −18 3.0 | 1.081 | 2.003 | 16.7 | 20.1 |
| 7 20 | 21 40.43 | −18 24.9 | 1.018 | 1.989 | 12.1 | 19.8 |
| 7 30 | 21 33.82 | −18 54.7 | 0.975 | 1.977 | 6.8 | 19.4 |
| 8 9 | 21 25.30 | −19 25.4 | 0.953 | 1.966 | 2.1 | 19.1 |
| 8 19 | 21 16.27 | −19 49.8 | 0.954 | 1.956 | 5.9 | 19.3 |
| 8 29 | 21 8.42 | −20 1.7 | 0.977 | 1.948 | 11.4 | 19.6 |
| 9 8 | 21 3.14 | −19 58.2 | 1.019 | 1.942 | 16.5 | 19.9 |
| 9 18 | 21 1.23 | −19 38.9 | 1.078 | 1.937 | 20.8 | 20.1 |

**52578** 1997 $NE$ 8 10.9 131°.79 1°.1/11.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.37 | −10 16.0 | 1.764 | 2.641 | 13.7 | 20.5 |
| 7 20 | 21 42.37 | −10 40.9 | 1.705 | 2.651 | 10.0 | 20.3 |
| 7 30 | 21 34.44 | −11 17.4 | 1.668 | 2.660 | 5.9 | 20.1 |
| 8 9 | 21 25.37 | −12 1.3 | 1.657 | 2.669 | 1.7 | 19.8 |
| 8 19 | 21 16.11 | −12 47.7 | 1.673 | 2.677 | 3.5 | 20.0 |
| 8 29 | 21 7.73 | −13 31.5 | 1.717 | 2.685 | 7.6 | 20.3 |
| 9 8 | 21 1.10 | −14 8.8 | 1.785 | 2.693 | 11.4 | 20.5 |
| 9 18 | 20 56.80 | −14 36.8 | 1.875 | 2.700 | 14.7 | 20.7 |

**329317** 2000 $SY_{258}$ 8 10.9 340°.89 2°.9/12.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.18 | − 8 49.0 | 1.122 | 2.028 | 17.5 | 19.5 |
| 7 20 | 21 38.20 | − 8 41.3 | 1.051 | 2.010 | 13.2 | 19.2 |
| 7 30 | 21 32.56 | − 8 51.5 | 0.999 | 1.994 | 8.3 | 18.9 |
| 8 9 | 21 25.10 | − 9 17.1 | 0.968 | 1.978 | 3.5 | 18.6 |
| 8 19 | 21 17.07 | − 9 53.5 | 0.959 | 1.965 | 4.8 | 18.6 |
| 8 29 | 21 9.97 | −10 33.7 | 0.973 | 1.953 | 10.1 | 18.8 |
| 9 8 | 21 5.16 | −11 10.7 | 1.006 | 1.943 | 15.3 | 19.1 |
| 9 18 | 21 3.48 | −11 39.0 | 1.058 | 1.934 | 19.8 | 19.3 |

**314396** 2005 $UR_{190}$ 8 10.9 252°.91 0°.4/11.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.42 | −12 18.9 | 2.421 | 3.296 | 10.5 | 21.8 |
| 7 20 | 21 39.29 | −12 41.6 | 2.336 | 3.283 | 7.6 | 21.6 |
| 7 30 | 21 32.66 | −13 11.9 | 2.277 | 3.270 | 4.4 | 21.3 |
| 8 9 | 21 25.09 | −13 46.8 | 2.245 | 3.257 | 0.9 | 21.1 |
| 8 19 | 21 17.23 | −14 23.0 | 2.241 | 3.244 | 2.8 | 21.2 |
| 8 29 | 21 9.86 | −14 56.9 | 2.265 | 3.231 | 6.3 | 21.4 |
| 9 8 | 21 3.68 | −15 25.5 | 2.316 | 3.217 | 9.5 | 21.6 |
| 9 18 | 20 59.22 | −15 46.9 | 2.390 | 3.203 | 12.3 | 21.8 |

**191744** 2004 $SX_{15}$ 8 10.9 301°.21 3°.4/ 8.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.86 | −20 11.2 | 1.539 | 2.445 | 13.6 | 19.8 |
| 7 20 | 21 41.15 | −21 15.8 | 1.465 | 2.428 | 9.8 | 19.5 |
| 7 30 | 21 34.06 | −22 26.7 | 1.413 | 2.412 | 5.8 | 19.2 |
| 8 9 | 21 25.35 | −23 36.3 | 1.387 | 2.395 | 3.4 | 19.0 |
| 8 19 | 21 16.12 | −24 36.6 | 1.386 | 2.379 | 6.2 | 19.2 |
| 8 29 | 21 7.68 | −25 20.9 | 1.410 | 2.363 | 10.5 | 19.4 |
| 9 8 | 21 1.21 | −25 46.1 | 1.456 | 2.347 | 14.6 | 19.6 |
| 9 18 | 20 57.50 | −25 51.9 | 1.521 | 2.331 | 18.2 | 19.8 |

**496627** 2015 $TA_{24}$ 8 10.9 226°.03 12°.4/21.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.86 | +16 37.6 | 1.227 | 2.009 | 23.9 | 21.4 |
| 7 20 | 21 41.50 | +16 21.8 | 1.152 | 2.005 | 21.0 | 21.1 |
| 7 30 | 21 34.40 | +15 18.1 | 1.091 | 2.000 | 17.6 | 20.9 |
| 8 9 | 21 25.42 | +13 22.2 | 1.048 | 1.995 | 14.4 | 20.7 |
| 8 19 | 21 15.82 | +10 36.8 | 1.026 | 1.989 | 12.5 | 20.6 |
| 8 29 | 21 7.12 | + 7 14.0 | 1.028 | 1.983 | 13.2 | 20.6 |
| 9 8 | 21 0.71 | + 3 33.2 | 1.053 | 1.977 | 16.0 | 20.8 |
| 9 18 | 20 57.49 | − 0 5.2 | 1.100 | 1.970 | 19.7 | 21.0 |

**430906** 2005 $SQ_{125}$ 8 10.9 352°.04 9°.7/18.7 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 38.76 | + 8 17.2 | 1.187 | 2.029 | 21.2 | 20.2 |
| 7 20 | 21 36.26 | + 8 18.2 | 1.120 | 2.022 | 17.9 | 20.0 |
| 7 30 | 21 31.37 | + 7 41.1 | 1.068 | 2.016 | 14.3 | 19.8 |
| 8 9 | 21 24.91 | + 6 24.5 | 1.036 | 2.011 | 11.1 | 19.6 |
| 8 19 | 21 17.99 | + 4 32.5 | 1.025 | 2.008 | 9.7 | 19.5 |
| 8 29 | 21 11.96 | + 2 15.4 | 1.036 | 2.006 | 11.2 | 19.6 |
| 9 8 | 21 8.00 | − 0 12.2 | 1.069 | 2.005 | 14.6 | 19.8 |
| 9 18 | 21 6.88 | − 2 36.1 | 1.122 | 2.006 | 18.3 | 20.0 |

**504831** 2010 $MV_{75}$ 8 10.9 309°.47 2°.1/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.48 | − 8 54.5 | 1.244 | 2.140 | 17.0 | 20.9 |
| 7 20 | 21 41.19 | − 9 8.7 | 1.169 | 2.123 | 12.7 | 20.6 |
| 7 30 | 21 34.22 | − 9 41.0 | 1.114 | 2.108 | 7.8 | 20.3 |
| 8 9 | 21 25.40 | −10 28.0 | 1.081 | 2.092 | 2.8 | 20.0 |
| 8 19 | 21 15.96 | −11 23.6 | 1.072 | 2.077 | 4.5 | 20.0 |
| 8 29 | 21 7.38 | −12 20.0 | 1.087 | 2.063 | 9.9 | 20.3 |
| 9 8 | 21 1.03 | −13 10.1 | 1.123 | 2.049 | 15.0 | 20.5 |
| 9 18 | 20 57.77 | −13 48.9 | 1.177 | 2.035 | 19.5 | 20.8 |

