**36045** 1999 $RZ_{12}$ 10 23.9 9°.10 2°.6/21.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 15.23 | + 8 18.8 | 1.887 | 2.739 | 13.5 | 18.1 |
| 9 28 | 2 11.52 | + 7 14.3 | 1.817 | 2.739 | 10.1 | 17.9 |
| 10 8 | 2 5.89 | + 6 1.5 | 1.771 | 2.740 | 6.4 | 17.7 |
| 10 18 | 1 58.95 | + 4 45.7 | 1.752 | 2.742 | 3.0 | 17.5 |
| 10 28 | 1 51.56 | + 3 33.9 | 1.760 | 2.743 | 3.8 | 17.6 |
| 11 7 | 1 44.66 | + 2 32.7 | 1.797 | 2.745 | 7.4 | 17.8 |
| 11 17 | 1 39.07 | + 1 47.3 | 1.859 | 2.747 | 11.0 | 18.0 |
| 11 27 | 1 35.41 | + 1 20.5 | 1.944 | 2.750 | 14.1 | 18.2 |

**23672** Swiggum 10 23.9 83°.31 0°.1/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.76 | +16 5.6 | 1.814 | 2.643 | 14.9 | 18.6 |
| 9 28 | 2 14.14 | +15 3.3 | 1.754 | 2.662 | 11.3 | 18.4 |
| 10 8 | 2 7.49 | +13 46.2 | 1.717 | 2.680 | 7.2 | 18.2 |
| 10 18 | 1 59.52 | +12 19.0 | 1.707 | 2.698 | 2.7 | 18.0 |
| 10 28 | 1 51.22 | +10 48.8 | 1.725 | 2.716 | 1.9 | 18.0 |
| 11 7 | 1 43.61 | + 9 23.3 | 1.772 | 2.734 | 6.2 | 18.3 |
| 11 17 | 1 37.52 | + 8 9.7 | 1.846 | 2.751 | 10.1 | 18.6 |
| 11 27 | 1 33.53 | + 7 12.8 | 1.945 | 2.769 | 13.4 | 18.8 |

**52983** 1998 $UX_{16}$ 10 23.9 16°.65 23°.9/19.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 30.04 | −37 5.9 | 0.970 | 1.774 | 26.6 | 16.7 |
| 9 28 | 2 23.99 | −38 1.7 | 0.961 | 1.783 | 25.3 | 16.6 |
| 10 8 | 2 14.02 | −38 8.0 | 0.963 | 1.795 | 24.3 | 16.6 |
| 10 18 | 2 1.90 | −37 13.9 | 0.978 | 1.808 | 23.9 | 16.7 |
| 10 28 | 1 49.85 | −35 16.2 | 1.008 | 1.824 | 24.1 | 16.7 |
| 11 7 | 1 39.86 | −32 22.3 | 1.052 | 1.842 | 24.9 | 16.9 |
| 11 17 | 1 33.12 | −28 45.7 | 1.113 | 1.861 | 25.9 | 17.1 |
| 11 27 | 1 30.09 | −24 42.2 | 1.188 | 1.882 | 27.1 | 17.3 |

**337052** 1996 $VL_{29}$ 10 23.9 347°.45 7°.0/19.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.29 | − 0 8.7 | 1.178 | 2.064 | 17.5 | 19.5 |
| 9 28 | 2 12.66 | − 1 13.4 | 1.117 | 2.053 | 13.6 | 19.3 |
| 10 8 | 2 7.16 | − 2 19.6 | 1.075 | 2.044 | 9.5 | 19.0 |
| 10 18 | 1 59.56 | − 3 17.7 | 1.056 | 2.035 | 7.1 | 18.9 |
| 10 28 | 1 51.16 | − 3 57.4 | 1.060 | 2.029 | 8.6 | 18.9 |
| 11 7 | 1 43.44 | − 4 11.2 | 1.086 | 2.024 | 12.4 | 19.2 |
| 11 17 | 1 37.67 | − 3 56.1 | 1.134 | 2.020 | 16.7 | 19.4 |
| 11 27 | 1 34.73 | − 3 13.1 | 1.199 | 2.017 | 20.4 | 19.6 |

**412502** 2014 $KY_{36}$ 10 24.0 248°.02 7°.4/17.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.81 | − 6 57.4 | 2.018 | 2.866 | 12.9 | 21.6 |
| 9 28 | 2 14.96 | − 8 14.9 | 1.945 | 2.852 | 10.4 | 21.4 |
| 10 8 | 2 8.10 | − 9 29.0 | 1.895 | 2.838 | 8.2 | 21.2 |
| 10 18 | 1 59.82 | −10 32.0 | 1.872 | 2.823 | 7.4 | 21.1 |
| 10 28 | 1 50.98 | −11 16.9 | 1.875 | 2.808 | 8.5 | 21.2 |
| 11 7 | 1 42.55 | −11 38.8 | 1.905 | 2.793 | 11.0 | 21.3 |
| 11 17 | 1 35.40 | −11 36.0 | 1.959 | 2.777 | 13.7 | 21.5 |
| 11 27 | 1 30.23 | −11 9.0 | 2.033 | 2.761 | 16.2 | 21.6 |

**389205** 2009 $DV_{6}$ 10 24.0 102°.73 5°.2/28.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.28 | +28 14.7 | 2.170 | 2.926 | 15.1 | 21.5 |
| 9 28 | 2 19.06 | +28 44.0 | 2.102 | 2.947 | 12.4 | 21.3 |
| 10 8 | 2 10.65 | +28 55.4 | 2.055 | 2.968 | 9.5 | 21.2 |
| 10 18 | 2 0.76 | +28 47.2 | 2.034 | 2.988 | 6.7 | 21.0 |
| 10 28 | 1 50.41 | +28 20.3 | 2.040 | 3.008 | 5.2 | 21.0 |
| 11 7 | 1 40.67 | +27 38.9 | 2.075 | 3.027 | 6.3 | 21.1 |
| 11 17 | 1 32.48 | +26 48.9 | 2.138 | 3.046 | 8.8 | 21.3 |
| 11 27 | 1 26.51 | +25 57.3 | 2.226 | 3.064 | 11.4 | 21.5 |

**381408** 2008 $HU_{40}$ 10 24.0 232°.80 0°.0/23.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.43 | +15 55.3 | 1.759 | 2.587 | 15.3 | 22.1 |
| 9 28 | 2 15.83 | +15 3.6 | 1.670 | 2.577 | 11.8 | 21.9 |
| 10 8 | 2 8.86 | +13 54.9 | 1.604 | 2.566 | 7.6 | 21.6 |
| 10 18 | 2 0.17 | +12 32.8 | 1.564 | 2.555 | 2.9 | 21.3 |
| 10 28 | 1 50.77 | +11 3.6 | 1.552 | 2.543 | 2.0 | 21.2 |
| 11 7 | 1 41.84 | + 9 36.0 | 1.569 | 2.531 | 6.8 | 21.5 |
| 11 17 | 1 34.43 | + 8 18.3 | 1.612 | 2.518 | 11.3 | 21.7 |
| 11 27 | 1 29.35 | + 7 17.2 | 1.679 | 2.504 | 15.2 | 22.0 |

**127159** 2002 $GA_{140}$ 10 24.0 265°.57 0°.6/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.13 | +11 30.8 | 2.238 | 3.069 | 12.4 | 20.3 |
| 9 28 | 2 13.55 | +11 11.4 | 2.152 | 3.062 | 9.4 | 20.1 |
| 10 8 | 2 7.14 | +10 44.0 | 2.090 | 3.054 | 6.0 | 19.9 |
| 10 18 | 1 59.46 | +10 11.0 | 2.055 | 3.047 | 2.2 | 19.6 |
| 10 28 | 1 51.26 | + 9 36.1 | 2.049 | 3.039 | 1.9 | 19.6 |
| 11 7 | 1 43.41 | + 9 3.9 | 2.072 | 3.032 | 5.7 | 19.8 |
| 11 17 | 1 36.72 | + 8 38.4 | 2.123 | 3.024 | 9.2 | 20.1 |
| 11 27 | 1 31.80 | + 8 23.0 | 2.198 | 3.017 | 12.3 | 20.2 |

**131019** 2000 $XC_{31}$ 10 24.0 248°.14 2°.7/22.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.85 | + 4 29.3 | 1.926 | 2.764 | 13.8 | 19.9 |
| 9 28 | 2 18.95 | + 4 21.0 | 1.839 | 2.752 | 10.5 | 19.7 |
| 10 8 | 2 10.75 | + 4 10.2 | 1.776 | 2.741 | 6.8 | 19.4 |
| 10 18 | 2 0.88 | + 4 0.1 | 1.740 | 2.729 | 3.3 | 19.2 |
| 10 28 | 1 50.30 | + 3 54.8 | 1.733 | 2.716 | 3.8 | 19.2 |
| 11 7 | 1 40.13 | + 3 58.0 | 1.755 | 2.704 | 7.5 | 19.4 |
| 11 17 | 1 31.38 | + 4 12.4 | 1.803 | 2.691 | 11.4 | 19.6 |
| 11 27 | 1 24.83 | + 4 39.5 | 1.876 | 2.677 | 14.8 | 19.8 |

**217171** 2002 $QR_{71}$ 10 24.0 111°.20 4°.0/26.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 24.75 | +22 47.7 | 1.566 | 2.372 | 17.9 | 21.2 |
| 9 28 | 2 19.37 | +23 3.3 | 1.496 | 2.381 | 14.3 | 21.0 |
| 10 8 | 2 11.20 | +22 59.4 | 1.447 | 2.390 | 10.2 | 20.8 |
| 10 18 | 2 1.06 | +22 35.1 | 1.421 | 2.398 | 6.1 | 20.5 |
| 10 28 | 1 50.22 | +21 52.9 | 1.422 | 2.407 | 4.1 | 20.4 |
| 11 7 | 1 40.13 | +20 59.3 | 1.450 | 2.415 | 6.9 | 20.6 |
| 11 17 | 1 31.97 | +20 2.4 | 1.504 | 2.423 | 11.0 | 20.9 |
| 11 27 | 1 26.61 | +19 10.7 | 1.582 | 2.431 | 14.7 | 21.1 |

**149755** 2004 $PE_{18}$ 10 24.0 62°.25 4°.2/27.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.36 | +25 5.2 | 2.019 | 2.805 | 15.1 | 19.6 |
| 9 28 | 2 15.47 | +25 20.3 | 1.949 | 2.818 | 12.2 | 19.4 |
| 10 8 | 2 8.43 | +25 18.2 | 1.900 | 2.831 | 9.0 | 19.3 |
| 10 18 | 1 59.94 | +24 58.3 | 1.876 | 2.845 | 5.8 | 19.1 |
| 10 28 | 1 50.97 | +24 22.6 | 1.879 | 2.858 | 4.2 | 19.0 |
| 11 7 | 1 42.55 | +23 35.7 | 1.910 | 2.872 | 5.9 | 19.2 |
| 11 17 | 1 35.61 | +22 43.9 | 1.969 | 2.885 | 8.9 | 19.4 |
| 11 27 | 1 30.82 | +21 53.9 | 2.052 | 2.899 | 11.9 | 19.6 |

**63508** 2001 $OQ_{81}$ 10 24.0 329°.25 6°.2/28.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.38 | +27 30.6 | 1.583 | 2.381 | 18.1 | 18.3 |
| 9 28 | 2 14.15 | +28 0.2 | 1.493 | 2.365 | 15.1 | 18.1 |
| 10 8 | 2 8.16 | +28 7.7 | 1.421 | 2.350 | 11.6 | 17.8 |
| 10 18 | 2 0.01 | +27 50.2 | 1.372 | 2.335 | 8.2 | 17.6 |
| 10 28 | 1 50.86 | +27 7.8 | 1.347 | 2.321 | 6.2 | 17.5 |
| 11 7 | 1 42.11 | +26 5.7 | 1.347 | 2.308 | 7.8 | 17.5 |
| 11 17 | 1 35.08 | +24 52.4 | 1.372 | 2.296 | 11.4 | 17.7 |
| 11 27 | 1 30.78 | +23 38.4 | 1.419 | 2.285 | 15.1 | 17.9 |

**485888** 2012 $FJ_{42}$ 10 24.0 209°.48 1°.2/22.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.08 | + 8 21.4 | 2.737 | 3.563 | 10.5 | 21.8 |
| 9 28 | 2 13.90 | + 8 7.3 | 2.651 | 3.558 | 7.9 | 21.6 |
| 10 8 | 2 7.20 | + 7 48.8 | 2.589 | 3.553 | 5.0 | 21.4 |
| 10 18 | 1 59.45 | + 7 28.0 | 2.557 | 3.547 | 2.0 | 21.2 |
| 10 28 | 1 51.29 | + 7 7.8 | 2.554 | 3.542 | 2.1 | 21.2 |
| 11 7 | 1 43.44 | + 6 51.5 | 2.582 | 3.535 | 5.1 | 21.4 |
| 11 17 | 1 36.54 | + 6 41.7 | 2.639 | 3.529 | 8.1 | 21.6 |
| 11 27 | 1 31.13 | + 6 40.5 | 2.721 | 3.522 | 10.7 | 21.8 |

**120610** 1995 $WF_{15}$ 10 24.0 117°.39 0°.4/24.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.74 | +15 36.9 | 1.406 | 2.243 | 18.0 | 21.2 |
| 9 28 | 2 19.35 | +15 9.0 | 1.345 | 2.255 | 13.8 | 21.0 |
| 10 8 | 2 11.14 | +14 24.7 | 1.304 | 2.267 | 8.9 | 20.8 |
| 10 18 | 2 1.01 | +13 27.2 | 1.288 | 2.278 | 3.5 | 20.5 |
| 10 28 | 1 50.30 | +12 23.1 | 1.298 | 2.289 | 2.1 | 20.4 |
| 11 7 | 1 40.46 | +11 20.8 | 1.335 | 2.300 | 7.4 | 20.8 |
| 11 17 | 1 32.68 | +10 28.4 | 1.398 | 2.310 | 12.2 | 21.1 |
| 11 27 | 1 27.75 | + 9 51.7 | 1.482 | 2.319 | 16.2 | 21.4 |

**281555** 2008 $UU_{59}$ 10 24.0 59°.48 2°.5/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.36 | +20 37.5 | 1.473 | 2.297 | 18.0 | 20.2 |
| 9 28 | 2 16.62 | +20 20.4 | 1.419 | 2.318 | 14.0 | 20.0 |
| 10 8 | 2 9.30 | +19 43.4 | 1.386 | 2.339 | 9.5 | 19.8 |
| 10 18 | 2 0.27 | +18 48.7 | 1.376 | 2.361 | 4.8 | 19.6 |
| 10 28 | 1 50.82 | +17 41.8 | 1.393 | 2.383 | 2.7 | 19.5 |
| 11 7 | 1 42.27 | +16 31.1 | 1.436 | 2.404 | 6.5 | 19.8 |
| 11 17 | 1 35.66 | +15 25.1 | 1.506 | 2.426 | 10.8 | 20.1 |
| 11 27 | 1 31.67 | +14 30.9 | 1.598 | 2.448 | 14.6 | 20.4 |

**390567** 2001 $FP_{6}$ 10 24.0 259°.33 5°.9/18.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.46 | +11 11.3 | 1.082 | 1.955 | 19.7 | 19.9 |
| 9 28 | 2 15.43 | + 8 5.8 | 1.010 | 1.945 | 14.8 | 19.6 |
| 10 8 | 2 9.12 | + 4 28.6 | 0.960 | 1.934 | 9.5 | 19.3 |
| 10 18 | 2 0.39 | + 0 36.4 | 0.936 | 1.922 | 5.9 | 19.0 |
| 10 28 | 1 50.69 | − 3 6.5 | 0.938 | 1.911 | 8.7 | 19.2 |
| 11 7 | 1 41.77 | − 6 16.6 | 0.966 | 1.899 | 14.2 | 19.4 |
| 11 17 | 1 35.06 | − 8 38.6 | 1.016 | 1.887 | 19.5 | 19.7 |
| 11 27 | 1 31.55 | −10 8.3 | 1.083 | 1.874 | 23.9 | 20.0 |

**202967** 1999 $TH_{69}$ 10 24.0 24°.35 1°.3/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.99 | +16 5.2 | 1.315 | 2.164 | 18.3 | 19.6 |
| 9 28 | 2 15.20 | +16 2.2 | 1.257 | 2.173 | 14.1 | 19.4 |
| 10 8 | 2 8.61 | +15 43.1 | 1.219 | 2.183 | 9.3 | 19.1 |
| 10 18 | 2 0.08 | +15 10.1 | 1.204 | 2.193 | 4.0 | 18.9 |
| 10 28 | 1 50.94 | +14 28.4 | 1.213 | 2.205 | 2.2 | 18.8 |
| 11 7 | 1 42.60 | +13 45.3 | 1.249 | 2.218 | 7.2 | 19.1 |
| 11 17 | 1 36.25 | +13 8.3 | 1.308 | 2.231 | 12.0 | 19.4 |
| 11 27 | 1 32.68 | +12 43.5 | 1.390 | 2.245 | 16.0 | 19.7 |

**408015** 2012 $ES_{5}$ 10 24.0 176°.12 5°.1/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.19 | − 2 11.9 | 2.545 | 3.393 | 10.5 | 21.1 |
| 9 28 | 2 11.00 | − 3 44.1 | 2.481 | 3.394 | 8.1 | 21.0 |
| 10 8 | 2 5.36 | − 5 16.4 | 2.442 | 3.395 | 6.0 | 20.9 |
| 10 18 | 1 58.74 | − 6 42.7 | 2.433 | 3.396 | 5.1 | 20.8 |
| 10 28 | 1 51.81 | − 7 56.8 | 2.452 | 3.396 | 6.2 | 20.9 |
| 11 7 | 1 45.23 | − 8 54.1 | 2.500 | 3.396 | 8.3 | 21.0 |
| 11 17 | 1 39.64 | − 9 32.0 | 2.573 | 3.396 | 10.6 | 21.2 |
| 11 27 | 1 35.51 | − 9 49.8 | 2.669 | 3.396 | 12.7 | 21.3 |

**241200** 2007 $TE_{13}$ 10 24.0 28.°24 0.°4/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.20 | +15 25.0 | 1.524 | 2.367 | 16.6 | 20.2 |
| 9 28 | 2 14.27 | +14 59.4 | 1.460 | 2.373 | 12.7 | 19.9 |
| 10 8 | 2 7.89 | +14 18.8 | 1.416 | 2.380 | 8.2 | 19.7 |
| 10 18 | 1 59.80 | +13 26.4 | 1.396 | 2.387 | 3.3 | 19.4 |
| 10 28 | 1 51.16 | +12 28.0 | 1.403 | 2.394 | 1.9 | 19.4 |
| 11 7 | 1 43.18 | +11 31.2 | 1.436 | 2.402 | 6.8 | 19.7 |
| 11 17 | 1 36.92 | +10 43.0 | 1.495 | 2.411 | 11.3 | 20.0 |
| 11 27 | 1 33.12 | +10 9.0 | 1.576 | 2.420 | 15.1 | 20.2 |

**521590** 2015 $PS_{316}$ 10 24.0 346.°20 4.°8/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.47 | + 2 7.2 | 1.895 | 2.754 | 13.1 | 20.7 |
| 9 28 | 2 11.72 | + 0 46.3 | 1.828 | 2.751 | 9.9 | 20.5 |
| 10 8 | 2 6.05 | − 0 38.3 | 1.785 | 2.750 | 6.8 | 20.3 |
| 10 18 | 1 59.07 | − 1 59.6 | 1.769 | 2.748 | 4.8 | 20.1 |
| 10 28 | 1 51.64 | − 3 10.0 | 1.780 | 2.746 | 6.0 | 20.2 |
| 11 7 | 1 44.68 | − 4 3.1 | 1.819 | 2.745 | 9.0 | 20.4 |
| 11 17 | 1 39.01 | − 4 35.3 | 1.882 | 2.744 | 12.2 | 20.6 |
| 11 27 | 1 35.25 | − 4 45.1 | 1.967 | 2.743 | 15.1 | 20.8 |

**364279** 2006 $TC_{65}$ 10 24.0 307.°74 0.°8/24.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.05 | +16 27.8 | 1.768 | 2.601 | 15.1 | 21.3 |
| 9 28 | 2 13.37 | +16 5.7 | 1.676 | 2.583 | 11.7 | 21.1 |
| 10 8 | 2 7.39 | +15 28.5 | 1.605 | 2.566 | 7.7 | 20.8 |
| 10 18 | 1 59.67 | +14 38.2 | 1.559 | 2.549 | 3.3 | 20.5 |
| 10 28 | 1 51.20 | +13 39.3 | 1.540 | 2.532 | 1.8 | 20.4 |
| 11 7 | 1 43.08 | +12 38.6 | 1.549 | 2.515 | 6.4 | 20.6 |
| 11 17 | 1 36.38 | +11 43.1 | 1.584 | 2.499 | 10.8 | 20.9 |
| 11 27 | 1 31.91 | +10 59.2 | 1.642 | 2.483 | 14.7 | 21.1 |

**384752** 2011 $QD_{52}$ 10 24.0 178.°99 1.°8/25.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.35 | +18 50.1 | 1.898 | 2.713 | 14.9 | 21.0 |
| 9 28 | 2 15.59 | +18 37.8 | 1.818 | 2.713 | 11.6 | 20.8 |
| 10 8 | 2 8.62 | +18 10.5 | 1.760 | 2.713 | 7.9 | 20.6 |
| 10 18 | 2 0.08 | +17 29.5 | 1.728 | 2.713 | 3.8 | 20.3 |
| 10 28 | 1 50.97 | +16 38.5 | 1.723 | 2.713 | 2.1 | 20.2 |
| 11 7 | 1 42.36 | +15 43.3 | 1.747 | 2.713 | 5.8 | 20.4 |
| 11 17 | 1 35.21 | +14 50.5 | 1.798 | 2.713 | 9.8 | 20.7 |
| 11 27 | 1 30.24 | +14 6.0 | 1.874 | 2.712 | 13.2 | 20.9 |

**401757** 2013 $KV_{4}$ 10 24.0 80.°01 0.°6/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.52 | +16 3.6 | 2.203 | 3.023 | 12.9 | 21.4 |
| 9 28 | 2 13.01 | +15 37.2 | 2.133 | 3.034 | 9.9 | 21.2 |
| 10 8 | 2 6.74 | +14 59.5 | 2.087 | 3.045 | 6.4 | 21.0 |
| 10 18 | 1 59.31 | +14 12.8 | 2.067 | 3.057 | 2.6 | 20.8 |
| 10 28 | 1 51.51 | +13 21.2 | 2.076 | 3.068 | 1.4 | 20.7 |
| 11 7 | 1 44.19 | +12 29.9 | 2.115 | 3.079 | 5.1 | 21.0 |
| 11 17 | 1 38.10 | +11 43.7 | 2.181 | 3.090 | 8.6 | 21.2 |
| 11 27 | 1 33.80 | +11 7.0 | 2.273 | 3.101 | 11.6 | 21.4 |

**409661** 2005 $YK_{125}$ 10 24.0 254.°28 3.°3/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.19 | + 2 55.5 | 2.328 | 3.171 | 11.5 | 20.9 |
| 9 28 | 2 13.49 | + 2 19.7 | 2.247 | 3.163 | 8.8 | 20.8 |
| 10 8 | 2 7.07 | + 1 41.5 | 2.190 | 3.154 | 5.8 | 20.6 |
| 10 18 | 1 59.47 | + 1 5.0 | 2.161 | 3.145 | 3.4 | 20.4 |
| 10 28 | 1 51.40 | + 0 34.7 | 2.161 | 3.136 | 4.2 | 20.4 |
| 11 7 | 1 43.68 | + 0 14.7 | 2.189 | 3.127 | 7.0 | 20.6 |
| 11 17 | 1 37.04 | + 0 7.7 | 2.245 | 3.118 | 10.1 | 20.8 |
| 11 27 | 1 32.09 | + 0 15.1 | 2.324 | 3.108 | 12.8 | 20.9 |

**183797** 2004 $BY_{38}$ 10 24.0 5.°57 4.°4/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.64 | + 2 54.7 | 1.548 | 2.411 | 15.3 | 19.6 |
| 9 28 | 2 14.52 | + 2 10.1 | 1.485 | 2.411 | 11.6 | 19.4 |
| 10 8 | 2 8.01 | + 1 22.4 | 1.444 | 2.411 | 7.7 | 19.2 |
| 10 18 | 1 59.86 | + 0 37.9 | 1.428 | 2.413 | 4.7 | 19.0 |
| 10 28 | 1 51.16 | + 0 3.5 | 1.438 | 2.414 | 5.7 | 19.1 |
| 11 7 | 1 43.07 | − 0 15.2 | 1.474 | 2.416 | 9.3 | 19.3 |
| 11 17 | 1 36.63 | − 0 14.9 | 1.534 | 2.419 | 13.1 | 19.5 |
| 11 27 | 1 32.54 | + 0 5.1 | 1.615 | 2.422 | 16.5 | 19.7 |

**449077** 2012 $HV_{7}$ 10 24.0 275.°31 8.°7/16.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.68 | −16 54.8 | 2.400 | 3.215 | 12.2 | 21.2 |
| 9 28 | 2 17.60 | −17 36.4 | 2.327 | 3.198 | 10.4 | 21.0 |
| 10 8 | 2 9.66 | −18 6.4 | 2.277 | 3.181 | 9.1 | 20.9 |
| 10 18 | 2 0.45 | −18 19.1 | 2.254 | 3.163 | 8.7 | 20.9 |
| 10 28 | 1 50.77 | −18 9.5 | 2.256 | 3.146 | 9.5 | 20.9 |
| 11 7 | 1 41.51 | −17 35.9 | 2.285 | 3.128 | 11.2 | 21.0 |
| 11 17 | 1 33.48 | −16 38.7 | 2.338 | 3.111 | 13.1 | 21.1 |
| 11 27 | 1 27.29 | −15 20.8 | 2.413 | 3.093 | 15.0 | 21.2 |

**433384** 2013 $SJ_{73}$ 10 24.0 5.°58 8.°6/20.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.31 | − 2 14.9 | 0.836 | 1.740 | 20.9 | 19.4 |
| 9 28 | 2 13.38 | − 3 1.0 | 0.794 | 1.739 | 16.3 | 19.2 |
| 10 8 | 2 7.90 | − 3 42.2 | 0.769 | 1.740 | 11.7 | 18.9 |
| 10 18 | 1 59.92 | − 4 7.4 | 0.763 | 1.744 | 8.7 | 18.8 |
| 10 28 | 1 51.16 | − 4 6.6 | 0.777 | 1.749 | 10.0 | 18.9 |
| 11 7 | 1 43.49 | − 3 34.9 | 0.811 | 1.757 | 14.1 | 19.2 |
| 11 17 | 1 38.36 | − 2 33.3 | 0.863 | 1.768 | 18.6 | 19.5 |
| 11 27 | 1 36.63 | − 1 6.3 | 0.932 | 1.780 | 22.6 | 19.8 |

**260372** 2004 $VA_{7}$ 10 24.0 13.°41 4.°2/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.57 | + 0 49.9 | 1.878 | 2.731 | 13.5 | 19.7 |
| 9 28 | 2 14.80 | + 0 25.1 | 1.814 | 2.733 | 10.3 | 19.5 |
| 10 8 | 2 8.00 | + 0 0.5 | 1.772 | 2.736 | 6.9 | 19.3 |
| 10 18 | 1 59.83 | − 0 19.5 | 1.757 | 2.739 | 4.4 | 19.2 |
| 10 28 | 1 51.20 | − 0 29.9 | 1.769 | 2.742 | 5.2 | 19.3 |
| 11 7 | 1 43.11 | − 0 27.2 | 1.808 | 2.746 | 8.2 | 19.5 |
| 11 17 | 1 36.42 | − 0 9.6 | 1.873 | 2.751 | 11.5 | 19.7 |
| 11 27 | 1 31.77 | + 0 23.2 | 1.961 | 2.756 | 14.5 | 19.9 |

**195928** 2002 $RZ_{109}$ 10 24.0 341.°93 2.°8/26.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.53 | +21 39.9 | 2.119 | 2.923 | 13.9 | 19.4 |
| 9 28 | 2 12.58 | +21 38.6 | 2.033 | 2.918 | 11.1 | 19.2 |
| 10 8 | 2 6.67 | +21 22.3 | 1.969 | 2.913 | 7.8 | 18.9 |
| 10 18 | 1 59.35 | +20 51.6 | 1.930 | 2.909 | 4.4 | 18.7 |
| 10 28 | 1 51.48 | +20 8.8 | 1.918 | 2.905 | 2.8 | 18.6 |
| 11 7 | 1 44.00 | +19 18.8 | 1.935 | 2.901 | 5.3 | 18.8 |
| 11 17 | 1 37.76 | +18 27.3 | 1.980 | 2.898 | 8.8 | 19.0 |
| 11 27 | 1 33.45 | +17 40.3 | 2.049 | 2.895 | 12.0 | 19.2 |

**28550** 2000 $EC_{26}$ 10 24.0 98.°08 2.°1/22.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.89 | +10 7.5 | 1.607 | 2.455 | 15.6 | 17.8 |
| 9 28 | 2 16.03 | + 9 8.9 | 1.549 | 2.468 | 11.7 | 17.6 |
| 10 8 | 2 8.85 | + 7 59.9 | 1.514 | 2.482 | 7.3 | 17.4 |
| 10 18 | 2 0.15 | + 6 46.2 | 1.504 | 2.495 | 3.0 | 17.2 |
| 10 28 | 1 51.02 | + 5 35.5 | 1.522 | 2.508 | 3.5 | 17.2 |
| 11 7 | 1 42.64 | + 4 35.3 | 1.567 | 2.521 | 7.8 | 17.5 |
| 11 17 | 1 35.94 | + 3 51.1 | 1.638 | 2.533 | 11.8 | 17.8 |
| 11 27 | 1 31.60 | + 3 26.3 | 1.731 | 2.546 | 15.3 | 18.1 |

**86712** 2000 $GO_{6}$ 10 24.0 116.°05 0.°6/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.58 | +12 44.0 | 1.748 | 2.581 | 15.2 | 20.9 |
| 9 28 | 2 17.18 | +12 9.6 | 1.685 | 2.595 | 11.5 | 20.7 |
| 10 8 | 2 9.54 | +11 24.0 | 1.645 | 2.609 | 7.3 | 20.5 |
| 10 18 | 2 0.41 | +10 30.8 | 1.630 | 2.622 | 2.7 | 20.2 |
| 10 28 | 1 50.85 | + 9 35.8 | 1.645 | 2.635 | 2.2 | 20.2 |
| 11 7 | 1 41.97 | + 8 45.3 | 1.687 | 2.647 | 6.6 | 20.6 |
| 11 17 | 1 34.73 | + 8 4.9 | 1.756 | 2.659 | 10.7 | 20.8 |
| 11 27 | 1 29.78 | + 7 38.8 | 1.849 | 2.671 | 14.1 | 21.1 |

**469648** 2004 $TO_{101}$ 10 24.0 19.°67 2.°1/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.19 | +13 16.2 | 1.065 | 1.927 | 20.8 | 19.6 |
| 9 28 | 2 19.71 | +14 16.4 | 1.016 | 1.938 | 16.1 | 19.3 |
| 10 8 | 2 11.78 | +15 5.1 | 0.984 | 1.950 | 10.6 | 19.1 |
| 10 18 | 2 1.39 | +15 41.2 | 0.975 | 1.964 | 4.8 | 18.8 |
| 10 28 | 1 50.21 | +16 5.9 | 0.989 | 1.980 | 2.8 | 18.8 |
| 11 7 | 1 40.08 | +16 22.9 | 1.027 | 1.997 | 8.1 | 19.1 |
| 11 17 | 1 32.50 | +16 37.8 | 1.089 | 2.016 | 13.3 | 19.5 |
| 11 27 | 1 28.36 | +16 56.3 | 1.170 | 2.036 | 17.7 | 19.8 |

**519472** 2012 $BL_{158}$ 10 24.0 155.°63 4.°3/28.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.32 | +27 37.5 | 2.345 | 3.111 | 13.8 | 21.3 |
| 9 28 | 2 13.78 | +27 36.8 | 2.258 | 3.113 | 11.3 | 21.1 |
| 10 8 | 2 7.35 | +27 18.7 | 2.194 | 3.114 | 8.5 | 21.0 |
| 10 18 | 1 59.60 | +26 42.6 | 2.154 | 3.115 | 5.8 | 20.8 |
| 10 28 | 1 51.35 | +25 50.4 | 2.142 | 3.116 | 4.3 | 20.7 |
| 11 7 | 1 43.52 | +24 46.7 | 2.158 | 3.117 | 5.5 | 20.8 |
| 11 17 | 1 36.94 | +23 37.4 | 2.203 | 3.118 | 8.2 | 21.0 |
| 11 27 | 1 32.23 | +22 29.3 | 2.274 | 3.119 | 11.0 | 21.1 |

**315803** 2008 $GS_{23}$ 10 24.0 89.°75 1.°6/22.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.28 | + 8 11.6 | 2.165 | 3.000 | 12.6 | 21.4 |
| 9 28 | 2 15.02 | + 7 50.5 | 2.103 | 3.015 | 9.4 | 21.2 |
| 10 8 | 2 7.99 | + 7 24.0 | 2.065 | 3.030 | 5.9 | 21.0 |
| 10 18 | 1 59.79 | + 6 55.5 | 2.054 | 3.045 | 2.4 | 20.8 |
| 10 28 | 1 51.26 | + 6 28.7 | 2.073 | 3.060 | 2.6 | 20.9 |
| 11 7 | 1 43.26 | + 6 7.8 | 2.120 | 3.074 | 6.0 | 21.1 |
| 11 17 | 1 36.54 | + 5 55.7 | 2.195 | 3.088 | 9.4 | 21.4 |
| 11 27 | 1 31.66 | + 5 54.8 | 2.295 | 3.102 | 12.2 | 21.6 |

**119115** 2001 $OJ_{80}$ 10 24.0 4.°63 2.°1/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.19 | + 9 39.1 | 0.971 | 1.860 | 20.1 | 19.2 |
| 9 28 | 2 12.30 | + 9 16.5 | 0.918 | 1.859 | 15.3 | 18.9 |
| 10 8 | 2 7.15 | + 8 41.4 | 0.883 | 1.859 | 9.6 | 18.6 |
| 10 18 | 1 59.66 | + 7 59.6 | 0.869 | 1.862 | 3.8 | 18.3 |
| 10 28 | 1 51.34 | + 7 19.7 | 0.876 | 1.866 | 3.9 | 18.3 |
| 11 7 | 1 43.91 | + 6 50.9 | 0.906 | 1.873 | 9.7 | 18.7 |
| 11 17 | 1 38.76 | + 6 39.5 | 0.957 | 1.881 | 15.1 | 19.0 |
| 11 27 | 1 36.79 | + 6 48.9 | 1.026 | 1.891 | 19.6 | 19.3 |

**45205** 1999 $XJ_{173}$ 10 24.0 235.°50 4.°9/28.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.81 | +26 30.2 | 2.008 | 2.785 | 15.5 | 17.9 |
| 9 28 | 2 16.86 | +26 51.5 | 1.919 | 2.780 | 12.7 | 17.7 |
| 10 8 | 2 9.55 | +26 54.9 | 1.850 | 2.775 | 9.6 | 17.5 |
| 10 18 | 2 0.51 | +26 38.6 | 1.806 | 2.770 | 6.5 | 17.3 |
| 10 28 | 1 50.74 | +26 3.6 | 1.789 | 2.764 | 4.9 | 17.2 |
| 11 7 | 1 41.39 | +25 14.1 | 1.800 | 2.758 | 6.4 | 17.3 |
| 11 17 | 1 33.49 | +24 16.5 | 1.837 | 2.753 | 9.5 | 17.4 |
| 11 27 | 1 27.88 | +23 18.6 | 1.900 | 2.747 | 12.7 | 17.6 |

**20719** Velasco 10 24.0 31.°75 1.°7/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.21 | +17 31.3 | 1.210 | 2.059 | 19.6 | 17.8 |
| 9 28 | 2 16.40 | +17 23.0 | 1.152 | 2.067 | 15.2 | 17.5 |
| 10 8 | 2 9.53 | +16 55.2 | 1.113 | 2.075 | 10.1 | 17.3 |
| 10 18 | 2 0.52 | +16 10.3 | 1.096 | 2.085 | 4.6 | 17.0 |
| 10 28 | 1 50.81 | +15 14.1 | 1.103 | 2.095 | 2.4 | 16.9 |
| 11 7 | 1 41.99 | +14 15.7 | 1.136 | 2.106 | 7.6 | 17.2 |
| 11 17 | 1 35.36 | +13 24.1 | 1.192 | 2.117 | 12.7 | 17.6 |
| 11 27 | 1 31.75 | +12 46.8 | 1.270 | 2.129 | 17.0 | 17.9 |

**116366** 2003 $YG_{102}$ 10 24.0 12.°13 10.°8/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.78 | −11 17.4 | 1.425 | 2.290 | 16.2 | 18.7 |
| 9 28 | 2 13.96 | −12 48.8 | 1.382 | 2.293 | 13.5 | 18.6 |
| 10 8 | 2 7.67 | −14 8.6 | 1.360 | 2.296 | 11.4 | 18.5 |
| 10 18 | 1 59.74 | −15 6.3 | 1.361 | 2.300 | 10.8 | 18.5 |
| 10 28 | 1 51.34 | −15 33.6 | 1.385 | 2.305 | 12.1 | 18.5 |
| 11 7 | 1 43.71 | −15 26.8 | 1.432 | 2.311 | 14.4 | 18.7 |
| 11 17 | 1 37.85 | −14 47.2 | 1.499 | 2.317 | 17.1 | 18.9 |
| 11 27 | 1 34.45 | −13 39.1 | 1.583 | 2.325 | 19.5 | 19.1 |

**450318** 2004 $ST_1$ 10 24.0 16.°64 0.°6/23.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.49 | +11 34.2 | 1.638 | 2.487 | 15.3 | 20.5 |
| 9 28 | 2 13.56 | +11 18.6 | 1.574 | 2.492 | 11.6 | 20.3 |
| 10 8 | 2 7.38 | +10 53.2 | 1.531 | 2.499 | 7.3 | 20.0 |
| 10 18 | 1 59.64 | +10 21.2 | 1.514 | 2.506 | 2.7 | 19.8 |
| 10 28 | 1 51.38 | + 9 47.5 | 1.523 | 2.514 | 2.2 | 19.8 |
| 11 7 | 1 43.72 | + 9 17.8 | 1.559 | 2.522 | 6.7 | 20.1 |
| 11 17 | 1 37.63 | + 8 57.0 | 1.621 | 2.532 | 10.9 | 20.3 |
| 11 27 | 1 33.79 | + 8 48.7 | 1.705 | 2.542 | 14.4 | 20.6 |

**71803** 2000 $SF_{275}$ 10 24.0 212.°99 1.°9/22.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.82 | + 8 40.2 | 1.585 | 2.429 | 16.0 | 18.7 |
| 9 28 | 2 19.35 | + 8 19.6 | 1.509 | 2.425 | 12.2 | 18.4 |
| 10 8 | 2 11.22 | + 7 51.0 | 1.454 | 2.421 | 7.7 | 18.2 |
| 10 18 | 2 1.17 | + 7 18.0 | 1.425 | 2.416 | 3.1 | 17.9 |
| 10 28 | 1 50.36 | + 6 46.2 | 1.423 | 2.411 | 3.3 | 17.9 |
| 11 7 | 1 40.13 | + 6 21.4 | 1.448 | 2.405 | 7.9 | 18.2 |
| 11 17 | 1 31.65 | + 6 8.6 | 1.500 | 2.399 | 12.4 | 18.4 |
| 11 27 | 1 25.77 | + 6 10.8 | 1.573 | 2.393 | 16.3 | 18.7 |

**62814** 2000 $UK_{43}$ 10 24.0 267.°96 1.°3/23.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.45 | + 9 48.7 | 1.762 | 2.603 | 14.7 | 19.8 |
| 9 28 | 2 16.63 | + 9 30.1 | 1.677 | 2.592 | 11.2 | 19.6 |
| 10 8 | 2 9.42 | + 9 3.1 | 1.615 | 2.581 | 7.2 | 19.3 |
| 10 18 | 2 0.48 | + 8 30.8 | 1.579 | 2.570 | 2.8 | 19.0 |
| 10 28 | 1 50.80 | + 7 58.0 | 1.570 | 2.559 | 2.7 | 19.0 |
| 11 7 | 1 41.56 | + 7 30.1 | 1.589 | 2.548 | 7.2 | 19.3 |
| 11 17 | 1 33.79 | + 7 12.0 | 1.635 | 2.536 | 11.4 | 19.5 |
| 11 27 | 1 28.33 | + 7 7.3 | 1.703 | 2.525 | 15.1 | 19.7 |

**222918** 2002 $JM_{105}$ 10 24.0 143.°24 2.°3/21.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.82 | + 4 53.0 | 2.838 | 3.670 | 10.0 | 21.2 |
| 9 28 | 2 12.81 | + 4 16.9 | 2.770 | 3.681 | 7.5 | 21.1 |
| 10 8 | 2 6.44 | + 3 38.0 | 2.728 | 3.691 | 4.8 | 20.9 |
| 10 18 | 1 59.20 | + 2 59.6 | 2.714 | 3.700 | 2.5 | 20.8 |
| 10 28 | 1 51.69 | + 2 25.4 | 2.731 | 3.709 | 3.1 | 20.8 |
| 11 7 | 1 44.55 | + 1 58.6 | 2.778 | 3.718 | 5.6 | 21.0 |
| 11 17 | 1 38.35 | + 1 41.5 | 2.853 | 3.726 | 8.2 | 21.2 |
| 11 27 | 1 33.54 | + 1 35.9 | 2.953 | 3.734 | 10.4 | 21.4 |

**325918** 2010 $UF_{94}$ 10 24.0 203.°68 1.°3/25.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.01 | +18 45.8 | 2.817 | 3.615 | 11.0 | 21.8 |
| 9 28 | 2 12.41 | +18 26.7 | 2.725 | 3.612 | 8.5 | 21.7 |
| 10 8 | 2 6.31 | +17 56.8 | 2.658 | 3.607 | 5.8 | 21.5 |
| 10 18 | 1 59.19 | +17 17.4 | 2.618 | 3.603 | 2.8 | 21.3 |
| 10 28 | 1 51.69 | +16 31.1 | 2.608 | 3.598 | 1.5 | 21.2 |
| 11 7 | 1 44.48 | +15 41.9 | 2.628 | 3.593 | 4.2 | 21.4 |
| 11 17 | 1 38.20 | +14 53.9 | 2.678 | 3.587 | 7.2 | 21.5 |
| 11 27 | 1 33.39 | +14 11.3 | 2.755 | 3.582 | 9.8 | 21.7 |

**3086** Kalbaugh 10 24.0 172.°99 16.°8/ 6.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 31.19 | +46 31.5 | 1.292 | 1.985 | 26.3 | 16.6 |
| 9 28 | 2 26.71 | +48 23.9 | 1.224 | 1.986 | 24.1 | 16.5 |
| 10 8 | 2 17.35 | +49 40.5 | 1.167 | 1.987 | 21.6 | 16.3 |
| 10 18 | 2 3.90 | +50 8.7 | 1.125 | 1.987 | 19.2 | 16.1 |
| 10 28 | 1 48.50 | +49 39.3 | 1.101 | 1.988 | 17.4 | 16.0 |
| 11 7 | 1 34.05 | +48 13.3 | 1.096 | 1.988 | 16.8 | 16.0 |
| 11 17 | 1 23.09 | +46 2.6 | 1.110 | 1.987 | 17.7 | 16.0 |
| 11 27 | 1 17.11 | +43 26.8 | 1.144 | 1.987 | 19.6 | 16.2 |

**236468** 2006 $FY_7$ 10 24.0 83.°12 0.°3/23.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.49 | +12 13.9 | 1.770 | 2.602 | 15.1 | 20.7 |
| 9 28 | 2 17.81 | +12 3.4 | 1.712 | 2.621 | 11.4 | 20.5 |
| 10 8 | 2 9.92 | +11 43.4 | 1.677 | 2.640 | 7.2 | 20.3 |
| 10 18 | 2 0.57 | +11 16.6 | 1.668 | 2.659 | 2.7 | 20.0 |
| 10 28 | 1 50.83 | +10 47.2 | 1.687 | 2.678 | 1.9 | 20.0 |
| 11 7 | 1 41.82 | +10 20.3 | 1.735 | 2.696 | 6.3 | 20.3 |
| 11 17 | 1 34.44 | +10 0.4 | 1.809 | 2.715 | 10.3 | 20.6 |
| 11 27 | 1 29.35 | + 9 51.0 | 1.907 | 2.733 | 13.6 | 20.9 |

**485786** 2012 $DC_{12}$ 10 24.0 221.°89 5.°8/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 16.36 | − 4 38.8 | 2.376 | 3.224 | 11.2 | 21.4 |
| 9 28 | 2 12.04 | − 5 52.6 | 2.310 | 3.220 | 8.8 | 21.3 |
| 10 8 | 2 6.12 | − 7 4.2 | 2.268 | 3.216 | 6.7 | 21.1 |
| 10 18 | 1 59.12 | − 8 7.9 | 2.253 | 3.212 | 5.8 | 21.1 |
| 10 28 | 1 51.75 | − 8 57.7 | 2.267 | 3.208 | 6.8 | 21.1 |
| 11 7 | 1 44.75 | − 9 29.7 | 2.308 | 3.203 | 9.0 | 21.2 |
| 11 17 | 1 38.81 | − 9 41.7 | 2.374 | 3.198 | 11.4 | 21.4 |
| 11 27 | 1 34.46 | − 9 33.7 | 2.462 | 3.193 | 13.6 | 21.6 |

**171419** 2006 $UH_{107}$ 10 24.0 176.°79 2.°3/22.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.02 | + 7 36.8 | 1.761 | 2.601 | 14.8 | 20.8 |
| 9 28 | 2 18.39 | + 7 6.5 | 1.688 | 2.603 | 11.2 | 20.6 |
| 10 8 | 2 10.43 | + 6 29.3 | 1.638 | 2.604 | 7.1 | 20.4 |
| 10 18 | 2 0.83 | + 5 49.6 | 1.615 | 2.605 | 3.1 | 20.1 |
| 10 28 | 1 50.65 | + 5 12.7 | 1.620 | 2.605 | 3.5 | 20.2 |
| 11 7 | 1 41.05 | + 4 44.2 | 1.653 | 2.605 | 7.6 | 20.4 |
| 11 17 | 1 33.04 | + 4 28.4 | 1.713 | 2.605 | 11.6 | 20.7 |
| 11 27 | 1 27.37 | + 4 27.8 | 1.795 | 2.603 | 15.0 | 20.9 |

**220915** 2005 $ER_{323}$ 10 24.0 181.°82 1.°1/24.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.13 | +16 57.4 | 1.892 | 2.706 | 15.0 | 22.1 |
| 9 28 | 2 18.46 | +16 41.1 | 1.811 | 2.707 | 11.6 | 21.9 |
| 10 8 | 2 10.48 | +16 10.9 | 1.752 | 2.708 | 7.7 | 21.6 |
| 10 18 | 2 0.86 | +15 28.5 | 1.719 | 2.708 | 3.4 | 21.4 |
| 10 28 | 1 50.62 | +14 37.9 | 1.715 | 2.707 | 1.8 | 21.3 |
| 11 7 | 1 40.92 | +13 44.9 | 1.741 | 2.705 | 6.0 | 21.5 |
| 11 17 | 1 32.75 | +12 55.9 | 1.794 | 2.703 | 10.1 | 21.8 |
| 11 27 | 1 26.86 | +12 16.6 | 1.871 | 2.700 | 13.7 | 22.0 |

**28992** 2001 $MW_{28}$ 10 24.0 64.°90 0.°0/24.0 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.73 | +14 15.0 | 1.379 | 2.224 | 17.9 | 19.4 |
| 9 28 | 2 17.75 | +13 48.0 | 1.329 | 2.244 | 13.6 | 19.2 |
| 10 8 | 2 10.09 | +13 6.5 | 1.298 | 2.264 | 8.6 | 18.9 |
| 10 18 | 2 0.67 | +12 14.5 | 1.292 | 2.284 | 3.3 | 18.7 |
| 10 28 | 1 50.83 | +11 18.6 | 1.313 | 2.304 | 2.1 | 18.7 |
| 11 7 | 1 41.92 | +10 26.7 | 1.359 | 2.324 | 7.3 | 19.0 |
| 11 17 | 1 35.03 | + 9 45.6 | 1.431 | 2.344 | 11.9 | 19.3 |
| 11 27 | 1 30.86 | + 9 20.0 | 1.525 | 2.365 | 15.7 | 19.6 |

**378090** 2006 $UD_{96}$ 10 24.0 315.°30 2.°8/22.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.06 | + 8 29.6 | 1.226 | 2.097 | 18.0 | 20.6 |
| 9 28 | 2 15.08 | + 7 53.6 | 1.143 | 2.074 | 13.8 | 20.3 |
| 10 8 | 2 9.01 | + 7 5.4 | 1.079 | 2.052 | 8.9 | 19.9 |
| 10 18 | 2 0.50 | + 6 10.6 | 1.038 | 2.030 | 3.9 | 19.6 |
| 10 28 | 1 50.81 | + 5 17.4 | 1.021 | 2.008 | 4.5 | 19.6 |
| 11 7 | 1 41.54 | + 4 35.2 | 1.028 | 1.988 | 10.0 | 19.8 |
| 11 17 | 1 34.19 | + 4 11.6 | 1.058 | 1.968 | 15.4 | 20.0 |
| 11 27 | 1 29.87 | + 4 11.1 | 1.106 | 1.949 | 20.1 | 20.3 |

**62695** 2000 $TW_{24}$ 10 24.0 198.°16 1.°5/25.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.42 | +18 10.6 | 2.329 | 3.135 | 12.7 | 20.2 |
| 9 28 | 2 14.54 | +18 4.3 | 2.243 | 3.134 | 9.9 | 20.0 |
| 10 8 | 2 7.82 | +17 46.2 | 2.181 | 3.132 | 6.7 | 19.8 |
| 10 18 | 1 59.82 | +17 17.5 | 2.145 | 3.130 | 3.3 | 19.6 |
| 10 28 | 1 51.32 | +16 40.8 | 2.138 | 3.128 | 1.8 | 19.4 |
| 11 7 | 1 43.20 | +16 0.3 | 2.160 | 3.125 | 5.0 | 19.7 |
| 11 17 | 1 36.24 | +15 20.9 | 2.211 | 3.123 | 8.4 | 19.9 |
| 11 27 | 1 31.08 | +14 47.2 | 2.288 | 3.120 | 11.4 | 20.1 |

**264877** 2002 $RE_{255}$ 10 24.0 146.°41 0.°6/24.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.98 | +15 24.9 | 2.670 | 3.481 | 11.2 | 21.2 |
| 9 28 | 2 13.14 | +15 12.8 | 2.590 | 3.486 | 8.6 | 21.1 |
| 10 8 | 2 6.77 | +14 51.9 | 2.535 | 3.492 | 5.6 | 20.9 |
| 10 18 | 1 59.38 | +14 23.7 | 2.507 | 3.496 | 2.3 | 20.7 |
| 10 28 | 1 51.62 | +13 51.1 | 2.510 | 3.501 | 1.3 | 20.6 |
| 11 7 | 1 44.22 | +13 17.7 | 2.542 | 3.505 | 4.5 | 20.8 |
| 11 17 | 1 37.83 | +12 47.1 | 2.603 | 3.510 | 7.5 | 21.0 |
| 11 27 | 1 32.95 | +12 22.7 | 2.691 | 3.514 | 10.2 | 21.2 |

**155889** 2001 $FK_{84}$ 10 24.0 42.°88 2.°2/25.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.53 | +18 23.9 | 2.076 | 2.886 | 14.0 | 19.7 |
| 9 28 | 2 15.54 | +18 39.7 | 2.001 | 2.893 | 10.9 | 19.5 |
| 10 8 | 2 8.53 | +18 43.6 | 1.949 | 2.900 | 7.4 | 19.3 |
| 10 18 | 2 0.10 | +18 36.0 | 1.924 | 2.907 | 3.9 | 19.1 |
| 10 28 | 1 51.16 | +18 18.9 | 1.926 | 2.915 | 2.3 | 19.0 |
| 11 7 | 1 42.69 | +17 56.2 | 1.957 | 2.922 | 5.4 | 19.2 |
| 11 17 | 1 35.57 | +17 32.4 | 2.016 | 2.930 | 8.9 | 19.5 |
| 11 27 | 1 30.47 | +17 12.5 | 2.099 | 2.939 | 12.0 | 19.7 |

**100214** 1994 $PJ_4$ 10 24.0 346.°90 0.°3/24.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.82 | +14 53.1 | 1.251 | 2.109 | 18.6 | 19.7 |
| 9 28 | 2 14.66 | +14 33.1 | 1.181 | 2.103 | 14.3 | 19.4 |
| 10 8 | 2 8.54 | +13 55.9 | 1.130 | 2.098 | 9.3 | 19.1 |
| 10 18 | 2 0.24 | +13 4.6 | 1.102 | 2.093 | 3.7 | 18.8 |
| 10 28 | 1 51.06 | +12 5.7 | 1.098 | 2.090 | 2.2 | 18.7 |
| 11 7 | 1 42.55 | +11 8.3 | 1.119 | 2.087 | 8.0 | 19.0 |
| 11 17 | 1 36.03 | +10 21.0 | 1.163 | 2.085 | 13.2 | 19.3 |
| 11 27 | 1 32.43 | + 9 50.6 | 1.228 | 2.084 | 17.7 | 19.6 |

**34804** 2001 $SP_{67}$ 10 24.0 64°.87 1°.5/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 29.25 | + 6 56.2 | 1.496 | 2.338 | 16.9 | 18.8 |
| 9 28 | 2 22.68 | + 7 20.0 | 1.433 | 2.347 | 12.8 | 18.6 |
| 10 8 | 2 13.30 | + 7 40.0 | 1.391 | 2.356 | 8.2 | 18.3 |
| 10 18 | 2 1.96 | + 7 58.3 | 1.375 | 2.366 | 3.2 | 18.1 |
| 10 28 | 1 49.98 | + 8 17.5 | 1.386 | 2.375 | 2.9 | 18.1 |
| 11 7 | 1 38.79 | + 8 40.4 | 1.425 | 2.385 | 7.7 | 18.4 |
| 11 17 | 1 29.61 | + 9 9.6 | 1.491 | 2.395 | 12.2 | 18.7 |
| 11 27 | 1 23.27 | + 9 47.1 | 1.579 | 2.405 | 15.9 | 19.0 |

**517776** 2015 $OU_{89}$ 10 24.0 42°.41 1°.3/23.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.94 | + 7 29.2 | 2.056 | 2.890 | 13.2 | 20.4 |
| 9 28 | 2 17.27 | + 7 36.6 | 1.983 | 2.894 | 10.0 | 20.2 |
| 10 8 | 2 9.58 | + 7 40.0 | 1.934 | 2.898 | 6.3 | 20.0 |
| 10 18 | 2 0.50 | + 7 41.7 | 1.911 | 2.902 | 2.5 | 19.8 |
| 10 28 | 1 50.93 | + 7 44.3 | 1.918 | 2.907 | 2.4 | 19.8 |
| 11 7 | 1 41.84 | + 7 51.0 | 1.955 | 2.912 | 6.2 | 20.1 |
| 11 17 | 1 34.11 | + 8 4.1 | 2.019 | 2.917 | 9.8 | 20.3 |
| 11 27 | 1 28.40 | + 8 25.6 | 2.107 | 2.922 | 12.9 | 20.5 |

**476874** 2008 $VE_{24}$ 10 24.0 328°.65 2°.3/22.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.30 | + 9 51.9 | 1.298 | 2.167 | 17.3 | 21.4 |
| 9 28 | 2 12.75 | + 9 11.6 | 1.216 | 2.147 | 13.2 | 21.1 |
| 10 8 | 2 7.37 | + 8 18.1 | 1.155 | 2.127 | 8.4 | 20.7 |
| 10 18 | 1 59.83 | + 7 16.4 | 1.117 | 2.109 | 3.4 | 20.4 |
| 10 28 | 1 51.31 | + 6 14.6 | 1.103 | 2.091 | 3.9 | 20.4 |
| 11 7 | 1 43.24 | + 5 22.2 | 1.113 | 2.074 | 9.2 | 20.6 |
| 11 17 | 1 36.94 | + 4 46.7 | 1.147 | 2.059 | 14.3 | 20.9 |
| 11 27 | 1 33.43 | + 4 33.4 | 1.200 | 2.044 | 18.8 | 21.1 |

**121663** 1999 $XC_{31}$ 10 24.1 327°.13 1°.5/22.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.82 | +10 53.5 | 1.843 | 2.692 | 13.9 | 19.7 |
| 9 28 | 2 11.48 | +10 5.4 | 1.759 | 2.679 | 10.5 | 19.4 |
| 10 8 | 2 6.09 | + 9 6.2 | 1.698 | 2.667 | 6.6 | 19.2 |
| 10 18 | 1 59.22 | + 8 0.4 | 1.663 | 2.655 | 2.6 | 18.9 |
| 10 28 | 1 51.75 | + 6 54.0 | 1.655 | 2.643 | 2.9 | 18.9 |
| 11 7 | 1 44.68 | + 5 54.0 | 1.675 | 2.632 | 7.0 | 19.1 |
| 11 17 | 1 38.90 | + 5 6.4 | 1.720 | 2.621 | 11.0 | 19.4 |
| 11 27 | 1 35.13 | + 4 35.4 | 1.789 | 2.611 | 14.5 | 19.6 |

**375699** 2009 $ON_{25}$ 10 24.1 140°.95 3°.4/21.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.89 | + 4 48.0 | 1.589 | 2.437 | 15.7 | 20.4 |
| 9 28 | 2 19.21 | + 4 18.8 | 1.524 | 2.443 | 11.9 | 20.2 |
| 10 8 | 2 11.01 | + 3 45.4 | 1.482 | 2.448 | 7.7 | 19.9 |
| 10 18 | 2 1.08 | + 3 12.8 | 1.465 | 2.453 | 3.9 | 19.7 |
| 10 28 | 1 50.58 | + 2 47.0 | 1.476 | 2.457 | 4.6 | 19.8 |
| 11 7 | 1 40.78 | + 2 33.0 | 1.514 | 2.462 | 8.6 | 20.0 |
| 11 17 | 1 32.75 | + 2 34.3 | 1.577 | 2.466 | 12.6 | 20.3 |
| 11 27 | 1 27.25 | + 2 52.2 | 1.662 | 2.469 | 16.1 | 20.5 |

**95765** 2003 $ED_{46}$ 10 24.1 208°.88 3°.8/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.36 | +23 4.1 | 1.979 | 2.768 | 15.3 | 20.3 |
| 9 28 | 2 18.79 | +23 22.9 | 1.890 | 2.763 | 12.3 | 20.1 |
| 10 8 | 2 10.81 | +23 25.8 | 1.822 | 2.758 | 8.9 | 19.9 |
| 10 18 | 2 1.06 | +23 11.7 | 1.779 | 2.753 | 5.5 | 19.7 |
| 10 28 | 1 50.55 | +22 41.8 | 1.764 | 2.747 | 3.8 | 19.6 |
| 11 7 | 1 40.45 | +22 0.4 | 1.778 | 2.740 | 6.1 | 19.7 |
| 11 17 | 1 31.85 | +21 13.6 | 1.819 | 2.733 | 9.7 | 19.9 |
| 11 27 | 1 25.57 | +20 28.6 | 1.886 | 2.726 | 13.1 | 20.1 |

**324767** 2007 $GJ_{37}$ 10 24.1 248°.84 1°.3/22.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.81 | + 9 32.0 | 2.316 | 3.151 | 11.9 | 21.3 |
| 9 28 | 2 13.27 | + 9 4.9 | 2.233 | 3.145 | 9.0 | 21.1 |
| 10 8 | 2 7.00 | + 8 31.1 | 2.174 | 3.139 | 5.7 | 20.9 |
| 10 18 | 1 59.52 | + 7 53.6 | 2.143 | 3.134 | 2.2 | 20.7 |
| 10 28 | 1 51.58 | + 7 16.4 | 2.140 | 3.128 | 2.3 | 20.7 |
| 11 7 | 1 43.99 | + 6 43.9 | 2.167 | 3.122 | 5.8 | 20.9 |
| 11 17 | 1 37.50 | + 6 19.7 | 2.221 | 3.116 | 9.2 | 21.1 |
| 11 27 | 1 32.70 | + 6 6.9 | 2.300 | 3.110 | 12.1 | 21.3 |

**457925** 2009 $UJ_{90}$ 10 24.1 253°.32 11°.1/20.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 38.66 | −12 23.3 | 1.203 | 2.043 | 20.3 | 20.4 |
| 9 28 | 2 30.70 | −12 40.7 | 1.137 | 2.035 | 16.8 | 20.1 |
| 10 8 | 2 18.88 | −12 40.5 | 1.090 | 2.027 | 13.3 | 19.9 |
| 10 18 | 2 4.23 | −12 12.5 | 1.065 | 2.019 | 11.2 | 19.8 |
| 10 28 | 1 48.53 | −11 9.3 | 1.066 | 2.011 | 12.0 | 19.8 |
| 11 7 | 1 33.87 | − 9 30.9 | 1.091 | 2.003 | 15.1 | 19.9 |
| 11 17 | 1 21.95 | − 7 23.2 | 1.140 | 1.994 | 19.0 | 20.2 |
| 11 27 | 1 13.84 | − 4 54.8 | 1.208 | 1.985 | 22.7 | 20.4 |

**144451** 2004 $EA_{41}$ 10 24.1 299°.80 0°.1/24.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.92 | +14 24.9 | 1.893 | 2.726 | 14.2 | 20.1 |
| 9 28 | 2 13.75 | +13 51.9 | 1.813 | 2.722 | 10.9 | 19.8 |
| 10 8 | 2 7.48 | +13 6.4 | 1.756 | 2.719 | 7.0 | 19.6 |
| 10 18 | 1 59.74 | +12 11.3 | 1.724 | 2.716 | 2.7 | 19.3 |
| 10 28 | 1 51.45 | +11 11.7 | 1.721 | 2.712 | 1.8 | 19.3 |
| 11 7 | 1 43.61 | +10 14.1 | 1.746 | 2.709 | 6.2 | 19.6 |
| 11 17 | 1 37.15 | + 9 24.3 | 1.798 | 2.706 | 10.2 | 19.8 |
| 11 27 | 1 32.74 | + 8 47.5 | 1.874 | 2.703 | 13.6 | 20.0 |

**460571** 2014 $UX_4$ 10 24.1 25°.61 1°.9/26.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 14.52 | +21 31.7 | 2.286 | 3.090 | 13.0 | 20.3 |
| 9 28 | 2 10.83 | +20 55.2 | 2.208 | 3.095 | 10.2 | 20.1 |
| 10 8 | 2 5.44 | +20 3.2 | 2.152 | 3.100 | 7.0 | 19.9 |
| 10 18 | 1 58.91 | +18 57.8 | 2.123 | 3.106 | 3.6 | 19.7 |
| 10 28 | 1 52.00 | +17 43.0 | 2.122 | 3.112 | 2.0 | 19.6 |
| 11 7 | 1 45.53 | +16 24.7 | 2.151 | 3.118 | 4.8 | 19.8 |
| 11 17 | 1 40.21 | +15 9.1 | 2.208 | 3.124 | 8.1 | 20.1 |
| 11 27 | 1 36.58 | +14 2.0 | 2.290 | 3.131 | 11.1 | 20.3 |

**17832** Pitman 10 24.1 261°.85 0°.5/23.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.85 | +11 51.7 | 2.101 | 2.933 | 13.0 | 18.6 |
| 9 28 | 2 14.23 | +11 31.9 | 2.020 | 2.929 | 9.9 | 18.4 |
| 10 8 | 2 7.69 | +11 3.4 | 1.962 | 2.926 | 6.3 | 18.2 |
| 10 18 | 1 59.81 | +10 28.7 | 1.931 | 2.923 | 2.4 | 17.9 |
| 10 28 | 1 51.40 | + 9 52.0 | 1.929 | 2.920 | 1.9 | 17.9 |
| 11 7 | 1 43.41 | + 9 18.0 | 1.956 | 2.916 | 5.9 | 18.1 |
| 11 17 | 1 36.66 | + 8 51.0 | 2.010 | 2.913 | 9.5 | 18.4 |
| 11 27 | 1 31.79 | + 8 34.6 | 2.088 | 2.910 | 12.7 | 18.6 |

**74809** 1999 $TE_2$ 10 24.1 40°.21 1°.0/23.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.70 | +10 29.5 | 1.152 | 2.015 | 19.5 | 18.5 |
| 9 28 | 2 19.01 | +10 26.5 | 1.102 | 2.027 | 14.8 | 18.3 |
| 10 8 | 2 11.16 | +10 12.8 | 1.072 | 2.041 | 9.4 | 18.0 |
| 10 18 | 2 1.17 | + 9 51.9 | 1.063 | 2.056 | 3.5 | 17.7 |
| 10 28 | 1 50.58 | + 9 29.8 | 1.080 | 2.071 | 2.8 | 17.7 |
| 11 7 | 1 41.01 | + 9 13.1 | 1.121 | 2.086 | 8.5 | 18.1 |
| 11 17 | 1 33.77 | + 9 7.1 | 1.186 | 2.102 | 13.5 | 18.5 |
| 11 27 | 1 29.67 | + 9 15.4 | 1.271 | 2.119 | 17.7 | 18.8 |

**422053** 2014 $QA_{366}$ 10 24.1 83°.43 0°.2/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.62 | +13 0.0 | 2.229 | 3.056 | 12.6 | 21.5 |
| 9 28 | 2 13.80 | +12 36.7 | 2.164 | 3.070 | 9.5 | 21.3 |
| 10 8 | 2 7.27 | +12 4.7 | 2.123 | 3.085 | 6.0 | 21.2 |
| 10 18 | 1 59.59 | +11 26.6 | 2.108 | 3.099 | 2.3 | 20.9 |
| 10 28 | 1 51.59 | +10 46.2 | 2.123 | 3.114 | 1.6 | 20.9 |
| 11 7 | 1 44.08 | +10 8.2 | 2.167 | 3.128 | 5.3 | 21.2 |
| 11 17 | 1 37.78 | + 9 36.6 | 2.239 | 3.143 | 8.7 | 21.4 |
| 11 27 | 1 33.26 | + 9 14.8 | 2.336 | 3.157 | 11.6 | 21.6 |

**162130** 1998 $SP_{104}$ 10 24.1 28°.61 6°.3/18.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.71 | + 1 35.5 | 1.376 | 2.251 | 16.1 | 19.1 |
| 9 28 | 2 12.41 | − 0 3.7 | 1.330 | 2.262 | 12.2 | 18.9 |
| 10 8 | 2 6.72 | − 1 45.5 | 1.306 | 2.273 | 8.4 | 18.7 |
| 10 18 | 1 59.43 | − 3 19.8 | 1.307 | 2.284 | 6.3 | 18.7 |
| 10 28 | 1 51.72 | − 4 36.3 | 1.332 | 2.297 | 7.8 | 18.8 |
| 11 7 | 1 44.78 | − 5 27.5 | 1.383 | 2.310 | 11.2 | 19.0 |
| 11 17 | 1 39.57 | − 5 50.3 | 1.456 | 2.324 | 14.8 | 19.3 |
| 11 27 | 1 36.73 | − 5 45.1 | 1.548 | 2.339 | 17.8 | 19.5 |

**78245** 2002 $PE_3$ 10 24.1 352°.94 0°.1/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.06 | +15 53.3 | 2.036 | 2.867 | 13.4 | 19.2 |
| 9 28 | 2 10.67 | +14 55.7 | 1.956 | 2.865 | 10.2 | 19.0 |
| 10 8 | 2 5.44 | +13 43.9 | 1.899 | 2.862 | 6.6 | 18.8 |
| 10 18 | 1 58.95 | +12 21.6 | 1.869 | 2.860 | 2.5 | 18.5 |
| 10 28 | 1 52.01 | +10 54.9 | 1.868 | 2.859 | 1.7 | 18.5 |
| 11 7 | 1 45.50 | + 9 30.8 | 1.895 | 2.858 | 5.8 | 18.7 |
| 11 17 | 1 40.21 | + 8 16.2 | 1.950 | 2.857 | 9.5 | 19.0 |
| 11 27 | 1 36.74 | + 7 16.2 | 2.029 | 2.857 | 12.8 | 19.2 |

**293469** 2007 $EV_{214}$ 10 24.1 109°.31 2°.4/21.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.96 | + 7 25.3 | 2.289 | 3.131 | 11.7 | 20.4 |
| 9 28 | 2 11.78 | + 6 23.4 | 2.220 | 3.137 | 8.8 | 20.2 |
| 10 8 | 2 5.99 | + 5 15.2 | 2.175 | 3.142 | 5.6 | 20.0 |
| 10 18 | 1 59.13 | + 4 5.6 | 2.159 | 3.147 | 2.8 | 19.9 |
| 10 28 | 1 51.91 | + 3 0.0 | 2.171 | 3.152 | 3.5 | 19.9 |
| 11 7 | 1 45.13 | + 2 3.7 | 2.213 | 3.157 | 6.5 | 20.1 |
| 11 17 | 1 39.44 | + 1 20.9 | 2.282 | 3.163 | 9.6 | 20.3 |
| 11 27 | 1 35.39 | + 0 54.0 | 2.375 | 3.167 | 12.3 | 20.5 |

**298646** 2004 $BH_{94}$ 10 24.1 275°.42 2°.8/21.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.27 | + 7 46.8 | 1.965 | 2.812 | 13.2 | 20.7 |
| 9 28 | 2 13.25 | + 6 41.1 | 1.875 | 2.794 | 10.0 | 20.4 |
| 10 8 | 2 7.21 | + 5 26.1 | 1.808 | 2.776 | 6.4 | 20.2 |
| 10 18 | 1 59.68 | + 4 6.8 | 1.768 | 2.757 | 3.2 | 20.0 |
| 10 28 | 1 51.52 | + 2 50.2 | 1.757 | 2.738 | 4.0 | 20.0 |
| 11 7 | 1 43.69 | + 1 43.6 | 1.773 | 2.719 | 7.7 | 20.2 |
| 11 17 | 1 37.10 | + 0 52.6 | 1.816 | 2.700 | 11.5 | 20.4 |
| 11 27 | 1 32.46 | + 0 21.0 | 1.882 | 2.680 | 14.8 | 20.5 |

**458615** 2011 $FF_{67}$ 10 24.1 304°.97 1°.2/23.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.51 | + 8 38.5 | 2.117 | 2.955 | 12.8 | 21.3 |
| 9 28 | 2 14.87 | + 8 32.5 | 2.022 | 2.935 | 9.7 | 21.1 |
| 10 8 | 2 8.22 | + 8 21.0 | 1.950 | 2.915 | 6.2 | 20.9 |
| 10 18 | 2 0.08 | + 8 6.3 | 1.904 | 2.895 | 2.4 | 20.6 |
| 10 28 | 1 51.26 | + 7 52.0 | 1.887 | 2.876 | 2.4 | 20.5 |
| 11 7 | 1 42.70 | + 7 41.7 | 1.899 | 2.857 | 6.3 | 20.8 |
| 11 17 | 1 35.31 | + 7 39.0 | 1.938 | 2.838 | 10.0 | 20.9 |
| 11 27 | 1 29.82 | + 7 46.6 | 2.001 | 2.819 | 13.4 | 21.1 |

**171433** Prothous 10 24.1 2.°00 0.°9/22.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 10.11 | + 8 36.0 | 4.135 | 4.964 | 7.2 | 20.0 |
| 9 28 | 2 6.77 | + 8 7.5 | 4.054 | 4.964 | 5.4 | 19.9 |
| 10 8 | 2 2.56 | + 7 35.7 | 3.999 | 4.964 | 3.4 | 19.7 |
| 10 18 | 1 57.78 | + 7 2.3 | 3.973 | 4.964 | 1.4 | 19.6 |
| 10 28 | 1 52.80 | + 6 29.8 | 3.978 | 4.964 | 1.6 | 19.6 |
| 11 7 | 1 48.00 | + 6 0.4 | 4.013 | 4.964 | 3.6 | 19.7 |
| 11 17 | 1 43.76 | + 5 36.0 | 4.077 | 4.965 | 5.6 | 19.9 |
| 11 27 | 1 40.37 | + 5 18.5 | 4.168 | 4.965 | 7.3 | 20.0 |

**75976** 2000 $CZ_{121}$ 10 24.1 135.°44 2.°3/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.93 | +19 35.5 | 1.937 | 2.747 | 14.8 | 19.5 |
| 9 28 | 2 16.04 | +19 34.1 | 1.859 | 2.749 | 11.7 | 19.3 |
| 10 8 | 2 8.96 | +19 18.1 | 1.802 | 2.752 | 8.0 | 19.0 |
| 10 18 | 2 0.34 | +18 48.1 | 1.771 | 2.755 | 4.1 | 18.8 |
| 10 28 | 1 51.14 | +18 7.3 | 1.768 | 2.757 | 2.4 | 18.7 |
| 11 7 | 1 42.45 | +17 20.8 | 1.793 | 2.759 | 5.7 | 18.9 |
| 11 17 | 1 35.20 | +16 34.7 | 1.846 | 2.762 | 9.5 | 19.2 |
| 11 27 | 1 30.12 | +15 54.9 | 1.923 | 2.764 | 12.9 | 19.4 |

**153251** 2001 $BR_{22}$ 10 24.1 346.°21 4.°7/28.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.71 | +26 29.0 | 2.000 | 2.783 | 15.3 | 19.9 |
| 9 28 | 2 14.49 | +26 44.3 | 1.916 | 2.780 | 12.6 | 19.7 |
| 10 8 | 2 8.06 | +26 41.3 | 1.851 | 2.778 | 9.5 | 19.5 |
| 10 18 | 2 0.02 | +26 18.8 | 1.811 | 2.776 | 6.4 | 19.3 |
| 10 28 | 1 51.34 | +25 38.3 | 1.797 | 2.774 | 4.7 | 19.2 |
| 11 7 | 1 43.09 | +24 44.4 | 1.811 | 2.772 | 6.2 | 19.3 |
| 11 17 | 1 36.25 | +23 43.7 | 1.852 | 2.771 | 9.3 | 19.5 |
| 11 27 | 1 31.59 | +22 43.7 | 1.918 | 2.770 | 12.4 | 19.7 |

**308880** 2006 $SJ_{90}$ 10 24.1 0.°17 1.°4/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.60 | +16 6.2 | 1.793 | 2.620 | 15.2 | 20.9 |
| 9 28 | 2 15.95 | +16 11.5 | 1.716 | 2.619 | 11.8 | 20.7 |
| 10 8 | 2 8.99 | +16 4.7 | 1.661 | 2.619 | 7.8 | 20.4 |
| 10 18 | 2 0.38 | +15 46.8 | 1.630 | 2.618 | 3.5 | 20.2 |
| 10 28 | 1 51.12 | +15 20.9 | 1.627 | 2.619 | 1.9 | 20.1 |
| 11 7 | 1 42.36 | +14 51.8 | 1.653 | 2.619 | 6.0 | 20.4 |
| 11 17 | 1 35.11 | +14 25.0 | 1.704 | 2.620 | 10.1 | 20.6 |
| 11 27 | 1 30.13 | +14 5.4 | 1.780 | 2.621 | 13.7 | 20.8 |

**195194** 2002 $CF_{288}$ 10 24.1 83.°64 0.°9/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.65 | +11 57.3 | 1.680 | 2.521 | 15.4 | 20.2 |
| 9 28 | 2 15.92 | +11 26.2 | 1.614 | 2.529 | 11.6 | 20.0 |
| 10 8 | 2 8.90 | +10 44.3 | 1.570 | 2.536 | 7.4 | 19.7 |
| 10 18 | 2 0.30 | + 9 55.2 | 1.552 | 2.544 | 2.7 | 19.5 |
| 10 28 | 1 51.20 | + 9 4.7 | 1.561 | 2.551 | 2.4 | 19.5 |
| 11 7 | 1 42.73 | + 8 19.2 | 1.598 | 2.559 | 6.9 | 19.8 |
| 11 17 | 1 35.86 | + 7 44.3 | 1.661 | 2.566 | 11.1 | 20.0 |
| 11 27 | 1 31.31 | + 7 23.9 | 1.747 | 2.574 | 14.6 | 20.3 |

**359457** 2010 $NE_{45}$ 10 24.1 87.°58 1.°1/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.52 | +17 37.1 | 2.054 | 2.871 | 13.8 | 20.6 |
| 9 28 | 2 13.98 | +17 12.1 | 1.983 | 2.881 | 10.7 | 20.5 |
| 10 8 | 2 7.51 | +16 33.8 | 1.934 | 2.890 | 7.0 | 20.3 |
| 10 18 | 1 59.75 | +15 44.4 | 1.911 | 2.899 | 3.1 | 20.0 |
| 10 28 | 1 51.56 | +14 48.0 | 1.917 | 2.908 | 1.6 | 19.9 |
| 11 7 | 1 43.89 | +13 50.4 | 1.951 | 2.917 | 5.4 | 20.2 |
| 11 17 | 1 37.55 | +12 57.4 | 2.014 | 2.926 | 9.0 | 20.5 |
| 11 27 | 1 33.15 | +12 13.9 | 2.101 | 2.935 | 12.2 | 20.7 |

**300820** 2007 $WV_{52}$ 10 24.1 162.°54 0.°4/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.58 | +14 29.4 | 1.976 | 2.801 | 14.0 | 21.3 |
| 9 28 | 2 15.67 | +14 14.9 | 1.898 | 2.802 | 10.7 | 21.1 |
| 10 8 | 2 8.67 | +13 49.5 | 1.843 | 2.804 | 6.9 | 20.9 |
| 10 18 | 2 0.22 | +13 15.2 | 1.815 | 2.805 | 2.8 | 20.6 |
| 10 28 | 1 51.24 | +12 35.9 | 1.815 | 2.806 | 1.6 | 20.5 |
| 11 7 | 1 42.73 | +11 56.7 | 1.843 | 2.807 | 5.8 | 20.8 |
| 11 17 | 1 35.61 | +11 22.8 | 1.900 | 2.808 | 9.7 | 21.1 |
| 11 27 | 1 30.54 | +10 58.5 | 1.980 | 2.809 | 13.0 | 21.3 |