**103556** 2000 $BD_{28}$ 8 10.9 115°.72 0°.5/11.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.32 | −11 31.7 | 1.669 | 2.552 | 14.0 | 20.1 |
| 7 20 | 21 42.41 | −12 9.1 | 1.614 | 2.564 | 10.1 | 19.9 |
| 7 30 | 21 34.50 | −12 57.8 | 1.581 | 2.576 | 5.8 | 19.7 |
| 8 9 | 21 25.40 | −13 52.6 | 1.575 | 2.588 | 1.2 | 19.4 |
| 8 19 | 21 16.15 | −14 47.8 | 1.595 | 2.599 | 3.6 | 19.6 |
| 8 29 | 21 7.83 | −15 37.6 | 1.642 | 2.610 | 8.0 | 19.9 |
| 9 8 | 21 1.36 | −16 18.1 | 1.714 | 2.620 | 11.9 | 20.2 |
| 9 18 | 20 57.32 | −16 46.9 | 1.807 | 2.630 | 15.2 | 20.4 |

**147501** 2004 $CJ_{103}$ 8 10.9 90°.17 3°.4/13.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.92 | − 6 26.0 | 1.521 | 2.392 | 15.8 | 19.7 |
| 7 20 | 21 43.00 | − 6 16.3 | 1.461 | 2.400 | 11.9 | 19.4 |
| 7 30 | 21 34.89 | − 6 22.2 | 1.423 | 2.407 | 7.7 | 19.2 |
| 8 9 | 21 25.48 | − 6 41.5 | 1.409 | 2.415 | 4.0 | 19.0 |
| 8 19 | 21 15.86 | − 7 10.4 | 1.420 | 2.422 | 4.5 | 19.1 |
| 8 29 | 21 7.22 | − 7 44.0 | 1.458 | 2.429 | 8.4 | 19.3 |
| 9 8 | 21 0.57 | − 8 17.1 | 1.519 | 2.436 | 12.4 | 19.6 |
| 9 18 | 20 56.52 | − 8 45.6 | 1.601 | 2.443 | 15.9 | 19.8 |

**39149** 2000 $WV_{95}$ 8 10.9 275°.78 0°.9/11.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.64 | −11 19.1 | 2.186 | 3.062 | 11.4 | 19.3 |
| 7 20 | 21 39.52 | −11 33.0 | 2.111 | 3.057 | 8.4 | 19.1 |
| 7 30 | 21 32.82 | −11 55.5 | 2.059 | 3.052 | 4.9 | 18.9 |
| 8 9 | 21 25.14 | −12 23.7 | 2.035 | 3.047 | 1.4 | 18.6 |
| 8 19 | 21 17.22 | −12 54.2 | 2.038 | 3.042 | 3.0 | 18.8 |
| 8 29 | 21 9.88 | −13 23.4 | 2.069 | 3.037 | 6.6 | 19.0 |
| 9 8 | 21 3.89 | −13 48.1 | 2.125 | 3.032 | 9.9 | 19.2 |
| 9 18 | 20 59.76 | −14 6.4 | 2.205 | 3.027 | 12.8 | 19.4 |

**329729** 2003 $XM_3$ 8 10.9 234°.00 4°.1/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.62 | − 3 17.3 | 1.721 | 2.576 | 15.0 | 21.3 |
| 7 20 | 21 42.09 | − 3 21.4 | 1.639 | 2.567 | 11.6 | 21.0 |
| 7 30 | 21 34.46 | − 3 43.3 | 1.580 | 2.557 | 7.9 | 20.8 |
| 8 9 | 21 25.44 | − 4 21.6 | 1.545 | 2.546 | 4.6 | 20.6 |
| 8 19 | 21 15.97 | − 5 12.6 | 1.536 | 2.535 | 4.8 | 20.6 |
| 8 29 | 21 7.17 | − 6 10.8 | 1.554 | 2.524 | 8.2 | 20.7 |
| 9 8 | 21 0.06 | − 7 9.9 | 1.597 | 2.512 | 12.1 | 20.9 |
| 9 18 | 20 55.35 | − 8 4.6 | 1.661 | 2.499 | 15.6 | 21.1 |

**397692** 2008 $CH_{117}$ 8 10.9 74°.45 3°.3/ 8.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.71 | −22 47.3 | 2.073 | 2.970 | 11.1 | 21.0 |
| 7 20 | 21 40.40 | −23 40.3 | 2.013 | 2.971 | 7.9 | 20.8 |
| 7 30 | 21 33.34 | −24 34.2 | 1.978 | 2.973 | 4.8 | 20.7 |
| 8 9 | 21 25.23 | −25 23.3 | 1.970 | 2.974 | 3.3 | 20.6 |
| 8 19 | 21 16.92 | −26 2.6 | 1.989 | 2.976 | 5.3 | 20.7 |
| 8 29 | 21 9.35 | −26 28.5 | 2.035 | 2.977 | 8.5 | 20.9 |
| 9 8 | 21 3.32 | −26 39.7 | 2.105 | 2.979 | 11.5 | 21.1 |
| 9 18 | 20 59.38 | −26 36.5 | 2.196 | 2.980 | 14.1 | 21.3 |

**98404** 2000 $UT_8$ 8 10.9 303°.21 0°.3/10.8 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.04 | −14 3.4 | 1.532 | 2.429 | 14.3 | 19.3 |
| 7 20 | 21 41.30 | −14 29.0 | 1.448 | 2.406 | 10.4 | 19.0 |
| 7 30 | 21 34.18 | −15 5.4 | 1.385 | 2.383 | 5.9 | 18.7 |
| 8 9 | 21 25.41 | −15 47.9 | 1.347 | 2.361 | 1.0 | 18.3 |
| 8 19 | 21 16.05 | −16 30.7 | 1.335 | 2.338 | 4.2 | 18.5 |
| 8 29 | 21 7.37 | −17 7.9 | 1.347 | 2.316 | 9.3 | 18.7 |
| 9 8 | 21 0.58 | −17 35.1 | 1.383 | 2.294 | 13.8 | 18.9 |
| 9 18 | 20 56.50 | −17 49.7 | 1.438 | 2.273 | 17.8 | 19.1 |

**47514** 2000 $AW_{66}$ 8 10.9 10°.09 4°.7/ 7.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.70 | −22 34.8 | 1.445 | 2.359 | 13.8 | 17.4 |
| 7 20 | 21 39.55 | −24 2.8 | 1.395 | 2.361 | 9.9 | 17.1 |
| 7 30 | 21 33.08 | −25 33.5 | 1.367 | 2.364 | 6.2 | 16.9 |
| 8 9 | 21 25.20 | −26 57.6 | 1.364 | 2.367 | 4.8 | 16.9 |
| 8 19 | 21 17.05 | −28 6.3 | 1.386 | 2.371 | 7.4 | 17.0 |
| 8 29 | 21 9.90 | −28 53.7 | 1.432 | 2.376 | 11.2 | 17.3 |
| 9 8 | 21 4.82 | −29 17.7 | 1.499 | 2.381 | 14.8 | 17.5 |
| 9 18 | 21 2.44 | −29 19.7 | 1.585 | 2.387 | 17.9 | 17.7 |