**460168** 2014 $QP_{27}$ 10 24.1 38.°35 4.°7/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.75 | + 2 46.1 | 1.867 | 2.727 | 13.2 | 20.8 |
| 9 28 | 2 11.11 | + 1 15.3 | 1.817 | 2.741 | 9.9 | 20.6 |
| 10 8 | 2 5.66 | − 0 18.5 | 1.790 | 2.756 | 6.7 | 20.5 |
| 10 18 | 1 59.02 | − 1 47.9 | 1.791 | 2.770 | 4.7 | 20.4 |
| 10 28 | 1 52.06 | − 3 5.2 | 1.819 | 2.786 | 5.9 | 20.5 |
| 11 7 | 1 45.68 | − 4 4.2 | 1.875 | 2.801 | 8.8 | 20.7 |
| 11 17 | 1 40.60 | − 4 41.7 | 1.955 | 2.817 | 11.9 | 20.9 |
| 11 27 | 1 37.38 | − 4 56.7 | 2.057 | 2.833 | 14.5 | 21.1 |

**298056** 2002 $QC_{54}$ 10 24.1 308.°64 9.°9/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.36 | −10 44.8 | 1.759 | 2.616 | 14.0 | 20.1 |
| 9 28 | 2 12.63 | −12 57.5 | 1.708 | 2.612 | 11.7 | 20.0 |
| 10 8 | 2 6.79 | −15 2.9 | 1.680 | 2.608 | 10.2 | 19.9 |
| 10 18 | 1 59.51 | −16 50.3 | 1.678 | 2.603 | 10.1 | 19.9 |
| 10 28 | 1 51.73 | −18 10.2 | 1.700 | 2.599 | 11.6 | 19.9 |
| 11 7 | 1 44.47 | −18 57.0 | 1.746 | 2.595 | 13.8 | 20.1 |
| 11 17 | 1 38.62 | −19 9.8 | 1.813 | 2.591 | 16.2 | 20.2 |
| 11 27 | 1 34.87 | −18 51.0 | 1.897 | 2.587 | 18.3 | 20.4 |

**328671** 2009 $SC_{289}$ 10 24.1 353.°76 2.°3/21.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 15.12 | + 8 32.3 | 2.056 | 2.904 | 12.7 | 20.8 |
| 9 28 | 2 11.40 | + 7 31.3 | 1.983 | 2.902 | 9.5 | 20.6 |
| 10 8 | 2 5.89 | + 6 22.3 | 1.933 | 2.901 | 6.0 | 20.4 |
| 10 18 | 1 59.14 | + 5 10.1 | 1.910 | 2.900 | 2.8 | 20.2 |
| 10 28 | 1 51.96 | + 4 1.0 | 1.916 | 2.900 | 3.4 | 20.3 |
| 11 7 | 1 45.21 | + 3 1.1 | 1.950 | 2.899 | 6.9 | 20.5 |
| 11 17 | 1 39.65 | + 2 15.2 | 2.011 | 2.899 | 10.3 | 20.7 |
| 11 27 | 1 35.88 | + 1 46.4 | 2.095 | 2.899 | 13.3 | 20.9 |

**393383** 2000 $CO_{132}$ 10 24.1 323.°76 3.°4/21.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.48 | + 5 36.0 | 1.766 | 2.619 | 14.2 | 21.2 |
| 9 28 | 2 14.22 | + 4 43.9 | 1.695 | 2.617 | 10.7 | 21.0 |
| 10 8 | 2 7.82 | + 3 45.9 | 1.647 | 2.615 | 6.9 | 20.8 |
| 10 18 | 1 59.91 | + 2 47.4 | 1.625 | 2.613 | 3.7 | 20.6 |
| 10 28 | 1 51.47 | + 1 55.3 | 1.631 | 2.611 | 4.6 | 20.6 |
| 11 7 | 1 43.54 | + 1 15.5 | 1.664 | 2.609 | 8.2 | 20.9 |
| 11 17 | 1 37.05 | + 0 52.4 | 1.722 | 2.607 | 11.9 | 21.1 |
| 11 27 | 1 32.68 | + 0 48.2 | 1.802 | 2.606 | 15.2 | 21.3 |

**174736** 2003 $UB_{210}$ 10 24.1 168.°04 0.°0/24.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.73 | +12 56.7 | 1.518 | 2.356 | 16.9 | 20.0 |
| 9 28 | 2 19.41 | +12 50.8 | 1.446 | 2.358 | 13.0 | 19.7 |
| 10 8 | 2 11.36 | +12 33.3 | 1.395 | 2.359 | 8.3 | 19.5 |
| 10 18 | 2 1.33 | +12 6.3 | 1.369 | 2.360 | 3.2 | 19.2 |
| 10 28 | 1 50.55 | +11 34.5 | 1.369 | 2.361 | 2.1 | 19.1 |
| 11 7 | 1 40.43 | +11 3.9 | 1.397 | 2.361 | 7.2 | 19.4 |
| 11 17 | 1 32.16 | +10 40.4 | 1.451 | 2.361 | 11.9 | 19.7 |
| 11 27 | 1 26.60 | +10 28.9 | 1.527 | 2.362 | 15.9 | 19.9 |

**300410** 2007 $RO_{287}$ 10 24.1 32.°26 0.°2/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.85 | +13 54.1 | 1.566 | 2.410 | 16.1 | 20.7 |
| 9 28 | 2 14.76 | +13 26.2 | 1.500 | 2.415 | 12.3 | 20.4 |
| 10 8 | 2 8.26 | +12 44.9 | 1.456 | 2.421 | 7.9 | 20.2 |
| 10 18 | 2 0.10 | +11 53.7 | 1.436 | 2.428 | 3.0 | 19.9 |
| 10 28 | 1 51.37 | +10 58.7 | 1.443 | 2.435 | 2.0 | 19.9 |
| 11 7 | 1 43.30 | +10 6.8 | 1.477 | 2.442 | 6.9 | 20.2 |
| 11 17 | 1 36.89 | + 9 24.6 | 1.537 | 2.449 | 11.3 | 20.5 |
| 11 27 | 1 32.89 | + 8 56.9 | 1.619 | 2.457 | 15.0 | 20.7 |

**334144** 2001 $RJ_{100}$ 10 24.1 9.°05 0.°6/23.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.07 | +11 51.5 | 1.034 | 1.912 | 20.1 | 19.3 |
| 9 28 | 2 14.42 | +11 46.1 | 0.980 | 1.913 | 15.3 | 19.0 |
| 10 8 | 2 8.52 | +11 26.9 | 0.944 | 1.917 | 9.8 | 18.7 |
| 10 18 | 2 0.29 | +10 57.7 | 0.929 | 1.922 | 3.7 | 18.4 |
| 10 28 | 1 51.26 | +10 25.2 | 0.937 | 1.928 | 2.7 | 18.4 |
| 11 7 | 1 43.12 | + 9 57.6 | 0.967 | 1.936 | 8.7 | 18.8 |
| 11 17 | 1 37.25 | + 9 41.9 | 1.020 | 1.946 | 14.1 | 19.1 |
| 11 27 | 1 34.57 | + 9 42.7 | 1.092 | 1.957 | 18.7 | 19.4 |

**220145** 2002 $TU_{147}$ 10 24.1 50.°15 1.°8/25.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.74 | +18 1.7 | 1.274 | 2.116 | 19.2 | 20.5 |
| 9 28 | 2 17.40 | +17 49.9 | 1.219 | 2.129 | 14.9 | 20.3 |
| 10 8 | 2 10.12 | +17 18.8 | 1.183 | 2.144 | 9.9 | 20.1 |
| 10 18 | 2 0.83 | +16 30.7 | 1.170 | 2.158 | 4.5 | 19.8 |
| 10 28 | 1 50.94 | +15 31.7 | 1.182 | 2.173 | 2.4 | 19.7 |
| 11 7 | 1 41.98 | +14 30.6 | 1.219 | 2.188 | 7.3 | 20.1 |
| 11 17 | 1 35.17 | +13 36.2 | 1.281 | 2.204 | 12.2 | 20.4 |
| 11 27 | 1 31.29 | +12 55.6 | 1.365 | 2.219 | 16.3 | 20.7 |

**289782** 2005 $JZ_{101}$ 10 24.1 126.°58 2.°2/21.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.95 | + 8 9.4 | 2.214 | 3.051 | 12.3 | 22.2 |
| 9 28 | 2 14.04 | + 7 13.7 | 2.150 | 3.064 | 9.2 | 22.0 |
| 10 8 | 2 7.43 | + 6 11.5 | 2.110 | 3.076 | 5.8 | 21.8 |
| 10 18 | 1 59.70 | + 5 7.4 | 2.098 | 3.088 | 2.6 | 21.6 |
| 10 28 | 1 51.65 | + 4 6.7 | 2.116 | 3.099 | 3.2 | 21.7 |
| 11 7 | 1 44.10 | + 3 14.9 | 2.163 | 3.110 | 6.4 | 21.9 |
| 11 17 | 1 37.77 | + 2 35.7 | 2.237 | 3.121 | 9.6 | 22.2 |
| 11 27 | 1 33.19 | + 2 11.8 | 2.336 | 3.131 | 12.4 | 22.4 |

**382086** 2011 $FO_{127}$ 10 24.1 234.°16 4.°6/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.17 | + 2 26.2 | 1.751 | 2.602 | 14.4 | 22.0 |
| 9 28 | 2 17.13 | + 1 32.6 | 1.674 | 2.593 | 11.0 | 21.8 |
| 10 8 | 2 9.76 | + 0 35.3 | 1.619 | 2.583 | 7.4 | 21.5 |
| 10 18 | 2 0.71 | − 0 19.5 | 1.591 | 2.573 | 4.7 | 21.4 |
| 10 28 | 1 51.00 | − 1 4.8 | 1.590 | 2.563 | 5.7 | 21.4 |
| 11 7 | 1 41.77 | − 1 34.6 | 1.616 | 2.552 | 9.2 | 21.6 |
| 11 17 | 1 34.03 | − 1 45.1 | 1.668 | 2.541 | 13.0 | 21.8 |
| 11 27 | 1 28.58 | − 1 35.1 | 1.741 | 2.529 | 16.3 | 22.0 |

**438322** 2006 $KB_{15}$ 10 24.1 122.°20 4.°3/20.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.27 | + 1 13.0 | 2.078 | 2.922 | 12.7 | 21.6 |
| 9 28 | 2 15.84 | + 0 19.2 | 2.022 | 2.936 | 9.6 | 21.4 |
| 10 8 | 2 8.58 | − 0 35.5 | 1.990 | 2.951 | 6.5 | 21.2 |
| 10 18 | 2 0.15 | − 1 25.7 | 1.985 | 2.964 | 4.4 | 21.1 |
| 10 28 | 1 51.41 | − 2 5.9 | 2.010 | 2.978 | 5.2 | 21.2 |
| 11 7 | 1 43.24 | − 2 31.8 | 2.062 | 2.990 | 8.0 | 21.4 |
| 11 17 | 1 36.41 | − 2 41.1 | 2.141 | 3.003 | 11.0 | 21.6 |
| 11 27 | 1 31.47 | − 2 33.3 | 2.243 | 3.015 | 13.6 | 21.8 |

**186307** 2002 $CQ_{161}$ 10 24.1 163°.80 4°.2/19.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.13 | − 1 11.0 | 2.632 | 3.473 | 10.5 | 20.7 |
| 9 28 | 2 13.20 | − 2 2.7 | 2.566 | 3.477 | 8.0 | 20.5 |
| 10 8 | 2 6.82 | − 2 53.9 | 2.526 | 3.481 | 5.6 | 20.4 |
| 10 18 | 1 59.48 | − 3 40.1 | 2.513 | 3.485 | 4.2 | 20.3 |
| 10 28 | 1 51.83 | − 4 17.0 | 2.530 | 3.488 | 5.0 | 20.4 |
| 11 7 | 1 44.56 | − 4 41.0 | 2.575 | 3.491 | 7.2 | 20.5 |
| 11 17 | 1 38.28 | − 4 50.3 | 2.648 | 3.494 | 9.7 | 20.7 |
| 11 27 | 1 33.49 | − 4 44.2 | 2.744 | 3.496 | 11.8 | 20.8 |

**357428** 2003 $YE_{123}$ 10 24.1 315°.69 7°.9/18.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.76 | − 5 22.3 | 1.600 | 2.462 | 14.9 | 20.3 |
| 9 28 | 2 14.76 | − 6 29.7 | 1.528 | 2.446 | 11.9 | 20.1 |
| 10 8 | 2 8.36 | − 7 33.9 | 1.479 | 2.431 | 9.1 | 19.9 |
| 10 18 | 2 0.20 | − 8 26.3 | 1.453 | 2.416 | 7.9 | 19.8 |
| 10 28 | 1 51.34 | − 8 58.7 | 1.453 | 2.401 | 9.1 | 19.8 |
| 11 7 | 1 42.96 | − 9 5.5 | 1.478 | 2.387 | 12.0 | 20.0 |
| 11 17 | 1 36.13 | − 8 45.0 | 1.525 | 2.373 | 15.3 | 20.1 |
| 11 27 | 1 31.65 | − 7 58.4 | 1.591 | 2.360 | 18.4 | 20.3 |

**483032** 2015 $FZ_{74}$ 10 24.1 44°.52 2°.8/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.84 | + 9 11.6 | 1.270 | 2.135 | 17.9 | 20.4 |
| 9 28 | 2 15.61 | + 8 10.6 | 1.231 | 2.159 | 13.3 | 20.2 |
| 10 8 | 2 8.75 | + 6 59.9 | 1.213 | 2.184 | 8.3 | 20.0 |
| 10 18 | 2 0.25 | + 5 46.7 | 1.218 | 2.209 | 3.6 | 19.8 |
| 10 28 | 1 51.43 | + 4 40.3 | 1.249 | 2.235 | 4.2 | 19.9 |
| 11 7 | 1 43.61 | + 3 48.6 | 1.306 | 2.261 | 8.8 | 20.2 |
| 11 17 | 1 37.80 | + 3 16.6 | 1.386 | 2.288 | 13.1 | 20.6 |
| 11 27 | 1 34.62 | + 3 6.2 | 1.487 | 2.315 | 16.7 | 20.9 |

**388168** 2006 $AN_{46}$ 10 24.1 329°.07 2°.4/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.27 | + 9 4.9 | 1.411 | 2.272 | 16.6 | 20.9 |
| 9 28 | 2 14.70 | + 8 23.1 | 1.337 | 2.263 | 12.6 | 20.7 |
| 10 8 | 2 8.47 | + 7 30.4 | 1.285 | 2.255 | 8.0 | 20.4 |
| 10 18 | 2 0.28 | + 6 32.2 | 1.256 | 2.247 | 3.4 | 20.1 |
| 10 28 | 1 51.32 | + 5 35.9 | 1.253 | 2.240 | 3.9 | 20.1 |
| 11 7 | 1 42.92 | + 4 49.8 | 1.276 | 2.233 | 8.7 | 20.4 |
| 11 17 | 1 36.27 | + 4 20.0 | 1.322 | 2.227 | 13.3 | 20.6 |
| 11 27 | 1 32.22 | + 4 10.5 | 1.390 | 2.221 | 17.4 | 20.9 |

**409093** 2003 $SK_{349}$ 10 24.1 31°.90 0°.8/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.27 | +11 15.6 | 2.111 | 2.947 | 12.8 | 21.3 |
| 9 28 | 2 13.00 | +10 48.7 | 2.038 | 2.950 | 9.7 | 21.1 |
| 10 8 | 2 6.90 | +10 13.5 | 1.989 | 2.954 | 6.1 | 20.9 |
| 10 18 | 1 59.57 | + 9 33.1 | 1.966 | 2.958 | 2.3 | 20.7 |
| 10 28 | 1 51.80 | + 8 51.9 | 1.973 | 2.962 | 2.1 | 20.7 |
| 11 7 | 1 44.49 | + 8 14.6 | 2.007 | 2.967 | 5.8 | 20.9 |
| 11 17 | 1 38.38 | + 7 45.6 | 2.069 | 2.971 | 9.4 | 21.2 |
| 11 27 | 1 34.10 | + 7 28.1 | 2.155 | 2.976 | 12.4 | 21.4 |

**356126** 2009 $FR_{42}$ 10 24.1 134°.54 2°.4/22.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.81 | + 6 45.3 | 2.003 | 2.846 | 13.2 | 21.0 |
| 9 28 | 2 14.96 | + 6 9.1 | 1.934 | 2.850 | 9.9 | 20.8 |
| 10 8 | 2 8.17 | + 5 27.5 | 1.887 | 2.853 | 6.3 | 20.6 |
| 10 18 | 2 0.06 | + 4 44.6 | 1.868 | 2.857 | 3.0 | 20.4 |
| 10 28 | 1 51.49 | + 4 5.6 | 1.877 | 2.860 | 3.5 | 20.5 |
| 11 7 | 1 43.42 | + 3 35.3 | 1.914 | 2.863 | 7.0 | 20.7 |
| 11 17 | 1 36.68 | + 3 17.4 | 1.978 | 2.866 | 10.5 | 20.9 |
| 11 27 | 1 31.88 | + 3 14.0 | 2.066 | 2.869 | 13.5 | 21.1 |

**448694** 2010 $XP_{8}$ 10 24.1 159°.89 5°.6/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.26 | − 7 44.2 | 2.761 | 3.596 | 10.2 | 21.6 |
| 9 28 | 2 13.23 | − 8 37.3 | 2.702 | 3.602 | 8.1 | 21.5 |
| 10 8 | 2 6.81 | − 9 25.8 | 2.668 | 3.606 | 6.4 | 21.4 |
| 10 18 | 1 59.48 | −10 4.9 | 2.662 | 3.611 | 5.6 | 21.4 |
| 10 28 | 1 51.87 | −10 30.7 | 2.685 | 3.615 | 6.4 | 21.4 |
| 11 7 | 1 44.65 | −10 40.4 | 2.735 | 3.618 | 8.2 | 21.5 |
| 11 17 | 1 38.40 | −10 33.1 | 2.811 | 3.622 | 10.2 | 21.7 |
| 11 27 | 1 33.58 | −10 9.3 | 2.909 | 3.625 | 12.0 | 21.8 |

**334983** 2004 $FD_{29}$ 10 24.1 186°.18 1°.5/23.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.31 | + 9 7.2 | 1.743 | 2.581 | 15.0 | 20.8 |
| 9 28 | 2 18.75 | + 8 48.8 | 1.668 | 2.581 | 11.4 | 20.6 |
| 10 8 | 2 10.78 | + 8 22.8 | 1.615 | 2.581 | 7.2 | 20.3 |
| 10 18 | 2 1.12 | + 7 52.5 | 1.589 | 2.580 | 2.9 | 20.1 |
| 10 28 | 1 50.82 | + 7 22.8 | 1.590 | 2.579 | 2.8 | 20.1 |
| 11 7 | 1 41.07 | + 6 58.8 | 1.620 | 2.577 | 7.2 | 20.3 |
| 11 17 | 1 32.93 | + 6 45.0 | 1.677 | 2.575 | 11.4 | 20.6 |
| 11 27 | 1 27.15 | + 6 44.6 | 1.756 | 2.573 | 15.0 | 20.8 |

**328260** 2008 $GQ_{5}$ 10 24.1 79°.86 3°.1/21.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.97 | + 7 39.0 | 1.448 | 2.301 | 16.7 | 21.3 |
| 9 28 | 2 17.75 | + 6 39.1 | 1.401 | 2.323 | 12.5 | 21.1 |
| 10 8 | 2 10.05 | + 5 31.4 | 1.376 | 2.345 | 7.9 | 20.9 |
| 10 18 | 2 0.76 | + 4 22.7 | 1.377 | 2.366 | 3.7 | 20.7 |
| 10 28 | 1 51.14 | + 3 21.2 | 1.404 | 2.387 | 4.5 | 20.8 |
| 11 7 | 1 42.42 | + 2 33.9 | 1.458 | 2.408 | 8.6 | 21.1 |
| 11 17 | 1 35.61 | + 2 5.4 | 1.537 | 2.429 | 12.7 | 21.4 |
| 11 27 | 1 31.33 | + 1 57.4 | 1.637 | 2.449 | 16.1 | 21.7 |

**208870** 2002 $TA_{15}$ 10 24.1 46°.73 1°.2/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.44 | +15 52.8 | 1.741 | 2.568 | 15.5 | 20.4 |
| 9 28 | 2 16.60 | +15 55.1 | 1.670 | 2.574 | 12.0 | 20.2 |
| 10 8 | 2 9.42 | +15 44.9 | 1.621 | 2.579 | 7.9 | 20.0 |
| 10 18 | 2 0.60 | +15 23.7 | 1.596 | 2.585 | 3.5 | 19.7 |
| 10 28 | 1 51.19 | +14 54.8 | 1.600 | 2.591 | 1.9 | 19.6 |
| 11 7 | 1 42.35 | +14 23.4 | 1.631 | 2.597 | 6.1 | 19.9 |
| 11 17 | 1 35.10 | +13 55.0 | 1.688 | 2.603 | 10.2 | 20.2 |
| 11 27 | 1 30.17 | +13 34.8 | 1.769 | 2.610 | 13.8 | 20.4 |

**199814** 2007 $DD_{33}$ 10 24.1 149°.83 0°.1/24.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.80 | +14 15.2 | 1.884 | 2.708 | 14.6 | 21.3 |
| 9 28 | 2 17.40 | +13 53.5 | 1.811 | 2.715 | 11.2 | 21.1 |
| 10 8 | 2 9.82 | +13 20.1 | 1.761 | 2.722 | 7.2 | 20.8 |
| 10 18 | 2 0.72 | +12 37.7 | 1.737 | 2.728 | 2.8 | 20.6 |
| 10 28 | 1 51.12 | +11 50.8 | 1.742 | 2.733 | 1.7 | 20.5 |
| 11 7 | 1 42.07 | +11 5.0 | 1.776 | 2.738 | 6.1 | 20.8 |
| 11 17 | 1 34.54 | +10 26.0 | 1.837 | 2.743 | 10.1 | 21.1 |
| 11 27 | 1 29.20 | + 9 58.2 | 1.922 | 2.747 | 13.5 | 21.3 |

**356020** 2009 $BY_{122}$ 10 24.1 331°.77 4°.0/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.11 | + 5 14.4 | 1.571 | 2.434 | 15.1 | 20.8 |
| 9 28 | 2 13.50 | + 4 12.0 | 1.500 | 2.427 | 11.5 | 20.5 |
| 10 8 | 2 7.54 | + 3 2.6 | 1.451 | 2.420 | 7.5 | 20.3 |
| 10 18 | 1 59.91 | + 1 52.8 | 1.427 | 2.414 | 4.3 | 20.1 |
| 10 28 | 1 51.64 | + 0 50.8 | 1.429 | 2.408 | 5.4 | 20.1 |
| 11 7 | 1 43.90 | + 0 4.1 | 1.458 | 2.402 | 9.2 | 20.3 |
| 11 17 | 1 37.70 | − 0 22.6 | 1.510 | 2.397 | 13.2 | 20.6 |
| 11 27 | 1 33.82 | − 0 26.9 | 1.584 | 2.392 | 16.7 | 20.8 |

**183789** 2004 $BT_{33}$ 10 24.1 85°.73 3°.4/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.99 | + 5 59.9 | 1.472 | 2.326 | 16.5 | 20.4 |
| 9 28 | 2 18.54 | + 5 13.4 | 1.422 | 2.344 | 12.4 | 20.2 |
| 10 8 | 2 10.58 | + 4 21.3 | 1.394 | 2.362 | 7.9 | 19.9 |
| 10 18 | 2 1.00 | + 3 29.5 | 1.391 | 2.380 | 3.9 | 19.8 |
| 10 28 | 1 51.02 | + 2 45.4 | 1.415 | 2.398 | 4.7 | 19.9 |
| 11 7 | 1 41.91 | + 2 14.9 | 1.466 | 2.415 | 8.7 | 20.1 |
| 11 17 | 1 34.70 | + 2 2.0 | 1.542 | 2.432 | 12.7 | 20.4 |
| 11 27 | 1 30.06 | + 2 7.8 | 1.639 | 2.449 | 16.2 | 20.7 |

**80321** 1999 $XJ_{85}$ 10 24.1 6°.25 2°.9/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.35 | +19 19.7 | 1.094 | 1.950 | 20.8 | 18.3 |
| 9 28 | 2 14.72 | +19 24.2 | 1.033 | 1.950 | 16.4 | 18.0 |
| 10 8 | 2 8.82 | +19 6.2 | 0.989 | 1.951 | 11.2 | 17.7 |
| 10 18 | 2 0.50 | +18 26.4 | 0.966 | 1.953 | 5.7 | 17.4 |
| 10 28 | 1 51.28 | +17 30.3 | 0.966 | 1.956 | 3.2 | 17.3 |
| 11 7 | 1 42.88 | +16 27.3 | 0.989 | 1.961 | 8.0 | 17.6 |
| 11 17 | 1 36.75 | +15 28.2 | 1.035 | 1.967 | 13.3 | 17.9 |
| 11 27 | 1 33.85 | +14 42.3 | 1.101 | 1.974 | 17.9 | 18.2 |

**634** Ute 10 24.1 21°.70 7°.3/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.93 | − 4 21.5 | 1.661 | 2.528 | 14.3 | 13.6 |
| 9 28 | 2 12.28 | − 5 42.5 | 1.614 | 2.535 | 11.2 | 13.5 |
| 10 8 | 2 6.55 | − 6 59.7 | 1.590 | 2.544 | 8.5 | 13.3 |
| 10 18 | 1 59.46 | − 8 4.9 | 1.590 | 2.553 | 7.3 | 13.3 |
| 10 28 | 1 51.98 | − 8 50.4 | 1.616 | 2.562 | 8.5 | 13.4 |
| 11 7 | 1 45.13 | − 9 11.7 | 1.666 | 2.573 | 11.1 | 13.6 |
| 11 17 | 1 39.75 | − 9 7.4 | 1.740 | 2.584 | 13.9 | 13.8 |
| 11 27 | 1 36.45 | − 8 38.9 | 1.834 | 2.596 | 16.5 | 14.0 |

**43932** 1996 $QH$ 10 24.1 349°.56 5°.8/27.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.76 | +22 19.0 | 1.030 | 1.880 | 22.2 | 17.3 |
| 9 28 | 2 15.53 | +23 8.3 | 0.962 | 1.871 | 18.1 | 17.0 |
| 10 8 | 2 9.69 | +23 34.5 | 0.910 | 1.863 | 13.2 | 16.7 |
| 10 18 | 2 0.96 | +23 34.1 | 0.878 | 1.857 | 8.3 | 16.4 |
| 10 28 | 1 50.94 | +23 7.7 | 0.867 | 1.852 | 5.9 | 16.3 |
| 11 7 | 1 41.60 | +22 22.2 | 0.879 | 1.849 | 9.0 | 16.5 |
| 11 17 | 1 34.72 | +21 28.6 | 0.911 | 1.847 | 14.1 | 16.7 |
| 11 27 | 1 31.48 | +20 39.0 | 0.963 | 1.847 | 18.9 | 17.0 |

**116718** 2004 $DV_{8}$ 10 24.1 86°.02 1°.2/23.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.57 | +11 40.6 | 1.522 | 2.364 | 16.6 | 20.0 |
| 9 28 | 2 18.20 | +11 3.0 | 1.469 | 2.384 | 12.5 | 19.8 |
| 10 8 | 2 10.37 | +10 14.2 | 1.438 | 2.404 | 7.9 | 19.5 |
| 10 18 | 2 0.92 | + 9 18.8 | 1.432 | 2.423 | 2.9 | 19.3 |
| 10 28 | 1 51.08 | + 8 23.4 | 1.453 | 2.443 | 2.7 | 19.3 |
| 11 7 | 1 42.10 | + 7 35.1 | 1.502 | 2.461 | 7.4 | 19.7 |
| 11 17 | 1 34.97 | + 6 59.6 | 1.576 | 2.480 | 11.6 | 20.0 |
| 11 27 | 1 30.36 | + 6 40.3 | 1.673 | 2.498 | 15.2 | 20.2 |

**323016** 2002 $PU_{169}$ 10 24.1 88°.94 3°.1/26.3 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.67 | +20 48.7 | 1.499 | 2.314 | 18.2 | 21.1 |
| 9 28 | 2 20.08 | +20 54.1 | 1.440 | 2.331 | 14.3 | 20.9 |
| 10 8 | 2 11.72 | +20 40.6 | 1.400 | 2.349 | 9.9 | 20.7 |
| 10 18 | 2 1.49 | +20 8.6 | 1.385 | 2.367 | 5.3 | 20.5 |
| 10 28 | 1 50.71 | +19 21.9 | 1.396 | 2.384 | 3.2 | 20.4 |
| 11 7 | 1 40.79 | +18 27.6 | 1.434 | 2.401 | 6.7 | 20.7 |
| 11 17 | 1 32.91 | +17 33.8 | 1.499 | 2.418 | 11.0 | 21.0 |
| 11 27 | 1 27.81 | +16 48.1 | 1.586 | 2.434 | 14.8 | 21.3 |

**442424** 2011 $UA_{129}$ 10 24.1 66°.24 3°.3/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.45 | + 3 51.8 | 1.785 | 2.632 | 14.3 | 20.8 |
| 9 28 | 2 17.07 | + 3 29.3 | 1.727 | 2.645 | 10.8 | 20.6 |
| 10 8 | 2 9.54 | + 3 4.6 | 1.693 | 2.658 | 7.0 | 20.4 |
| 10 18 | 2 0.61 | + 2 41.9 | 1.684 | 2.671 | 3.7 | 20.2 |
| 10 28 | 1 51.27 | + 2 25.9 | 1.704 | 2.685 | 4.3 | 20.3 |
| 11 7 | 1 42.60 | + 2 20.7 | 1.751 | 2.698 | 7.7 | 20.5 |
| 11 17 | 1 35.47 | + 2 28.6 | 1.825 | 2.711 | 11.3 | 20.8 |
| 11 27 | 1 30.54 | + 2 50.6 | 1.921 | 2.725 | 14.4 | 21.0 |

**366694** 2003 $UM_{398}$ 10 24.1 260°.78 6°.4/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.62 | − 8 19.2 | 2.460 | 3.301 | 11.1 | 21.4 |
| 9 28 | 2 13.03 | − 9 16.3 | 2.392 | 3.293 | 8.9 | 21.3 |
| 10 8 | 2 6.84 | −10 8.3 | 2.348 | 3.285 | 7.1 | 21.2 |
| 10 18 | 1 59.57 | −10 50.0 | 2.330 | 3.277 | 6.4 | 21.1 |
| 10 28 | 1 51.91 | −11 16.3 | 2.341 | 3.269 | 7.3 | 21.2 |
| 11 7 | 1 44.61 | −11 24.1 | 2.378 | 3.261 | 9.3 | 21.3 |
| 11 17 | 1 38.34 | −11 12.2 | 2.439 | 3.253 | 11.5 | 21.4 |
| 11 27 | 1 33.66 | −10 41.3 | 2.523 | 3.244 | 13.5 | 21.5 |

**488198** 2015 $XR_{210}$ 10 24.1 320°.93 3°.2/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.32 | + 3 25.8 | 2.066 | 2.912 | 12.7 | 20.9 |
| 9 28 | 2 14.63 | + 3 2.8 | 1.989 | 2.906 | 9.6 | 20.7 |
| 10 8 | 2 8.02 | + 2 37.6 | 1.935 | 2.899 | 6.3 | 20.5 |
| 10 18 | 2 0.06 | + 2 14.1 | 1.907 | 2.893 | 3.5 | 20.3 |
| 10 28 | 1 51.59 | + 1 56.8 | 1.908 | 2.887 | 4.1 | 20.4 |
| 11 7 | 1 43.51 | + 1 49.5 | 1.937 | 2.882 | 7.3 | 20.6 |
| 11 17 | 1 36.67 | + 1 54.7 | 1.993 | 2.876 | 10.7 | 20.8 |
| 11 27 | 1 31.72 | + 2 13.9 | 2.072 | 2.871 | 13.6 | 21.0 |

**370852** 2005 $CY_{46}$ 10 24.1 262°.89 1°.6/25.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.73 | +18 28.7 | 2.524 | 3.328 | 11.9 | 21.9 |
| 9 28 | 2 13.26 | +18 22.5 | 2.430 | 3.319 | 9.3 | 21.8 |
| 10 8 | 2 7.08 | +18 5.3 | 2.359 | 3.310 | 6.3 | 21.6 |
| 10 18 | 1 59.70 | +17 37.8 | 2.315 | 3.300 | 3.2 | 21.3 |
| 10 28 | 1 51.82 | +17 2.6 | 2.300 | 3.290 | 1.8 | 21.2 |
| 11 7 | 1 44.22 | +16 23.4 | 2.315 | 3.281 | 4.7 | 21.4 |
| 11 17 | 1 37.64 | +15 44.6 | 2.358 | 3.271 | 7.9 | 21.6 |
| 11 27 | 1 32.69 | +15 10.7 | 2.428 | 3.261 | 10.8 | 21.8 |

**374809** 2006 $UU_{43}$ 10 24.1 197°.48 1°.2/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.06 | + 9 46.6 | 1.601 | 2.441 | 16.0 | 21.2 |
| 9 28 | 2 19.57 | + 9 37.0 | 1.526 | 2.440 | 12.2 | 21.0 |
| 10 8 | 2 11.46 | + 9 19.1 | 1.473 | 2.439 | 7.8 | 20.7 |
| 10 18 | 2 1.46 | + 8 56.0 | 1.446 | 2.437 | 3.0 | 20.4 |
| 10 28 | 1 50.73 | + 8 32.2 | 1.446 | 2.436 | 2.7 | 20.4 |
| 11 7 | 1 40.58 | + 8 13.0 | 1.474 | 2.434 | 7.4 | 20.7 |
| 11 17 | 1 32.18 | + 8 3.2 | 1.527 | 2.431 | 11.9 | 21.0 |
| 11 27 | 1 26.36 | + 8 6.3 | 1.604 | 2.429 | 15.8 | 21.2 |

**483284** 2015 $TH_{294}$ 10 24.1 91°.39 0°.1/24.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.91 | +12 30.2 | 2.011 | 2.838 | 13.7 | 21.1 |
| 9 28 | 2 16.67 | +12 31.4 | 1.936 | 2.841 | 10.5 | 20.9 |
| 10 8 | 2 9.36 | +12 24.2 | 1.883 | 2.844 | 6.7 | 20.6 |
| 10 18 | 2 0.60 | +12 10.4 | 1.856 | 2.847 | 2.6 | 20.4 |
| 10 28 | 1 51.30 | +11 53.0 | 1.859 | 2.850 | 1.6 | 20.3 |
| 11 7 | 1 42.48 | +11 36.1 | 1.890 | 2.853 | 5.8 | 20.6 |
| 11 17 | 1 35.01 | +11 23.6 | 1.949 | 2.856 | 9.6 | 20.9 |
| 11 27 | 1 29.60 | +11 19.0 | 2.032 | 2.859 | 12.8 | 21.1 |

**433260** 2012 $XP_{63}$ 10 24.1 78°.66 5°.8/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.84 | − 2 47.6 | 1.664 | 2.512 | 15.1 | 20.4 |
| 9 28 | 2 19.66 | − 3 17.5 | 1.614 | 2.528 | 11.7 | 20.3 |
| 10 8 | 2 11.19 | − 3 43.5 | 1.588 | 2.544 | 8.2 | 20.1 |
| 10 18 | 2 1.24 | − 3 59.9 | 1.587 | 2.561 | 5.9 | 20.0 |
| 10 28 | 1 50.95 | − 4 1.6 | 1.613 | 2.577 | 6.8 | 20.1 |
| 11 7 | 1 41.47 | − 3 45.5 | 1.666 | 2.593 | 9.7 | 20.3 |
| 11 17 | 1 33.75 | − 3 11.5 | 1.745 | 2.609 | 12.9 | 20.6 |
| 11 27 | 1 28.42 | − 2 20.9 | 1.845 | 2.625 | 15.8 | 20.8 |

**223894** 2004 $VJ_{23}$ 10 24.1 337°.89 3°.3/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.85 | + 4 16.9 | 1.794 | 2.650 | 13.9 | 19.5 |
| 9 28 | 2 13.84 | + 3 49.7 | 1.717 | 2.640 | 10.6 | 19.3 |
| 10 8 | 2 7.68 | + 3 18.9 | 1.663 | 2.630 | 6.9 | 19.0 |
| 10 18 | 1 59.99 | + 2 49.1 | 1.634 | 2.622 | 3.7 | 18.8 |
| 10 28 | 1 51.68 | + 2 25.6 | 1.632 | 2.613 | 4.4 | 18.8 |
| 11 7 | 1 43.81 | + 2 13.1 | 1.658 | 2.606 | 8.0 | 19.0 |
| 11 17 | 1 37.30 | + 2 15.0 | 1.708 | 2.599 | 11.7 | 19.3 |
| 11 27 | 1 32.89 | + 2 32.7 | 1.781 | 2.593 | 15.0 | 19.5 |

**19505** 1998 $MC$ 10 24.1 181°.76 1°.1/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.26 | +10 6.8 | 1.993 | 2.825 | 13.6 | 18.6 |
| 9 28 | 2 16.94 | + 9 47.6 | 1.916 | 2.826 | 10.3 | 18.4 |
| 10 8 | 2 9.53 | + 9 20.8 | 1.862 | 2.826 | 6.6 | 18.2 |
| 10 18 | 2 0.68 | + 8 49.3 | 1.835 | 2.826 | 2.5 | 17.9 |
| 10 28 | 1 51.28 | + 8 17.3 | 1.836 | 2.826 | 2.3 | 17.9 |
| 11 7 | 1 42.36 | + 7 49.5 | 1.867 | 2.825 | 6.3 | 18.2 |
| 11 17 | 1 34.81 | + 7 30.2 | 1.925 | 2.824 | 10.1 | 18.4 |
| 11 27 | 1 29.31 | + 7 22.6 | 2.007 | 2.822 | 13.4 | 18.6 |

**325651** 2009 $SV_{330}$ 10 24.1 75°.33 2°.1/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 25.98 | + 7 46.2 | 1.413 | 2.263 | 17.2 | 20.0 |
| 9 28 | 2 20.24 | + 7 31.1 | 1.360 | 2.279 | 13.0 | 19.8 |
| 10 8 | 2 11.79 | + 7 9.2 | 1.329 | 2.296 | 8.2 | 19.6 |
| 10 18 | 2 1.54 | + 6 44.8 | 1.322 | 2.313 | 3.4 | 19.4 |
| 10 28 | 1 50.81 | + 6 23.4 | 1.341 | 2.329 | 3.5 | 19.4 |
| 11 7 | 1 40.98 | + 6 10.3 | 1.388 | 2.346 | 8.1 | 19.7 |
| 11 17 | 1 33.18 | + 6 9.4 | 1.460 | 2.362 | 12.5 | 20.0 |
| 11 27 | 1 28.13 | + 6 22.9 | 1.553 | 2.378 | 16.2 | 20.3 |

**132708** 2002 $OT_{13}$ 10 24.1 128°.91 1°.5/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.84 | + 9 55.0 | 2.430 | 3.265 | 11.4 | 20.3 |
| 9 28 | 2 11.70 | + 9 2.5 | 2.356 | 3.268 | 8.5 | 20.1 |
| 10 8 | 2 6.01 | + 8 2.4 | 2.306 | 3.272 | 5.4 | 19.9 |
| 10 18 | 1 59.28 | + 6 58.8 | 2.284 | 3.275 | 2.2 | 19.7 |
| 10 28 | 1 52.20 | + 5 56.4 | 2.292 | 3.278 | 2.5 | 19.8 |
| 11 7 | 1 45.51 | + 5 0.3 | 2.329 | 3.281 | 5.7 | 20.0 |
| 11 17 | 1 39.85 | + 4 14.7 | 2.395 | 3.284 | 8.8 | 20.2 |
| 11 27 | 1 35.74 | + 3 42.5 | 2.484 | 3.287 | 11.5 | 20.4 |