**378278** 2007 $EE_{70}$ 8 10.9 115°.79 0°.7/11.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.61 | −10 34.8 | 1.724 | 2.605 | 13.7 | 21.3 |
| 7 20 | 21 41.19 | −11 16.2 | 1.664 | 2.614 | 10.0 | 21.0 |
| 7 30 | 21 33.84 | −12 9.9 | 1.628 | 2.622 | 5.7 | 20.8 |
| 8 9 | 21 25.32 | −13 11.0 | 1.617 | 2.629 | 1.3 | 20.5 |
| 8 19 | 21 16.60 | −14 13.5 | 1.633 | 2.637 | 3.5 | 20.7 |
| 8 29 | 21 8.72 | −15 11.5 | 1.676 | 2.644 | 7.8 | 21.0 |
| 9 8 | 21 2.58 | −16 0.4 | 1.743 | 2.651 | 11.7 | 21.2 |
| 9 18 | 20 58.75 | −16 37.6 | 1.833 | 2.658 | 14.9 | 21.5 |

**474568** 2004 $CJ_{119}$ 8 10.9 248°.74 0°.5/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.87 | −15 40.4 | 2.206 | 3.087 | 11.2 | 22.3 |
| 7 20 | 21 41.92 | −15 56.9 | 2.121 | 3.072 | 8.1 | 22.0 |
| 7 30 | 21 34.22 | −16 18.7 | 2.061 | 3.057 | 4.5 | 21.8 |
| 8 9 | 21 25.40 | −16 42.3 | 2.028 | 3.041 | 0.8 | 21.5 |
| 8 19 | 21 16.24 | −17 4.4 | 2.023 | 3.025 | 3.3 | 21.7 |
| 8 29 | 21 7.65 | −17 21.4 | 2.047 | 3.009 | 7.1 | 21.9 |
| 9 8 | 21 0.46 | −17 31.2 | 2.096 | 2.992 | 10.6 | 22.1 |
| 9 18 | 20 55.27 | −17 32.7 | 2.168 | 2.975 | 13.6 | 22.2 |

**2806** Graz 8 10.9 253°.45 0°.6/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.53 | −14 16.2 | 1.534 | 2.429 | 14.4 | 16.9 |
| 7 20 | 21 42.19 | −14 56.5 | 1.466 | 2.424 | 10.4 | 16.6 |
| 7 30 | 21 34.56 | −15 47.3 | 1.422 | 2.419 | 5.8 | 16.3 |
| 8 9 | 21 25.46 | −16 42.8 | 1.401 | 2.415 | 1.0 | 16.0 |
| 8 19 | 21 16.00 | −17 36.3 | 1.407 | 2.410 | 4.3 | 16.2 |
| 8 29 | 21 7.41 | −18 21.8 | 1.439 | 2.405 | 9.1 | 16.5 |
| 9 8 | 21 0.80 | −18 55.1 | 1.494 | 2.400 | 13.4 | 16.7 |
| 9 18 | 20 56.85 | −19 14.5 | 1.569 | 2.395 | 17.0 | 17.0 |

**249472** 2009 $KV_5$ 8 10.9 5°.90 1°.3/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.44 | − 7 45.6 | 1.720 | 2.601 | 13.8 | 19.7 |
| 7 20 | 21 37.56 | − 8 45.9 | 1.654 | 2.601 | 10.1 | 19.5 |
| 7 30 | 21 31.85 | −10 2.7 | 1.610 | 2.602 | 6.0 | 19.3 |
| 8 9 | 21 25.01 | −11 30.8 | 1.592 | 2.604 | 1.9 | 19.0 |
| 8 19 | 21 17.89 | −13 3.2 | 1.601 | 2.606 | 3.4 | 19.1 |
| 8 29 | 21 11.48 | −14 32.4 | 1.636 | 2.608 | 7.6 | 19.4 |
| 9 8 | 21 6.63 | −15 51.8 | 1.696 | 2.611 | 11.5 | 19.6 |
| 9 18 | 21 3.95 | −16 57.3 | 1.778 | 2.615 | 14.8 | 19.9 |

**28870** 2000 $JO_{85}$ 8 10.9 112°.23 2°.3/ 8.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.91 | −17 21.4 | 1.998 | 2.891 | 11.6 | 18.6 |
| 7 20 | 21 39.87 | −18 51.0 | 1.941 | 2.899 | 8.2 | 18.4 |
| 7 30 | 21 33.07 | −20 27.1 | 1.909 | 2.906 | 4.6 | 18.2 |
| 8 9 | 21 25.20 | −22 2.6 | 1.904 | 2.914 | 2.3 | 18.1 |
| 8 19 | 21 17.10 | −23 30.5 | 1.928 | 2.921 | 4.7 | 18.3 |
| 8 29 | 21 9.70 | −24 44.9 | 1.980 | 2.928 | 8.3 | 18.5 |
| 9 8 | 21 3.81 | −25 42.4 | 2.056 | 2.935 | 11.5 | 18.7 |
| 9 18 | 21 0.00 | −26 22.2 | 2.154 | 2.942 | 14.2 | 18.9 |

**475185** 2005 $UF_{503}$ 8 10.9 201°.22 6°.2/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.27 | +11 47.8 | 3.349 | 4.085 | 10.9 | 22.3 |
| 7 20 | 21 38.13 | +12 5.2 | 3.257 | 4.080 | 9.4 | 22.1 |
| 7 30 | 21 31.91 | +12 7.2 | 3.188 | 4.074 | 7.9 | 22.0 |
| 8 9 | 21 25.01 | +11 53.1 | 3.143 | 4.067 | 6.7 | 21.9 |
| 8 19 | 21 17.90 | +11 23.6 | 3.125 | 4.060 | 6.2 | 21.9 |
| 8 29 | 21 11.12 | +10 40.6 | 3.134 | 4.053 | 6.7 | 21.9 |
| 9 8 | 21 5.18 | + 9 47.6 | 3.170 | 4.044 | 8.0 | 22.0 |
| 9 18 | 21 0.48 | + 8 48.5 | 3.230 | 4.036 | 9.6 | 22.1 |

**510923** 2013 $EU_{30}$ 8 10.9 73°.23 0°.1/10.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.56 | −12 57.2 | 2.196 | 3.078 | 11.2 | 21.0 |
| 7 20 | 21 38.65 | −13 42.6 | 2.141 | 3.092 | 8.0 | 20.9 |
| 7 30 | 21 32.28 | −14 35.7 | 2.110 | 3.106 | 4.4 | 20.7 |
| 8 9 | 21 25.06 | −15 32.4 | 2.107 | 3.120 | 0.7 | 20.4 |
| 8 19 | 21 17.73 | −16 27.8 | 2.131 | 3.134 | 3.0 | 20.6 |
| 8 29 | 21 11.05 | −17 17.8 | 2.184 | 3.148 | 6.6 | 20.9 |
| 9 8 | 21 5.72 | −17 59.1 | 2.262 | 3.162 | 9.7 | 21.1 |
| 9 18 | 21 2.20 | −18 29.9 | 2.363 | 3.176 | 12.4 | 21.3 |

**501795** 2014 $VG_{31}$ 8 10.9 305°.63 3°.5/ 8.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.62 | −18 54.2 | 1.154 | 2.071 | 16.3 | 21.6 |
| 7 20 | 21 42.36 | −19 58.0 | 1.083 | 2.051 | 11.8 | 21.3 |
| 7 30 | 21 35.05 | −21 12.4 | 1.032 | 2.032 | 6.8 | 20.9 |
| 8 9 | 21 25.60 | −22 27.7 | 1.004 | 2.014 | 3.5 | 20.7 |
| 8 19 | 21 15.40 | −23 33.6 | 0.999 | 1.995 | 7.1 | 20.8 |
| 8 29 | 21 6.19 | −24 20.9 | 1.016 | 1.978 | 12.5 | 21.1 |
| 9 8 | 20 59.52 | −24 45.3 | 1.053 | 1.960 | 17.6 | 21.3 |
| 9 18 | 20 56.37 | −24 46.5 | 1.107 | 1.944 | 21.9 | 21.5 |

**69950** 1998 $VW_4$ 8 10.9 280°.67 2°.1/ 9.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.23 | −20 56.2 | 2.418 | 3.307 | 10.0 | 19.3 |
| 7 20 | 21 40.68 | −21 21.0 | 2.331 | 3.286 | 7.2 | 19.0 |
| 7 30 | 21 33.51 | −21 47.4 | 2.270 | 3.266 | 4.2 | 18.8 |
| 8 9 | 21 25.30 | −22 11.6 | 2.236 | 3.245 | 2.1 | 18.6 |
| 8 19 | 21 16.77 | −22 29.8 | 2.231 | 3.224 | 4.1 | 18.8 |
| 8 29 | 21 8.76 | −22 39.4 | 2.253 | 3.204 | 7.3 | 18.9 |
| 9 8 | 21 2.03 | −22 38.7 | 2.301 | 3.183 | 10.3 | 19.1 |
| 9 18 | 20 57.16 | −22 27.8 | 2.371 | 3.161 | 13.0 | 19.2 |

**391947** 2008 $VQ_{72}$ 8 10.9 247°.43 1°.9/ 9.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.87 | −18 28.3 | 2.060 | 2.951 | 11.4 | 21.8 |
| 7 20 | 21 41.35 | −19 15.5 | 1.982 | 2.938 | 8.2 | 21.6 |
| 7 30 | 21 33.97 | −20 7.9 | 1.927 | 2.924 | 4.6 | 21.4 |
| 8 9 | 21 25.38 | −21 0.2 | 1.900 | 2.910 | 1.9 | 21.1 |
| 8 19 | 21 16.42 | −21 47.1 | 1.900 | 2.896 | 4.4 | 21.3 |
| 8 29 | 21 8.07 | −22 24.2 | 1.928 | 2.882 | 8.1 | 21.5 |
| 9 8 | 21 1.22 | −22 48.7 | 1.981 | 2.867 | 11.6 | 21.7 |
| 9 18 | 20 56.50 | −22 59.9 | 2.055 | 2.852 | 14.5 | 21.9 |

**345902** 2007 $RO_{114}$ 8 10.9 222°.37 2°.2/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.83 | − 7 44.3 | 1.879 | 2.749 | 13.3 | 21.3 |
| 7 20 | 21 40.56 | − 7 53.1 | 1.808 | 2.748 | 9.9 | 21.1 |
| 7 30 | 21 33.49 | − 8 14.5 | 1.760 | 2.747 | 6.2 | 20.9 |
| 8 9 | 21 25.29 | − 8 46.0 | 1.738 | 2.746 | 2.7 | 20.7 |
| 8 19 | 21 16.83 | − 9 23.9 | 1.742 | 2.745 | 3.5 | 20.7 |
| 8 29 | 21 9.08 | −10 3.5 | 1.774 | 2.744 | 7.3 | 21.0 |
| 9 8 | 21 2.89 | −10 40.6 | 1.830 | 2.743 | 10.9 | 21.2 |
| 9 18 | 20 58.83 | −11 11.7 | 1.909 | 2.742 | 14.1 | 21.4 |

**313312** 2002 $EL_{38}$ 8 10.9 217°.37 0°.1/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.62 | −13 3.5 | 1.625 | 2.511 | 14.2 | 22.0 |
| 7 20 | 21 43.64 | −13 38.3 | 1.553 | 2.505 | 10.3 | 21.7 |
| 7 30 | 21 35.37 | −14 24.1 | 1.502 | 2.499 | 5.8 | 21.4 |
| 8 9 | 21 25.62 | −15 15.8 | 1.478 | 2.491 | 1.0 | 21.1 |
| 8 19 | 21 15.46 | −16 7.2 | 1.480 | 2.483 | 4.0 | 21.3 |
| 8 29 | 21 6.12 | −16 52.7 | 1.509 | 2.475 | 8.7 | 21.6 |
| 9 8 | 20 58.69 | −17 27.9 | 1.562 | 2.466 | 13.0 | 21.8 |
| 9 18 | 20 53.89 | −17 50.6 | 1.635 | 2.456 | 16.6 | 22.0 |

**327200** 2005 $NV_{7}$ 8 10.9 4°.75 4°.6/13.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.29 | − 7 38.5 | 0.898 | 1.814 | 19.9 | 19.4 |
| 7 20 | 21 38.45 | − 6 58.3 | 0.850 | 1.812 | 15.2 | 19.1 |
| 7 30 | 21 32.71 | − 6 38.7 | 0.820 | 1.813 | 9.9 | 18.8 |
| 8 9 | 21 25.18 | − 6 38.6 | 0.808 | 1.816 | 5.3 | 18.6 |
| 8 19 | 21 17.35 | − 6 54.0 | 0.817 | 1.821 | 5.9 | 18.6 |
| 8 29 | 21 10.86 | − 7 18.6 | 0.846 | 1.828 | 10.8 | 18.9 |
| 9 8 | 21 7.03 | − 7 44.7 | 0.893 | 1.837 | 15.8 | 19.2 |
| 9 18 | 21 6.54 | − 8 6.2 | 0.958 | 1.849 | 20.2 | 19.5 |

**131152** 2001 $CH_{9}$ 8 10.9 133°.67 2°.8/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 48.03 | −20 58.3 | 1.925 | 2.820 | 11.9 | 20.3 |
| 7 20 | 21 42.12 | −21 45.1 | 1.868 | 2.826 | 8.5 | 20.1 |
| 7 30 | 21 34.33 | −22 33.9 | 1.835 | 2.831 | 4.9 | 19.9 |
| 8 9 | 21 25.44 | −23 19.0 | 1.829 | 2.837 | 2.8 | 19.8 |
| 8 19 | 21 16.37 | −23 55.3 | 1.850 | 2.842 | 5.0 | 19.9 |
| 8 29 | 21 8.15 | −24 19.1 | 1.898 | 2.847 | 8.5 | 20.1 |
| 9 8 | 21 1.62 | −24 29.0 | 1.970 | 2.852 | 11.8 | 20.4 |
| 9 18 | 20 57.36 | −24 25.2 | 2.063 | 2.856 | 14.6 | 20.6 |

**216712** 2005 $EN_{1}$ 8 10.9 74°.49 0°.7/10.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 49.31 | −14 21.9 | 1.344 | 2.243 | 15.7 | 20.3 |
| 7 20 | 21 43.45 | −15 0.6 | 1.298 | 2.258 | 11.2 | 20.0 |
| 7 30 | 21 35.20 | −15 49.4 | 1.274 | 2.272 | 6.2 | 19.8 |
| 8 9 | 21 25.59 | −16 41.5 | 1.274 | 2.287 | 1.1 | 19.5 |
| 8 19 | 21 15.87 | −17 29.9 | 1.299 | 2.302 | 4.5 | 19.8 |
| 8 29 | 21 7.37 | −18 8.9 | 1.349 | 2.316 | 9.4 | 20.1 |
| 9 8 | 21 1.16 | −18 35.0 | 1.422 | 2.331 | 13.7 | 20.4 |
| 9 18 | 20 57.80 | −18 47.1 | 1.514 | 2.346 | 17.2 | 20.7 |

**512602** 2016 $TZ_{8}$ 8 10.9 320°.28 3°.0/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.44 | − 7 56.1 | 1.675 | 2.548 | 14.5 | 20.8 |
| 7 20 | 21 41.94 | − 7 35.6 | 1.601 | 2.542 | 10.9 | 20.5 |
| 7 30 | 21 34.37 | − 7 27.3 | 1.549 | 2.535 | 7.0 | 20.3 |
| 8 9 | 21 25.48 | − 7 29.8 | 1.522 | 2.529 | 3.5 | 20.1 |
| 8 19 | 21 16.24 | − 7 40.5 | 1.521 | 2.523 | 4.2 | 20.1 |
| 8 29 | 21 7.79 | − 7 55.8 | 1.546 | 2.517 | 8.1 | 20.3 |
| 9 8 | 21 1.09 | − 8 11.8 | 1.595 | 2.512 | 12.0 | 20.5 |
| 9 18 | 20 56.82 | − 8 25.2 | 1.666 | 2.507 | 15.5 | 20.8 |