**472671** 2015 $EY_{14}$ 10 24.1 120°.42 0°.5/23.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.68 | +12 38.7 | 1.724 | 2.554 | 15.5 | 22.5 |
| 9 28 | 2 18.92 | +12 14.8 | 1.661 | 2.569 | 11.8 | 22.3 |
| 10 8 | 2 10.82 | +11 40.0 | 1.620 | 2.583 | 7.5 | 22.0 |
| 10 18 | 2 1.17 | +10 57.6 | 1.605 | 2.597 | 2.8 | 21.8 |
| 10 28 | 1 51.05 | +10 12.6 | 1.619 | 2.610 | 2.1 | 21.8 |
| 11 7 | 1 41.64 | + 9 31.1 | 1.661 | 2.623 | 6.6 | 22.1 |
| 11 17 | 1 33.92 | + 8 58.4 | 1.730 | 2.635 | 10.7 | 22.4 |
| 11 27 | 1 28.57 | + 8 38.7 | 1.823 | 2.646 | 14.2 | 22.6 |

**257608** 1999 $RM_{213}$ 10 24.1 41°.31 2°.5/26.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.89 | +20 3.9 | 1.684 | 2.503 | 16.3 | 20.5 |
| 9 28 | 2 15.39 | +20 2.6 | 1.629 | 2.524 | 12.7 | 20.3 |
| 10 8 | 2 8.61 | +19 44.9 | 1.594 | 2.546 | 8.7 | 20.1 |
| 10 18 | 2 0.32 | +19 12.0 | 1.584 | 2.568 | 4.6 | 19.9 |
| 10 28 | 1 51.62 | +18 27.8 | 1.602 | 2.591 | 2.7 | 19.9 |
| 11 7 | 1 43.65 | +17 38.7 | 1.646 | 2.614 | 5.9 | 20.1 |
| 11 17 | 1 37.35 | +16 51.1 | 1.717 | 2.637 | 9.7 | 20.4 |
| 11 27 | 1 33.35 | +16 11.1 | 1.812 | 2.661 | 13.1 | 20.7 |

**72031** 2000 $XO_{34}$ 10 24.1 228°.63 1°.1/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.85 | + 8 48.4 | 1.940 | 2.771 | 14.0 | 18.9 |
| 9 28 | 2 19.06 | + 8 48.7 | 1.856 | 2.765 | 10.7 | 18.7 |
| 10 8 | 2 11.01 | + 8 43.4 | 1.795 | 2.758 | 6.8 | 18.5 |
| 10 18 | 2 1.32 | + 8 34.6 | 1.761 | 2.752 | 2.7 | 18.2 |
| 10 28 | 1 50.94 | + 8 25.7 | 1.756 | 2.745 | 2.4 | 18.2 |
| 11 7 | 1 40.99 | + 8 20.5 | 1.780 | 2.738 | 6.6 | 18.4 |
| 11 17 | 1 32.47 | + 8 22.4 | 1.831 | 2.731 | 10.5 | 18.7 |
| 11 27 | 1 26.13 | + 8 34.2 | 1.907 | 2.723 | 14.0 | 18.9 |

**386701** 2009 $WH_{72}$ 10 24.1 334°.21 2°.1/22.9 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.43 | + 9 39.1 | 1.207 | 2.078 | 18.2 | 20.5 |
| 9 28 | 2 14.59 | + 9 10.8 | 1.133 | 2.064 | 13.9 | 20.2 |
| 10 8 | 2 8.73 | + 8 30.3 | 1.079 | 2.051 | 8.9 | 19.9 |
| 10 18 | 2 0.58 | + 7 42.6 | 1.047 | 2.039 | 3.6 | 19.6 |
| 10 28 | 1 51.42 | + 6 55.4 | 1.039 | 2.028 | 3.7 | 19.6 |
| 11 7 | 1 42.83 | + 6 17.2 | 1.055 | 2.018 | 9.2 | 19.9 |
| 11 17 | 1 36.19 | + 5 55.3 | 1.093 | 2.009 | 14.5 | 20.1 |
| 11 27 | 1 32.53 | + 5 53.9 | 1.151 | 2.001 | 19.1 | 20.4 |

**112945** 2002 $RA_{7}$ 10 24.1 28°.07 5°.0/20.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.47 | + 5 18.9 | 1.202 | 2.078 | 17.9 | 19.4 |
| 9 28 | 2 14.99 | + 4 1.1 | 1.150 | 2.084 | 13.5 | 19.2 |
| 10 8 | 2 8.68 | + 2 35.4 | 1.119 | 2.090 | 8.8 | 18.9 |
| 10 18 | 2 0.44 | + 1 11.2 | 1.110 | 2.097 | 5.2 | 18.8 |
| 10 28 | 1 51.59 | − 0 0.7 | 1.127 | 2.105 | 6.5 | 18.9 |
| 11 7 | 1 43.60 | − 0 51.1 | 1.167 | 2.113 | 10.8 | 19.1 |
| 11 17 | 1 37.63 | − 1 15.2 | 1.230 | 2.122 | 15.2 | 19.4 |
| 11 27 | 1 34.43 | − 1 12.1 | 1.312 | 2.131 | 18.9 | 19.7 |

**63965** 2001 $SV_{70}$ 10 24.1 348°.12 3°.2/21.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.97 | +10 4.6 | 1.290 | 2.160 | 17.3 | 18.8 |
| 9 28 | 2 12.36 | + 8 40.0 | 1.223 | 2.154 | 13.1 | 18.6 |
| 10 8 | 2 7.07 | + 6 59.6 | 1.177 | 2.149 | 8.3 | 18.3 |
| 10 18 | 1 59.86 | + 5 11.8 | 1.154 | 2.145 | 3.8 | 18.0 |
| 10 28 | 1 51.93 | + 3 28.0 | 1.158 | 2.142 | 4.9 | 18.1 |
| 11 7 | 1 44.65 | + 1 59.9 | 1.186 | 2.139 | 9.7 | 18.4 |
| 11 17 | 1 39.17 | + 0 55.9 | 1.237 | 2.138 | 14.4 | 18.6 |
| 11 27 | 1 36.31 | + 0 20.2 | 1.308 | 2.137 | 18.4 | 18.9 |

**442023** 2010 $OV_{115}$ 10 24.1 152°.31 5°.8/29.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.58 | +30 31.0 | 2.076 | 2.829 | 15.8 | 21.6 |
| 9 28 | 2 17.45 | +30 46.5 | 1.994 | 2.834 | 13.2 | 21.4 |
| 10 8 | 2 10.01 | +30 41.4 | 1.931 | 2.838 | 10.3 | 21.3 |
| 10 18 | 2 0.94 | +30 13.8 | 1.892 | 2.842 | 7.5 | 21.1 |
| 10 28 | 1 51.25 | +29 24.7 | 1.880 | 2.846 | 5.8 | 21.0 |
| 11 7 | 1 42.07 | +28 18.8 | 1.896 | 2.849 | 6.7 | 21.1 |
| 11 17 | 1 34.42 | +27 3.3 | 1.940 | 2.852 | 9.3 | 21.2 |
| 11 27 | 1 29.04 | +25 46.6 | 2.008 | 2.855 | 12.1 | 21.4 |

**451613** 2012 $DM_{57}$ 10 24.1 287°.43 4°.4/28.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.31 | +25 36.1 | 2.177 | 2.955 | 14.4 | 21.6 |
| 9 28 | 2 15.65 | +25 56.8 | 2.086 | 2.949 | 11.8 | 21.4 |
| 10 8 | 2 8.86 | +26 1.4 | 2.017 | 2.943 | 8.8 | 21.2 |
| 10 18 | 2 0.51 | +25 48.9 | 1.972 | 2.937 | 5.9 | 21.0 |
| 10 28 | 1 51.50 | +25 20.1 | 1.954 | 2.931 | 4.4 | 20.9 |
| 11 7 | 1 42.83 | +24 38.7 | 1.965 | 2.925 | 5.9 | 21.0 |
| 11 17 | 1 35.46 | +23 50.3 | 2.003 | 2.919 | 8.8 | 21.1 |
| 11 27 | 1 30.14 | +23 1.4 | 2.067 | 2.913 | 11.9 | 21.3 |

**487182** 2014 $OR_{327}$ 10 24.1 41°.19 2°.9/26.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.31 | +21 17.3 | 1.954 | 2.760 | 14.9 | 20.7 |
| 9 28 | 2 14.85 | +21 21.4 | 1.882 | 2.768 | 11.8 | 20.5 |
| 10 8 | 2 8.28 | +21 10.1 | 1.831 | 2.776 | 8.2 | 20.3 |
| 10 18 | 2 0.25 | +20 43.9 | 1.805 | 2.785 | 4.6 | 20.1 |
| 10 28 | 1 51.70 | +20 5.5 | 1.807 | 2.793 | 2.9 | 20.0 |
| 11 7 | 1 43.67 | +19 20.0 | 1.836 | 2.802 | 5.6 | 20.2 |
| 11 17 | 1 37.06 | +18 33.3 | 1.893 | 2.812 | 9.1 | 20.4 |
| 11 27 | 1 32.55 | +17 51.4 | 1.974 | 2.821 | 12.3 | 20.7 |

**257059** 2008 $FD_{94}$ 10 24.1 24°.22 3°.0/21.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.09 | + 7 9.9 | 2.007 | 2.856 | 12.9 | 20.3 |
| 9 28 | 2 12.21 | + 5 57.9 | 1.937 | 2.857 | 9.7 | 20.1 |
| 10 8 | 2 6.50 | + 4 38.6 | 1.891 | 2.858 | 6.2 | 19.9 |
| 10 18 | 1 59.54 | + 3 17.5 | 1.872 | 2.859 | 3.2 | 19.8 |
| 10 28 | 1 52.15 | + 2 1.6 | 1.881 | 2.861 | 4.1 | 19.8 |
| 11 7 | 1 45.22 | + 0 57.4 | 1.919 | 2.862 | 7.4 | 20.0 |
| 11 17 | 1 39.52 | + 0 9.6 | 1.983 | 2.864 | 10.8 | 20.3 |
| 11 27 | 1 35.65 | − 0 19.2 | 2.070 | 2.865 | 13.8 | 20.5 |

**162739** 2000 $WS$ 10 24.1 275°.33 11°.4/30.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 35.43 | +37 7.8 | 1.908 | 2.608 | 18.6 | 19.2 |
| 9 28 | 2 28.70 | +39 12.9 | 1.808 | 2.592 | 16.6 | 19.0 |
| 10 8 | 2 18.24 | +41 0.8 | 1.727 | 2.576 | 14.4 | 18.9 |
| 10 18 | 2 4.52 | +42 22.1 | 1.669 | 2.560 | 12.4 | 18.7 |
| 10 28 | 1 48.77 | +43 9.1 | 1.636 | 2.543 | 11.4 | 18.6 |
| 11 7 | 1 32.88 | +43 19.6 | 1.628 | 2.527 | 11.8 | 18.6 |
| 11 17 | 1 18.80 | +42 57.9 | 1.645 | 2.510 | 13.6 | 18.7 |
| 11 27 | 1 8.12 | +42 14.3 | 1.685 | 2.493 | 15.9 | 18.8 |

**391939** 2008 $VD_{1}$ 10 24.1 356°.95 5°.6/21.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.21 | − 1 47.7 | 1.447 | 2.303 | 16.6 | 19.3 |
| 9 28 | 2 20.60 | − 1 52.9 | 1.382 | 2.301 | 12.9 | 19.1 |
| 10 8 | 2 12.20 | − 1 54.0 | 1.338 | 2.299 | 8.9 | 18.8 |
| 10 18 | 2 1.83 | − 1 45.5 | 1.318 | 2.298 | 5.8 | 18.7 |
| 10 28 | 1 50.74 | − 1 22.7 | 1.324 | 2.298 | 6.5 | 18.7 |
| 11 7 | 1 40.37 | − 0 43.0 | 1.357 | 2.298 | 10.1 | 18.9 |
| 11 17 | 1 31.92 | + 0 13.8 | 1.414 | 2.298 | 14.1 | 19.2 |
| 11 27 | 1 26.24 | + 1 26.0 | 1.493 | 2.300 | 17.6 | 19.4 |

**161939** 2007 $FT_{38}$ 10 24.1 133°.44 3°.2/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.49 | + 2 20.9 | 2.907 | 3.744 | 9.7 | 21.4 |
| 9 28 | 2 11.87 | + 1 18.6 | 2.846 | 3.758 | 7.3 | 21.3 |
| 10 8 | 2 5.99 | + 0 14.6 | 2.811 | 3.771 | 4.9 | 21.1 |
| 10 18 | 1 59.29 | − 0 46.9 | 2.805 | 3.784 | 3.2 | 21.1 |
| 10 28 | 1 52.36 | − 1 41.5 | 2.829 | 3.796 | 4.0 | 21.1 |
| 11 7 | 1 45.79 | − 2 25.6 | 2.883 | 3.808 | 6.2 | 21.3 |
| 11 17 | 1 40.11 | − 2 56.6 | 2.965 | 3.819 | 8.5 | 21.5 |
| 11 27 | 1 35.75 | − 3 13.5 | 3.072 | 3.830 | 10.6 | 21.6 |

**70425** 1999 $SJ_{26}$ 10 24.1 359°.77 6°.2/21.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.82 | − 1 6.7 | 1.217 | 2.092 | 17.8 | 17.9 |
| 9 28 | 2 16.89 | − 1 28.6 | 1.159 | 2.089 | 13.8 | 17.6 |
| 10 8 | 2 10.01 | − 1 47.6 | 1.121 | 2.087 | 9.6 | 17.4 |
| 10 18 | 2 1.01 | − 1 56.7 | 1.104 | 2.086 | 6.5 | 17.2 |
| 10 28 | 1 51.27 | − 1 49.3 | 1.112 | 2.086 | 7.4 | 17.3 |
| 11 7 | 1 42.31 | − 1 21.3 | 1.144 | 2.088 | 11.2 | 17.5 |
| 11 17 | 1 35.39 | − 0 32.2 | 1.198 | 2.091 | 15.4 | 17.7 |
| 11 27 | 1 31.39 | + 0 36.5 | 1.272 | 2.096 | 19.2 | 18.0 |

**421154** 2013 $RQ_{33}$ 10 24.1 264°.05 5°.0/27.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.48 | +25 21.4 | 1.477 | 2.281 | 18.9 | 20.6 |
| 9 28 | 2 18.23 | +25 31.4 | 1.394 | 2.275 | 15.4 | 20.4 |
| 10 8 | 2 10.98 | +25 18.0 | 1.330 | 2.268 | 11.4 | 20.1 |
| 10 18 | 2 1.45 | +24 39.2 | 1.289 | 2.261 | 7.2 | 19.9 |
| 10 28 | 1 50.95 | +23 37.2 | 1.272 | 2.254 | 5.0 | 19.7 |
| 11 7 | 1 41.01 | +22 19.2 | 1.281 | 2.247 | 7.5 | 19.8 |
| 11 17 | 1 33.01 | +20 55.5 | 1.316 | 2.240 | 11.8 | 20.1 |
| 11 27 | 1 27.95 | +19 37.1 | 1.374 | 2.233 | 15.9 | 20.3 |

**188366** 2004 $BJ_{44}$ 10 24.1 212°.87 4°.4/20.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.09 | + 4 15.0 | 1.599 | 2.455 | 15.3 | 20.4 |
| 9 28 | 2 16.49 | + 3 9.6 | 1.530 | 2.452 | 11.6 | 20.2 |
| 10 8 | 2 9.48 | + 1 58.3 | 1.484 | 2.450 | 7.6 | 19.9 |
| 10 18 | 2 0.76 | + 0 47.9 | 1.462 | 2.447 | 4.6 | 19.8 |
| 10 28 | 1 51.42 | − 0 13.2 | 1.468 | 2.444 | 5.7 | 19.8 |
| 11 7 | 1 42.67 | − 0 58.1 | 1.501 | 2.441 | 9.4 | 20.0 |
| 11 17 | 1 35.54 | − 1 22.0 | 1.558 | 2.437 | 13.3 | 20.3 |
| 11 27 | 1 30.80 | − 1 23.5 | 1.637 | 2.434 | 16.8 | 20.5 |

**114539** 2003 $BB_{22}$ 10 24.1 347°.60 5°.1/22.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.86 | + 1 11.3 | 0.975 | 1.864 | 20.0 | 18.3 |
| 9 28 | 2 17.02 | + 1 19.3 | 0.911 | 1.849 | 15.5 | 18.0 |
| 10 8 | 2 10.60 | + 1 30.0 | 0.864 | 1.836 | 10.4 | 17.7 |
| 10 18 | 2 1.40 | + 1 49.2 | 0.837 | 1.825 | 5.8 | 17.4 |
| 10 28 | 1 50.97 | + 2 23.0 | 0.832 | 1.816 | 6.4 | 17.4 |
| 11 7 | 1 41.25 | + 3 14.9 | 0.849 | 1.809 | 11.4 | 17.6 |
| 11 17 | 1 33.91 | + 4 25.3 | 0.887 | 1.804 | 16.8 | 17.9 |
| 11 27 | 1 30.12 | + 5 52.6 | 0.943 | 1.802 | 21.5 | 18.2 |

**299203** 2005 $HY_{2}$ 10 24.1 318°.86 0°.7/24.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.96 | +19 34.3 | 1.591 | 2.424 | 16.5 | 19.9 |
| 9 28 | 2 12.09 | +18 23.9 | 1.503 | 2.410 | 12.8 | 19.7 |
| 10 8 | 2 6.82 | +16 49.8 | 1.435 | 2.396 | 8.5 | 19.4 |
| 10 18 | 1 59.78 | +14 55.4 | 1.393 | 2.382 | 3.6 | 19.0 |
| 10 28 | 1 52.03 | +12 49.1 | 1.377 | 2.369 | 1.8 | 18.9 |
| 11 7 | 1 44.75 | +10 42.2 | 1.390 | 2.357 | 6.9 | 19.2 |
| 11 17 | 1 39.01 | + 8 46.2 | 1.429 | 2.344 | 11.7 | 19.4 |
| 11 27 | 1 35.63 | + 7 10.5 | 1.491 | 2.333 | 15.8 | 19.7 |

**135008** 2001 $JB$ 10 24.1 109°.53 0°.2/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.53 | +11 18.6 | 2.026 | 2.848 | 13.8 | 20.3 |
| 9 28 | 2 19.29 | +11 24.3 | 1.959 | 2.862 | 10.5 | 20.1 |
| 10 8 | 2 10.99 | +11 22.8 | 1.916 | 2.876 | 6.7 | 19.9 |
| 10 18 | 2 1.28 | +11 15.7 | 1.899 | 2.890 | 2.6 | 19.7 |
| 10 28 | 1 51.14 | +11 6.0 | 1.912 | 2.904 | 1.7 | 19.6 |
| 11 7 | 1 41.57 | +10 57.3 | 1.955 | 2.917 | 5.8 | 19.9 |
| 11 17 | 1 33.47 | +10 52.9 | 2.026 | 2.929 | 9.5 | 20.2 |
| 11 27 | 1 27.48 | +10 56.1 | 2.122 | 2.942 | 12.6 | 20.4 |

**365352** 2009 $ST_{282}$ 10 24.1 112°.64 3°.3/20.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.83 | + 4 46.8 | 2.267 | 3.114 | 11.7 | 20.7 |
| 9 28 | 2 11.81 | + 3 36.7 | 2.197 | 3.116 | 8.8 | 20.5 |
| 10 8 | 2 6.16 | + 2 21.9 | 2.153 | 3.118 | 5.7 | 20.3 |
| 10 18 | 1 59.42 | + 1 7.7 | 2.136 | 3.120 | 3.5 | 20.2 |
| 10 28 | 1 52.30 | + 0 0.0 | 2.148 | 3.122 | 4.4 | 20.2 |
| 11 7 | 1 45.59 | − 0 55.6 | 2.188 | 3.123 | 7.2 | 20.4 |
| 11 17 | 1 39.97 | − 1 35.6 | 2.256 | 3.125 | 10.2 | 20.6 |
| 11 27 | 1 35.97 | − 1 57.8 | 2.346 | 3.127 | 12.8 | 20.8 |

**111038** 2001 $VR_{22}$ 10 24.1 39°.34 1°.1/23.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.51 | +10 32.0 | 1.839 | 2.680 | 14.2 | 19.5 |
| 9 28 | 2 14.99 | +10 9.2 | 1.771 | 2.685 | 10.8 | 19.3 |
| 10 8 | 2 8.38 | + 9 37.9 | 1.724 | 2.690 | 6.8 | 19.0 |
| 10 18 | 2 0.31 | + 9 1.5 | 1.704 | 2.695 | 2.6 | 18.8 |
| 10 28 | 1 51.75 | + 8 24.8 | 1.711 | 2.701 | 2.4 | 18.8 |
| 11 7 | 1 43.73 | + 7 53.0 | 1.747 | 2.707 | 6.5 | 19.1 |
| 11 17 | 1 37.13 | + 7 30.5 | 1.809 | 2.712 | 10.4 | 19.3 |
| 11 27 | 1 32.62 | + 7 20.8 | 1.894 | 2.718 | 13.7 | 19.5 |

**289407** 2005 $CX_{58}$ 10 24.1 224°.27 3°.8/27.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.24 | +24 14.4 | 2.119 | 2.902 | 14.6 | 21.5 |
| 9 28 | 2 17.16 | +24 24.3 | 2.026 | 2.895 | 11.8 | 21.3 |
| 10 8 | 2 9.86 | +24 17.8 | 1.955 | 2.887 | 8.7 | 21.0 |
| 10 18 | 2 0.95 | +23 54.3 | 1.908 | 2.880 | 5.4 | 20.8 |
| 10 28 | 1 51.33 | +23 15.1 | 1.890 | 2.872 | 3.8 | 20.7 |
| 11 7 | 1 42.09 | +22 24.6 | 1.901 | 2.863 | 5.8 | 20.8 |
| 11 17 | 1 34.19 | +21 29.0 | 1.939 | 2.854 | 9.1 | 21.0 |
| 11 27 | 1 28.42 | +20 35.2 | 2.002 | 2.845 | 12.4 | 21.2 |

**57278** 2001 $QZ_{140}$ 10 24.1 50°.57 5°.1/27.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.58 | +25 17.4 | 1.401 | 2.209 | 19.5 | 18.7 |
| 9 28 | 2 18.12 | +25 34.5 | 1.340 | 2.223 | 15.8 | 18.5 |
| 10 8 | 2 10.73 | +25 27.9 | 1.299 | 2.237 | 11.6 | 18.3 |
| 10 18 | 2 1.29 | +24 56.5 | 1.279 | 2.251 | 7.4 | 18.1 |
| 10 28 | 1 51.18 | +24 3.3 | 1.284 | 2.266 | 5.1 | 18.0 |
| 11 7 | 1 41.93 | +22 55.9 | 1.315 | 2.281 | 7.4 | 18.2 |
| 11 17 | 1 34.77 | +21 44.2 | 1.371 | 2.296 | 11.3 | 18.5 |
| 11 27 | 1 30.53 | +20 38.2 | 1.450 | 2.312 | 15.1 | 18.8 |

**19218** 1993 $FH_{49}$ 10 24.1 335°.05 0°.3/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.72 | +13 13.9 | 1.879 | 2.716 | 14.1 | 18.6 |
| 9 28 | 2 13.71 | +12 46.0 | 1.800 | 2.712 | 10.8 | 18.4 |
| 10 8 | 2 7.62 | +12 6.9 | 1.744 | 2.708 | 6.9 | 18.2 |
| 10 18 | 2 0.06 | +11 19.5 | 1.713 | 2.704 | 2.6 | 17.9 |
| 10 28 | 1 51.92 | +10 28.7 | 1.710 | 2.701 | 1.9 | 17.9 |
| 11 7 | 1 44.23 | + 9 40.5 | 1.735 | 2.698 | 6.2 | 18.1 |
| 11 17 | 1 37.88 | + 9 0.5 | 1.786 | 2.695 | 10.2 | 18.4 |
| 11 27 | 1 33.58 | + 8 33.0 | 1.861 | 2.692 | 13.7 | 18.6 |

**367001** 2006 $AQ_{10}$ 10 24.1 185°.18 7°.8/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.35 | −20 7.8 | 3.167 | 3.970 | 9.8 | 21.6 |
| 9 28 | 2 13.27 | −21 16.3 | 3.119 | 3.970 | 8.6 | 21.6 |
| 10 8 | 2 6.90 | −22 14.2 | 3.095 | 3.969 | 7.9 | 21.5 |
| 10 18 | 1 59.68 | −22 57.0 | 3.097 | 3.968 | 7.9 | 21.5 |
| 10 28 | 1 52.19 | −23 20.8 | 3.125 | 3.966 | 8.6 | 21.6 |
| 11 7 | 1 45.04 | −23 23.9 | 3.178 | 3.964 | 9.7 | 21.6 |
| 11 17 | 1 38.78 | −23 6.4 | 3.253 | 3.961 | 11.0 | 21.7 |
| 11 27 | 1 33.86 | −22 29.8 | 3.348 | 3.958 | 12.2 | 21.8 |

**168346** 1995 $SH_{89}$ 10 24.1 50°.13 0°.2/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.85 | +14 21.1 | 1.476 | 2.321 | 16.9 | 20.2 |
| 9 28 | 2 15.61 | +13 44.6 | 1.421 | 2.336 | 12.8 | 20.0 |
| 10 8 | 2 8.89 | +12 53.7 | 1.386 | 2.351 | 8.2 | 19.7 |
| 10 18 | 2 0.52 | +11 52.6 | 1.376 | 2.367 | 3.1 | 19.5 |
| 10 28 | 1 51.69 | +10 48.3 | 1.392 | 2.383 | 2.1 | 19.4 |
| 11 7 | 1 43.64 | + 9 48.6 | 1.435 | 2.400 | 7.0 | 19.8 |
| 11 17 | 1 37.39 | + 9 0.3 | 1.504 | 2.417 | 11.4 | 20.1 |
| 11 27 | 1 33.61 | + 8 28.2 | 1.595 | 2.434 | 15.2 | 20.4 |

**409350** 2004 $XU_{90}$ 10 24.1 297°.67 2°.3/22.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.29 | + 6 21.9 | 2.183 | 3.025 | 12.3 | 20.6 |
| 9 28 | 2 13.87 | + 5 55.7 | 2.098 | 3.014 | 9.3 | 20.4 |
| 10 8 | 2 7.61 | + 5 24.8 | 2.038 | 3.004 | 5.9 | 20.2 |
| 10 18 | 2 0.04 | + 4 52.7 | 2.004 | 2.993 | 2.8 | 20.0 |
| 10 28 | 1 51.94 | + 4 23.7 | 1.999 | 2.983 | 3.2 | 20.0 |
| 11 7 | 1 44.18 | + 4 2.2 | 2.022 | 2.973 | 6.6 | 20.2 |
| 11 17 | 1 37.56 | + 3 51.4 | 2.073 | 2.962 | 10.0 | 20.4 |
| 11 27 | 1 32.71 | + 3 53.6 | 2.147 | 2.953 | 13.0 | 20.6 |

**164748** 1998 $TC_{22}$ 10 24.1 66°.05 0°.2/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.60 | +14 43.3 | 1.795 | 2.628 | 14.9 | 20.3 |
| 9 28 | 2 15.17 | +14 16.6 | 1.724 | 2.632 | 11.4 | 20.1 |
| 10 8 | 2 8.55 | +13 37.2 | 1.674 | 2.637 | 7.4 | 19.9 |
| 10 18 | 2 0.41 | +12 48.1 | 1.651 | 2.641 | 2.9 | 19.6 |
| 10 28 | 1 51.74 | +11 54.2 | 1.654 | 2.646 | 1.7 | 19.5 |
| 11 7 | 1 43.63 | +11 1.8 | 1.686 | 2.651 | 6.2 | 19.8 |
| 11 17 | 1 36.99 | +10 16.9 | 1.745 | 2.656 | 10.3 | 20.1 |
| 11 27 | 1 32.54 | + 9 44.4 | 1.827 | 2.660 | 13.8 | 20.3 |

**38338** 1999 $RA_{137}$ 10 24.1 43°.89 1°.8/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.31 | +11 22.2 | 1.272 | 2.132 | 18.2 | 18.1 |
| 9 28 | 2 16.06 | +10 29.5 | 1.232 | 2.157 | 13.6 | 17.9 |
| 10 8 | 2 9.16 | + 9 24.8 | 1.213 | 2.183 | 8.5 | 17.7 |
| 10 18 | 2 0.60 | + 8 14.4 | 1.218 | 2.210 | 3.3 | 17.5 |
| 10 28 | 1 51.72 | + 7 7.3 | 1.248 | 2.237 | 3.3 | 17.6 |
| 11 7 | 1 43.84 | + 6 11.5 | 1.304 | 2.264 | 8.1 | 17.9 |
| 11 17 | 1 37.97 | + 5 33.1 | 1.384 | 2.292 | 12.6 | 18.3 |
| 11 27 | 1 34.76 | + 5 15.0 | 1.485 | 2.320 | 16.3 | 18.6 |

**317538** 2002 $TS_{350}$ 10 24.1 246°.15 2°.3/21.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.17 | + 7 56.6 | 2.575 | 3.413 | 10.7 | 21.0 |
| 9 28 | 2 11.22 | + 6 44.3 | 2.489 | 3.404 | 8.1 | 20.8 |
| 10 8 | 2 5.78 | + 5 24.7 | 2.429 | 3.395 | 5.1 | 20.6 |
| 10 18 | 1 59.31 | + 4 2.3 | 2.397 | 3.385 | 2.6 | 20.4 |
| 10 28 | 1 52.44 | + 2 42.6 | 2.396 | 3.376 | 3.3 | 20.5 |
| 11 7 | 1 45.88 | + 1 31.1 | 2.424 | 3.366 | 6.2 | 20.6 |
| 11 17 | 1 40.25 | + 0 32.4 | 2.481 | 3.356 | 9.1 | 20.8 |
| 11 27 | 1 36.08 | − 0 10.6 | 2.562 | 3.346 | 11.7 | 21.0 |

**220139** 2002 $TW_{119}$ 10 24.1 16°.13 5°.5/27.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.32 | +24 12.8 | 1.245 | 2.069 | 20.6 | 19.9 |
| 9 28 | 2 17.66 | +24 44.9 | 1.179 | 2.071 | 16.8 | 19.6 |
| 10 8 | 2 10.73 | +24 53.3 | 1.132 | 2.075 | 12.3 | 19.4 |
| 10 18 | 2 1.40 | +24 35.8 | 1.105 | 2.079 | 7.9 | 19.2 |
| 10 28 | 1 51.13 | +23 54.1 | 1.102 | 2.084 | 5.5 | 19.1 |
| 11 7 | 1 41.64 | +22 55.8 | 1.123 | 2.090 | 8.1 | 19.2 |
| 11 17 | 1 34.38 | +21 51.2 | 1.168 | 2.097 | 12.4 | 19.5 |
| 11 27 | 1 30.35 | +20 51.2 | 1.234 | 2.104 | 16.6 | 19.8 |

**21405** Sagarmehta 10 24.1 172°.19 0°.5/24.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.36 | +15 47.0 | 1.682 | 2.509 | 16.0 | 19.9 |
| 9 28 | 2 18.22 | +15 21.1 | 1.607 | 2.511 | 12.3 | 19.7 |
| 10 8 | 2 10.61 | +14 40.4 | 1.553 | 2.513 | 8.0 | 19.4 |
| 10 18 | 2 1.25 | +13 47.6 | 1.525 | 2.515 | 3.3 | 19.1 |
| 10 28 | 1 51.24 | +12 47.8 | 1.524 | 2.516 | 1.8 | 19.0 |
| 11 7 | 1 41.83 | +11 48.2 | 1.552 | 2.516 | 6.6 | 19.4 |
| 11 17 | 1 34.09 | +10 55.9 | 1.606 | 2.517 | 11.0 | 19.6 |
| 11 27 | 1 28.79 | +10 16.5 | 1.684 | 2.516 | 14.8 | 19.9 |

**152038** 2004 $OW_{12}$ 10 24.1 97°.40 1°.3/23.2 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.89 | +11 10.3 | 1.687 | 2.525 | 15.4 | 20.6 |
| 9 28 | 2 17.58 | +10 32.8 | 1.629 | 2.543 | 11.6 | 20.4 |
| 10 8 | 2 10.01 | + 9 45.2 | 1.594 | 2.559 | 7.3 | 20.2 |
| 10 18 | 2 0.94 | + 8 52.0 | 1.584 | 2.576 | 2.8 | 19.9 |
| 10 28 | 1 51.47 | + 7 59.0 | 1.603 | 2.592 | 2.6 | 20.0 |
| 11 7 | 1 42.73 | + 7 12.7 | 1.649 | 2.608 | 7.0 | 20.3 |
| 11 17 | 1 35.64 | + 6 38.2 | 1.722 | 2.623 | 11.0 | 20.6 |
| 11 27 | 1 30.88 | + 6 19.0 | 1.818 | 2.639 | 14.4 | 20.8 |

**227668** 2006 $BE_{227}$ 10 24.1 249°.09 0°.2/24.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.89 | +14 18.2 | 2.621 | 3.436 | 11.2 | 21.5 |
| 9 28 | 2 13.35 | +13 56.4 | 2.523 | 3.422 | 8.6 | 21.3 |
| 10 8 | 2 7.19 | +13 25.6 | 2.449 | 3.408 | 5.6 | 21.1 |
| 10 18 | 1 59.88 | +12 47.6 | 2.403 | 3.394 | 2.2 | 20.8 |
| 10 28 | 1 52.08 | +12 5.5 | 2.387 | 3.379 | 1.3 | 20.7 |
| 11 7 | 1 44.53 | +11 23.4 | 2.401 | 3.363 | 4.8 | 20.9 |
| 11 17 | 1 37.93 | +10 45.4 | 2.444 | 3.348 | 8.0 | 21.1 |
| 11 27 | 1 32.86 | +10 15.3 | 2.512 | 3.332 | 10.9 | 21.3 |

**315378** 2007 $VC_{54}$ 10 24.2 112°.20 9°.2/18.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 28.67 | −15 3.7 | 1.965 | 2.785 | 14.2 | 20.0 |
| 9 28 | 2 21.61 | −15 37.3 | 1.913 | 2.793 | 11.9 | 19.9 |
| 10 8 | 2 12.40 | −15 57.5 | 1.884 | 2.800 | 10.0 | 19.8 |
| 10 18 | 2 1.83 | −15 58.1 | 1.881 | 2.807 | 9.2 | 19.7 |
| 10 28 | 1 50.93 | −15 34.6 | 1.904 | 2.814 | 9.9 | 19.8 |
| 11 7 | 1 40.79 | −14 46.1 | 1.953 | 2.821 | 11.7 | 19.9 |
| 11 17 | 1 32.29 | −13 34.6 | 2.027 | 2.827 | 13.9 | 20.1 |
| 11 27 | 1 26.04 | −12 4.1 | 2.123 | 2.834 | 16.0 | 20.3 |

**159112** 2004 $VQ_{16}$ 10 24.2 297°.65 4°.8/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.61 | − 0 28.2 | 2.188 | 3.039 | 11.9 | 20.1 |
| 9 28 | 2 12.51 | − 1 30.8 | 2.117 | 3.034 | 9.1 | 20.0 |
| 10 8 | 2 6.68 | − 2 34.1 | 2.070 | 3.029 | 6.4 | 19.8 |
| 10 18 | 1 59.68 | − 3 32.5 | 2.051 | 3.024 | 4.8 | 19.7 |
| 10 28 | 1 52.23 | − 4 20.1 | 2.059 | 3.020 | 5.8 | 19.7 |
| 11 7 | 1 45.18 | − 4 52.3 | 2.095 | 3.015 | 8.4 | 19.9 |
| 11 17 | 1 39.25 | − 5 6.3 | 2.156 | 3.010 | 11.2 | 20.1 |
| 11 27 | 1 35.02 | − 5 1.4 | 2.240 | 3.006 | 13.8 | 20.2 |

**27163** 1999 $AA_{7}$ 10 24.2 9°.13 0°.4/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.16 | +15 8.8 | 1.031 | 1.904 | 20.4 | 17.3 |
| 9 28 | 2 13.09 | +14 50.6 | 0.976 | 1.906 | 15.7 | 17.0 |
| 10 8 | 2 7.83 | +14 12.9 | 0.939 | 1.910 | 10.2 | 16.7 |
| 10 18 | 2 0.26 | +13 19.8 | 0.923 | 1.915 | 4.1 | 16.4 |
| 10 28 | 1 51.89 | +12 19.1 | 0.929 | 1.921 | 2.3 | 16.3 |
| 11 7 | 1 44.39 | +11 21.4 | 0.959 | 1.930 | 8.4 | 16.7 |
| 11 17 | 1 39.12 | +10 35.8 | 1.010 | 1.940 | 13.8 | 17.1 |
| 11 27 | 1 36.96 | +10 9.2 | 1.081 | 1.951 | 18.5 | 17.4 |

**300393** 2007 $RS_{222}$ 10 24.2 99°.83 1°.5/25.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.76 | +17 55.9 | 1.981 | 2.790 | 14.6 | 20.9 |
| 9 28 | 2 18.00 | +17 46.5 | 1.919 | 2.811 | 11.3 | 20.8 |
| 10 8 | 2 10.18 | +17 23.8 | 1.880 | 2.833 | 7.5 | 20.6 |
| 10 18 | 2 1.00 | +16 49.6 | 1.867 | 2.854 | 3.5 | 20.4 |
| 10 28 | 1 51.46 | +16 7.3 | 1.883 | 2.874 | 1.9 | 20.3 |
| 11 7 | 1 42.57 | +15 22.4 | 1.928 | 2.894 | 5.4 | 20.6 |
| 11 17 | 1 35.19 | +14 40.3 | 2.002 | 2.913 | 9.1 | 20.8 |
| 11 27 | 1 29.94 | +14 5.9 | 2.100 | 2.932 | 12.3 | 21.1 |

**160154** 2001 $QD_{103}$ 10 24.2 52°.83 1°.9/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.60 | + 9 54.3 | 1.277 | 2.136 | 18.2 | 20.2 |
| 9 28 | 2 17.90 | + 9 18.9 | 1.231 | 2.155 | 13.7 | 20.0 |
| 10 8 | 2 10.42 | + 8 33.0 | 1.205 | 2.175 | 8.6 | 19.8 |
| 10 18 | 2 1.14 | + 7 42.3 | 1.203 | 2.194 | 3.4 | 19.5 |
| 10 28 | 1 51.41 | + 6 54.3 | 1.226 | 2.215 | 3.4 | 19.6 |
| 11 7 | 1 42.66 | + 6 16.4 | 1.275 | 2.235 | 8.3 | 20.0 |
| 11 17 | 1 35.99 | + 5 53.9 | 1.348 | 2.256 | 12.9 | 20.3 |
| 11 27 | 1 32.10 | + 5 49.5 | 1.442 | 2.277 | 16.7 | 20.6 |

**469582** 2003 $YA_{118}$ 10 24.2 289°.18 17°.3/ 8.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.69 | −28 32.2 | 1.500 | 2.303 | 18.7 | 20.7 |
| 9 28 | 2 21.37 | −30 24.8 | 1.449 | 2.281 | 17.7 | 20.5 |
| 10 8 | 2 12.94 | −31 52.4 | 1.415 | 2.258 | 17.3 | 20.4 |
| 10 18 | 2 2.23 | −32 41.9 | 1.400 | 2.235 | 17.7 | 20.4 |
| 10 28 | 1 50.65 | −32 43.5 | 1.403 | 2.212 | 18.9 | 20.4 |
| 11 7 | 1 39.81 | −31 54.4 | 1.424 | 2.189 | 20.6 | 20.5 |
| 11 17 | 1 31.06 | −30 18.3 | 1.461 | 2.165 | 22.5 | 20.6 |
| 11 27 | 1 25.35 | −28 3.0 | 1.512 | 2.142 | 24.3 | 20.7 |