**254137** 2004 $PN_{53}$ 8 10.9 323°.85 1°.9/ 9.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.20 | −17 37.0 | 1.839 | 2.739 | 12.1 | 20.0 |
| 7 20 | 21 38.88 | −18 27.8 | 1.765 | 2.726 | 8.7 | 19.8 |
| 7 30 | 21 32.65 | −19 25.5 | 1.714 | 2.713 | 4.8 | 19.5 |
| 8 9 | 21 25.19 | −20 24.3 | 1.689 | 2.701 | 1.9 | 19.3 |
| 8 19 | 21 17.38 | −21 18.3 | 1.691 | 2.689 | 4.5 | 19.5 |
| 8 29 | 21 10.23 | −22 2.3 | 1.719 | 2.678 | 8.5 | 19.7 |
| 9 8 | 21 4.64 | −22 32.9 | 1.771 | 2.667 | 12.2 | 19.9 |
| 9 18 | 21 1.27 | −22 48.9 | 1.843 | 2.656 | 15.3 | 20.1 |

**512034** 2015 $MF_{66}$ 8 10.9 13°.81 0°.8/10.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.13 | −13 31.4 | 1.722 | 2.616 | 13.1 | 20.3 |
| 7 20 | 21 38.80 | −14 34.8 | 1.660 | 2.618 | 9.3 | 20.1 |
| 7 30 | 21 32.57 | −15 49.0 | 1.622 | 2.620 | 5.1 | 19.9 |
| 8 9 | 21 25.17 | −17 7.8 | 1.609 | 2.622 | 1.0 | 19.6 |
| 8 19 | 21 17.52 | −18 24.3 | 1.623 | 2.625 | 4.0 | 19.8 |
| 8 29 | 21 10.62 | −19 31.9 | 1.664 | 2.628 | 8.2 | 20.1 |
| 9 8 | 21 5.38 | −20 26.2 | 1.729 | 2.632 | 12.0 | 20.3 |
| 9 18 | 21 2.37 | −21 4.8 | 1.814 | 2.636 | 15.2 | 20.5 |

**146814** 2001 $YV_{95}$ 8 10.9 221°.09 1°.5/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.24 | −17 49.1 | 2.138 | 3.028 | 11.1 | 19.7 |
| 7 20 | 21 40.02 | −18 26.8 | 2.071 | 3.028 | 7.9 | 19.5 |
| 7 30 | 21 33.14 | −19 9.0 | 2.029 | 3.027 | 4.4 | 19.3 |
| 8 9 | 21 25.26 | −19 51.1 | 2.014 | 3.026 | 1.5 | 19.1 |
| 8 19 | 21 17.17 | −20 28.7 | 2.027 | 3.025 | 3.9 | 19.3 |
| 8 29 | 21 9.75 | −20 58.0 | 2.067 | 3.024 | 7.4 | 19.5 |
| 9 8 | 21 3.75 | −21 16.9 | 2.132 | 3.023 | 10.6 | 19.7 |
| 9 18 | 20 59.72 | −21 24.5 | 2.220 | 3.023 | 13.4 | 19.9 |

**475658** 2006 $UR_{341}$ 8 10.9 203°.70 1°.0/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 45.80 | −16 31.9 | 2.188 | 3.075 | 11.0 | 22.1 |
| 7 20 | 21 40.38 | −17 2.9 | 2.119 | 3.073 | 7.9 | 21.9 |
| 7 30 | 21 33.33 | −17 39.0 | 2.075 | 3.072 | 4.3 | 21.7 |
| 8 9 | 21 25.30 | −18 16.1 | 2.057 | 3.070 | 1.1 | 21.5 |
| 8 19 | 21 17.04 | −18 50.2 | 2.067 | 3.068 | 3.5 | 21.6 |
| 8 29 | 21 9.43 | −19 17.6 | 2.106 | 3.066 | 7.1 | 21.9 |
| 9 8 | 21 3.22 | −19 36.0 | 2.169 | 3.063 | 10.3 | 22.1 |
| 9 18 | 20 58.94 | −19 44.4 | 2.255 | 3.061 | 13.1 | 22.3 |

**12816** 1996 $ES_{1}$ 8 10.9 43°.76 1°.0/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.84 | −10 16.9 | 1.875 | 2.756 | 12.8 | 17.9 |
| 7 20 | 21 39.02 | −10 43.6 | 1.823 | 2.772 | 9.3 | 17.7 |
| 7 30 | 21 32.56 | −11 20.9 | 1.796 | 2.788 | 5.4 | 17.5 |
| 8 9 | 21 25.16 | −12 4.9 | 1.793 | 2.805 | 1.6 | 17.3 |
| 8 19 | 21 17.68 | −12 51.2 | 1.818 | 2.823 | 3.1 | 17.5 |
| 8 29 | 21 10.99 | −13 34.9 | 1.870 | 2.840 | 7.0 | 17.7 |
| 9 8 | 21 5.84 | −14 12.2 | 1.946 | 2.858 | 10.4 | 18.0 |
| 9 18 | 21 2.71 | −14 40.8 | 2.045 | 2.876 | 13.4 | 18.2 |

**83077** 2001 $QQ_{218}$ 8 10.9 27°.16 1°.0/10.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.74 | −15 44.5 | 1.124 | 2.038 | 16.9 | 18.8 |
| 7 20 | 21 41.93 | −16 7.0 | 1.081 | 2.048 | 12.1 | 18.6 |
| 7 30 | 21 34.47 | −16 38.7 | 1.059 | 2.059 | 6.7 | 18.3 |
| 8 9 | 21 25.50 | −17 13.2 | 1.058 | 2.071 | 1.3 | 18.0 |
| 8 19 | 21 16.42 | −17 43.7 | 1.081 | 2.085 | 5.0 | 18.3 |
| 8 29 | 21 8.72 | −18 4.6 | 1.127 | 2.099 | 10.2 | 18.6 |
| 9 8 | 21 3.54 | −18 12.9 | 1.194 | 2.114 | 14.8 | 18.9 |
| 9 18 | 21 1.44 | −18 8.0 | 1.280 | 2.130 | 18.7 | 19.2 |

**444223** 2005 $TN_{187}$ 8 10.9 262°.09 4°.2/14.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.37 | − 0 47.3 | 2.219 | 3.056 | 12.7 | 21.0 |
| 7 20 | 21 38.62 | − 0 48.2 | 2.141 | 3.053 | 10.0 | 20.8 |
| 7 30 | 21 32.36 | − 1 4.7 | 2.085 | 3.051 | 7.2 | 20.6 |
| 8 9 | 21 25.15 | − 1 35.7 | 2.055 | 3.048 | 4.8 | 20.5 |
| 8 19 | 21 17.70 | − 2 18.5 | 2.052 | 3.045 | 4.5 | 20.5 |
| 8 29 | 21 10.79 | − 3 9.1 | 2.076 | 3.042 | 6.8 | 20.6 |
| 9 8 | 21 5.12 | − 4 2.8 | 2.127 | 3.039 | 9.6 | 20.8 |
| 9 18 | 21 1.23 | − 4 55.1 | 2.200 | 3.036 | 12.4 | 21.0 |

**473298** 2015 $RV_{16}$ 8 10.9 28°.44 5°.3/15.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 42.40 | + 2 21.5 | 2.074 | 2.902 | 13.8 | 20.5 |
| 7 20 | 21 37.98 | + 2 18.5 | 2.003 | 2.905 | 11.1 | 20.3 |
| 7 30 | 21 32.01 | + 1 56.6 | 1.953 | 2.908 | 8.3 | 20.1 |
| 8 9 | 21 25.10 | + 1 16.7 | 1.927 | 2.911 | 5.9 | 20.0 |
| 8 19 | 21 17.96 | + 0 21.8 | 1.928 | 2.915 | 5.4 | 20.0 |
| 8 29 | 21 11.43 | − 0 43.5 | 1.955 | 2.918 | 7.3 | 20.1 |
| 9 8 | 21 6.21 | − 1 53.2 | 2.008 | 2.922 | 10.0 | 20.3 |
| 9 18 | 21 2.84 | − 3 1.9 | 2.084 | 2.927 | 12.7 | 20.5 |

**95757** 2003 $EZ_{34}$ 8 10.9 52°.94 3°.0/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.08 | − 6 50.6 | 1.452 | 2.331 | 16.0 | 19.0 |
| 7 20 | 21 41.73 | − 6 52.9 | 1.400 | 2.343 | 12.0 | 18.8 |
| 7 30 | 21 34.23 | − 7 11.6 | 1.369 | 2.356 | 7.6 | 18.6 |
| 8 9 | 21 25.47 | − 7 43.5 | 1.361 | 2.369 | 3.6 | 18.4 |
| 8 19 | 21 16.57 | − 8 23.8 | 1.379 | 2.382 | 4.3 | 18.5 |
| 8 29 | 21 8.71 | − 9 6.8 | 1.422 | 2.395 | 8.4 | 18.7 |
| 9 8 | 21 2.84 | − 9 47.0 | 1.488 | 2.409 | 12.4 | 19.0 |
| 9 18 | 20 59.56 | −10 20.4 | 1.575 | 2.423 | 15.9 | 19.3 |

**246305** 2007 $TD_{135}$ 8 10.9 281°.98 0°.1/11.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.31 | −12 41.2 | 1.812 | 2.699 | 12.9 | 21.0 |
| 7 20 | 21 40.38 | −13 16.1 | 1.737 | 2.690 | 9.4 | 20.8 |
| 7 30 | 21 33.50 | −14 1.3 | 1.684 | 2.680 | 5.3 | 20.5 |
| 8 9 | 21 25.37 | −14 52.6 | 1.657 | 2.670 | 0.9 | 20.2 |
| 8 19 | 21 16.88 | −15 44.5 | 1.657 | 2.661 | 3.6 | 20.4 |
| 8 29 | 21 9.07 | −16 31.9 | 1.684 | 2.651 | 7.9 | 20.6 |
| 9 8 | 21 2.85 | −17 10.4 | 1.735 | 2.641 | 11.8 | 20.8 |
| 9 18 | 20 58.89 | −17 37.7 | 1.807 | 2.632 | 15.1 | 21.0 |

**230408** 2002 $KY_{2}$ 8 10.9 153°.25 2°.1/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.96 | − 6 33.3 | 2.302 | 3.155 | 11.8 | 21.6 |
| 7 20 | 21 41.07 | − 6 52.2 | 2.234 | 3.165 | 8.8 | 21.4 |
| 7 30 | 21 33.67 | − 7 22.6 | 2.190 | 3.173 | 5.5 | 21.3 |
| 8 9 | 21 25.38 | − 8 1.9 | 2.174 | 3.181 | 2.6 | 21.1 |
| 8 19 | 21 16.93 | − 8 46.6 | 2.186 | 3.188 | 3.1 | 21.1 |
| 8 29 | 21 9.10 | − 9 32.8 | 2.227 | 3.195 | 6.2 | 21.3 |
| 9 8 | 21 2.59 | −10 16.4 | 2.295 | 3.200 | 9.3 | 21.6 |
| 9 18 | 20 57.89 | −10 54.6 | 2.386 | 3.206 | 12.1 | 21.7 |

**465620** 2009 $FT_{36}$ 8 10.9 35°.33 2°.8/ 9.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.00 | −17 49.0 | 1.074 | 1.992 | 17.1 | 20.6 |
| 7 20 | 21 42.27 | −18 46.9 | 1.034 | 2.003 | 12.2 | 20.3 |
| 7 30 | 21 34.73 | −19 52.8 | 1.014 | 2.015 | 6.8 | 20.1 |
| 8 9 | 21 25.57 | −20 57.1 | 1.016 | 2.027 | 2.8 | 19.9 |
| 8 19 | 21 16.27 | −21 50.7 | 1.041 | 2.040 | 6.3 | 20.1 |
| 8 29 | 21 8.42 | −22 26.8 | 1.088 | 2.054 | 11.4 | 20.4 |
| 9 8 | 21 3.23 | −22 43.1 | 1.156 | 2.068 | 15.9 | 20.8 |
| 9 18 | 21 1.27 | −22 40.0 | 1.242 | 2.083 | 19.7 | 21.1 |

**504483** 2008 $FE_{72}$ 8 10.9 214°.66 1°.4/ 9.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 49.18 | −16 21.2 | 1.729 | 2.619 | 13.2 | 22.1 |
| 7 20 | 21 43.25 | −17 6.6 | 1.658 | 2.614 | 9.5 | 21.9 |
| 7 30 | 21 35.15 | −17 59.6 | 1.610 | 2.608 | 5.3 | 21.7 |
| 8 9 | 21 25.66 | −18 54.3 | 1.589 | 2.602 | 1.5 | 21.4 |
| 8 19 | 21 15.80 | −19 44.7 | 1.595 | 2.595 | 4.4 | 21.6 |
| 8 29 | 21 6.74 | −20 25.3 | 1.628 | 2.587 | 8.8 | 21.8 |
| 9 8 | 20 59.51 | −20 53.0 | 1.684 | 2.579 | 12.7 | 22.0 |
| 9 18 | 20 54.78 | −21 6.7 | 1.762 | 2.571 | 16.1 | 22.3 |

**23164** Badger 8 10.9 351°.34 0°.3/11.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 45.02 | −13 7.8 | 1.648 | 2.541 | 13.7 | 18.5 |
| 7 20 | 21 40.23 | −13 25.9 | 1.582 | 2.537 | 9.9 | 18.3 |
| 7 30 | 21 33.42 | −13 53.7 | 1.538 | 2.535 | 5.6 | 18.0 |
| 8 9 | 21 25.36 | −14 26.9 | 1.519 | 2.532 | 1.1 | 17.7 |
| 8 19 | 21 17.02 | −15 0.9 | 1.526 | 2.530 | 3.7 | 17.9 |
| 8 29 | 21 9.50 | −15 30.9 | 1.559 | 2.529 | 8.1 | 18.1 |
| 9 8 | 21 3.74 | −15 53.2 | 1.616 | 2.528 | 12.1 | 18.4 |
| 9 18 | 21 0.36 | −16 5.8 | 1.693 | 2.528 | 15.5 | 18.6 |

**432640** 2010 $VH_{186}$ 8 10.9 292°.10 3°.5/ 9.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 51.13 | −21 49.4 | 1.373 | 2.279 | 15.0 | 21.7 |
| 7 20 | 21 45.17 | −22 18.2 | 1.305 | 2.267 | 10.9 | 21.4 |
| 7 30 | 21 36.44 | −22 49.0 | 1.258 | 2.255 | 6.4 | 21.2 |
| 8 9 | 21 25.89 | −23 14.8 | 1.235 | 2.243 | 3.5 | 20.9 |
| 8 19 | 21 14.89 | −23 28.9 | 1.236 | 2.232 | 6.4 | 21.1 |
| 8 29 | 21 4.96 | −23 27.3 | 1.263 | 2.220 | 11.0 | 21.3 |
| 9 8 | 20 57.43 | −23 9.1 | 1.311 | 2.209 | 15.4 | 21.6 |
| 9 18 | 20 53.08 | −22 36.0 | 1.377 | 2.197 | 19.2 | 21.8 |