**109642** 2001 $RA_{1}$ 10 24.2 14°.28 0°.3/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.29 | +14 20.6 | 1.063 | 1.933 | 20.2 | 19.3 |
| 9 28 | 2 14.61 | +14 9.5 | 1.010 | 1.938 | 15.5 | 19.0 |
| 10 8 | 2 8.74 | +13 41.1 | 0.975 | 1.944 | 10.0 | 18.7 |
| 10 18 | 2 0.60 | +12 59.0 | 0.960 | 1.952 | 4.0 | 18.4 |
| 10 28 | 1 51.71 | +12 10.4 | 0.969 | 1.961 | 2.3 | 18.4 |
| 11 7 | 1 43.72 | +11 24.6 | 1.002 | 1.972 | 8.3 | 18.8 |
| 11 17 | 1 37.97 | +10 49.6 | 1.056 | 1.984 | 13.6 | 19.1 |
| 11 27 | 1 35.33 | +10 31.6 | 1.131 | 1.997 | 18.1 | 19.4 |

**49496** 1999 $CC_{2}$ 10 24.2 263°.87 1°.5/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.09 | + 9 12.2 | 1.976 | 2.815 | 13.5 | 18.5 |
| 9 28 | 2 15.40 | + 8 48.3 | 1.897 | 2.810 | 10.2 | 18.3 |
| 10 8 | 2 8.67 | + 8 17.2 | 1.841 | 2.806 | 6.5 | 18.1 |
| 10 18 | 2 0.49 | + 7 42.1 | 1.811 | 2.802 | 2.6 | 17.8 |
| 10 28 | 1 51.75 | + 7 7.7 | 1.809 | 2.798 | 2.6 | 17.8 |
| 11 7 | 1 43.44 | + 6 38.8 | 1.837 | 2.793 | 6.5 | 18.0 |
| 11 17 | 1 36.44 | + 6 19.6 | 1.891 | 2.789 | 10.3 | 18.3 |
| 11 27 | 1 31.44 | + 6 13.1 | 1.968 | 2.785 | 13.6 | 18.5 |

**151415** 2002 $ES_{140}$ 10 24.2 90°.87 4°.6/19.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.34 | + 0 24.9 | 2.150 | 3.000 | 12.1 | 20.1 |
| 9 28 | 2 12.99 | − 0 42.5 | 2.091 | 3.008 | 9.2 | 19.9 |
| 10 8 | 2 6.93 | − 1 50.7 | 2.056 | 3.016 | 6.4 | 19.8 |
| 10 18 | 1 59.76 | − 2 53.9 | 2.048 | 3.024 | 4.7 | 19.7 |
| 10 28 | 1 52.24 | − 3 46.2 | 2.069 | 3.032 | 5.6 | 19.7 |
| 11 7 | 1 45.19 | − 4 23.0 | 2.117 | 3.039 | 8.2 | 19.9 |
| 11 17 | 1 39.32 | − 4 41.7 | 2.191 | 3.047 | 11.0 | 20.1 |
| 11 27 | 1 35.18 | − 4 41.6 | 2.288 | 3.054 | 13.5 | 20.3 |

**54603** 2000 $RF_{16}$ 10 24.2 160°.23 4°.6/28.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.95 | +27 40.5 | 2.297 | 3.060 | 14.2 | 18.6 |
| 9 28 | 2 15.99 | +27 51.6 | 2.212 | 3.063 | 11.7 | 18.5 |
| 10 8 | 2 9.02 | +27 45.5 | 2.148 | 3.065 | 8.8 | 18.3 |
| 10 18 | 2 0.62 | +27 21.2 | 2.108 | 3.068 | 6.1 | 18.1 |
| 10 28 | 1 51.67 | +26 40.1 | 2.097 | 3.070 | 4.6 | 18.0 |
| 11 7 | 1 43.15 | +25 46.2 | 2.114 | 3.072 | 5.7 | 18.1 |
| 11 17 | 1 35.92 | +24 45.4 | 2.159 | 3.073 | 8.4 | 18.3 |
| 11 27 | 1 30.67 | +23 44.4 | 2.231 | 3.075 | 11.2 | 18.5 |

**107641** 2001 $ER_{16}$ 10 24.2 218°.69 2°.9/27.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.95 | +22 34.1 | 2.574 | 3.356 | 12.3 | 19.8 |
| 9 28 | 2 15.00 | +22 42.3 | 2.481 | 3.351 | 9.9 | 19.6 |
| 10 8 | 2 8.30 | +22 38.0 | 2.411 | 3.346 | 7.1 | 19.5 |
| 10 18 | 2 0.34 | +22 20.9 | 2.367 | 3.341 | 4.3 | 19.3 |
| 10 28 | 1 51.85 | +21 52.5 | 2.352 | 3.335 | 2.9 | 19.2 |
| 11 7 | 1 43.66 | +21 16.2 | 2.367 | 3.329 | 4.8 | 19.3 |
| 11 17 | 1 36.54 | +20 36.4 | 2.410 | 3.323 | 7.7 | 19.5 |
| 11 27 | 1 31.10 | +19 58.1 | 2.480 | 3.317 | 10.4 | 19.6 |

**192170** 2007 $DV_{82}$ 10 24.2 153°.62 0°.8/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.89 | +16 35.7 | 1.995 | 2.809 | 14.3 | 21.3 |
| 9 28 | 2 17.46 | +16 13.2 | 1.920 | 2.817 | 11.0 | 21.1 |
| 10 8 | 2 9.93 | +15 37.6 | 1.867 | 2.824 | 7.2 | 20.8 |
| 10 18 | 2 0.96 | +14 51.1 | 1.841 | 2.830 | 3.1 | 20.6 |
| 10 28 | 1 51.49 | +13 57.9 | 1.844 | 2.836 | 1.6 | 20.5 |
| 11 7 | 1 42.56 | +13 3.6 | 1.877 | 2.841 | 5.7 | 20.8 |
| 11 17 | 1 35.06 | +12 14.3 | 1.937 | 2.846 | 9.5 | 21.0 |
| 11 27 | 1 29.67 | +11 35.0 | 2.022 | 2.850 | 12.8 | 21.3 |

**66409** 1999 $MK_{1}$ 10 24.2 53°.12 9°.6/ 1.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.77 | +36 15.2 | 1.619 | 2.358 | 20.1 | 18.3 |
| 9 28 | 2 19.97 | +37 13.4 | 1.553 | 2.370 | 17.4 | 18.1 |
| 10 8 | 2 12.07 | +37 44.1 | 1.503 | 2.382 | 14.4 | 18.0 |
| 10 18 | 2 1.90 | +37 42.2 | 1.474 | 2.395 | 11.6 | 17.8 |
| 10 28 | 1 50.89 | +37 6.5 | 1.468 | 2.408 | 9.8 | 17.8 |
| 11 7 | 1 40.64 | +36 1.7 | 1.486 | 2.421 | 9.9 | 17.8 |
| 11 17 | 1 32.53 | +34 37.0 | 1.529 | 2.434 | 11.8 | 18.0 |
| 11 27 | 1 27.49 | +33 4.6 | 1.595 | 2.447 | 14.4 | 18.2 |

**445982** 2013 $BV_{46}$ 10 24.2 120°.39 6°.3/18.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.05 | − 5 25.8 | 2.070 | 2.914 | 12.7 | 21.3 |
| 9 28 | 2 15.81 | − 6 23.7 | 2.015 | 2.924 | 10.0 | 21.1 |
| 10 8 | 2 8.73 | − 7 17.4 | 1.985 | 2.933 | 7.5 | 21.0 |
| 10 18 | 2 0.45 | − 8 0.6 | 1.981 | 2.941 | 6.3 | 20.9 |
| 10 28 | 1 51.83 | − 8 28.0 | 2.005 | 2.950 | 7.3 | 21.0 |
| 11 7 | 1 43.77 | − 8 36.0 | 2.056 | 2.958 | 9.5 | 21.1 |
| 11 17 | 1 37.02 | − 8 23.8 | 2.132 | 2.966 | 12.1 | 21.3 |
| 11 27 | 1 32.17 | − 7 52.3 | 2.229 | 2.974 | 14.4 | 21.5 |

**383482** 2007 $BN_{14}$ 10 24.2 259°.32 0°.5/24.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.60 | +15 8.9 | 3.290 | 4.099 | 9.3 | 22.0 |
| 9 28 | 2 10.53 | +14 54.2 | 3.196 | 4.091 | 7.1 | 21.8 |
| 10 8 | 2 5.24 | +14 32.3 | 3.127 | 4.083 | 4.7 | 21.6 |
| 10 18 | 1 59.11 | +14 4.5 | 3.086 | 4.075 | 2.0 | 21.4 |
| 10 28 | 1 52.64 | +13 33.2 | 3.075 | 4.067 | 1.0 | 21.3 |
| 11 7 | 1 46.38 | +13 1.1 | 3.095 | 4.058 | 3.7 | 21.5 |
| 11 17 | 1 40.86 | +12 31.3 | 3.144 | 4.050 | 6.4 | 21.7 |
| 11 27 | 1 36.51 | +12 6.6 | 3.220 | 4.042 | 8.7 | 21.9 |

**233585** 2007 $RJ_{18}$ 10 24.2 95°.81 2°.3/26.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.54 | +19 22.8 | 1.885 | 2.690 | 15.3 | 20.3 |
| 9 28 | 2 18.78 | +19 29.2 | 1.821 | 2.709 | 12.0 | 20.1 |
| 10 8 | 2 10.79 | +19 21.2 | 1.778 | 2.727 | 8.2 | 19.9 |
| 10 18 | 2 1.29 | +18 59.5 | 1.762 | 2.745 | 4.3 | 19.7 |
| 10 28 | 1 51.32 | +18 26.9 | 1.773 | 2.762 | 2.5 | 19.6 |
| 11 7 | 1 42.02 | +17 48.7 | 1.813 | 2.779 | 5.7 | 19.9 |
| 11 17 | 1 34.32 | +17 10.4 | 1.881 | 2.796 | 9.4 | 20.1 |
| 11 27 | 1 28.89 | +16 37.8 | 1.974 | 2.812 | 12.7 | 20.4 |

**119235** 2001 $QP_{261}$ 10 24.2 52°.77 3°.9/27.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.02 | +22 49.6 | 1.446 | 2.263 | 18.6 | 19.3 |
| 9 28 | 2 17.64 | +22 54.7 | 1.381 | 2.272 | 14.9 | 19.1 |
| 10 8 | 2 10.43 | +22 38.3 | 1.335 | 2.281 | 10.6 | 18.9 |
| 10 18 | 2 1.23 | +22 0.4 | 1.312 | 2.291 | 6.2 | 18.7 |
| 10 28 | 1 51.35 | +21 4.7 | 1.315 | 2.301 | 3.9 | 18.6 |
| 11 7 | 1 42.23 | +19 58.7 | 1.343 | 2.311 | 6.9 | 18.8 |
| 11 17 | 1 35.09 | +18 51.7 | 1.397 | 2.322 | 11.2 | 19.0 |
| 11 27 | 1 30.74 | +17 52.6 | 1.474 | 2.332 | 15.1 | 19.3 |

**409769** 2006 $DE_{161}$ 10 24.2 260°.77 3°.0/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.97 | + 5 17.1 | 2.332 | 3.177 | 11.5 | 20.9 |
| 9 28 | 2 11.96 | + 4 17.4 | 2.255 | 3.172 | 8.6 | 20.7 |
| 10 8 | 2 6.31 | + 3 12.8 | 2.202 | 3.168 | 5.6 | 20.5 |
| 10 18 | 1 59.55 | + 2 8.0 | 2.178 | 3.163 | 3.2 | 20.3 |
| 10 28 | 1 52.38 | + 1 8.3 | 2.182 | 3.159 | 4.0 | 20.4 |
| 11 7 | 1 45.56 | + 0 18.9 | 2.215 | 3.154 | 6.9 | 20.5 |
| 11 17 | 1 39.79 | − 0 16.4 | 2.275 | 3.149 | 9.9 | 20.7 |
| 11 27 | 1 35.62 | − 0 35.5 | 2.358 | 3.145 | 12.6 | 20.9 |

**442894** 2013 $BL_{72}$ 10 24.2 330°.67 7°.7/17.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 16.29 | − 3 33.7 | 1.633 | 2.500 | 14.5 | 20.7 |
| 9 28 | 2 12.82 | − 5 19.6 | 1.572 | 2.493 | 11.4 | 20.5 |
| 10 8 | 2 7.15 | − 7 5.0 | 1.534 | 2.487 | 8.7 | 20.3 |
| 10 18 | 1 59.93 | − 8 40.1 | 1.520 | 2.482 | 7.7 | 20.2 |
| 10 28 | 1 52.15 | − 9 55.2 | 1.533 | 2.476 | 9.2 | 20.3 |
| 11 7 | 1 44.89 | −10 43.2 | 1.571 | 2.472 | 12.0 | 20.5 |
| 11 17 | 1 39.10 | −11 1.5 | 1.631 | 2.467 | 15.1 | 20.7 |
| 11 27 | 1 35.48 | −10 50.8 | 1.709 | 2.463 | 17.9 | 20.9 |

**13689** Succi 10 24.2 119°.18 4°.1/19.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.75 | + 0 31.3 | 2.396 | 3.243 | 11.1 | 18.8 |
| 9 28 | 2 12.41 | − 0 27.5 | 2.332 | 3.247 | 8.5 | 18.7 |
| 10 8 | 2 6.53 | − 1 27.1 | 2.292 | 3.252 | 5.8 | 18.5 |
| 10 18 | 1 59.61 | − 2 22.6 | 2.280 | 3.257 | 4.2 | 18.4 |
| 10 28 | 1 52.36 | − 3 8.8 | 2.297 | 3.261 | 5.1 | 18.5 |
| 11 7 | 1 45.52 | − 3 41.7 | 2.342 | 3.265 | 7.5 | 18.7 |
| 11 17 | 1 39.72 | − 3 58.8 | 2.414 | 3.270 | 10.1 | 18.8 |
| 11 27 | 1 35.48 | − 3 59.2 | 2.508 | 3.274 | 12.5 | 19.0 |

**222899** 2002 $GU_{169}$ 10 24.2 183°.93 0°.9/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.38 | +16 19.5 | 2.724 | 3.528 | 11.2 | 21.4 |
| 9 28 | 2 14.35 | +16 9.4 | 2.637 | 3.528 | 8.6 | 21.2 |
| 10 8 | 2 7.77 | +15 50.1 | 2.575 | 3.528 | 5.7 | 21.0 |
| 10 18 | 2 0.11 | +15 22.9 | 2.540 | 3.527 | 2.5 | 20.8 |
| 10 28 | 1 52.04 | +14 50.3 | 2.535 | 3.526 | 1.3 | 20.7 |
| 11 7 | 1 44.29 | +14 15.9 | 2.561 | 3.525 | 4.4 | 21.0 |
| 11 17 | 1 37.52 | +13 43.4 | 2.616 | 3.523 | 7.4 | 21.2 |
| 11 27 | 1 32.27 | +13 16.5 | 2.697 | 3.521 | 10.1 | 21.3 |

**296246** 2009 $DN_{13}$ 10 24.2 43°.74 1°.3/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.16 | +11 32.9 | 1.824 | 2.665 | 14.3 | 20.9 |
| 9 28 | 2 14.03 | +10 43.5 | 1.752 | 2.667 | 10.8 | 20.7 |
| 10 8 | 2 7.82 | + 9 43.0 | 1.703 | 2.669 | 6.8 | 20.5 |
| 10 18 | 2 0.17 | + 8 36.0 | 1.679 | 2.671 | 2.6 | 20.2 |
| 10 28 | 1 52.01 | + 7 28.7 | 1.684 | 2.673 | 2.6 | 20.2 |
| 11 7 | 1 44.37 | + 6 28.0 | 1.717 | 2.675 | 6.8 | 20.5 |
| 11 17 | 1 38.13 | + 5 39.7 | 1.776 | 2.677 | 10.7 | 20.8 |
| 11 27 | 1 33.96 | + 5 7.7 | 1.859 | 2.679 | 14.1 | 21.0 |

**24794** Kurland 10 24.2 66°.19 4°.5/21.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.88 | − 2 21.4 | 2.159 | 2.995 | 12.6 | 18.2 |
| 9 28 | 2 18.67 | − 2 28.6 | 2.093 | 3.001 | 9.7 | 18.0 |
| 10 8 | 2 10.56 | − 2 32.5 | 2.052 | 3.007 | 6.7 | 17.9 |
| 10 18 | 2 1.18 | − 2 29.4 | 2.037 | 3.013 | 4.6 | 17.7 |
| 10 28 | 1 51.41 | − 2 16.0 | 2.052 | 3.020 | 5.2 | 17.8 |
| 11 7 | 1 42.18 | − 1 50.3 | 2.096 | 3.026 | 7.8 | 18.0 |
| 11 17 | 1 34.27 | − 1 11.5 | 2.168 | 3.033 | 10.7 | 18.2 |
| 11 27 | 1 28.32 | − 0 20.4 | 2.263 | 3.039 | 13.3 | 18.4 |

**457978** 2009 $VE_{107}$ 10 24.2 299°.04 3°.3/27.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.19 | +24 43.6 | 2.285 | 3.070 | 13.6 | 20.6 |
| 9 28 | 2 13.14 | +24 32.4 | 2.194 | 3.064 | 11.0 | 20.4 |
| 10 8 | 2 7.21 | +24 4.5 | 2.124 | 3.058 | 8.0 | 20.2 |
| 10 18 | 1 59.94 | +23 20.2 | 2.080 | 3.053 | 4.9 | 20.0 |
| 10 28 | 1 52.15 | +22 22.0 | 2.064 | 3.047 | 3.3 | 19.9 |
| 11 7 | 1 44.72 | +21 14.8 | 2.077 | 3.042 | 5.2 | 20.0 |
| 11 17 | 1 38.48 | +20 4.7 | 2.118 | 3.036 | 8.3 | 20.2 |
| 11 27 | 1 34.06 | +18 58.4 | 2.184 | 3.031 | 11.3 | 20.4 |

**203006** 1999 $WS_{12}$ 10 24.2 358°.77 1°.4/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.57 | + 9 32.3 | 1.220 | 2.089 | 18.2 | 19.5 |
| 9 28 | 2 15.34 | + 9 29.5 | 1.156 | 2.085 | 13.9 | 19.2 |
| 10 8 | 2 9.16 | + 9 17.4 | 1.111 | 2.082 | 8.9 | 18.9 |
| 10 18 | 2 0.81 | + 8 59.6 | 1.088 | 2.081 | 3.4 | 18.6 |
| 10 28 | 1 51.62 | + 8 41.7 | 1.090 | 2.080 | 3.0 | 18.6 |
| 11 7 | 1 43.11 | + 8 29.9 | 1.116 | 2.082 | 8.4 | 18.9 |
| 11 17 | 1 36.60 | + 8 29.4 | 1.166 | 2.085 | 13.4 | 19.2 |
| 11 27 | 1 33.00 | + 8 43.6 | 1.235 | 2.089 | 17.7 | 19.5 |

**137413** 1999 $TY_{189}$ 10 24.2 40°.24 6°.6/29.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.50 | +28 45.1 | 1.026 | 1.850 | 24.1 | 18.9 |
| 9 28 | 2 17.89 | +28 46.5 | 0.988 | 1.875 | 19.7 | 18.7 |
| 10 8 | 2 10.76 | +28 13.0 | 0.964 | 1.902 | 14.6 | 18.5 |
| 10 18 | 2 1.33 | +27 4.5 | 0.960 | 1.930 | 9.6 | 18.4 |
| 10 28 | 1 51.42 | +25 27.6 | 0.978 | 1.959 | 6.6 | 18.3 |
| 11 7 | 1 42.87 | +23 35.9 | 1.020 | 1.989 | 8.5 | 18.5 |
| 11 17 | 1 37.00 | +21 44.6 | 1.085 | 2.019 | 12.6 | 18.9 |
| 11 27 | 1 34.51 | +20 6.7 | 1.172 | 2.049 | 16.7 | 19.2 |

**431764** 2008 $HU_{27}$ 10 24.2 262°.67 0°.4/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.48 | +16 18.3 | 1.551 | 2.387 | 16.7 | 21.6 |
| 9 28 | 2 16.39 | +15 39.6 | 1.467 | 2.376 | 12.9 | 21.4 |
| 10 8 | 2 9.67 | +14 42.9 | 1.404 | 2.366 | 8.5 | 21.1 |
| 10 18 | 2 1.00 | +13 31.3 | 1.365 | 2.355 | 3.4 | 20.8 |
| 10 28 | 1 51.50 | +12 11.0 | 1.353 | 2.344 | 1.9 | 20.6 |
| 11 7 | 1 42.49 | +10 51.1 | 1.368 | 2.333 | 7.2 | 20.9 |
| 11 17 | 1 35.17 | + 9 40.3 | 1.409 | 2.322 | 12.0 | 21.2 |
| 11 27 | 1 30.41 | + 8 46.0 | 1.472 | 2.311 | 16.2 | 21.4 |

**427544** 2002 $RZ_{235}$ 10 24.2 77.°88 2.°2/25.7 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 26.48 | +19 7.7 | 1.430 | 2.252 | 18.5 | 21.8 |
| 9 28 | 2 20.71 | +19 2.4 | 1.379 | 2.277 | 14.4 | 21.6 |
| 10 8 | 2 12.18 | +18 38.7 | 1.348 | 2.302 | 9.7 | 21.4 |
| 10 18 | 2 1.84 | +17 58.4 | 1.341 | 2.327 | 4.7 | 21.2 |
| 10 28 | 1 51.07 | +17 6.4 | 1.361 | 2.352 | 2.6 | 21.1 |
| 11 7 | 1 41.30 | +16 10.4 | 1.408 | 2.376 | 6.7 | 21.4 |
| 11 17 | 1 33.64 | +15 18.5 | 1.481 | 2.400 | 11.1 | 21.7 |
| 11 27 | 1 28.80 | +14 37.3 | 1.577 | 2.423 | 14.9 | 22.0 |

**523221** 2016 $WY_{45}$ 10 24.2 229.°79 4.°5/28.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.61 | +27 48.9 | 2.127 | 2.896 | 15.0 | 21.7 |
| 9 28 | 2 15.97 | +27 43.1 | 2.032 | 2.888 | 12.4 | 21.5 |
| 10 8 | 2 9.14 | +27 17.5 | 1.958 | 2.880 | 9.3 | 21.3 |
| 10 18 | 2 0.73 | +26 31.1 | 1.909 | 2.872 | 6.2 | 21.1 |
| 10 28 | 1 51.68 | +25 25.9 | 1.887 | 2.863 | 4.5 | 21.0 |
| 11 7 | 1 43.03 | +24 7.3 | 1.893 | 2.855 | 5.9 | 21.0 |
| 11 17 | 1 35.74 | +22 42.5 | 1.928 | 2.845 | 9.0 | 21.2 |
| 11 27 | 1 30.57 | +21 19.9 | 1.989 | 2.836 | 12.2 | 21.4 |

**442479** 2011 $UH_{321}$ 10 24.2 282.°77 6.°1/29.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.87 | +29 23.7 | 1.959 | 2.723 | 16.2 | 20.8 |
| 9 28 | 2 17.22 | +29 54.4 | 1.870 | 2.718 | 13.6 | 20.6 |
| 10 8 | 2 10.10 | +30 5.3 | 1.801 | 2.713 | 10.6 | 20.4 |
| 10 18 | 2 1.15 | +29 53.8 | 1.755 | 2.707 | 7.7 | 20.2 |
| 10 28 | 1 51.40 | +29 20.2 | 1.735 | 2.702 | 6.1 | 20.1 |
| 11 7 | 1 42.06 | +28 28.3 | 1.743 | 2.696 | 7.1 | 20.2 |
| 11 17 | 1 34.23 | +27 24.9 | 1.777 | 2.691 | 9.9 | 20.3 |
| 11 27 | 1 28.78 | +26 18.6 | 1.835 | 2.686 | 12.9 | 20.5 |

**227148** 2005 $PW_{10}$ 10 24.2 343.°79 1.°7/23.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.35 | + 9 32.3 | 1.085 | 1.962 | 19.3 | 19.8 |
| 9 28 | 2 14.87 | + 9 24.1 | 1.015 | 1.949 | 14.8 | 19.5 |
| 10 8 | 2 9.14 | + 9 5.0 | 0.964 | 1.937 | 9.5 | 19.2 |
| 10 18 | 2 0.90 | + 8 39.0 | 0.934 | 1.927 | 3.7 | 18.8 |
| 10 28 | 1 51.56 | + 8 13.1 | 0.928 | 1.918 | 3.4 | 18.8 |
| 11 7 | 1 42.84 | + 7 54.7 | 0.944 | 1.911 | 9.3 | 19.1 |
| 11 17 | 1 36.25 | + 7 50.3 | 0.982 | 1.905 | 14.9 | 19.4 |
| 11 27 | 1 32.89 | + 8 4.2 | 1.039 | 1.900 | 19.7 | 19.7 |

**515171** 2011 $SY_{54}$ 10 24.2 328.°59 2.°0/22.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.91 | + 8 57.5 | 1.728 | 2.577 | 14.6 | 21.5 |
| 9 28 | 2 14.78 | + 8 21.3 | 1.653 | 2.572 | 11.1 | 21.2 |
| 10 8 | 2 8.41 | + 7 36.6 | 1.600 | 2.568 | 7.0 | 21.0 |
| 10 18 | 2 0.45 | + 6 47.6 | 1.573 | 2.564 | 3.0 | 20.7 |
| 10 28 | 1 51.87 | + 6 0.3 | 1.573 | 2.560 | 3.2 | 20.7 |
| 11 7 | 1 43.79 | + 5 20.9 | 1.601 | 2.557 | 7.4 | 21.0 |
| 11 17 | 1 37.16 | + 4 54.4 | 1.654 | 2.553 | 11.5 | 21.2 |
| 11 27 | 1 32.73 | + 4 44.0 | 1.729 | 2.550 | 15.0 | 21.5 |

**398774** 2013 $AD_{96}$ 10 24.2 35.°38 8.°2/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.00 | − 6 28.3 | 1.429 | 2.292 | 16.4 | 19.9 |
| 9 28 | 2 17.16 | − 7 21.6 | 1.388 | 2.305 | 13.0 | 19.7 |
| 10 8 | 2 9.84 | − 8 7.1 | 1.368 | 2.319 | 9.8 | 19.5 |
| 10 18 | 2 0.93 | − 8 36.6 | 1.371 | 2.334 | 8.2 | 19.5 |
| 10 28 | 1 51.64 | − 8 43.6 | 1.399 | 2.349 | 9.2 | 19.6 |
| 11 7 | 1 43.23 | − 8 25.2 | 1.452 | 2.365 | 11.9 | 19.8 |
| 11 17 | 1 36.68 | − 7 42.1 | 1.527 | 2.381 | 15.0 | 20.0 |
| 11 27 | 1 32.63 | − 6 37.4 | 1.622 | 2.398 | 17.8 | 20.3 |

**6074** Bechtereva 10 24.2 34.°23 1.°3/24.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.26 | +16 45.6 | 1.098 | 1.956 | 20.6 | 16.3 |
| 9 28 | 2 16.65 | +16 31.4 | 1.052 | 1.972 | 15.8 | 16.0 |
| 10 8 | 2 9.89 | +15 57.6 | 1.025 | 1.990 | 10.4 | 15.8 |
| 10 18 | 2 1.02 | +15 7.5 | 1.019 | 2.009 | 4.5 | 15.5 |
| 10 28 | 1 51.59 | +14 8.4 | 1.037 | 2.029 | 2.2 | 15.5 |
| 11 7 | 1 43.23 | +13 10.1 | 1.080 | 2.050 | 7.8 | 15.9 |
| 11 17 | 1 37.18 | +12 21.6 | 1.145 | 2.072 | 12.9 | 16.2 |
| 11 27 | 1 34.20 | +11 49.2 | 1.232 | 2.094 | 17.2 | 16.6 |

**396135** 2013 $CJ_{216}$ 10 24.2 83.°43 1.°5/22.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.56 | +10 34.9 | 1.936 | 2.776 | 13.7 | 21.5 |
| 9 28 | 2 14.20 | + 9 51.3 | 1.866 | 2.781 | 10.3 | 21.3 |
| 10 8 | 2 7.87 | + 8 58.4 | 1.819 | 2.785 | 6.5 | 21.1 |
| 10 18 | 2 0.19 | + 8 0.6 | 1.799 | 2.790 | 2.6 | 20.9 |
| 10 28 | 1 52.06 | + 7 3.3 | 1.807 | 2.795 | 2.6 | 20.9 |
| 11 7 | 1 44.43 | + 6 12.6 | 1.843 | 2.799 | 6.5 | 21.2 |
| 11 17 | 1 38.13 | + 5 33.4 | 1.906 | 2.804 | 10.3 | 21.4 |
| 11 27 | 1 33.81 | + 5 9.1 | 1.993 | 2.809 | 13.5 | 21.6 |

**487051** 2014 $OR_{56}$ 10 24.2 258.°07 5.°9/18.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.99 | − 4 5.1 | 2.184 | 3.033 | 12.0 | 21.7 |
| 9 28 | 2 13.57 | − 5 9.2 | 2.116 | 3.028 | 9.4 | 21.6 |
| 10 8 | 2 7.40 | − 6 11.2 | 2.071 | 3.022 | 7.0 | 21.4 |
| 10 18 | 2 0.01 | − 7 5.1 | 2.054 | 3.017 | 5.9 | 21.3 |
| 10 28 | 1 52.18 | − 7 45.0 | 2.064 | 3.011 | 6.9 | 21.4 |
| 11 7 | 1 44.75 | − 8 6.8 | 2.101 | 3.005 | 9.2 | 21.5 |
| 11 17 | 1 38.48 | − 8 8.4 | 2.163 | 3.000 | 11.9 | 21.7 |
| 11 27 | 1 33.94 | − 7 50.0 | 2.246 | 2.994 | 14.3 | 21.8 |

**483667** 2005 $GT_{69}$ 10 24.2 184.°28 0.°6/24.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 16.77 | +15 59.0 | 3.248 | 4.050 | 9.6 | 22.9 |
| 9 28 | 2 12.15 | +15 39.4 | 3.159 | 4.050 | 7.4 | 22.8 |
| 10 8 | 2 6.27 | +15 11.9 | 3.096 | 4.050 | 4.8 | 22.6 |
| 10 18 | 1 59.53 | +14 38.0 | 3.061 | 4.049 | 2.1 | 22.4 |
| 10 28 | 1 52.48 | +14 0.0 | 3.056 | 4.048 | 1.1 | 22.3 |
| 11 7 | 1 45.69 | +13 21.0 | 3.083 | 4.046 | 3.8 | 22.5 |
| 11 17 | 1 39.68 | +12 44.4 | 3.139 | 4.044 | 6.4 | 22.7 |
| 11 27 | 1 34.92 | +12 13.2 | 3.223 | 4.042 | 8.7 | 22.9 |

**357416** 2003 $XF_{10}$ 10 24.2 288.°94 8.°2/18.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.92 | −10 22.3 | 1.972 | 2.801 | 13.9 | 21.0 |
| 9 28 | 2 21.68 | −11 3.1 | 1.873 | 2.766 | 11.5 | 20.8 |
| 10 8 | 2 12.95 | −11 36.5 | 1.797 | 2.730 | 9.3 | 20.6 |
| 10 18 | 2 2.30 | −11 55.0 | 1.747 | 2.694 | 8.2 | 20.4 |
| 10 28 | 1 50.70 | −11 52.1 | 1.725 | 2.657 | 9.2 | 20.4 |
| 11 7 | 1 39.31 | −11 23.7 | 1.729 | 2.619 | 11.8 | 20.5 |
| 11 17 | 1 29.27 | −10 29.1 | 1.759 | 2.581 | 14.8 | 20.6 |
| 11 27 | 1 21.50 | − 9 10.6 | 1.810 | 2.543 | 17.7 | 20.7 |

**383529** 2007 $DG_{41}$ 10 24.2 240.°74 1.°1/25.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.97 | +16 58.1 | 1.803 | 2.624 | 15.3 | 22.0 |
| 9 28 | 2 17.22 | +16 39.1 | 1.713 | 2.614 | 11.9 | 21.8 |
| 10 8 | 2 10.07 | +16 5.3 | 1.646 | 2.603 | 7.9 | 21.5 |
| 10 18 | 2 1.15 | +15 18.2 | 1.603 | 2.592 | 3.5 | 21.2 |
| 10 28 | 1 51.46 | +14 22.1 | 1.589 | 2.581 | 1.8 | 21.1 |
| 11 7 | 1 42.18 | +13 23.3 | 1.603 | 2.569 | 6.3 | 21.4 |
| 11 17 | 1 34.39 | +12 28.9 | 1.644 | 2.557 | 10.6 | 21.6 |
| 11 27 | 1 28.92 | +11 45.2 | 1.709 | 2.544 | 14.5 | 21.8 |

**262548** 2006 $VR_{9}$ 10 24.2 201.°09 0.°7/23.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.29 | +11 46.8 | 1.752 | 2.584 | 15.2 | 21.4 |
| 9 28 | 2 18.90 | +11 26.9 | 1.672 | 2.581 | 11.6 | 21.2 |
| 10 8 | 2 11.09 | +10 56.8 | 1.615 | 2.578 | 7.4 | 20.9 |
| 10 18 | 2 1.52 | +10 19.2 | 1.583 | 2.575 | 2.8 | 20.6 |
| 10 28 | 1 51.26 | + 9 38.9 | 1.580 | 2.571 | 2.2 | 20.6 |
| 11 7 | 1 41.51 | + 9 1.9 | 1.605 | 2.566 | 6.9 | 20.9 |
| 11 17 | 1 33.33 | + 8 33.5 | 1.657 | 2.561 | 11.2 | 21.1 |
| 11 27 | 1 27.54 | + 8 17.9 | 1.732 | 2.555 | 14.9 | 21.4 |

**192250** 2008 $FS_{39}$ 10 24.2 126.°58 1.°3/22.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.23 | + 9 41.0 | 2.451 | 3.279 | 11.5 | 21.4 |
| 9 28 | 2 14.26 | + 9 8.1 | 2.382 | 3.291 | 8.7 | 21.3 |
| 10 8 | 2 7.70 | + 8 28.9 | 2.339 | 3.302 | 5.4 | 21.1 |
| 10 18 | 2 0.10 | + 7 46.6 | 2.323 | 3.314 | 2.2 | 20.9 |
| 10 28 | 1 52.17 | + 7 5.1 | 2.337 | 3.324 | 2.2 | 20.9 |
| 11 7 | 1 44.68 | + 6 28.6 | 2.380 | 3.335 | 5.4 | 21.1 |
| 11 17 | 1 38.28 | + 6 0.5 | 2.452 | 3.345 | 8.5 | 21.4 |
| 11 27 | 1 33.49 | + 5 43.5 | 2.550 | 3.355 | 11.2 | 21.6 |

**284738** 2008 $UZ_{180}$ 10 24.2 79.°24 2.°2/26.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.89 | +20 35.2 | 1.713 | 2.522 | 16.5 | 20.2 |
| 9 28 | 2 18.35 | +20 15.5 | 1.659 | 2.549 | 12.9 | 20.0 |
| 10 8 | 2 10.50 | +19 38.3 | 1.627 | 2.577 | 8.7 | 19.8 |
| 10 18 | 2 1.19 | +18 45.6 | 1.620 | 2.604 | 4.4 | 19.6 |
| 10 28 | 1 51.54 | +17 42.4 | 1.641 | 2.630 | 2.4 | 19.5 |
| 11 7 | 1 42.72 | +16 35.6 | 1.690 | 2.657 | 5.9 | 19.8 |
| 11 17 | 1 35.66 | +15 32.8 | 1.766 | 2.682 | 9.8 | 20.1 |
| 11 27 | 1 30.98 | +14 40.1 | 1.866 | 2.708 | 13.2 | 20.4 |

**426682** 2013 $TF_{21}$ 10 24.2 197.°93 0.°3/24.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.98 | +13 2.8 | 1.547 | 2.381 | 16.8 | 21.1 |
| 9 28 | 2 20.52 | +13 5.6 | 1.471 | 2.380 | 12.9 | 20.9 |
| 10 8 | 2 12.29 | +12 57.3 | 1.417 | 2.379 | 8.4 | 20.6 |
| 10 18 | 2 2.03 | +12 39.8 | 1.387 | 2.377 | 3.3 | 20.3 |
| 10 28 | 1 50.95 | +12 16.6 | 1.384 | 2.376 | 2.0 | 20.2 |
| 11 7 | 1 40.47 | +11 53.4 | 1.409 | 2.374 | 7.1 | 20.5 |
| 11 17 | 1 31.80 | +11 35.6 | 1.460 | 2.372 | 11.8 | 20.8 |
| 11 27 | 1 25.86 | +11 28.3 | 1.534 | 2.369 | 15.8 | 21.1 |

**165939** 2001 $UN_{98}$ 10 24.2 10.°99 1.°9/22.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.86 | + 6 27.7 | 2.212 | 3.052 | 12.2 | 20.0 |
| 9 28 | 2 14.22 | + 6 16.7 | 2.140 | 3.054 | 9.2 | 19.8 |
| 10 8 | 2 7.80 | + 6 2.0 | 2.090 | 3.056 | 5.8 | 19.6 |
| 10 18 | 2 0.18 | + 5 46.5 | 2.068 | 3.058 | 2.6 | 19.4 |
| 10 28 | 1 52.12 | + 5 33.8 | 2.075 | 3.061 | 2.8 | 19.4 |
| 11 7 | 1 44.47 | + 5 27.1 | 2.110 | 3.064 | 6.1 | 19.6 |
| 11 17 | 1 37.98 | + 5 29.2 | 2.173 | 3.067 | 9.4 | 19.8 |
| 11 27 | 1 33.24 | + 5 41.8 | 2.260 | 3.071 | 12.3 | 20.0 |

**244831** 2003 $UX_{42}$ 10 24.2 158.°92 1.°5/22.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.14 | +10 5.5 | 2.374 | 3.209 | 11.6 | 20.8 |
| 9 28 | 2 12.06 | + 9 13.7 | 2.297 | 3.210 | 8.7 | 20.6 |
| 10 8 | 2 6.38 | + 8 14.1 | 2.245 | 3.210 | 5.5 | 20.4 |
| 10 18 | 1 59.61 | + 7 10.4 | 2.220 | 3.211 | 2.3 | 20.2 |
| 10 28 | 1 52.47 | + 6 7.8 | 2.225 | 3.212 | 2.5 | 20.2 |
| 11 7 | 1 45.70 | + 5 11.3 | 2.259 | 3.212 | 5.8 | 20.5 |
| 11 17 | 1 39.98 | + 4 25.3 | 2.321 | 3.213 | 9.0 | 20.7 |
| 11 27 | 1 35.84 | + 3 52.9 | 2.408 | 3.213 | 11.8 | 20.9 |

**298101** 2002 $RC_{119}$ 10 24.2 52°.70 3°.5/26.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 28.07 | +19 4.4 | 1.560 | 2.374 | 17.6 | 19.6 |
| 9 28 | 2 21.92 | +19 52.4 | 1.504 | 2.395 | 13.9 | 19.4 |
| 10 8 | 2 13.02 | +20 25.8 | 1.469 | 2.417 | 9.6 | 19.2 |
| 10 18 | 2 2.24 | +20 43.0 | 1.458 | 2.439 | 5.4 | 19.0 |
| 10 28 | 1 50.88 | +20 45.3 | 1.475 | 2.461 | 3.6 | 18.9 |
| 11 7 | 1 40.35 | +20 36.7 | 1.519 | 2.484 | 6.7 | 19.2 |
| 11 17 | 1 31.82 | +20 23.0 | 1.589 | 2.507 | 10.6 | 19.5 |
| 11 27 | 1 26.08 | +20 10.7 | 1.683 | 2.529 | 14.1 | 19.7 |

**132291** 2002 $FY_{24}$ 10 24.2 172°.64 0°.3/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.99 | +14 32.9 | 1.912 | 2.736 | 14.4 | 20.6 |
| 9 28 | 2 16.94 | +14 15.5 | 1.834 | 2.738 | 11.1 | 20.4 |
| 10 8 | 2 9.71 | +13 46.6 | 1.779 | 2.739 | 7.2 | 20.2 |
| 10 18 | 2 0.96 | +13 8.3 | 1.750 | 2.740 | 2.9 | 19.9 |
| 10 28 | 1 51.64 | +12 24.8 | 1.749 | 2.741 | 1.6 | 19.8 |
| 11 7 | 1 42.80 | +11 41.7 | 1.778 | 2.741 | 6.0 | 20.1 |
| 11 17 | 1 35.40 | +11 4.3 | 1.833 | 2.742 | 10.0 | 20.4 |
| 11 27 | 1 30.15 | +10 37.4 | 1.912 | 2.741 | 13.4 | 20.6 |

**176409** 2001 $UM_{212}$ 10 24.2 42°.40 0°.5/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.24 | +14 10.0 | 1.692 | 2.526 | 15.6 | 20.3 |
| 9 28 | 2 16.51 | +14 8.4 | 1.629 | 2.538 | 11.9 | 20.1 |
| 10 8 | 2 9.47 | +13 55.7 | 1.588 | 2.549 | 7.7 | 19.9 |
| 10 18 | 2 0.86 | +13 33.6 | 1.571 | 2.562 | 3.2 | 19.6 |
| 10 28 | 1 51.73 | +13 6.3 | 1.583 | 2.574 | 1.7 | 19.6 |
| 11 7 | 1 43.24 | +12 38.7 | 1.621 | 2.587 | 6.2 | 19.9 |
| 11 17 | 1 36.35 | +12 16.2 | 1.686 | 2.601 | 10.3 | 20.2 |
| 11 27 | 1 31.79 | +12 2.9 | 1.775 | 2.614 | 13.8 | 20.4 |

**317746** 2003 $SS_{45}$ 10 24.2 42°.76 4°.4/27.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.12 | +23 9.0 | 2.195 | 2.970 | 14.4 | 20.1 |
| 9 28 | 2 20.83 | +24 9.2 | 2.112 | 2.975 | 11.7 | 19.9 |
| 10 8 | 2 12.26 | +24 57.2 | 2.052 | 2.979 | 8.6 | 19.7 |
| 10 18 | 2 1.99 | +25 30.4 | 2.019 | 2.984 | 5.7 | 19.6 |
| 10 28 | 1 50.99 | +25 48.1 | 2.014 | 2.989 | 4.4 | 19.5 |
| 11 7 | 1 40.36 | +25 52.0 | 2.038 | 2.994 | 6.1 | 19.6 |
| 11 17 | 1 31.12 | +25 46.3 | 2.091 | 2.999 | 9.0 | 19.8 |
| 11 27 | 1 24.06 | +25 36.2 | 2.170 | 3.004 | 11.8 | 20.0 |

**99537** 2002 $EE_{97}$ 10 24.2 272°.20 4°.3/21.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.12 | + 5 3.8 | 1.422 | 2.282 | 16.6 | 19.7 |
| 9 28 | 2 17.80 | + 4 9.9 | 1.345 | 2.269 | 12.7 | 19.5 |
| 10 8 | 2 10.68 | + 3 8.3 | 1.288 | 2.256 | 8.3 | 19.2 |
| 10 18 | 2 1.45 | + 2 5.7 | 1.256 | 2.243 | 4.6 | 19.0 |
| 10 28 | 1 51.33 | + 1 10.8 | 1.250 | 2.229 | 5.7 | 19.0 |
| 11 7 | 1 41.72 | + 0 31.6 | 1.269 | 2.216 | 10.0 | 19.2 |
| 11 17 | 1 33.89 | + 0 13.6 | 1.312 | 2.202 | 14.6 | 19.4 |
| 11 27 | 1 28.77 | + 0 19.2 | 1.376 | 2.189 | 18.6 | 19.6 |

**85733** 1998 $ST_{90}$ 10 24.2 150°.90 0°.5/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.58 | +14 43.2 | 1.967 | 2.790 | 14.1 | 20.2 |
| 9 28 | 2 16.57 | +14 30.1 | 1.891 | 2.793 | 10.9 | 20.0 |
| 10 8 | 2 9.45 | +14 5.9 | 1.837 | 2.797 | 7.1 | 19.8 |
| 10 18 | 2 0.87 | +13 32.5 | 1.809 | 2.799 | 2.9 | 19.5 |
| 10 28 | 1 51.74 | +12 53.9 | 1.810 | 2.802 | 1.6 | 19.4 |
| 11 7 | 1 43.10 | +12 15.1 | 1.840 | 2.804 | 5.8 | 19.7 |
| 11 17 | 1 35.85 | +11 41.2 | 1.897 | 2.807 | 9.6 | 20.0 |
| 11 27 | 1 30.69 | +11 16.7 | 1.979 | 2.809 | 13.0 | 20.2 |

**239810** 1997 $EC_{26}$ 10 24.2 303°.62 0°.3/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.28 | +13 20.8 | 1.603 | 2.446 | 15.9 | 20.6 |
| 9 28 | 2 15.47 | +12 58.2 | 1.515 | 2.430 | 12.2 | 20.4 |
| 10 8 | 2 9.12 | +12 22.4 | 1.448 | 2.414 | 7.9 | 20.1 |
| 10 18 | 2 0.85 | +11 36.1 | 1.406 | 2.398 | 3.1 | 19.7 |
| 10 28 | 1 51.71 | +10 44.6 | 1.390 | 2.382 | 2.1 | 19.6 |
| 11 7 | 1 42.96 | + 9 54.9 | 1.401 | 2.366 | 7.2 | 19.9 |
| 11 17 | 1 35.75 | + 9 13.9 | 1.438 | 2.351 | 11.9 | 20.2 |
| 11 27 | 1 30.99 | + 8 47.2 | 1.497 | 2.336 | 16.0 | 20.4 |

**72391** 2001 $CB_{17}$ 10 24.2 343°.18 3°.4/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.77 | + 5 34.9 | 1.503 | 2.363 | 15.8 | 19.0 |
| 9 28 | 2 15.74 | + 4 58.5 | 1.433 | 2.358 | 12.0 | 18.8 |
| 10 8 | 2 9.18 | + 4 16.3 | 1.385 | 2.354 | 7.8 | 18.5 |
| 10 18 | 2 0.82 | + 3 33.7 | 1.361 | 2.350 | 4.0 | 18.3 |
| 10 28 | 1 51.77 | + 2 57.4 | 1.364 | 2.347 | 4.7 | 18.3 |
| 11 7 | 1 43.28 | + 2 33.8 | 1.392 | 2.344 | 8.8 | 18.6 |
| 11 17 | 1 36.46 | + 2 26.9 | 1.445 | 2.341 | 13.0 | 18.8 |
| 11 27 | 1 32.12 | + 2 39.0 | 1.519 | 2.339 | 16.7 | 19.0 |

**175168** 2005 $EQ_{118}$ 10 24.2 215°.50 2°.1/25.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.89 | +20 20.0 | 2.043 | 2.839 | 14.6 | 21.1 |
| 9 28 | 2 19.25 | +20 5.2 | 1.946 | 2.829 | 11.6 | 20.9 |
| 10 8 | 2 11.30 | +19 34.6 | 1.872 | 2.818 | 8.0 | 20.7 |
| 10 18 | 2 1.65 | +18 48.5 | 1.824 | 2.807 | 4.1 | 20.4 |
| 10 28 | 1 51.26 | +17 50.1 | 1.805 | 2.794 | 2.3 | 20.3 |
| 11 7 | 1 41.24 | +16 45.2 | 1.815 | 2.781 | 5.7 | 20.5 |
| 11 17 | 1 32.63 | +15 40.5 | 1.855 | 2.766 | 9.7 | 20.7 |
| 11 27 | 1 26.22 | +14 43.1 | 1.919 | 2.750 | 13.3 | 20.9 |

**124123** 2001 $KE_3$ 10 24.2 109°.29 1°.1/23.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.87 | + 9 15.5 | 2.548 | 3.376 | 11.1 | 20.3 |
| 9 28 | 2 13.95 | + 8 53.3 | 2.480 | 3.388 | 8.4 | 20.1 |
| 10 8 | 2 7.51 | + 8 25.7 | 2.436 | 3.399 | 5.3 | 19.9 |
| 10 18 | 2 0.06 | + 7 55.5 | 2.420 | 3.411 | 2.1 | 19.7 |
| 10 28 | 1 52.29 | + 7 25.9 | 2.434 | 3.422 | 2.1 | 19.7 |
| 11 7 | 1 44.93 | + 7 0.6 | 2.477 | 3.433 | 5.2 | 20.0 |
| 11 17 | 1 38.61 | + 6 42.6 | 2.549 | 3.443 | 8.2 | 20.2 |
| 11 27 | 1 33.84 | + 6 34.2 | 2.647 | 3.454 | 10.8 | 20.4 |

**91139** 1998 $KL_{47}$ 10 24.2 230°.18 7°.2/18.3 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.22 | − 6 32.5 | 1.923 | 2.769 | 13.5 | 18.7 |
| 9 28 | 2 17.04 | − 7 33.9 | 1.856 | 2.763 | 10.8 | 18.5 |
| 10 8 | 2 9.75 | − 8 30.8 | 1.811 | 2.756 | 8.3 | 18.4 |
| 10 18 | 2 1.00 | − 9 16.1 | 1.792 | 2.749 | 7.2 | 18.3 |
| 10 28 | 1 51.71 | − 9 43.4 | 1.801 | 2.742 | 8.2 | 18.3 |
| 11 7 | 1 42.91 | − 9 48.4 | 1.835 | 2.734 | 10.7 | 18.5 |
| 11 17 | 1 35.50 | − 9 30.2 | 1.894 | 2.726 | 13.5 | 18.6 |
| 11 27 | 1 30.17 | − 8 49.7 | 1.974 | 2.718 | 16.1 | 18.8 |

**174353** 2002 $TT_{257}$ 10 24.2 339°.73 2°.4/22.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.24 | + 7 0.7 | 1.576 | 2.431 | 15.5 | 19.4 |
| 9 28 | 2 16.06 | + 6 44.3 | 1.502 | 2.424 | 11.8 | 19.1 |
| 10 8 | 2 9.39 | + 6 21.9 | 1.449 | 2.417 | 7.6 | 18.9 |
| 10 18 | 2 0.93 | + 5 57.6 | 1.420 | 2.411 | 3.3 | 18.6 |
| 10 28 | 1 51.74 | + 5 36.5 | 1.418 | 2.405 | 3.6 | 18.6 |
| 11 7 | 1 43.06 | + 5 24.0 | 1.443 | 2.400 | 7.9 | 18.9 |
| 11 17 | 1 35.97 | + 5 24.0 | 1.493 | 2.396 | 12.2 | 19.1 |
| 11 27 | 1 31.30 | + 5 39.0 | 1.564 | 2.392 | 16.0 | 19.3 |

**219268** 2000 $AY_{195}$ 10 24.2 341°.11 7°.2/31.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.15 | +33 39.3 | 1.906 | 2.658 | 17.0 | 18.9 |
| 9 28 | 2 13.78 | +33 58.4 | 1.817 | 2.649 | 14.6 | 18.7 |
| 10 8 | 2 7.99 | +33 53.4 | 1.745 | 2.641 | 11.8 | 18.5 |
| 10 18 | 2 0.40 | +33 21.6 | 1.696 | 2.634 | 9.1 | 18.4 |
| 10 28 | 1 52.05 | +32 23.2 | 1.671 | 2.627 | 7.3 | 18.2 |
| 11 7 | 1 44.15 | +31 3.1 | 1.672 | 2.621 | 7.8 | 18.3 |
| 11 17 | 1 37.78 | +29 29.2 | 1.699 | 2.616 | 10.1 | 18.4 |
| 11 27 | 1 33.78 | +27 51.6 | 1.751 | 2.611 | 13.0 | 18.6 |

**353013** 2009 $BD_{163}$ 10 24.2 316°.15 4°.5/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.85 | + 3 25.8 | 1.541 | 2.403 | 15.4 | 20.7 |
| 9 28 | 2 15.10 | + 2 37.3 | 1.463 | 2.388 | 11.8 | 20.4 |
| 10 8 | 2 8.85 | + 1 43.7 | 1.406 | 2.373 | 7.8 | 20.2 |
| 10 18 | 2 0.74 | + 0 51.6 | 1.374 | 2.359 | 4.8 | 20.0 |
| 10 28 | 1 51.85 | + 0 8.6 | 1.368 | 2.345 | 5.8 | 20.0 |
| 11 7 | 1 43.41 | − 0 18.7 | 1.388 | 2.332 | 9.6 | 20.2 |
| 11 17 | 1 36.53 | − 0 25.9 | 1.431 | 2.319 | 13.8 | 20.4 |
| 11 27 | 1 32.08 | − 0 11.2 | 1.496 | 2.306 | 17.4 | 20.6 |

**439590** 2014 $DN_{122}$ 10 24.2 146°.49 2°.3/22.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.71 | + 7 59.8 | 1.946 | 2.787 | 13.6 | 21.6 |
| 9 28 | 2 15.82 | + 7 14.3 | 1.877 | 2.792 | 10.2 | 21.4 |
| 10 8 | 2 8.93 | + 6 21.8 | 1.831 | 2.797 | 6.5 | 21.1 |
| 10 18 | 2 0.67 | + 5 26.7 | 1.812 | 2.802 | 2.9 | 20.9 |
| 10 28 | 1 51.95 | + 4 34.8 | 1.822 | 2.806 | 3.4 | 21.0 |
| 11 7 | 1 43.75 | + 3 51.8 | 1.860 | 2.811 | 7.0 | 21.2 |
| 11 17 | 1 36.92 | + 3 21.9 | 1.925 | 2.814 | 10.6 | 21.4 |
| 11 27 | 1 32.09 | + 3 7.8 | 2.013 | 2.818 | 13.8 | 21.7 |

**315859** 2008 $HL_{47}$ 10 24.2 5°.69 6°.5/18.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.27 | − 4 30.0 | 1.914 | 2.769 | 13.2 | 20.4 |
| 9 28 | 2 13.99 | − 5 31.8 | 1.854 | 2.769 | 10.4 | 20.2 |
| 10 8 | 2 7.76 | − 6 30.2 | 1.818 | 2.769 | 7.8 | 20.1 |
| 10 18 | 2 0.21 | − 7 18.8 | 1.807 | 2.770 | 6.5 | 20.0 |
| 10 28 | 1 52.23 | − 7 51.2 | 1.822 | 2.771 | 7.5 | 20.1 |
| 11 7 | 1 44.75 | − 8 3.2 | 1.864 | 2.772 | 10.0 | 20.2 |
| 11 17 | 1 38.59 | − 7 53.5 | 1.930 | 2.774 | 12.8 | 20.4 |
| 11 27 | 1 34.38 | − 7 22.7 | 2.017 | 2.776 | 15.3 | 20.6 |

**35233** Krcin 10 24.2 105°.32 0°.8/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.83 | +12 24.2 | 1.850 | 2.680 | 14.6 | 19.9 |
| 9 28 | 2 17.41 | +11 46.8 | 1.791 | 2.699 | 11.0 | 19.7 |
| 10 8 | 2 9.90 | +10 59.1 | 1.754 | 2.718 | 7.0 | 19.5 |
| 10 18 | 2 1.01 | +10 4.8 | 1.744 | 2.736 | 2.6 | 19.3 |
| 10 28 | 1 51.76 | + 9 9.5 | 1.763 | 2.753 | 2.1 | 19.3 |
| 11 7 | 1 43.18 | + 8 19.3 | 1.811 | 2.770 | 6.3 | 19.6 |
| 11 17 | 1 36.14 | + 7 39.1 | 1.885 | 2.787 | 10.2 | 19.9 |
| 11 27 | 1 31.25 | + 7 12.9 | 1.984 | 2.803 | 13.4 | 20.1 |

**123812** 2001 $BE_{67}$ 10 24.2 220°.72 2°.5/27.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.53 | +23 13.9 | 2.890 | 3.665 | 11.3 | 20.0 |
| 9 28 | 2 13.79 | +23 2.6 | 2.789 | 3.656 | 9.0 | 19.9 |
| 10 8 | 2 7.50 | +22 38.5 | 2.712 | 3.646 | 6.5 | 19.7 |
| 10 18 | 2 0.11 | +22 2.1 | 2.662 | 3.636 | 3.8 | 19.5 |
| 10 28 | 1 52.27 | +21 15.2 | 2.641 | 3.626 | 2.5 | 19.4 |
| 11 7 | 1 44.69 | +20 21.6 | 2.651 | 3.615 | 4.3 | 19.5 |
| 11 17 | 1 38.05 | +19 25.6 | 2.690 | 3.603 | 7.0 | 19.7 |
| 11 27 | 1 32.88 | +18 32.1 | 2.757 | 3.591 | 9.6 | 19.8 |

**483615** 2004 $SP_{41}$ 10 24.2 359°.43 0°.6/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 15.46 | +14 13.5 | 1.865 | 2.704 | 14.2 | 20.5 |
| 9 28 | 2 12.03 | +13 18.3 | 1.790 | 2.703 | 10.8 | 20.3 |
| 10 8 | 2 6.60 | +12 9.5 | 1.737 | 2.702 | 6.8 | 20.1 |
| 10 18 | 1 59.79 | +10 51.3 | 1.710 | 2.702 | 2.6 | 19.8 |
| 10 28 | 1 52.48 | + 9 30.2 | 1.711 | 2.702 | 2.0 | 19.8 |
| 11 7 | 1 45.65 | + 8 13.6 | 1.740 | 2.702 | 6.3 | 20.0 |
| 11 17 | 1 40.13 | + 7 8.1 | 1.796 | 2.703 | 10.3 | 20.3 |
| 11 27 | 1 36.57 | + 6 18.8 | 1.876 | 2.704 | 13.7 | 20.5 |

**125001** 2001 $TG_{154}$ 10 24.2 352°.15 5°.5/20.7 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.02 | + 2 2.0 | 1.321 | 2.191 | 17.0 | 18.9 |
| 9 28 | 2 16.18 | + 1 9.0 | 1.259 | 2.188 | 13.0 | 18.7 |
| 10 8 | 2 9.59 | + 0 12.8 | 1.218 | 2.185 | 8.8 | 18.4 |
| 10 18 | 2 1.02 | − 0 38.7 | 1.200 | 2.183 | 5.7 | 18.2 |
| 10 28 | 1 51.74 | − 1 17.0 | 1.207 | 2.181 | 6.8 | 18.3 |
| 11 7 | 1 43.15 | − 1 35.2 | 1.238 | 2.180 | 10.7 | 18.5 |
| 11 17 | 1 36.42 | − 1 30.1 | 1.292 | 2.180 | 14.9 | 18.8 |
| 11 27 | 1 32.41 | − 1 1.5 | 1.367 | 2.180 | 18.6 | 19.0 |

**74467** 1999 $CG_{44}$ 10 24.2 330°.57 2°.0/25.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.81 | +17 35.8 | 2.328 | 3.132 | 12.8 | 18.5 |
| 9 28 | 2 16.59 | +17 59.2 | 2.241 | 3.129 | 10.1 | 18.3 |
| 10 8 | 2 9.44 | +18 12.9 | 2.178 | 3.127 | 6.9 | 18.1 |
| 10 18 | 2 0.90 | +18 16.9 | 2.141 | 3.125 | 3.5 | 17.9 |
| 10 28 | 1 51.79 | +18 12.5 | 2.134 | 3.123 | 2.1 | 17.8 |
| 11 7 | 1 43.01 | +18 2.7 | 2.156 | 3.121 | 5.0 | 18.0 |
| 11 17 | 1 35.39 | +17 51.0 | 2.206 | 3.119 | 8.3 | 18.2 |
| 11 27 | 1 29.61 | +17 41.5 | 2.282 | 3.117 | 11.3 | 18.4 |

**184262** 2004 $TH_{147}$ 10 24.2 275°.83 1°.3/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.25 | +18 32.0 | 3.172 | 3.969 | 9.9 | 21.0 |
| 9 28 | 2 11.12 | +18 25.1 | 3.081 | 3.966 | 7.7 | 20.9 |
| 10 8 | 2 5.70 | +18 9.3 | 3.015 | 3.963 | 5.2 | 20.7 |
| 10 18 | 1 59.39 | +17 45.7 | 2.976 | 3.959 | 2.6 | 20.5 |
| 10 28 | 1 52.74 | +17 16.1 | 2.967 | 3.956 | 1.5 | 20.4 |
| 11 7 | 1 46.32 | +16 43.4 | 2.988 | 3.953 | 3.7 | 20.6 |
| 11 17 | 1 40.68 | +16 10.9 | 3.038 | 3.950 | 6.3 | 20.8 |
| 11 27 | 1 36.30 | +15 41.8 | 3.115 | 3.946 | 8.7 | 20.9 |

**288087** 2003 $WH_{5}$ 10 24.2 222°.51 1°.3/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.55 | + 8 15.3 | 2.033 | 2.863 | 13.5 | 20.9 |
| 9 28 | 2 18.82 | + 8 12.7 | 1.949 | 2.857 | 10.3 | 20.7 |
| 10 8 | 2 10.94 | + 8 4.9 | 1.889 | 2.852 | 6.6 | 20.5 |
| 10 18 | 2 1.51 | + 7 54.3 | 1.855 | 2.846 | 2.6 | 20.2 |
| 10 28 | 1 51.45 | + 7 44.3 | 1.851 | 2.840 | 2.5 | 20.2 |
| 11 7 | 1 41.80 | + 7 38.5 | 1.876 | 2.834 | 6.4 | 20.4 |
| 11 17 | 1 33.48 | + 7 40.1 | 1.929 | 2.827 | 10.2 | 20.6 |
| 11 27 | 1 27.25 | + 7 51.8 | 2.007 | 2.820 | 13.5 | 20.8 |

**79391** 1997 $GZ_{14}$ 10 24.2 205°.20 1°.2/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.70 | +16 43.3 | 1.752 | 2.573 | 15.7 | 20.2 |
| 9 28 | 2 18.56 | +16 32.3 | 1.670 | 2.570 | 12.2 | 20.0 |
| 10 8 | 2 10.96 | +16 7.1 | 1.610 | 2.566 | 8.1 | 19.7 |
| 10 18 | 2 1.56 | +15 29.0 | 1.574 | 2.563 | 3.6 | 19.5 |
| 10 28 | 1 51.43 | +14 42.1 | 1.567 | 2.558 | 1.8 | 19.3 |
| 11 7 | 1 41.80 | +13 52.5 | 1.588 | 2.554 | 6.3 | 19.6 |
| 11 17 | 1 33.75 | +13 6.8 | 1.635 | 2.549 | 10.7 | 19.9 |
| 11 27 | 1 28.11 | +12 31.0 | 1.707 | 2.543 | 14.4 | 20.1 |

**412678** 2014 $OX_{216}$ 10 24.2 23°.72 11°.1/15.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.26 | −15 41.1 | 1.608 | 2.457 | 15.6 | 19.4 |
| 9 28 | 2 14.93 | −16 56.2 | 1.576 | 2.469 | 13.3 | 19.3 |
| 10 8 | 2 8.38 | −17 55.4 | 1.565 | 2.481 | 11.6 | 19.3 |
| 10 18 | 2 0.44 | −18 30.3 | 1.576 | 2.495 | 11.2 | 19.3 |
| 10 28 | 1 52.19 | −18 35.0 | 1.611 | 2.509 | 12.1 | 19.4 |
| 11 7 | 1 44.72 | −18 8.0 | 1.668 | 2.525 | 13.9 | 19.5 |
| 11 17 | 1 38.90 | −17 11.5 | 1.746 | 2.541 | 16.1 | 19.7 |
| 11 27 | 1 35.33 | −15 50.3 | 1.842 | 2.557 | 18.0 | 19.9 |

**407650** 2011 $FV_{123}$ 10 24.2 320°.20 2°.3/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.41 | + 9 20.3 | 2.084 | 2.930 | 12.6 | 20.4 |
| 9 28 | 2 11.08 | + 8 9.3 | 2.000 | 2.919 | 9.5 | 20.2 |
| 10 8 | 2 5.96 | + 6 48.4 | 1.940 | 2.907 | 6.0 | 19.9 |
| 10 18 | 1 59.56 | + 5 22.8 | 1.907 | 2.896 | 2.8 | 19.7 |
| 10 28 | 1 52.67 | + 3 59.0 | 1.902 | 2.886 | 3.4 | 19.7 |
| 11 7 | 1 46.12 | + 2 44.0 | 1.926 | 2.875 | 7.0 | 19.9 |
| 11 17 | 1 40.70 | + 1 43.5 | 1.977 | 2.865 | 10.5 | 20.1 |
| 11 27 | 1 37.03 | + 1 1.3 | 2.051 | 2.856 | 13.6 | 20.3 |

**135948** 2002 $TN_{215}$ 10 24.2 348°.12 7°.5/18.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.55 | − 2 3.6 | 1.344 | 2.222 | 16.2 | 18.7 |
| 9 28 | 2 12.78 | − 3 17.5 | 1.282 | 2.212 | 12.7 | 18.4 |
| 10 8 | 2 7.42 | − 4 31.1 | 1.241 | 2.204 | 9.3 | 18.2 |
| 10 18 | 2 0.20 | − 5 34.8 | 1.223 | 2.196 | 7.5 | 18.1 |
| 10 28 | 1 52.29 | − 6 19.1 | 1.229 | 2.190 | 8.9 | 18.2 |
| 11 7 | 1 44.96 | − 6 37.0 | 1.259 | 2.185 | 12.2 | 18.3 |
| 11 17 | 1 39.35 | − 6 26.2 | 1.310 | 2.181 | 15.9 | 18.5 |
| 11 27 | 1 36.25 | − 5 47.6 | 1.380 | 2.178 | 19.2 | 18.8 |

**47021** 1998 $VR_{12}$ 10 24.2 337°.58 1°.8/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 17.76 | + 9 42.3 | 1.490 | 2.348 | 16.1 | 18.5 |
| 9 28 | 2 14.35 | + 9 11.4 | 1.414 | 2.338 | 12.3 | 18.2 |
| 10 8 | 2 8.40 | + 8 30.2 | 1.359 | 2.329 | 7.8 | 18.0 |
| 10 18 | 2 0.60 | + 7 43.2 | 1.329 | 2.320 | 3.1 | 17.7 |
| 10 28 | 1 52.03 | + 6 56.6 | 1.324 | 2.312 | 3.2 | 17.7 |
| 11 7 | 1 43.96 | + 6 17.8 | 1.345 | 2.305 | 8.0 | 17.9 |
| 11 17 | 1 37.51 | + 5 52.5 | 1.391 | 2.299 | 12.5 | 18.2 |
| 11 27 | 1 33.53 | + 5 44.6 | 1.458 | 2.294 | 16.5 | 18.4 |

**308858** 2006 $RB_{121}$ 10 24.2 340°.28 0°.1/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.54 | +13 9.2 | 1.785 | 2.620 | 14.9 | 21.0 |
| 9 28 | 2 16.06 | +13 2.6 | 1.707 | 2.617 | 11.4 | 20.8 |
| 10 8 | 2 9.30 | +12 45.7 | 1.651 | 2.614 | 7.4 | 20.5 |
| 10 18 | 2 0.90 | +12 20.6 | 1.620 | 2.611 | 2.9 | 20.2 |
| 10 28 | 1 51.85 | +11 51.1 | 1.617 | 2.609 | 1.7 | 20.1 |
| 11 7 | 1 43.27 | +11 22.4 | 1.642 | 2.607 | 6.3 | 20.4 |
| 11 17 | 1 36.16 | +10 59.6 | 1.693 | 2.605 | 10.4 | 20.7 |
| 11 27 | 1 31.27 | +10 46.8 | 1.767 | 2.603 | 14.1 | 20.9 |

**487185** 2014 $OS_{334}$ 10 24.2 58°.18 1°.3/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.98 | + 9 54.5 | 2.034 | 2.872 | 13.2 | 21.4 |
| 9 28 | 2 14.46 | + 9 27.1 | 1.965 | 2.879 | 10.0 | 21.2 |
| 10 8 | 2 8.05 | + 8 52.2 | 1.920 | 2.885 | 6.3 | 21.0 |
| 10 18 | 2 0.35 | + 8 13.3 | 1.901 | 2.892 | 2.5 | 20.8 |
| 10 28 | 1 52.22 | + 7 34.9 | 1.910 | 2.899 | 2.4 | 20.8 |
| 11 7 | 1 44.58 | + 7 1.9 | 1.948 | 2.906 | 6.1 | 21.0 |
| 11 17 | 1 38.21 | + 6 38.2 | 2.013 | 2.913 | 9.7 | 21.3 |
| 11 27 | 1 33.73 | + 6 26.8 | 2.102 | 2.920 | 12.8 | 21.5 |

**16179** 2000 $AL_{134}$ 10 24.2 136°.39 0°.1/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.29 | +14 12.2 | 2.588 | 3.404 | 11.3 | 19.1 |
| 9 28 | 2 13.58 | +13 49.2 | 2.512 | 3.412 | 8.6 | 19.0 |
| 10 8 | 2 7.33 | +13 17.5 | 2.460 | 3.419 | 5.6 | 18.8 |
| 10 18 | 2 0.05 | +12 39.4 | 2.436 | 3.426 | 2.2 | 18.6 |
| 10 28 | 1 52.41 | +11 58.0 | 2.441 | 3.433 | 1.3 | 18.5 |
| 11 7 | 1 45.15 | +11 17.5 | 2.477 | 3.439 | 4.6 | 18.8 |
| 11 17 | 1 38.91 | +10 41.7 | 2.541 | 3.445 | 7.7 | 19.0 |
| 11 27 | 1 34.21 | +10 14.0 | 2.631 | 3.451 | 10.4 | 19.2 |

**477000** 2008 $YN_{125}$ 10 24.2 13°.25 5°.9/20.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.39 | + 1 5.7 | 1.256 | 2.132 | 17.3 | 19.8 |
| 9 28 | 2 14.93 | + 0 13.1 | 1.205 | 2.136 | 13.2 | 19.5 |
| 10 8 | 2 8.75 | − 0 40.6 | 1.173 | 2.141 | 9.0 | 19.3 |
| 10 18 | 2 0.69 | − 1 27.3 | 1.165 | 2.147 | 6.1 | 19.2 |
| 10 28 | 1 52.05 | − 1 58.5 | 1.181 | 2.154 | 7.2 | 19.3 |
| 11 7 | 1 44.19 | − 2 8.5 | 1.221 | 2.163 | 10.9 | 19.5 |
| 11 17 | 1 38.25 | − 1 54.7 | 1.284 | 2.172 | 14.9 | 19.8 |
| 11 27 | 1 34.98 | − 1 18.0 | 1.365 | 2.182 | 18.4 | 20.0 |

**258778** 2002 $JZ_{78}$ 10 24.2 276°.31 1°.5/25.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.29 | +16 34.7 | 2.203 | 3.014 | 13.2 | 20.5 |
| 9 28 | 2 16.30 | +16 45.1 | 2.115 | 3.009 | 10.3 | 20.3 |
| 10 8 | 2 9.32 | +16 45.4 | 2.050 | 3.004 | 6.9 | 20.1 |
| 10 18 | 2 0.90 | +16 36.1 | 2.012 | 2.998 | 3.3 | 19.8 |
| 10 28 | 1 51.87 | +16 19.2 | 2.002 | 2.993 | 1.8 | 19.7 |
| 11 7 | 1 43.19 | +15 58.4 | 2.022 | 2.988 | 5.2 | 19.9 |
| 11 17 | 1 35.72 | +15 37.9 | 2.070 | 2.982 | 8.8 | 20.1 |
| 11 27 | 1 30.15 | +15 22.0 | 2.143 | 2.977 | 12.0 | 20.3 |

**6108** Glebov 10 24.2 48°.73 2°.3/25.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.28 | +19 15.1 | 1.047 | 1.897 | 21.9 | 16.7 |
| 9 28 | 2 19.10 | +19 0.3 | 1.004 | 1.918 | 17.0 | 16.5 |
| 10 8 | 2 11.55 | +18 21.7 | 0.979 | 1.940 | 11.4 | 16.3 |
| 10 18 | 2 1.77 | +17 22.5 | 0.974 | 1.962 | 5.4 | 16.0 |
| 10 28 | 1 51.45 | +16 10.4 | 0.993 | 1.985 | 2.7 | 16.0 |
| 11 7 | 1 42.36 | +14 56.7 | 1.037 | 2.008 | 7.9 | 16.4 |
| 11 17 | 1 35.82 | +13 52.0 | 1.104 | 2.032 | 13.1 | 16.7 |
| 11 27 | 1 32.56 | +13 4.3 | 1.191 | 2.055 | 17.5 | 17.1 |

**273185** 2006 $HO_{99}$ 10 24.2 314°.91 11°.4/22.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 43.17 | −12 52.1 | 1.034 | 1.877 | 22.7 | 19.6 |
| 9 28 | 2 34.85 | −12 44.1 | 0.972 | 1.872 | 18.7 | 19.4 |
| 10 8 | 2 22.08 | −12 13.5 | 0.927 | 1.868 | 14.7 | 19.1 |
| 10 18 | 2 6.02 | −11 9.7 | 0.904 | 1.864 | 11.8 | 18.9 |
| 10 28 | 1 48.79 | − 9 27.0 | 0.906 | 1.861 | 12.1 | 19.0 |
| 11 7 | 1 32.84 | − 7 8.7 | 0.932 | 1.857 | 15.5 | 19.1 |
| 11 17 | 1 20.14 | − 4 24.8 | 0.982 | 1.854 | 19.9 | 19.4 |
| 11 27 | 1 11.82 | − 1 26.4 | 1.051 | 1.851 | 23.9 | 19.7 |

**229442** 2005 $UC_{14}$ 10 24.2 230°.42 1°.3/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.41 | +10 37.8 | 1.806 | 2.642 | 14.6 | 21.3 |
| 9 28 | 2 17.48 | +10 6.4 | 1.722 | 2.635 | 11.2 | 21.1 |
| 10 8 | 2 10.23 | + 9 25.2 | 1.661 | 2.626 | 7.1 | 20.8 |
| 10 18 | 2 1.29 | + 8 37.7 | 1.626 | 2.617 | 2.8 | 20.5 |
| 10 28 | 1 51.65 | + 7 49.1 | 1.619 | 2.608 | 2.6 | 20.5 |
| 11 7 | 1 42.44 | + 7 5.8 | 1.641 | 2.599 | 7.0 | 20.8 |
| 11 17 | 1 34.70 | + 6 33.0 | 1.688 | 2.589 | 11.2 | 21.0 |
| 11 27 | 1 29.20 | + 6 14.9 | 1.760 | 2.578 | 14.8 | 21.2 |

**461256** 2015 $XR_9$ 10 24.2 188°.59 5°.5/18.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.12 | − 4 36.2 | 2.374 | 3.218 | 11.3 | 20.3 |
| 9 28 | 2 13.53 | − 5 31.0 | 2.309 | 3.218 | 8.9 | 20.2 |
| 10 8 | 2 7.34 | − 6 22.9 | 2.269 | 3.218 | 6.6 | 20.0 |
| 10 18 | 2 0.07 | − 7 6.8 | 2.256 | 3.218 | 5.5 | 20.0 |
| 10 28 | 1 52.43 | − 7 37.6 | 2.271 | 3.217 | 6.4 | 20.0 |
| 11 7 | 1 45.18 | − 7 52.0 | 2.313 | 3.217 | 8.6 | 20.1 |
| 11 17 | 1 39.01 | − 7 48.3 | 2.381 | 3.216 | 11.0 | 20.3 |
| 11 27 | 1 34.45 | − 7 26.8 | 2.471 | 3.215 | 13.2 | 20.5 |

**226463** 2003 $SD_{144}$ 10 24.2 58°.22 0°.4/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.01 | +10 17.7 | 2.196 | 3.021 | 12.8 | 19.8 |
| 9 28 | 2 17.41 | +10 28.9 | 2.123 | 3.028 | 9.7 | 19.6 |
| 10 8 | 2 9.91 | +10 34.6 | 2.073 | 3.034 | 6.2 | 19.4 |
| 10 18 | 2 1.09 | +10 36.2 | 2.050 | 3.041 | 2.4 | 19.1 |
| 10 28 | 1 51.80 | +10 36.0 | 2.057 | 3.048 | 1.7 | 19.1 |
| 11 7 | 1 42.96 | +10 37.0 | 2.094 | 3.055 | 5.5 | 19.4 |
| 11 17 | 1 35.38 | +10 42.0 | 2.159 | 3.062 | 9.0 | 19.6 |
| 11 27 | 1 29.69 | +10 53.5 | 2.249 | 3.070 | 12.0 | 19.8 |

**479861** 2014 $GC_{32}$ 10 24.2 266°.37 3°.8/21.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.68 | + 1 31.1 | 1.845 | 2.685 | 14.3 | 21.0 |
| 9 28 | 2 20.68 | + 1 25.0 | 1.761 | 2.673 | 11.0 | 20.7 |
| 10 8 | 2 12.28 | + 1 19.2 | 1.699 | 2.661 | 7.3 | 20.5 |
| 10 18 | 2 2.10 | + 1 17.5 | 1.664 | 2.649 | 4.2 | 20.3 |
| 10 28 | 1 51.16 | + 1 24.0 | 1.658 | 2.637 | 4.7 | 20.3 |
| 11 7 | 1 40.65 | + 1 42.1 | 1.680 | 2.624 | 8.2 | 20.5 |
| 11 17 | 1 31.61 | + 2 13.5 | 1.729 | 2.612 | 12.0 | 20.7 |
| 11 27 | 1 24.89 | + 2 58.7 | 1.801 | 2.599 | 15.4 | 20.9 |

**517285** 2014 $GT_{58}$ 10 24.2 128°.79 0°.4/24.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.72 | +14 46.3 | 1.898 | 2.725 | 14.4 | 21.6 |
| 9 28 | 2 16.03 | +14 29.3 | 1.822 | 2.727 | 11.1 | 21.4 |
| 10 8 | 2 9.19 | +14 0.4 | 1.768 | 2.729 | 7.2 | 21.1 |
| 10 18 | 2 0.85 | +13 22.1 | 1.740 | 2.731 | 2.9 | 20.9 |
| 10 28 | 1 51.96 | +12 38.6 | 1.741 | 2.732 | 1.6 | 20.8 |
| 11 7 | 1 43.55 | +11 55.2 | 1.769 | 2.734 | 5.9 | 21.1 |
| 11 17 | 1 36.55 | +11 17.5 | 1.825 | 2.735 | 9.9 | 21.3 |
| 11 27 | 1 31.66 | +10 50.2 | 1.904 | 2.737 | 13.3 | 21.6 |