**478701** 2012 $UG_{36}$ 8 10.9 318°.74 1°.5/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 44.55 | −10 2.5 | 1.510 | 2.400 | 14.8 | 21.0 |
| 7 20 | 21 40.16 | −10 17.6 | 1.433 | 2.385 | 11.0 | 20.8 |
| 7 30 | 21 33.53 | −10 46.7 | 1.377 | 2.370 | 6.6 | 20.5 |
| 8 9 | 21 25.40 | −11 26.5 | 1.344 | 2.356 | 2.1 | 20.2 |
| 8 19 | 21 16.80 | −12 11.8 | 1.337 | 2.342 | 3.9 | 20.2 |
| 8 29 | 21 8.95 | −12 56.7 | 1.356 | 2.329 | 8.7 | 20.5 |
| 9 8 | 21 2.94 | −13 35.8 | 1.397 | 2.316 | 13.1 | 20.7 |
| 9 18 | 20 59.52 | −14 5.3 | 1.458 | 2.304 | 17.0 | 20.9 |

**440976** 2007 $CV_{22}$ 8 10.9 120°.62 0°.1/11.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 43.34 | −11 17.6 | 2.495 | 3.367 | 10.3 | 21.2 |
| 7 20 | 21 38.43 | −12 17.2 | 2.432 | 3.378 | 7.4 | 21.0 |
| 7 30 | 21 32.18 | −13 25.5 | 2.395 | 3.389 | 4.2 | 20.8 |
| 8 9 | 21 25.14 | −14 38.3 | 2.386 | 3.399 | 0.7 | 20.6 |
| 8 19 | 21 17.95 | −15 50.7 | 2.407 | 3.410 | 2.7 | 20.8 |
| 8 29 | 21 11.30 | −16 58.3 | 2.456 | 3.420 | 6.0 | 21.0 |
| 9 8 | 21 5.81 | −17 57.5 | 2.533 | 3.429 | 8.9 | 21.2 |
| 9 18 | 21 1.93 | −18 46.0 | 2.633 | 3.439 | 11.5 | 21.4 |

**92182** 1999 $XG_{203}$ 8 10.9 209°.42 5°.5/ 4.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.66 | −33 40.6 | 2.778 | 3.660 | 9.1 | 19.5 |
| 7 20 | 21 40.93 | −34 48.3 | 2.719 | 3.655 | 7.2 | 19.4 |
| 7 30 | 21 33.65 | −35 50.0 | 2.686 | 3.650 | 5.8 | 19.3 |
| 8 9 | 21 25.40 | −36 40.6 | 2.680 | 3.645 | 5.7 | 19.3 |
| 8 19 | 21 16.93 | −37 16.1 | 2.701 | 3.639 | 7.0 | 19.4 |
| 8 29 | 21 9.03 | −37 34.2 | 2.749 | 3.633 | 8.9 | 19.5 |
| 9 8 | 21 2.44 | −37 35.0 | 2.820 | 3.626 | 10.8 | 19.6 |
| 9 18 | 20 57.68 | −37 19.8 | 2.912 | 3.620 | 12.6 | 19.8 |

**70433** 1999 $TS_3$ 8 10.9 14°.20 0°.1/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 46.12 | −13 45.3 | 1.497 | 2.393 | 14.5 | 19.4 |
| 7 20 | 21 41.14 | −14 7.5 | 1.437 | 2.395 | 10.5 | 19.2 |
| 7 30 | 21 33.97 | −14 39.5 | 1.400 | 2.398 | 5.9 | 18.9 |
| 8 9 | 21 25.47 | −15 16.4 | 1.387 | 2.400 | 1.0 | 18.6 |
| 8 19 | 21 16.72 | −15 52.9 | 1.399 | 2.404 | 4.0 | 18.8 |
| 8 29 | 21 8.94 | −16 23.7 | 1.437 | 2.407 | 8.7 | 19.1 |
| 9 8 | 21 3.11 | −16 45.2 | 1.498 | 2.411 | 12.9 | 19.3 |
| 9 18 | 20 59.87 | −16 55.6 | 1.579 | 2.416 | 16.4 | 19.6 |

**392120** Heidiursula 8 10.9 303°.96 15°.0/24.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 41.14 | +19 27.3 | 1.045 | 1.833 | 26.8 | 21.0 |
| 7 20 | 21 38.53 | +19 28.5 | 0.968 | 1.819 | 24.1 | 20.8 |
| 7 30 | 21 33.01 | +18 33.9 | 0.902 | 1.805 | 21.0 | 20.5 |
| 8 9 | 21 25.37 | +16 34.7 | 0.852 | 1.792 | 17.7 | 20.2 |
| 8 19 | 21 16.89 | +13 29.4 | 0.820 | 1.779 | 15.4 | 20.1 |
| 8 29 | 21 9.26 | + 9 28.7 | 0.808 | 1.766 | 15.4 | 20.0 |
| 9 8 | 21 4.08 | + 4 56.4 | 0.818 | 1.754 | 17.9 | 20.1 |
| 9 18 | 21 2.42 | + 0 20.5 | 0.849 | 1.742 | 21.8 | 20.3 |

**173638** 2001 $FQ_{125}$ 8 10.9 99°.42 0°.9/10.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 50.90 | −15 26.0 | 1.549 | 2.440 | 14.4 | 20.5 |
| 7 20 | 21 44.37 | −16 0.4 | 1.502 | 2.458 | 10.3 | 20.3 |
| 7 30 | 21 35.66 | −16 42.2 | 1.477 | 2.475 | 5.7 | 20.1 |
| 8 9 | 21 25.74 | −17 25.5 | 1.479 | 2.492 | 1.1 | 19.8 |
| 8 19 | 21 15.76 | −18 4.5 | 1.506 | 2.508 | 4.2 | 20.1 |
| 8 29 | 21 6.91 | −18 34.6 | 1.560 | 2.524 | 8.7 | 20.4 |
| 9 8 | 21 0.15 | −18 53.2 | 1.638 | 2.540 | 12.6 | 20.6 |
| 9 18 | 20 56.04 | −18 59.6 | 1.737 | 2.555 | 15.9 | 20.9 |

**12023** 1996 $YJ$ 8 10.9 320°.14 3°.7/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 7 10 | 21 47.62 | − 7 52.0 | 1.253 | 2.142 | 17.3 | 17.8 |
| 7 20 | 21 42.73 | − 7 24.1 | 1.180 | 2.129 | 13.2 | 17.5 |
| 7 30 | 21 35.13 | − 7 11.7 | 1.127 | 2.116 | 8.5 | 17.2 |
| 8 9 | 21 25.71 | − 7 13.5 | 1.096 | 2.103 | 4.3 | 16.9 |
| 8 19 | 21 15.72 | − 7 26.8 | 1.089 | 2.092 | 5.2 | 16.9 |
| 8 29 | 21 6.67 | − 7 46.8 | 1.105 | 2.081 | 9.9 | 17.2 |
| 9 8 | 20 59.88 | − 8 8.0 | 1.143 | 2.070 | 14.8 | 17.4 |
| 9 18 | 20 56.19 | − 8 25.7 | 1.200 | 2.060 | 19.0 | 17.6 |

**268928** 2007 $DE_4$ 8 10.9 223°.94 2°.3/12.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 10 | 21 47.45 | − 7 33.8 | 1.807 | 2.676 | 13.8 | 21.2 |
| 7 20 | 21 41.89 | − 7 47.5 | 1.730 | 2.670 | 10.4 | 21.0 |
| 7 30 | 21 34.36 | − 8 15.0 | 1.676 | 2.663 | 6.5 | 20.7 |
| 8 9 | 21 25.55 | − 8 53.4 | 1.648 | 2.657 | 2.8 | 20.5 |
| 8 19 | 21 16.39 | − 9 38.7 | 1.646 | 2.649 | 3.7 | 20.5 |
| 8 29 | 21 7.92 | −10 25.7 | 1.672 | 2.642 | 7.6 | 20.8 |
| 9 8 | 21 1.09 | −11 9.5 | 1.722 | 2.634 | 11.5 | 21.0 |
| 9 18 | 20 56.53 | −11 46.4 | 1.795 | 2.626 | 14.9 | 21.2 |