**442879** 2013 $BN_{33}$ 10 24.2 319°.02 4°.3/20.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.88 | + 5 9.6 | 1.476 | 2.343 | 15.7 | 20.8 |
| 9 28 | 2 13.77 | + 4 9.3 | 1.394 | 2.323 | 12.0 | 20.5 |
| 10 8 | 2 8.12 | + 3 0.6 | 1.334 | 2.303 | 7.9 | 20.2 |
| 10 18 | 2 0.55 | + 1 50.2 | 1.297 | 2.284 | 4.6 | 20.0 |
| 10 28 | 1 52.11 | + 0 47.0 | 1.286 | 2.265 | 5.7 | 20.0 |
| 11 7 | 1 44.07 | − 0 0.6 | 1.301 | 2.247 | 9.9 | 20.2 |
| 11 17 | 1 37.60 | − 0 26.6 | 1.339 | 2.230 | 14.2 | 20.4 |
| 11 27 | 1 33.60 | − 0 28.3 | 1.397 | 2.214 | 18.1 | 20.6 |

**476906** 2008 $WK_{39}$ 10 24.2 343°.97 0°.4/23.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.87 | +13 30.4 | 1.243 | 2.107 | 18.2 | 20.9 |
| 9 28 | 2 13.42 | +13 7.2 | 1.170 | 2.096 | 14.1 | 20.6 |
| 10 8 | 2 8.08 | +12 28.0 | 1.116 | 2.085 | 9.1 | 20.3 |
| 10 18 | 2 0.56 | +11 36.3 | 1.084 | 2.076 | 3.5 | 20.0 |
| 10 28 | 1 52.11 | +10 39.1 | 1.076 | 2.068 | 2.4 | 19.9 |
| 11 7 | 1 44.23 | + 9 45.3 | 1.093 | 2.061 | 8.1 | 20.2 |
| 11 17 | 1 38.22 | + 9 3.2 | 1.133 | 2.055 | 13.4 | 20.5 |
| 11 27 | 1 35.06 | + 8 39.2 | 1.193 | 2.051 | 17.9 | 20.8 |

**164405** 2005 $UK_{504}$ 10 24.2 151°.79 6°.5/30.2 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.17 | +32 3.4 | 2.172 | 2.906 | 15.7 | 20.5 |
| 9 28 | 2 20.27 | +32 39.7 | 2.090 | 2.913 | 13.3 | 20.3 |
| 10 8 | 2 11.99 | +32 56.2 | 2.028 | 2.920 | 10.6 | 20.1 |
| 10 18 | 2 1.97 | +32 50.2 | 1.989 | 2.927 | 8.0 | 20.0 |
| 10 28 | 1 51.27 | +32 21.3 | 1.978 | 2.932 | 6.6 | 19.9 |
| 11 7 | 1 41.06 | +31 33.1 | 1.994 | 2.938 | 7.2 | 20.0 |
| 11 17 | 1 32.39 | +30 31.9 | 2.038 | 2.942 | 9.4 | 20.1 |
| 11 27 | 1 26.05 | +29 25.9 | 2.107 | 2.947 | 11.9 | 20.3 |

**358773** 2008 $DG_{34}$ 10 24.2 146°.62 2°.0/22.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.93 | + 8 42.5 | 2.334 | 3.169 | 11.8 | 21.4 |
| 9 28 | 2 13.43 | + 7 46.7 | 2.262 | 3.175 | 8.9 | 21.2 |
| 10 8 | 2 7.29 | + 6 44.0 | 2.215 | 3.181 | 5.6 | 21.0 |
| 10 18 | 2 0.06 | + 5 38.6 | 2.196 | 3.186 | 2.5 | 20.8 |
| 10 28 | 1 52.47 | + 4 35.7 | 2.207 | 3.191 | 3.0 | 20.8 |
| 11 7 | 1 45.29 | + 3 40.6 | 2.247 | 3.196 | 6.1 | 21.1 |
| 11 17 | 1 39.22 | + 2 57.4 | 2.315 | 3.200 | 9.3 | 21.3 |
| 11 27 | 1 34.79 | + 2 28.8 | 2.407 | 3.204 | 12.0 | 21.5 |

**258798** 2002 $LX_8$ 10 24.2 161°.32 3°.2/21.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.99 | + 6 20.9 | 1.722 | 2.566 | 14.9 | 20.7 |
| 9 28 | 2 18.56 | + 5 27.6 | 1.655 | 2.571 | 11.3 | 20.4 |
| 10 8 | 2 10.81 | + 4 27.6 | 1.611 | 2.576 | 7.2 | 20.2 |
| 10 18 | 2 1.48 | + 3 26.5 | 1.593 | 2.581 | 3.7 | 20.0 |
| 10 28 | 1 51.61 | + 2 31.3 | 1.603 | 2.584 | 4.4 | 20.1 |
| 11 7 | 1 42.36 | + 1 48.4 | 1.642 | 2.588 | 8.2 | 20.3 |
| 11 17 | 1 34.72 | + 1 22.1 | 1.706 | 2.590 | 12.1 | 20.6 |
| 11 27 | 1 29.39 | + 1 14.8 | 1.793 | 2.592 | 15.4 | 20.8 |

**143946** 2003 $YB_{117}$ 10 24.2 321°.02 2°.1/23.1 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.90 | + 7 49.6 | 1.326 | 2.184 | 17.7 | 19.7 |
| 9 28 | 2 19.37 | + 7 41.6 | 1.254 | 2.177 | 13.6 | 19.5 |
| 10 8 | 2 11.82 | + 7 26.3 | 1.201 | 2.169 | 8.7 | 19.2 |
| 10 18 | 2 2.01 | + 7 7.6 | 1.171 | 2.163 | 3.6 | 18.9 |
| 10 28 | 1 51.26 | + 6 51.1 | 1.168 | 2.156 | 3.6 | 18.8 |
| 11 7 | 1 41.10 | + 6 42.6 | 1.190 | 2.150 | 8.7 | 19.1 |
| 11 17 | 1 32.91 | + 6 46.7 | 1.235 | 2.145 | 13.7 | 19.4 |
| 11 27 | 1 27.67 | + 7 6.3 | 1.302 | 2.140 | 18.0 | 19.7 |

**276431** 2003 $BR_{65}$ 10 24.2 183°.43 2°.2/26.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.12 | +20 27.9 | 1.991 | 2.792 | 14.8 | 21.3 |
| 9 28 | 2 17.87 | +20 16.0 | 1.908 | 2.793 | 11.7 | 21.0 |
| 10 8 | 2 10.40 | +19 48.5 | 1.846 | 2.793 | 8.1 | 20.8 |
| 10 18 | 2 1.35 | +19 6.0 | 1.810 | 2.792 | 4.2 | 20.6 |
| 10 28 | 1 51.69 | +18 11.9 | 1.802 | 2.791 | 2.4 | 20.5 |
| 11 7 | 1 42.51 | +17 11.8 | 1.823 | 2.790 | 5.6 | 20.7 |
| 11 17 | 1 34.77 | +16 12.4 | 1.873 | 2.787 | 9.4 | 20.9 |
| 11 27 | 1 29.20 | +15 20.1 | 1.947 | 2.785 | 12.9 | 21.1 |

**307156** 2002 $CT_{293}$ 10 24.2 253°.49 0°.6/24.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.85 | +17 43.5 | 2.520 | 3.326 | 11.9 | 21.4 |
| 9 28 | 2 13.50 | +16 59.4 | 2.415 | 3.308 | 9.2 | 21.2 |
| 10 8 | 2 7.45 | +16 2.1 | 2.335 | 3.289 | 6.1 | 21.0 |
| 10 18 | 2 0.18 | +14 53.5 | 2.282 | 3.270 | 2.6 | 20.7 |
| 10 28 | 1 52.39 | +13 37.7 | 2.259 | 3.251 | 1.3 | 20.6 |
| 11 7 | 1 44.86 | +12 20.1 | 2.267 | 3.231 | 4.9 | 20.8 |
| 11 17 | 1 38.32 | +11 6.7 | 2.304 | 3.210 | 8.3 | 21.0 |
| 11 27 | 1 33.39 | +10 2.7 | 2.367 | 3.190 | 11.4 | 21.2 |

**206979** 2004 $TV_{115}$ 10 24.2 19°.98 13°.6/18.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.72 | −17 1.2 | 1.176 | 2.033 | 19.6 | 18.8 |
| 9 28 | 2 19.76 | −17 58.4 | 1.143 | 2.041 | 16.7 | 18.6 |
| 10 8 | 2 11.77 | −18 33.5 | 1.128 | 2.051 | 14.5 | 18.5 |
| 10 18 | 2 1.84 | −18 36.1 | 1.134 | 2.062 | 13.6 | 18.5 |
| 10 28 | 1 51.51 | −17 59.6 | 1.160 | 2.074 | 14.5 | 18.6 |
| 11 7 | 1 42.35 | −16 44.7 | 1.208 | 2.087 | 16.6 | 18.8 |
| 11 17 | 1 35.51 | −14 57.0 | 1.276 | 2.102 | 19.1 | 19.0 |
| 11 27 | 1 31.67 | −12 44.7 | 1.361 | 2.117 | 21.5 | 19.2 |

**110133** 2001 $SJ_{148}$ 10 24.2 305°.76 5°.1/27.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.87 | +23 32.9 | 1.506 | 2.315 | 18.4 | 19.4 |
| 9 28 | 2 18.68 | +24 7.9 | 1.419 | 2.303 | 15.0 | 19.1 |
| 10 8 | 2 11.50 | +24 24.1 | 1.352 | 2.292 | 11.1 | 18.8 |
| 10 18 | 2 1.96 | +24 18.8 | 1.307 | 2.280 | 7.1 | 18.6 |
| 10 28 | 1 51.29 | +23 52.3 | 1.287 | 2.269 | 5.1 | 18.5 |
| 11 7 | 1 41.03 | +23 9.5 | 1.293 | 2.258 | 7.6 | 18.6 |
| 11 17 | 1 32.61 | +22 18.3 | 1.323 | 2.247 | 11.8 | 18.8 |
| 11 27 | 1 27.10 | +21 28.3 | 1.377 | 2.237 | 15.9 | 19.0 |

**228105** 2008 $SA_{224}$ 10 24.2 266°.92 0°.4/23.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 11.55 | +10 46.2 | 4.365 | 5.184 | 7.0 | 20.8 |
| 9 28 | 2 7.99 | +10 29.8 | 4.279 | 5.182 | 5.3 | 20.7 |
| 10 8 | 2 3.58 | +10 9.7 | 4.219 | 5.180 | 3.3 | 20.5 |
| 10 18 | 1 58.60 | + 9 47.2 | 4.188 | 5.179 | 1.3 | 20.4 |
| 10 28 | 1 53.41 | + 9 24.2 | 4.187 | 5.177 | 1.0 | 20.3 |
| 11 7 | 1 48.38 | + 9 2.8 | 4.218 | 5.175 | 3.1 | 20.5 |
| 11 17 | 1 43.87 | + 8 44.6 | 4.277 | 5.174 | 5.1 | 20.6 |
| 11 27 | 1 40.19 | + 8 31.5 | 4.364 | 5.172 | 6.8 | 20.8 |

**221542** 2006 $UB_{63}$ 10 24.2 307°.16 5°.5/13.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 10.81 | −15 59.2 | 4.176 | 4.996 | 7.3 | 19.5 |
| 9 28 | 2 7.48 | −17 0.3 | 4.120 | 4.991 | 6.3 | 19.4 |
| 10 8 | 2 3.28 | −17 55.1 | 4.091 | 4.987 | 5.6 | 19.4 |
| 10 18 | 1 58.48 | −18 40.4 | 4.088 | 4.983 | 5.6 | 19.4 |
| 10 28 | 1 53.48 | −19 13.3 | 4.112 | 4.978 | 6.2 | 19.4 |
| 11 7 | 1 48.67 | −19 32.1 | 4.162 | 4.974 | 7.2 | 19.5 |
| 11 17 | 1 44.41 | −19 36.0 | 4.236 | 4.970 | 8.3 | 19.6 |
| 11 27 | 1 41.02 | −19 25.5 | 4.331 | 4.965 | 9.3 | 19.7 |

**329096** 2011 $BK_{102}$ 10 24.2 356°.85 1°.8/22.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.94 | + 9 2.8 | 1.696 | 2.549 | 14.7 | 20.7 |
| 9 28 | 2 13.38 | + 8 35.4 | 1.624 | 2.546 | 11.1 | 20.5 |
| 10 8 | 2 7.61 | + 7 59.9 | 1.575 | 2.543 | 7.0 | 20.2 |
| 10 18 | 2 0.29 | + 7 20.4 | 1.550 | 2.541 | 2.9 | 20.0 |
| 10 28 | 1 52.38 | + 6 42.3 | 1.552 | 2.540 | 3.0 | 20.0 |
| 11 7 | 1 44.96 | + 6 11.4 | 1.582 | 2.540 | 7.2 | 20.2 |
| 11 17 | 1 38.98 | + 5 52.4 | 1.636 | 2.541 | 11.2 | 20.5 |
| 11 27 | 1 35.15 | + 5 48.3 | 1.713 | 2.542 | 14.7 | 20.7 |

**358818** 2008 $ES_{124}$ 10 24.2 32°.20 2°.2/26.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.05 | +20 1.8 | 1.824 | 2.639 | 15.4 | 21.0 |
| 9 28 | 2 14.91 | +19 49.7 | 1.749 | 2.643 | 12.1 | 20.8 |
| 10 8 | 2 8.55 | +19 21.3 | 1.696 | 2.647 | 8.3 | 20.5 |
| 10 18 | 2 0.64 | +18 37.8 | 1.668 | 2.652 | 4.3 | 20.3 |
| 10 28 | 1 52.17 | +17 43.3 | 1.667 | 2.657 | 2.3 | 20.2 |
| 11 7 | 1 44.23 | +16 43.9 | 1.694 | 2.662 | 5.7 | 20.4 |
| 11 17 | 1 37.77 | +15 46.4 | 1.748 | 2.667 | 9.7 | 20.7 |
| 11 27 | 1 33.48 | +14 57.2 | 1.826 | 2.673 | 13.2 | 20.9 |

**390281** 2013 $AF_6$ 10 24.2 86°.07 1°.7/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.46 | + 9 35.5 | 1.763 | 2.604 | 14.7 | 21.0 |
| 9 28 | 2 16.54 | + 8 58.8 | 1.702 | 2.617 | 11.1 | 20.8 |
| 10 8 | 2 9.47 | + 8 13.8 | 1.664 | 2.630 | 7.0 | 20.6 |
| 10 18 | 2 0.96 | + 7 24.8 | 1.652 | 2.643 | 2.8 | 20.4 |
| 10 28 | 1 52.01 | + 6 37.6 | 1.668 | 2.656 | 2.9 | 20.4 |
| 11 7 | 1 43.71 | + 5 58.0 | 1.712 | 2.668 | 7.0 | 20.7 |
| 11 17 | 1 36.93 | + 5 30.5 | 1.782 | 2.681 | 10.8 | 21.0 |
| 11 27 | 1 32.34 | + 5 18.1 | 1.876 | 2.693 | 14.1 | 21.2 |

**451832** 2013 $JU_{11}$ 10 24.2 35°.00 2°.0/22.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.88 | + 6 3.3 | 1.957 | 2.796 | 13.6 | 20.6 |
| 9 28 | 2 17.51 | + 6 2.7 | 1.888 | 2.801 | 10.3 | 20.4 |
| 10 8 | 2 10.07 | + 5 59.0 | 1.842 | 2.806 | 6.6 | 20.2 |
| 10 18 | 2 1.21 | + 5 54.8 | 1.822 | 2.812 | 2.9 | 19.9 |
| 10 28 | 1 51.86 | + 5 53.4 | 1.831 | 2.818 | 3.0 | 20.0 |
| 11 7 | 1 43.01 | + 5 58.3 | 1.869 | 2.824 | 6.6 | 20.2 |
| 11 17 | 1 35.56 | + 6 11.7 | 1.934 | 2.830 | 10.2 | 20.4 |
| 11 27 | 1 30.17 | + 6 35.3 | 2.023 | 2.837 | 13.4 | 20.7 |

**479934** 2014 $HF_{136}$ 10 24.2 259°.36 0°.8/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.25 | +12 5.0 | 1.859 | 2.695 | 14.3 | 22.1 |
| 9 28 | 2 15.82 | +11 33.3 | 1.774 | 2.685 | 11.0 | 21.9 |
| 10 8 | 2 9.17 | +10 50.7 | 1.712 | 2.676 | 7.0 | 21.6 |
| 10 18 | 2 0.93 | +10 0.3 | 1.675 | 2.666 | 2.7 | 21.3 |
| 10 28 | 1 52.01 | + 9 7.4 | 1.666 | 2.657 | 2.2 | 21.3 |
| 11 7 | 1 43.50 | + 8 18.2 | 1.686 | 2.647 | 6.6 | 21.5 |
| 11 17 | 1 36.37 | + 7 38.3 | 1.732 | 2.637 | 10.7 | 21.8 |
| 11 27 | 1 31.37 | + 7 12.4 | 1.802 | 2.627 | 14.3 | 22.0 |

**379658** 2011 $EB_{43}$ 10 24.2 265°.25 0°.2/24.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.50 | +14 2.1 | 1.584 | 2.422 | 16.3 | 21.8 |
| 9 28 | 2 17.18 | +13 34.6 | 1.501 | 2.413 | 12.5 | 21.5 |
| 10 8 | 2 10.25 | +12 52.9 | 1.439 | 2.403 | 8.1 | 21.3 |
| 10 18 | 2 1.40 | +11 59.8 | 1.402 | 2.394 | 3.2 | 20.9 |
| 10 28 | 1 51.72 | +11 1.0 | 1.392 | 2.384 | 2.0 | 20.8 |
| 11 7 | 1 42.52 | +10 4.1 | 1.410 | 2.374 | 7.1 | 21.1 |
| 11 17 | 1 34.97 | + 9 16.1 | 1.452 | 2.364 | 11.9 | 21.4 |
| 11 27 | 1 29.93 | + 8 43.1 | 1.518 | 2.354 | 15.9 | 21.6 |

**43780** 1989 $SL_8$ 10 24.2 16°.71 2°.1/25.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.03 | +15 39.6 | 0.983 | 1.850 | 21.7 | 17.7 |
| 9 28 | 2 17.87 | +16 6.9 | 0.931 | 1.856 | 16.9 | 17.4 |
| 10 8 | 2 11.14 | +16 16.9 | 0.896 | 1.863 | 11.3 | 17.1 |
| 10 18 | 2 1.80 | +16 10.1 | 0.881 | 1.871 | 5.2 | 16.8 |
| 10 28 | 1 51.55 | +15 50.5 | 0.889 | 1.881 | 2.8 | 16.7 |
| 11 7 | 1 42.29 | +15 25.9 | 0.920 | 1.892 | 8.3 | 17.1 |
| 11 17 | 1 35.57 | +15 4.5 | 0.972 | 1.905 | 13.9 | 17.4 |
| 11 27 | 1 32.35 | +14 53.6 | 1.044 | 1.918 | 18.6 | 17.8 |

**98063** 2000 $RG_{48}$ 10 24.2 328°.84 5°.5/27.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.14 | +23 56.8 | 1.298 | 2.117 | 20.2 | 18.8 |
| 9 28 | 2 19.23 | +24 31.9 | 1.222 | 2.111 | 16.5 | 18.5 |
| 10 8 | 2 12.00 | +24 45.0 | 1.163 | 2.106 | 12.2 | 18.3 |
| 10 18 | 2 2.19 | +24 33.0 | 1.126 | 2.101 | 7.8 | 18.0 |
| 10 28 | 1 51.24 | +23 56.9 | 1.113 | 2.096 | 5.5 | 17.9 |
| 11 7 | 1 40.88 | +23 2.8 | 1.125 | 2.092 | 8.2 | 18.0 |
| 11 17 | 1 32.68 | +22 0.7 | 1.161 | 2.088 | 12.7 | 18.3 |
| 11 27 | 1 27.75 | +21 1.9 | 1.218 | 2.085 | 17.0 | 18.5 |

**120203** 2004 $EE_7$ 10 24.2 254°.75 2°.3/22.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.35 | +10 13.2 | 1.580 | 2.429 | 15.8 | 20.4 |
| 9 28 | 2 16.20 | + 9 14.5 | 1.502 | 2.421 | 12.0 | 20.1 |
| 10 8 | 2 9.56 | + 8 3.2 | 1.446 | 2.414 | 7.6 | 19.9 |
| 10 18 | 2 1.11 | + 6 44.9 | 1.415 | 2.406 | 3.2 | 19.6 |
| 10 28 | 1 51.93 | + 5 27.5 | 1.411 | 2.398 | 3.6 | 19.6 |
| 11 7 | 1 43.27 | + 4 19.6 | 1.434 | 2.390 | 8.2 | 19.8 |
| 11 17 | 1 36.22 | + 3 28.2 | 1.483 | 2.381 | 12.6 | 20.1 |
| 11 27 | 1 31.59 | + 2 57.7 | 1.554 | 2.373 | 16.5 | 20.3 |

**484973** 2009 $TK_{39}$ 10 24.2 20°.91 6°.5/31.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.36 | +34 23.0 | 1.661 | 2.423 | 18.8 | 19.7 |
| 9 28 | 2 12.47 | +33 54.7 | 1.591 | 2.434 | 15.8 | 19.5 |
| 10 8 | 2 7.11 | +32 55.6 | 1.540 | 2.446 | 12.5 | 19.3 |
| 10 18 | 2 0.10 | +31 25.1 | 1.510 | 2.459 | 9.0 | 19.2 |
| 10 28 | 1 52.59 | +29 27.7 | 1.505 | 2.473 | 6.7 | 19.1 |
| 11 7 | 1 45.83 | +27 12.6 | 1.527 | 2.488 | 7.2 | 19.1 |
| 11 17 | 1 40.81 | +24 52.1 | 1.577 | 2.504 | 9.9 | 19.3 |
| 11 27 | 1 38.19 | +22 38.3 | 1.652 | 2.520 | 13.2 | 19.6 |

**390945** 2005 $JN_{51}$ 10 24.2 149°.97 1°.6/22.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.15 | + 8 39.8 | 2.303 | 3.133 | 12.1 | 21.7 |
| 9 28 | 2 15.89 | + 8 6.9 | 2.232 | 3.141 | 9.1 | 21.5 |
| 10 8 | 2 8.90 | + 7 27.9 | 2.185 | 3.148 | 5.8 | 21.3 |
| 10 18 | 2 0.74 | + 6 46.3 | 2.165 | 3.155 | 2.4 | 21.1 |
| 10 28 | 1 52.19 | + 6 6.2 | 2.175 | 3.162 | 2.6 | 21.2 |
| 11 7 | 1 44.09 | + 5 32.1 | 2.215 | 3.168 | 5.9 | 21.4 |
| 11 17 | 1 37.17 | + 5 7.6 | 2.283 | 3.174 | 9.2 | 21.6 |
| 11 27 | 1 31.99 | + 4 55.1 | 2.376 | 3.179 | 12.0 | 21.8 |

**149840** 2005 $PO_1$ 10 24.2 27°.39 5°.8/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.98 | + 2 20.9 | 1.182 | 2.058 | 18.1 | 19.5 |
| 9 28 | 2 16.27 | + 1 18.3 | 1.134 | 2.066 | 13.8 | 19.2 |
| 10 8 | 2 9.67 | + 0 12.8 | 1.106 | 2.075 | 9.3 | 19.0 |
| 10 18 | 2 1.12 | − 0 46.8 | 1.101 | 2.084 | 6.0 | 18.9 |
| 10 28 | 1 51.99 | − 1 30.9 | 1.120 | 2.094 | 7.2 | 19.0 |
| 11 7 | 1 43.76 | − 1 52.5 | 1.162 | 2.105 | 11.2 | 19.2 |
| 11 17 | 1 37.59 | − 1 48.9 | 1.227 | 2.117 | 15.3 | 19.5 |
| 11 27 | 1 34.25 | − 1 20.5 | 1.311 | 2.130 | 19.0 | 19.8 |

**446579** 2014 $OV_{213}$ 10 24.2 51°.46 6°.8/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.97 | − 5 25.7 | 1.956 | 2.810 | 13.0 | 20.7 |
| 9 28 | 2 13.68 | − 6 40.6 | 1.906 | 2.819 | 10.2 | 20.5 |
| 10 8 | 2 7.56 | − 7 51.2 | 1.880 | 2.828 | 7.9 | 20.4 |
| 10 18 | 2 0.22 | − 8 50.6 | 1.880 | 2.837 | 6.8 | 20.3 |
| 10 28 | 1 52.53 | − 9 32.4 | 1.906 | 2.847 | 7.9 | 20.4 |
| 11 7 | 1 45.38 | − 9 52.6 | 1.958 | 2.857 | 10.1 | 20.6 |
| 11 17 | 1 39.54 | − 9 50.0 | 2.035 | 2.867 | 12.7 | 20.8 |
| 11 27 | 1 35.58 | − 9 25.6 | 2.132 | 2.877 | 15.0 | 21.0 |

**136832** 1997 $TH_{27}$ 10 24.2 5°.91 1°.0/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.42 | +10 18.1 | 1.562 | 2.411 | 15.9 | 19.4 |
| 9 28 | 2 16.21 | +10 10.7 | 1.493 | 2.412 | 12.1 | 19.2 |
| 10 8 | 2 9.53 | + 9 54.7 | 1.446 | 2.413 | 7.7 | 19.0 |
| 10 18 | 2 1.08 | + 9 33.1 | 1.422 | 2.414 | 3.0 | 18.7 |
| 10 28 | 1 51.98 | + 9 10.5 | 1.426 | 2.416 | 2.4 | 18.7 |
| 11 7 | 1 43.45 | + 8 52.2 | 1.456 | 2.419 | 7.1 | 19.0 |
| 11 17 | 1 36.56 | + 8 42.9 | 1.511 | 2.422 | 11.5 | 19.2 |
| 11 27 | 1 32.11 | + 8 46.0 | 1.589 | 2.427 | 15.3 | 19.5 |

**458435** 2011 $AW_{47}$ 10 24.2 307°.94 9°.3/14.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.62 | −13 39.2 | 2.050 | 2.893 | 12.9 | 21.3 |
| 9 28 | 2 13.56 | −15 4.5 | 1.988 | 2.879 | 11.0 | 21.2 |
| 10 8 | 2 7.59 | −16 20.7 | 1.948 | 2.866 | 9.6 | 21.1 |
| 10 18 | 2 0.28 | −17 20.1 | 1.934 | 2.853 | 9.4 | 21.0 |
| 10 28 | 1 52.46 | −17 55.7 | 1.944 | 2.840 | 10.5 | 21.1 |
| 11 7 | 1 45.05 | −18 3.9 | 1.978 | 2.827 | 12.4 | 21.2 |
| 11 17 | 1 38.87 | −17 44.1 | 2.034 | 2.815 | 14.6 | 21.3 |
| 11 27 | 1 34.56 | −16 58.2 | 2.109 | 2.803 | 16.6 | 21.4 |

**378594** 2008 $EO_{46}$ 10 24.2 180°.12 2°.3/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.77 | + 8 0.4 | 1.930 | 2.765 | 13.9 | 21.9 |
| 9 28 | 2 18.25 | + 7 17.3 | 1.855 | 2.767 | 10.5 | 21.7 |
| 10 8 | 2 10.60 | + 6 27.0 | 1.803 | 2.768 | 6.7 | 21.5 |
| 10 18 | 2 1.45 | + 5 33.6 | 1.779 | 2.768 | 3.0 | 21.3 |
| 10 28 | 1 51.77 | + 4 43.0 | 1.783 | 2.768 | 3.4 | 21.3 |
| 11 7 | 1 42.59 | + 4 0.9 | 1.816 | 2.767 | 7.2 | 21.5 |
| 11 17 | 1 34.84 | + 3 31.8 | 1.877 | 2.765 | 10.9 | 21.8 |
| 11 27 | 1 29.21 | + 3 18.5 | 1.961 | 2.762 | 14.2 | 22.0 |

**442518** 2011 $WM_{85}$ 10 24.2 332°.08 2°.8/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.05 | + 6 31.5 | 1.749 | 2.601 | 14.4 | 21.0 |
| 9 28 | 2 14.94 | + 5 55.3 | 1.674 | 2.595 | 10.9 | 20.8 |
| 10 8 | 2 8.62 | + 5 12.8 | 1.622 | 2.590 | 7.0 | 20.5 |
| 10 18 | 2 0.72 | + 4 28.9 | 1.596 | 2.585 | 3.4 | 20.3 |
| 10 28 | 1 52.22 | + 3 49.3 | 1.596 | 2.580 | 3.9 | 20.3 |
| 11 7 | 1 44.19 | + 3 19.9 | 1.624 | 2.576 | 7.8 | 20.6 |
| 11 17 | 1 37.57 | + 3 4.6 | 1.677 | 2.572 | 11.7 | 20.8 |
| 11 27 | 1 33.12 | + 3 6.1 | 1.753 | 2.568 | 15.1 | 21.0 |

**75814** 2000 $BX_3$ 10 24.2 271°.68 5°.2/27.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.72 | +25 31.1 | 1.963 | 2.741 | 15.8 | 18.6 |
| 9 28 | 2 19.53 | +26 14.0 | 1.867 | 2.728 | 13.0 | 18.4 |
| 10 8 | 2 11.78 | +26 41.1 | 1.791 | 2.716 | 9.9 | 18.2 |
| 10 18 | 2 2.06 | +26 49.8 | 1.740 | 2.703 | 6.8 | 18.0 |
| 10 28 | 1 51.37 | +26 39.4 | 1.716 | 2.690 | 5.2 | 17.9 |
| 11 7 | 1 40.95 | +26 12.9 | 1.720 | 2.677 | 6.8 | 17.9 |
| 11 17 | 1 31.98 | +25 35.7 | 1.750 | 2.664 | 10.0 | 18.1 |
| 11 27 | 1 25.40 | +24 55.4 | 1.805 | 2.651 | 13.4 | 18.3 |

**21582** Arunvenkataraman 10 24.2 159°.23 0°.6/24.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.80 | +15 34.7 | 2.152 | 2.966 | 13.4 | 18.6 |
| 9 28 | 2 16.62 | +15 17.8 | 2.073 | 2.971 | 10.3 | 18.4 |
| 10 8 | 2 9.49 | +14 49.8 | 2.019 | 2.975 | 6.7 | 18.2 |
| 10 18 | 2 1.02 | +14 12.6 | 1.990 | 2.979 | 2.8 | 18.0 |
| 10 28 | 1 52.07 | +13 29.8 | 1.991 | 2.983 | 1.4 | 17.9 |
| 11 7 | 1 43.56 | +12 46.3 | 2.022 | 2.986 | 5.3 | 18.1 |
| 11 17 | 1 36.34 | +12 7.0 | 2.081 | 2.989 | 9.0 | 18.4 |
| 11 27 | 1 31.05 | +11 36.5 | 2.164 | 2.991 | 12.1 | 18.6 |

**190474** 2000 $DL_{52}$ 10 24.2 288°.60 3°.5/27.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.18 | +23 32.2 | 2.334 | 3.118 | 13.4 | 20.0 |
| 9 28 | 2 15.50 | +23 49.8 | 2.242 | 3.111 | 10.8 | 19.8 |
| 10 8 | 2 8.87 | +23 53.4 | 2.173 | 3.105 | 7.9 | 19.6 |
| 10 18 | 2 0.83 | +23 42.6 | 2.128 | 3.099 | 5.0 | 19.4 |
| 10 28 | 1 52.16 | +23 18.4 | 2.112 | 3.093 | 3.5 | 19.3 |
| 11 7 | 1 43.81 | +22 44.4 | 2.125 | 3.087 | 5.3 | 19.4 |
| 11 17 | 1 36.62 | +22 5.2 | 2.165 | 3.081 | 8.3 | 19.6 |
| 11 27 | 1 31.30 | +21 26.4 | 2.232 | 3.075 | 11.2 | 19.8 |

**30860** 1992 $DA_4$ 10 24.2 242°.22 1°.1/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.02 | +16 33.2 | 1.823 | 2.643 | 15.2 | 20.0 |
| 9 28 | 2 18.11 | +16 21.2 | 1.732 | 2.632 | 11.9 | 19.7 |
| 10 8 | 2 10.77 | +15 55.4 | 1.663 | 2.620 | 7.9 | 19.5 |
| 10 18 | 2 1.63 | +15 17.0 | 1.619 | 2.608 | 3.5 | 19.2 |
| 10 28 | 1 51.68 | +14 29.8 | 1.603 | 2.595 | 1.8 | 19.0 |
| 11 7 | 1 42.11 | +13 39.7 | 1.616 | 2.582 | 6.2 | 19.3 |
| 11 17 | 1 34.01 | +12 53.1 | 1.655 | 2.568 | 10.6 | 19.5 |
| 11 27 | 1 28.22 | +12 16.2 | 1.719 | 2.554 | 14.4 | 19.7 |

**154471** 2003 $DX_{20}$ 10 24.2 245°.63 2°.1/25.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.56 | +18 29.9 | 1.800 | 2.613 | 15.6 | 20.6 |
| 9 28 | 2 18.60 | +18 31.5 | 1.709 | 2.603 | 12.3 | 20.4 |
| 10 8 | 2 11.14 | +18 18.6 | 1.640 | 2.592 | 8.4 | 20.1 |
| 10 18 | 2 1.79 | +17 51.3 | 1.595 | 2.581 | 4.2 | 19.9 |
| 10 28 | 1 51.60 | +17 12.4 | 1.579 | 2.569 | 2.3 | 19.7 |
| 11 7 | 1 41.79 | +16 27.4 | 1.590 | 2.557 | 6.2 | 19.9 |
| 11 17 | 1 33.50 | +15 42.7 | 1.629 | 2.545 | 10.5 | 20.2 |
| 11 27 | 1 27.59 | +15 5.1 | 1.691 | 2.532 | 14.3 | 20.4 |

**308408** 2005 $SY_{92}$ 10 24.2 184°.68 0°.3/24.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.24 | +14 41.6 | 1.760 | 2.590 | 15.2 | 21.5 |
| 9 28 | 2 16.62 | +13 57.4 | 1.683 | 2.590 | 11.7 | 21.3 |
| 10 8 | 2 9.70 | +12 58.9 | 1.628 | 2.590 | 7.5 | 21.1 |
| 10 18 | 2 1.16 | +11 49.7 | 1.599 | 2.590 | 2.9 | 20.8 |
| 10 28 | 1 52.03 | +10 35.9 | 1.598 | 2.589 | 1.9 | 20.7 |
| 11 7 | 1 43.43 | + 9 25.0 | 1.625 | 2.588 | 6.6 | 21.0 |
| 11 17 | 1 36.36 | + 8 24.2 | 1.679 | 2.586 | 10.8 | 21.3 |
| 11 27 | 1 31.54 | + 7 38.9 | 1.757 | 2.585 | 14.5 | 21.5 |

**398698** 2012 $XW_{19}$ 10 24.2 284°.66 1°.2/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.20 | +10 31.6 | 1.726 | 2.568 | 15.0 | 21.4 |
| 9 28 | 2 16.74 | +10 10.2 | 1.643 | 2.557 | 11.5 | 21.1 |
| 10 8 | 2 9.90 | + 9 39.2 | 1.581 | 2.546 | 7.3 | 20.9 |
| 10 18 | 2 1.29 | + 9 2.1 | 1.544 | 2.535 | 2.9 | 20.6 |
| 10 28 | 1 51.93 | + 8 23.7 | 1.535 | 2.524 | 2.5 | 20.5 |
| 11 7 | 1 42.99 | + 7 49.9 | 1.553 | 2.514 | 7.1 | 20.8 |
| 11 17 | 1 35.51 | + 7 26.0 | 1.598 | 2.503 | 11.4 | 21.0 |
| 11 27 | 1 30.34 | + 7 16.0 | 1.665 | 2.492 | 15.2 | 21.2 |

**46109** 2001 $FG_{23}$ 10 24.2 123°.14 1°.1/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.73 | + 9 32.3 | 2.623 | 3.449 | 10.9 | 19.1 |
| 9 28 | 2 13.88 | + 9 6.2 | 2.553 | 3.460 | 8.2 | 18.9 |
| 10 8 | 2 7.55 | + 8 34.5 | 2.507 | 3.470 | 5.2 | 18.7 |
| 10 18 | 2 0.24 | + 8 0.0 | 2.490 | 3.481 | 2.1 | 18.5 |
| 10 28 | 1 52.61 | + 7 26.0 | 2.502 | 3.490 | 2.0 | 18.5 |
| 11 7 | 1 45.37 | + 6 56.2 | 2.545 | 3.500 | 5.1 | 18.8 |
| 11 17 | 1 39.12 | + 6 33.8 | 2.616 | 3.509 | 8.0 | 19.0 |
| 11 27 | 1 34.38 | + 6 21.0 | 2.712 | 3.519 | 10.6 | 19.2 |

**509519** 2007 $VT_{330}$ 10 24.2 276°.27 3°.6/22.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.60 | + 5 26.7 | 1.376 | 2.233 | 17.2 | 21.7 |
| 9 28 | 2 19.80 | + 4 58.0 | 1.303 | 2.226 | 13.2 | 21.5 |
| 10 8 | 2 12.08 | + 4 23.4 | 1.251 | 2.219 | 8.6 | 21.2 |
| 10 18 | 2 2.19 | + 3 48.3 | 1.223 | 2.212 | 4.3 | 20.9 |
| 10 28 | 1 51.42 | + 3 19.6 | 1.222 | 2.205 | 4.8 | 21.0 |
| 11 7 | 1 41.24 | + 3 3.8 | 1.246 | 2.199 | 9.4 | 21.2 |
| 11 17 | 1 32.98 | + 3 5.3 | 1.293 | 2.192 | 14.1 | 21.5 |
| 11 27 | 1 27.58 | + 3 25.9 | 1.362 | 2.185 | 18.2 | 21.7 |

**143070** 2002 $WB_{16}$ 10 24.2 20°.34 4°.0/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.43 | + 4 38.7 | 1.549 | 2.411 | 15.4 | 19.6 |
| 9 28 | 2 14.58 | + 3 45.8 | 1.490 | 2.415 | 11.6 | 19.4 |
| 10 8 | 2 8.41 | + 2 47.9 | 1.452 | 2.420 | 7.6 | 19.2 |
| 10 18 | 2 0.66 | + 1 51.4 | 1.440 | 2.426 | 4.3 | 19.0 |
| 10 28 | 1 52.38 | + 1 3.7 | 1.453 | 2.432 | 5.2 | 19.1 |
| 11 7 | 1 44.72 | + 0 31.1 | 1.493 | 2.439 | 8.9 | 19.3 |
| 11 17 | 1 38.67 | + 0 17.3 | 1.557 | 2.446 | 12.7 | 19.6 |
| 11 27 | 1 34.91 | + 0 23.8 | 1.643 | 2.454 | 16.1 | 19.8 |

**107515** 2001 $DZ_{53}$ 10 24.3 108°.71 2°.0/22.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.02 | + 9 17.4 | 1.668 | 2.505 | 15.6 | 20.4 |
| 9 28 | 2 20.02 | + 8 35.8 | 1.614 | 2.527 | 11.8 | 20.2 |
| 10 8 | 2 11.70 | + 7 45.7 | 1.583 | 2.548 | 7.4 | 20.0 |
| 10 18 | 2 1.88 | + 6 52.2 | 1.577 | 2.568 | 3.1 | 19.7 |
| 10 28 | 1 51.69 | + 6 1.5 | 1.601 | 2.588 | 3.2 | 19.8 |
| 11 7 | 1 42.30 | + 5 19.7 | 1.652 | 2.607 | 7.4 | 20.1 |
| 11 17 | 1 34.66 | + 4 51.5 | 1.730 | 2.625 | 11.3 | 20.4 |
| 11 27 | 1 29.43 | + 4 39.4 | 1.831 | 2.643 | 14.7 | 20.6 |