**412008** 2012 $PU_{16}$ 8 10.9 327°.36 6°.9/10.1 15

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|---|---|---|---|---|---|---|
| 7 10 | 22 11.07 | −31 25.6 | 0.962 | 1.862 | 20.3 | 19.8 |
| 7 20 | 22 0.36 | −30 46.8 | 0.904 | 1.858 | 15.5 | 19.5 |
| 7 30 | 21 45.16 | −29 48.1 | 0.865 | 1.854 | 10.3 | 19.2 |
| 8 9 | 21 27.36 | −28 20.5 | 0.849 | 1.851 | 6.9 | 19.0 |
| 8 19 | 21 9.59 | −26 22.7 | 0.856 | 1.848 | 9.3 | 19.1 |
| 8 29 | 20 54.51 | −24 2.0 | 0.888 | 1.845 | 14.5 | 19.4 |
| 9 8 | 20 43.85 | −21 30.8 | 0.941 | 1.843 | 19.7 | 19.7 |
| 9 18 | 20 38.19 | −18 59.8 | 1.012 | 1.841 | 24.0 | 20.0 |

**440439** 2005 $SA_{40}$ 8 10.9 276°.82 3°.4/ 8.3 18

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|---|---|---|---|---|---|---|
| 7 10 | 21 47.25 | −24 5.3 | 2.148 | 3.042 | 10.9 | 21.0 |
| 7 20 | 21 41.59 | −24 42.0 | 2.075 | 3.030 | 7.9 | 20.8 |
| 7 30 | 21 34.11 | −25 18.3 | 2.026 | 3.019 | 4.9 | 20.5 |
| 8 9 | 21 25.51 | −25 49.2 | 2.004 | 3.008 | 3.4 | 20.4 |
| 8 19 | 21 16.63 | −26 10.2 | 2.010 | 2.996 | 5.3 | 20.5 |
| 8 29 | 21 8.43 | −26 18.4 | 2.043 | 2.985 | 8.5 | 20.7 |
| 9 8 | 21 1.75 | −26 12.8 | 2.100 | 2.973 | 11.5 | 20.9 |
| 9 18 | 20 57.18 | −25 54.2 | 2.178 | 2.962 | 14.2 | 21.1 |

**505512** 2013 $WL_{109}$ 8 10.9 182°.72 2°.4/ 8.8 18

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|---|---|---|---|---|---|---|
| 7 10 | 21 47.79 | −20 20.3 | 2.361 | 3.248 | 10.3 | 22.1 |
| 7 20 | 21 41.78 | −21 16.9 | 2.295 | 3.248 | 7.4 | 21.9 |
| 7 30 | 21 34.15 | −22 16.1 | 2.254 | 3.249 | 4.3 | 21.7 |
| 8 9 | 21 25.53 | −23 12.8 | 2.241 | 3.248 | 2.4 | 21.6 |
| 8 19 | 21 16.67 | −24 2.2 | 2.257 | 3.247 | 4.4 | 21.7 |
| 8 29 | 21 8.43 | −24 40.7 | 2.301 | 3.245 | 7.5 | 21.9 |
| 9 8 | 21 1.56 | −25 6.2 | 2.371 | 3.243 | 10.4 | 22.1 |
| 9 18 | 20 56.60 | −25 18.5 | 2.463 | 3.240 | 13.0 | 22.3 |

**298032** 2002 $PG_{142}$ 8 10.9 333°.74 2°.2/ 9.9 18

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|---|---|---|---|---|---|---|
| 7 10 | 21 48.64 | −20 28.9 | 1.402 | 2.309 | 14.7 | 19.6 |
| 7 20 | 21 43.30 | −20 26.2 | 1.330 | 2.293 | 10.6 | 19.3 |
| 7 30 | 21 35.37 | −20 24.9 | 1.279 | 2.278 | 6.1 | 19.0 |
| 8 9 | 21 25.76 | −20 20.1 | 1.252 | 2.263 | 2.2 | 18.7 |
| 8 19 | 21 15.73 | −20 7.5 | 1.249 | 2.250 | 5.2 | 18.9 |
| 8 29 | 21 6.70 | −19 44.6 | 1.272 | 2.237 | 10.1 | 19.1 |
| 9 8 | 20 59.90 | −19 10.6 | 1.316 | 2.226 | 14.5 | 19.4 |
| 9 18 | 20 56.08 | −18 26.6 | 1.380 | 2.215 | 18.4 | 19.6 |

**203996** 2003 $TX_{16}$ 8 10.9 340°.21 0°.1/10.9 18 R

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|---|---|---|---|---|---|---|
| 7 10 | 21 46.35 | −14 8.9 | 1.537 | 2.433 | 14.3 | 19.6 |
| 7 20 | 21 41.36 | −14 22.9 | 1.470 | 2.427 | 10.3 | 19.3 |
| 7 30 | 21 34.15 | −14 45.9 | 1.425 | 2.422 | 5.8 | 19.1 |
| 8 9 | 21 25.55 | −15 13.6 | 1.404 | 2.417 | 1.0 | 18.7 |
| 8 19 | 21 16.63 | −15 41.0 | 1.409 | 2.413 | 3.9 | 18.9 |
| 8 29 | 21 8.60 | −16 3.6 | 1.439 | 2.409 | 8.7 | 19.2 |
| 9 8 | 21 2.48 | −16 17.9 | 1.493 | 2.406 | 12.9 | 19.4 |
| 9 18 | 20 58.95 | −16 22.2 | 1.567 | 2.403 | 16.5 | 19.7 |

**485286** 2010 $YB_4$ 8 11.0 251°.56 1°.3/12.1 17

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|---|---|---|---|---|---|---|
| 7 10 | 21 46.25 | −10 19.0 | 2.757 | 3.617 | 9.8 | 22.1 |
| 7 20 | 21 40.51 | −10 13.5 | 2.664 | 3.601 | 7.3 | 21.9 |
| 7 30 | 21 33.40 | −10 14.4 | 2.597 | 3.585 | 4.4 | 21.7 |
| 8 9 | 21 25.43 | −10 20.3 | 2.558 | 3.568 | 1.7 | 21.5 |
| 8 19 | 21 17.19 | −10 29.2 | 2.549 | 3.551 | 2.6 | 21.6 |
| 8 29 | 21 9.37 | −10 38.9 | 2.568 | 3.534 | 5.6 | 21.7 |
| 9 8 | 21 2.61 | −10 47.3 | 2.615 | 3.516 | 8.5 | 21.9 |
| 9 18 | 20 57.40 | −10 52.7 | 2.686 | 3.499 | 11.1 | 22.1 |

**522852** 2016 $NL_{86}$ 8 11.0 39°.60 3°.3/12.9 17

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|---|---|---|---|---|---|---|
| 7 10 | 21 47.03 | − 6 55.5 | 1.348 | 2.232 | 16.7 | 20.7 |
| 7 20 | 21 41.84 | − 6 49.4 | 1.297 | 2.243 | 12.6 | 20.5 |
| 7 30 | 21 34.38 | − 7 0.4 | 1.267 | 2.255 | 8.0 | 20.2 |
| 8 9 | 21 25.60 | − 7 25.4 | 1.260 | 2.267 | 3.9 | 20.0 |
| 8 19 | 21 16.66 | − 8 0.0 | 1.277 | 2.280 | 4.6 | 20.1 |
| 8 29 | 21 8.82 | − 8 38.3 | 1.319 | 2.293 | 8.7 | 20.4 |
| 9 8 | 21 3.11 | − 9 14.6 | 1.383 | 2.307 | 12.9 | 20.7 |
| 9 18 | 21 0.10 | − 9 44.6 | 1.468 | 2.321 | 16.5 | 20.9 |