**2823** van der Laan 10 24.3 11°.45 1°.9/25.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.56 | +18 48.2 | 1.355 | 2.193 | 18.5 | 16.5 |
| 9 28 | 2 16.02 | +18 30.7 | 1.286 | 2.194 | 14.5 | 16.3 |
| 10 8 | 2 9.65 | +17 53.1 | 1.237 | 2.196 | 9.8 | 16.0 |
| 10 18 | 2 1.23 | +16 57.4 | 1.211 | 2.198 | 4.6 | 15.7 |
| 10 28 | 1 52.05 | +15 49.4 | 1.209 | 2.201 | 2.3 | 15.6 |
| 11 7 | 1 43.55 | +14 37.9 | 1.234 | 2.204 | 7.1 | 15.9 |
| 11 17 | 1 36.97 | +13 32.3 | 1.283 | 2.208 | 12.0 | 16.2 |
| 11 27 | 1 33.17 | +12 40.7 | 1.355 | 2.212 | 16.2 | 16.5 |

**67598** 2000 $SG_{141}$ 10 24.3 92°.92 3°.7/26.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 28.16 | +21 18.7 | 1.425 | 2.237 | 19.1 | 19.4 |
| 9 28 | 2 22.38 | +21 38.6 | 1.365 | 2.254 | 15.1 | 19.2 |
| 10 8 | 2 13.60 | +21 39.1 | 1.324 | 2.270 | 10.6 | 19.0 |
| 10 18 | 2 2.73 | +21 19.5 | 1.307 | 2.286 | 6.0 | 18.7 |
| 10 28 | 1 51.19 | +20 42.7 | 1.315 | 2.302 | 3.8 | 18.7 |
| 11 7 | 1 40.54 | +19 55.5 | 1.351 | 2.318 | 7.1 | 18.9 |
| 11 17 | 1 32.05 | +19 6.2 | 1.412 | 2.333 | 11.4 | 19.2 |
| 11 27 | 1 26.56 | +18 23.1 | 1.497 | 2.348 | 15.3 | 19.5 |

**320190** 2007 $GK_{51}$ 10 24.3 212°.84 1°.5/22.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.99 | + 9 24.4 | 2.337 | 3.171 | 11.8 | 21.5 |
| 9 28 | 2 13.61 | + 8 46.3 | 2.257 | 3.169 | 8.9 | 21.3 |
| 10 8 | 2 7.53 | + 8 1.2 | 2.202 | 3.166 | 5.6 | 21.1 |
| 10 18 | 2 0.30 | + 7 12.5 | 2.173 | 3.164 | 2.3 | 20.8 |
| 10 28 | 1 52.62 | + 6 24.7 | 2.174 | 3.161 | 2.5 | 20.9 |
| 11 7 | 1 45.31 | + 5 42.5 | 2.204 | 3.158 | 5.8 | 21.1 |
| 11 17 | 1 39.07 | + 5 9.8 | 2.262 | 3.155 | 9.1 | 21.3 |
| 11 27 | 1 34.48 | + 4 49.7 | 2.344 | 3.152 | 12.0 | 21.5 |

**144918** 2005 $BV_{26}$ 10 24.3 196°.42 3°.2/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.57 | + 6 35.0 | 1.833 | 2.673 | 14.3 | 20.9 |
| 9 28 | 2 18.27 | + 5 36.0 | 1.756 | 2.671 | 10.8 | 20.6 |
| 10 8 | 2 10.72 | + 4 29.5 | 1.703 | 2.668 | 7.0 | 20.4 |
| 10 18 | 2 1.59 | + 3 21.1 | 1.676 | 2.664 | 3.6 | 20.2 |
| 10 28 | 1 51.85 | + 2 17.6 | 1.678 | 2.659 | 4.3 | 20.2 |
| 11 7 | 1 42.62 | + 1 25.8 | 1.709 | 2.653 | 8.1 | 20.4 |
| 11 17 | 1 34.85 | + 0 50.7 | 1.766 | 2.647 | 11.9 | 20.7 |
| 11 27 | 1 29.28 | + 0 34.9 | 1.845 | 2.640 | 15.2 | 20.9 |

**124082** 2001 $GV_6$ 10 24.3 116°.46 0°.9/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.50 | + 8 24.3 | 2.438 | 3.258 | 11.8 | 19.4 |
| 9 28 | 2 18.39 | + 8 35.1 | 2.362 | 3.265 | 9.0 | 19.2 |
| 10 8 | 2 10.53 | + 8 42.1 | 2.311 | 3.272 | 5.7 | 19.0 |
| 10 18 | 2 1.45 | + 8 46.7 | 2.288 | 3.279 | 2.2 | 18.8 |
| 10 28 | 1 51.95 | + 8 51.3 | 2.296 | 3.285 | 1.8 | 18.8 |
| 11 7 | 1 42.85 | + 8 58.1 | 2.334 | 3.292 | 5.3 | 19.1 |
| 11 17 | 1 34.91 | + 9 9.4 | 2.401 | 3.298 | 8.5 | 19.3 |
| 11 27 | 1 28.72 | + 9 27.1 | 2.494 | 3.304 | 11.3 | 19.5 |

**67783** 2000 $UJ_{89}$ 10 24.3 36°.43 4°.2/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.92 | + 7 56.2 | 0.928 | 1.814 | 21.1 | 18.7 |
| 9 28 | 2 16.62 | + 6 46.2 | 0.895 | 1.834 | 15.8 | 18.4 |
| 10 8 | 2 10.02 | + 5 25.9 | 0.881 | 1.855 | 10.0 | 18.2 |
| 10 18 | 2 1.30 | + 4 5.5 | 0.887 | 1.877 | 4.8 | 18.0 |
| 10 28 | 1 52.15 | + 2 57.1 | 0.916 | 1.901 | 5.8 | 18.2 |
| 11 7 | 1 44.25 | + 2 10.3 | 0.968 | 1.925 | 10.8 | 18.5 |
| 11 17 | 1 38.82 | + 1 49.9 | 1.041 | 1.951 | 15.6 | 18.9 |
| 11 27 | 1 36.54 | + 1 56.3 | 1.132 | 1.976 | 19.7 | 19.2 |

**325768** 2010 $LV_{14}$ 10 24.3 34°.40 3°.9/21.2 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.97 | + 5 55.9 | 1.475 | 2.339 | 15.9 | 20.7 |
| 9 28 | 2 14.26 | + 4 49.4 | 1.424 | 2.351 | 11.9 | 20.4 |
| 10 8 | 2 8.20 | + 3 36.5 | 1.394 | 2.363 | 7.7 | 20.2 |
| 10 18 | 2 0.58 | + 2 24.3 | 1.389 | 2.376 | 4.2 | 20.1 |
| 10 28 | 1 52.52 | + 1 21.3 | 1.410 | 2.390 | 5.2 | 20.2 |
| 11 7 | 1 45.17 | + 0 34.5 | 1.458 | 2.404 | 9.0 | 20.4 |
| 11 17 | 1 39.49 | + 0 8.3 | 1.529 | 2.419 | 12.8 | 20.7 |
| 11 27 | 1 36.14 | + 0 4.0 | 1.622 | 2.435 | 16.2 | 21.0 |

**90417** 2003 $YF_{137}$ 10 24.3 34°.70 4°.9/21.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.89 | + 4 52.2 | 1.019 | 1.901 | 19.9 | 18.2 |
| 9 28 | 2 17.19 | + 3 56.3 | 0.982 | 1.918 | 15.0 | 18.0 |
| 10 8 | 2 10.34 | + 2 55.1 | 0.963 | 1.935 | 9.7 | 17.8 |
| 10 18 | 2 1.44 | + 1 57.4 | 0.966 | 1.954 | 5.4 | 17.6 |
| 10 28 | 1 52.06 | + 1 13.3 | 0.993 | 1.974 | 6.3 | 17.7 |
| 11 7 | 1 43.81 | + 0 50.0 | 1.043 | 1.995 | 10.9 | 18.1 |
| 11 17 | 1 37.91 | + 0 50.8 | 1.114 | 2.017 | 15.4 | 18.4 |
| 11 27 | 1 35.07 | + 1 15.4 | 1.204 | 2.039 | 19.3 | 18.7 |

**300738** 2007 $VP_{155}$ 10 24.3 53°.36 0°.8/24.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.58 | +14 47.9 | 1.760 | 2.588 | 15.3 | 20.9 |
| 9 28 | 2 17.66 | +14 49.3 | 1.688 | 2.592 | 11.8 | 20.7 |
| 10 8 | 2 10.40 | +14 39.3 | 1.637 | 2.597 | 7.8 | 20.5 |
| 10 18 | 2 1.49 | +14 19.5 | 1.612 | 2.602 | 3.3 | 20.2 |
| 10 28 | 1 51.97 | +13 53.2 | 1.615 | 2.607 | 1.7 | 20.1 |
| 11 7 | 1 42.99 | +13 25.5 | 1.645 | 2.612 | 6.1 | 20.4 |
| 11 17 | 1 35.57 | +13 1.5 | 1.703 | 2.617 | 10.2 | 20.7 |
| 11 27 | 1 30.45 | +12 46.0 | 1.784 | 2.622 | 13.8 | 20.9 |

**510079** 2010 $KZ_{36}$ 10 24.3 111°.14 5°.8/20.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.20 | − 4 23.0 | 1.980 | 2.819 | 13.4 | 21.3 |
| 9 28 | 2 19.11 | − 4 57.5 | 1.925 | 2.832 | 10.5 | 21.1 |
| 10 8 | 2 11.03 | − 5 27.6 | 1.893 | 2.844 | 7.6 | 21.0 |
| 10 18 | 2 1.65 | − 5 48.1 | 1.888 | 2.856 | 5.9 | 20.9 |
| 10 28 | 1 51.92 | − 5 54.2 | 1.911 | 2.867 | 6.6 | 21.0 |
| 11 7 | 1 42.82 | − 5 43.1 | 1.962 | 2.878 | 9.1 | 21.2 |
| 11 17 | 1 35.18 | − 5 14.3 | 2.039 | 2.889 | 11.9 | 21.4 |
| 11 27 | 1 29.61 | − 4 29.0 | 2.138 | 2.900 | 14.5 | 21.6 |

**457931** 2009 $UV_{123}$ 10 24.3 16°.14 4°.3/20.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.02 | − 0 28.6 | 2.083 | 2.928 | 12.6 | 20.8 |
| 9 28 | 2 16.01 | − 0 52.7 | 2.016 | 2.930 | 9.7 | 20.6 |
| 10 8 | 2 9.11 | − 1 15.8 | 1.972 | 2.932 | 6.7 | 20.4 |
| 10 18 | 2 0.94 | − 1 33.4 | 1.955 | 2.934 | 4.5 | 20.3 |
| 10 28 | 1 52.33 | − 1 41.3 | 1.966 | 2.936 | 5.2 | 20.3 |
| 11 7 | 1 44.19 | − 1 36.2 | 2.005 | 2.938 | 7.9 | 20.5 |
| 11 17 | 1 37.31 | − 1 16.7 | 2.071 | 2.941 | 10.9 | 20.7 |
| 11 27 | 1 32.30 | − 0 42.5 | 2.159 | 2.944 | 13.6 | 20.9 |

**428645** 2008 $GD_{7}$ 10 24.3 150°.65 1°.2/23.3 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.61 | +10 45.6 | 1.984 | 2.810 | 13.9 | 22.6 |
| 9 28 | 2 18.81 | +10 11.2 | 1.914 | 2.821 | 10.5 | 22.4 |
| 10 8 | 2 10.93 | + 9 28.0 | 1.868 | 2.830 | 6.7 | 22.2 |
| 10 18 | 2 1.66 | + 8 39.6 | 1.848 | 2.839 | 2.6 | 22.0 |
| 10 28 | 1 51.93 | + 7 51.0 | 1.858 | 2.847 | 2.4 | 22.0 |
| 11 7 | 1 42.76 | + 7 7.8 | 1.898 | 2.855 | 6.4 | 22.3 |
| 11 17 | 1 35.03 | + 6 34.5 | 1.965 | 2.861 | 10.1 | 22.5 |
| 11 27 | 1 29.39 | + 6 14.5 | 2.057 | 2.867 | 13.3 | 22.7 |

**404780** 2014 $JW_{49}$ 10 24.3 133°.98 4°.9/19.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.48 | − 2 49.2 | 2.519 | 3.357 | 11.0 | 22.1 |
| 9 28 | 2 15.18 | − 3 49.1 | 2.464 | 3.371 | 8.5 | 22.0 |
| 10 8 | 2 8.38 | − 4 47.1 | 2.435 | 3.386 | 6.1 | 21.9 |
| 10 18 | 2 0.60 | − 5 38.2 | 2.433 | 3.399 | 4.9 | 21.8 |
| 10 28 | 1 52.56 | − 6 17.8 | 2.461 | 3.412 | 5.7 | 21.9 |
| 11 7 | 1 44.98 | − 6 42.4 | 2.518 | 3.425 | 7.8 | 22.0 |
| 11 17 | 1 38.47 | − 6 50.3 | 2.601 | 3.437 | 10.1 | 22.2 |
| 11 27 | 1 33.54 | − 6 41.6 | 2.707 | 3.448 | 12.2 | 22.4 |

**460190** 2014 $QL_{130}$ 10 24.3 27°.18 4°.3/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.93 | + 2 57.5 | 1.972 | 2.828 | 12.8 | 20.9 |
| 9 28 | 2 12.24 | + 1 44.7 | 1.911 | 2.833 | 9.7 | 20.7 |
| 10 8 | 2 6.74 | + 0 28.5 | 1.874 | 2.839 | 6.5 | 20.5 |
| 10 18 | 2 0.02 | − 0 44.8 | 1.864 | 2.845 | 4.3 | 20.4 |
| 10 28 | 1 52.91 | − 1 48.4 | 1.881 | 2.851 | 5.3 | 20.5 |
| 11 7 | 1 46.27 | − 2 36.7 | 1.926 | 2.858 | 8.2 | 20.7 |
| 11 17 | 1 40.86 | − 3 6.2 | 1.996 | 2.865 | 11.3 | 20.9 |
| 11 27 | 1 37.26 | − 3 15.7 | 2.088 | 2.872 | 14.1 | 21.1 |

**411460** 2010 $XC_{14}$ 10 24.3 270°.84 6°.4/18.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.67 | − 7 38.4 | 2.295 | 3.134 | 11.8 | 20.5 |
| 9 28 | 2 15.63 | − 8 21.8 | 2.226 | 3.127 | 9.5 | 20.3 |
| 10 8 | 2 8.84 | − 8 59.9 | 2.180 | 3.121 | 7.4 | 20.2 |
| 10 18 | 2 0.85 | − 9 27.2 | 2.162 | 3.115 | 6.4 | 20.1 |
| 10 28 | 1 52.42 | − 9 39.2 | 2.170 | 3.109 | 7.2 | 20.2 |
| 11 7 | 1 44.40 | − 9 32.7 | 2.207 | 3.102 | 9.3 | 20.3 |
| 11 17 | 1 37.52 | − 9 7.1 | 2.268 | 3.096 | 11.7 | 20.4 |
| 11 27 | 1 32.38 | − 8 23.3 | 2.351 | 3.090 | 14.0 | 20.6 |

**396590** 2001 $FS_{112}$ 10 24.3 224°.88 1°.0/23.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.25 | +10 25.0 | 2.142 | 2.970 | 13.0 | 21.6 |
| 9 28 | 2 17.09 | +10 3.0 | 2.054 | 2.961 | 9.9 | 21.4 |
| 10 8 | 2 9.93 | + 9 33.2 | 1.989 | 2.952 | 6.3 | 21.1 |
| 10 18 | 2 1.33 | + 8 58.3 | 1.952 | 2.943 | 2.5 | 20.9 |
| 10 28 | 1 52.12 | + 8 22.4 | 1.944 | 2.933 | 2.2 | 20.8 |
| 11 7 | 1 43.27 | + 7 50.3 | 1.965 | 2.923 | 6.1 | 21.1 |
| 11 17 | 1 35.63 | + 7 26.0 | 2.014 | 2.912 | 9.8 | 21.3 |
| 11 27 | 1 29.92 | + 7 13.1 | 2.087 | 2.901 | 13.0 | 21.5 |

**361636** 2007 $TP_{212}$ 10 24.3 322°.38 3°.3/26.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.08 | +22 12.0 | 1.412 | 2.244 | 18.2 | 20.9 |
| 9 28 | 2 13.01 | +21 59.7 | 1.309 | 2.210 | 14.8 | 20.6 |
| 10 8 | 2 8.08 | +21 23.1 | 1.225 | 2.178 | 10.6 | 20.3 |
| 10 18 | 2 0.83 | +20 21.3 | 1.162 | 2.145 | 5.9 | 20.0 |
| 10 28 | 1 52.34 | +18 57.6 | 1.124 | 2.114 | 3.4 | 19.7 |
| 11 7 | 1 44.06 | +17 20.3 | 1.112 | 2.083 | 7.4 | 19.9 |
| 11 17 | 1 37.43 | +15 41.1 | 1.123 | 2.054 | 12.6 | 20.1 |
| 11 27 | 1 33.61 | +14 12.3 | 1.156 | 2.025 | 17.5 | 20.3 |

**38206** 1999 $ML_{1}$ 10 24.3 46°.80 9°.8/ 1.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.79 | +36 4.4 | 1.345 | 2.100 | 22.8 | 17.1 |
| 9 28 | 2 22.46 | +36 54.6 | 1.305 | 2.134 | 19.4 | 17.0 |
| 10 8 | 2 13.74 | +37 11.4 | 1.280 | 2.169 | 15.8 | 16.9 |
| 10 18 | 2 2.80 | +36 50.6 | 1.275 | 2.204 | 12.3 | 16.8 |
| 10 28 | 1 51.36 | +35 53.5 | 1.292 | 2.239 | 10.1 | 16.8 |
| 11 7 | 1 41.20 | +34 28.4 | 1.333 | 2.275 | 10.1 | 16.9 |
| 11 17 | 1 33.64 | +32 47.7 | 1.398 | 2.311 | 12.1 | 17.1 |
| 11 27 | 1 29.44 | +31 5.2 | 1.486 | 2.347 | 14.9 | 17.3 |

**484003** 2006 $DS_{11}$ 10 24.3 228°.88 0°.6/23.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.19 | +12 0.0 | 2.544 | 3.367 | 11.3 | 22.3 |
| 9 28 | 2 13.70 | +11 31.3 | 2.455 | 3.360 | 8.6 | 22.1 |
| 10 8 | 2 7.60 | +10 54.6 | 2.391 | 3.353 | 5.5 | 21.9 |
| 10 18 | 2 0.38 | +10 12.4 | 2.354 | 3.345 | 2.1 | 21.6 |
| 10 28 | 1 52.70 | + 9 28.4 | 2.347 | 3.337 | 1.7 | 21.6 |
| 11 7 | 1 45.33 | + 8 46.9 | 2.370 | 3.329 | 5.1 | 21.8 |
| 11 17 | 1 38.93 | + 8 11.7 | 2.421 | 3.320 | 8.3 | 22.0 |
| 11 27 | 1 34.08 | + 7 46.3 | 2.497 | 3.312 | 11.1 | 22.2 |

**203701** 2002 $PE_{20}$ 10 24.3 66°.28 0°.2/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.29 | +14 46.0 | 1.685 | 2.518 | 15.7 | 20.4 |
| 9 28 | 2 16.62 | +14 20.5 | 1.624 | 2.533 | 12.0 | 20.2 |
| 10 8 | 2 9.67 | +13 42.0 | 1.586 | 2.548 | 7.7 | 20.0 |
| 10 18 | 2 1.19 | +12 53.8 | 1.572 | 2.563 | 3.1 | 19.7 |
| 10 28 | 1 52.26 | +12 1.2 | 1.587 | 2.578 | 1.7 | 19.7 |
| 11 7 | 1 44.01 | +11 10.7 | 1.629 | 2.594 | 6.3 | 20.0 |
| 11 17 | 1 37.37 | +10 28.2 | 1.697 | 2.609 | 10.4 | 20.3 |
| 11 27 | 1 33.02 | + 9 58.4 | 1.789 | 2.625 | 13.9 | 20.6 |

**327605** 2006 $EK_{19}$ 10 24.3 338°.39 1°.9/22.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.05 | + 9 19.0 | 2.163 | 3.004 | 12.4 | 20.7 |
| 9 28 | 2 12.29 | + 8 25.5 | 2.086 | 3.001 | 9.3 | 20.5 |
| 10 8 | 2 6.78 | + 7 23.9 | 2.032 | 2.999 | 5.9 | 20.3 |
| 10 18 | 2 0.06 | + 6 18.6 | 2.006 | 2.996 | 2.6 | 20.1 |
| 10 28 | 1 52.90 | + 5 14.9 | 2.008 | 2.994 | 2.9 | 20.1 |
| 11 7 | 1 46.13 | + 4 18.7 | 2.040 | 2.992 | 6.4 | 20.3 |
| 11 17 | 1 40.47 | + 3 34.6 | 2.098 | 2.990 | 9.8 | 20.5 |
| 11 27 | 1 36.52 | + 3 5.8 | 2.180 | 2.988 | 12.7 | 20.7 |

**458033** 2009 $WS_{199}$ 10 24.3 304°.43 2°.7/21.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.15 | + 5 48.6 | 2.162 | 3.007 | 12.2 | 21.4 |
| 9 28 | 2 13.21 | + 5 7.8 | 2.075 | 2.992 | 9.3 | 21.2 |
| 10 8 | 2 7.44 | + 4 21.7 | 2.011 | 2.977 | 6.0 | 21.0 |
| 10 18 | 2 0.36 | + 3 34.6 | 1.974 | 2.962 | 3.1 | 20.7 |
| 10 28 | 1 52.72 | + 2 51.4 | 1.966 | 2.947 | 3.7 | 20.8 |
| 11 7 | 1 45.38 | + 2 17.2 | 1.986 | 2.933 | 7.0 | 20.9 |
| 11 17 | 1 39.14 | + 1 55.7 | 2.033 | 2.919 | 10.3 | 21.1 |
| 11 27 | 1 34.65 | + 1 49.6 | 2.103 | 2.904 | 13.4 | 21.3 |

**270774** 2002 $RZ_{165}$ 10 24.3 348°.86 4°.0/21.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 11.52 | + 8 56.1 | 0.975 | 1.868 | 19.6 | 19.7 |
| 9 28 | 2 10.65 | + 7 44.3 | 0.913 | 1.856 | 14.9 | 19.4 |
| 10 8 | 2 6.62 | + 6 15.5 | 0.869 | 1.846 | 9.6 | 19.1 |
| 10 18 | 2 0.21 | + 4 39.2 | 0.846 | 1.837 | 4.7 | 18.8 |
| 10 28 | 1 52.81 | + 3 8.7 | 0.845 | 1.830 | 5.8 | 18.8 |
| 11 7 | 1 46.10 | + 1 57.5 | 0.866 | 1.825 | 11.3 | 19.1 |
| 11 17 | 1 41.50 | + 1 14.6 | 0.906 | 1.822 | 16.7 | 19.4 |
| 11 27 | 1 39.99 | + 1 4.0 | 0.965 | 1.821 | 21.3 | 19.7 |

**521524** 2015 $OP_{98}$ 10 24.3 91°.96 3°.4/21.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.00 | + 4 39.0 | 1.917 | 2.762 | 13.6 | 21.4 |
| 9 28 | 2 16.05 | + 3 51.7 | 1.859 | 2.776 | 10.2 | 21.2 |
| 10 8 | 2 9.15 | + 3 0.7 | 1.825 | 2.790 | 6.6 | 21.0 |
| 10 18 | 2 0.97 | + 2 11.0 | 1.817 | 2.803 | 3.7 | 20.9 |
| 10 28 | 1 52.41 | + 1 28.4 | 1.838 | 2.816 | 4.3 | 21.0 |
| 11 7 | 1 44.43 | + 0 57.8 | 1.886 | 2.829 | 7.6 | 21.2 |
| 11 17 | 1 37.85 | + 0 42.3 | 1.961 | 2.842 | 10.9 | 21.4 |
| 11 27 | 1 33.26 | + 0 43.4 | 2.059 | 2.855 | 13.8 | 21.6 |

**225082** 2007 $JL_{28}$ 10 24.3 95°.16 0°.7/23.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.80 | +11 36.7 | 2.362 | 3.188 | 12.0 | 20.8 |
| 9 28 | 2 14.12 | +11 8.2 | 2.294 | 3.200 | 9.0 | 20.6 |
| 10 8 | 2 7.82 | +10 32.1 | 2.250 | 3.213 | 5.7 | 20.5 |
| 10 18 | 2 0.44 | + 9 51.2 | 2.234 | 3.225 | 2.2 | 20.2 |
| 10 28 | 1 52.71 | + 9 9.5 | 2.247 | 3.237 | 1.8 | 20.2 |
| 11 7 | 1 45.42 | + 8 31.3 | 2.290 | 3.249 | 5.2 | 20.5 |
| 11 17 | 1 39.25 | + 8 0.4 | 2.361 | 3.261 | 8.4 | 20.7 |
| 11 27 | 1 34.73 | + 7 39.8 | 2.456 | 3.273 | 11.2 | 20.9 |

**269823** 1999 $XW_{254}$ 10 24.3 336°.58 4°.7/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.88 | + 0 46.3 | 1.860 | 2.716 | 13.4 | 20.0 |
| 9 28 | 2 13.96 | + 0 1.2 | 1.787 | 2.708 | 10.3 | 19.8 |
| 10 8 | 2 7.99 | − 0 45.2 | 1.737 | 2.700 | 7.1 | 19.6 |
| 10 18 | 2 0.58 | − 1 27.2 | 1.713 | 2.692 | 4.8 | 19.4 |
| 10 28 | 1 52.61 | − 1 58.7 | 1.715 | 2.685 | 5.7 | 19.5 |
| 11 7 | 1 45.06 | − 2 14.9 | 1.744 | 2.679 | 8.8 | 19.6 |
| 11 17 | 1 38.82 | − 2 13.1 | 1.799 | 2.673 | 12.1 | 19.8 |
| 11 27 | 1 34.56 | − 1 52.5 | 1.875 | 2.667 | 15.1 | 20.0 |

**173182** 1998 $FY$ 10 24.3 79°.75 1°.6/23.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.60 | +10 8.8 | 1.393 | 2.240 | 17.6 | 20.4 |
| 9 28 | 2 20.19 | + 9 41.1 | 1.341 | 2.258 | 13.3 | 20.2 |
| 10 8 | 2 12.07 | + 9 3.4 | 1.309 | 2.276 | 8.4 | 20.0 |
| 10 18 | 2 2.15 | + 8 20.4 | 1.303 | 2.294 | 3.3 | 19.7 |
| 10 28 | 1 51.75 | + 7 38.4 | 1.322 | 2.312 | 3.0 | 19.7 |
| 11 7 | 1 42.24 | + 7 4.4 | 1.369 | 2.329 | 7.9 | 20.1 |
| 11 17 | 1 34.75 | + 6 43.3 | 1.441 | 2.347 | 12.4 | 20.4 |
| 11 27 | 1 30.00 | + 6 38.5 | 1.534 | 2.364 | 16.1 | 20.7 |

**76944** 2001 $BH_{15}$ 10 24.3 121°.75 4°.5/27.5 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.57 | +23 49.1 | 1.596 | 2.394 | 18.0 | 19.5 |
| 9 28 | 2 21.13 | +24 11.9 | 1.525 | 2.402 | 14.5 | 19.3 |
| 10 8 | 2 12.86 | +24 15.1 | 1.473 | 2.410 | 10.6 | 19.1 |
| 10 18 | 2 2.55 | +23 57.1 | 1.445 | 2.418 | 6.6 | 18.9 |
| 10 28 | 1 51.47 | +23 19.9 | 1.443 | 2.425 | 4.5 | 18.8 |
| 11 7 | 1 41.07 | +22 29.1 | 1.468 | 2.432 | 6.9 | 19.0 |
| 11 17 | 1 32.58 | +21 32.9 | 1.520 | 2.439 | 10.8 | 19.2 |
| 11 27 | 1 26.88 | +20 40.1 | 1.595 | 2.446 | 14.5 | 19.5 |

**76317** 2000 $EZ_{140}$ 10 24.3 128°.15 0°.5/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.73 | +11 21.2 | 2.212 | 3.033 | 12.9 | 19.9 |
| 9 28 | 2 17.97 | +11 12.3 | 2.142 | 3.045 | 9.8 | 19.7 |
| 10 8 | 2 10.34 | +10 56.1 | 2.096 | 3.057 | 6.2 | 19.5 |
| 10 18 | 2 1.45 | +10 34.9 | 2.078 | 3.068 | 2.4 | 19.3 |
| 10 28 | 1 52.15 | +10 11.8 | 2.089 | 3.079 | 1.7 | 19.3 |
| 11 7 | 1 43.33 | + 9 50.8 | 2.129 | 3.090 | 5.5 | 19.5 |
| 11 17 | 1 35.80 | + 9 35.5 | 2.199 | 3.100 | 8.9 | 19.8 |
| 11 27 | 1 30.16 | + 9 28.8 | 2.293 | 3.110 | 11.9 | 20.0 |

**380417** 2003 $BN_{6}$ 10 24.3 291°.39 7°.8/18.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.81 | − 2 46.3 | 1.497 | 2.362 | 15.6 | 20.9 |
| 9 28 | 2 16.04 | − 4 17.3 | 1.421 | 2.343 | 12.4 | 20.6 |
| 10 8 | 2 9.66 | − 5 49.9 | 1.367 | 2.323 | 9.3 | 20.4 |
| 10 18 | 2 1.34 | − 7 14.3 | 1.337 | 2.304 | 7.8 | 20.3 |
| 10 28 | 1 52.16 | − 8 19.7 | 1.333 | 2.285 | 9.3 | 20.3 |
| 11 7 | 1 43.42 | − 8 58.1 | 1.353 | 2.266 | 12.6 | 20.5 |
| 11 17 | 1 36.28 | − 9 5.8 | 1.395 | 2.247 | 16.3 | 20.7 |
| 11 27 | 1 31.64 | − 8 43.0 | 1.456 | 2.228 | 19.6 | 20.8 |

**68286** 2001 $FP_{22}$ 10 24.3 7°.87 2°.8/21.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.60 | + 7 30.7 | 2.137 | 2.983 | 12.3 | 18.1 |
| 9 28 | 2 11.93 | + 6 18.4 | 2.065 | 2.983 | 9.3 | 17.9 |
| 10 8 | 2 6.54 | + 4 58.7 | 2.017 | 2.984 | 5.9 | 17.7 |
| 10 18 | 1 59.98 | + 3 37.0 | 1.997 | 2.985 | 3.1 | 17.5 |
| 10 28 | 1 53.01 | + 2 19.8 | 2.006 | 2.986 | 3.8 | 17.5 |
| 11 7 | 1 46.45 | + 1 13.4 | 2.043 | 2.987 | 7.0 | 17.7 |
| 11 17 | 1 41.01 | + 0 22.3 | 2.107 | 2.988 | 10.2 | 18.0 |
| 11 27 | 1 37.27 | − 0 10.7 | 2.194 | 2.989 | 13.1 | 18.1 |

**373191** 2012 $DD_{71}$ 10 24.3 163°.68 1°.3/25.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.09 | +18 22.5 | 1.650 | 2.468 | 16.6 | 22.0 |
| 9 28 | 2 19.00 | +17 52.1 | 1.575 | 2.473 | 12.9 | 21.8 |
| 10 8 | 2 11.37 | +17 4.0 | 1.521 | 2.477 | 8.6 | 21.6 |
| 10 18 | 2 1.94 | +16 0.4 | 1.492 | 2.480 | 3.9 | 21.3 |
| 10 28 | 1 51.87 | +14 46.9 | 1.491 | 2.483 | 1.9 | 21.2 |
| 11 7 | 1 42.42 | +13 31.4 | 1.518 | 2.485 | 6.4 | 21.5 |
| 11 17 | 1 34.70 | +12 22.2 | 1.572 | 2.487 | 10.9 | 21.7 |
| 11 27 | 1 29.48 | +11 26.2 | 1.650 | 2.488 | 14.8 | 22.0 |

**300467** 2007 $TW_{98}$ 10 24.3 242°.49 0°.5/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.00 | +11 54.8 | 1.933 | 2.764 | 14.1 | 21.4 |
| 9 28 | 2 17.11 | +11 40.4 | 1.850 | 2.758 | 10.8 | 21.2 |
| 10 8 | 2 10.05 | +11 16.8 | 1.789 | 2.752 | 6.9 | 21.0 |
| 10 18 | 2 1.43 | +10 46.5 | 1.755 | 2.746 | 2.7 | 20.7 |
| 10 28 | 1 52.15 | +10 13.4 | 1.748 | 2.739 | 1.9 | 20.6 |
| 11 7 | 1 43.28 | + 9 42.6 | 1.771 | 2.733 | 6.2 | 20.9 |
| 11 17 | 1 35.76 | + 9 18.7 | 1.820 | 2.726 | 10.2 | 21.1 |
| 11 27 | 1 30.35 | + 9 5.7 | 1.894 | 2.719 | 13.7 | 21.3 |

**293466** 2007 $ES_{209}$ 10 24.3 143°.31 1°.4/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.27 | + 7 56.6 | 2.300 | 3.130 | 12.1 | 20.1 |
| 9 28 | 2 16.12 | + 7 48.0 | 2.222 | 3.131 | 9.2 | 19.9 |
| 10 8 | 2 9.19 | + 7 34.8 | 2.169 | 3.132 | 5.8 | 19.7 |
| 10 18 | 2 1.03 | + 7 19.4 | 2.143 | 3.133 | 2.4 | 19.5 |
| 10 28 | 1 52.40 | + 7 5.3 | 2.146 | 3.134 | 2.3 | 19.5 |
| 11 7 | 1 44.16 | + 6 55.6 | 2.179 | 3.135 | 5.7 | 19.7 |
| 11 17 | 1 37.06 | + 6 53.3 | 2.240 | 3.136 | 9.1 | 19.9 |
| 11 27 | 1 31.72 | + 7 0.5 | 2.326 | 3.137 | 11.9 | 20.1 |

**127280** 2002 $JK_{67}$ 10 24.3 169°.69 2°.5/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.36 | + 6 22.1 | 2.368 | 3.200 | 11.8 | 19.8 |
| 9 28 | 2 16.08 | + 5 33.6 | 2.294 | 3.205 | 8.9 | 19.6 |
| 10 8 | 2 9.10 | + 4 40.2 | 2.245 | 3.209 | 5.7 | 19.4 |
| 10 18 | 2 0.98 | + 3 45.8 | 2.225 | 3.212 | 2.9 | 19.3 |
| 10 28 | 1 52.46 | + 2 55.3 | 2.234 | 3.215 | 3.4 | 19.3 |
| 11 7 | 1 44.36 | + 2 13.6 | 2.273 | 3.217 | 6.4 | 19.5 |
| 11 17 | 1 37.38 | + 1 43.9 | 2.340 | 3.218 | 9.5 | 19.7 |
| 11 27 | 1 32.11 | + 1 28.6 | 2.431 | 3.218 | 12.2 | 19.9 |

**294259** 2007 $US_{81}$ 10 24.3 101°.41 2°.0/22.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.24 | +11 16.2 | 1.819 | 2.661 | 14.3 | 21.2 |
| 9 28 | 2 14.21 | + 9 58.7 | 1.749 | 2.665 | 10.8 | 21.0 |
| 10 8 | 2 8.12 | + 8 29.1 | 1.703 | 2.669 | 6.8 | 20.8 |
| 10 18 | 2 0.63 | + 6 53.2 | 1.683 | 2.673 | 2.8 | 20.6 |
| 10 28 | 1 52.67 | + 5 19.0 | 1.691 | 2.677 | 3.3 | 20.6 |
| 11 7 | 1 45.24 | + 3 54.6 | 1.728 | 2.681 | 7.3 | 20.9 |
| 11 17 | 1 39.20 | + 2 46.6 | 1.792 | 2.685 | 11.1 | 21.1 |
| 11 27 | 1 35.20 | + 1 58.9 | 1.879 | 2.689 | 14.4 | 21.3 |

**262192** 2006 $SR_{151}$ 10 24.3 233°.24 0°.3/24.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.16 | +15 23.5 | 1.703 | 2.530 | 15.8 | 21.2 |
| 9 28 | 2 18.37 | +14 57.2 | 1.616 | 2.521 | 12.3 | 21.0 |
| 10 8 | 2 11.06 | +14 16.3 | 1.551 | 2.511 | 8.0 | 20.7 |
| 10 18 | 2 1.88 | +13 23.0 | 1.511 | 2.501 | 3.3 | 20.4 |
| 10 28 | 1 51.89 | +12 22.4 | 1.499 | 2.491 | 1.8 | 20.3 |
| 11 7 | 1 42.35 | +11 21.6 | 1.515 | 2.480 | 6.7 | 20.6 |
| 11 17 | 1 34.37 | +10 27.7 | 1.557 | 2.468 | 11.2 | 20.8 |
| 11 27 | 1 28.82 | + 9 47.2 | 1.623 | 2.456 | 15.2 | 21.0 |

**261014** 2005 $SQ_{110}$ 10 24.3 311°.64 0°.3/24.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.56 | +14 16.5 | 2.006 | 2.833 | 13.8 | 21.2 |
| 9 28 | 2 15.19 | +14 1.6 | 1.924 | 2.829 | 10.6 | 21.0 |
| 10 8 | 2 8.78 | +13 36.1 | 1.865 | 2.826 | 6.9 | 20.7 |
| 10 18 | 2 0.92 | +13 1.9 | 1.832 | 2.822 | 2.8 | 20.5 |
| 10 28 | 1 52.49 | +12 22.9 | 1.826 | 2.818 | 1.5 | 20.4 |
| 11 7 | 1 44.45 | +11 44.2 | 1.850 | 2.815 | 5.7 | 20.6 |
| 11 17 | 1 37.69 | +11 10.6 | 1.900 | 2.811 | 9.5 | 20.9 |
| 11 27 | 1 32.91 | +10 46.8 | 1.975 | 2.808 | 12.9 | 21.1 |

**350312** 2012 $UW_{52}$ 10 24.3 15°.28 3°.9/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.29 | + 7 12.0 | 1.169 | 2.048 | 18.2 | 19.3 |
| 9 28 | 2 13.62 | + 6 9.1 | 1.118 | 2.053 | 13.7 | 19.1 |
| 10 8 | 2 8.14 | + 4 56.5 | 1.087 | 2.059 | 8.7 | 18.8 |
| 10 18 | 2 0.71 | + 3 42.6 | 1.078 | 2.067 | 4.5 | 18.6 |
| 10 28 | 1 52.66 | + 2 37.4 | 1.093 | 2.077 | 5.4 | 18.7 |
| 11 7 | 1 45.42 | + 1 50.0 | 1.132 | 2.087 | 9.9 | 19.0 |
| 11 17 | 1 40.14 | + 1 25.7 | 1.194 | 2.099 | 14.5 | 19.3 |
| 11 27 | 1 37.58 | + 1 26.4 | 1.275 | 2.111 | 18.4 | 19.6 |

**354445** 2003 $YG_{129}$ 10 24.3 306°.35 9°.1/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.20 | − 9 19.5 | 1.655 | 2.506 | 15.1 | 20.1 |
| 9 28 | 2 17.67 | −10 20.3 | 1.577 | 2.483 | 12.4 | 19.9 |
| 10 8 | 2 10.63 | −11 14.2 | 1.521 | 2.461 | 10.1 | 19.7 |
| 10 18 | 2 1.73 | −11 52.6 | 1.489 | 2.438 | 9.1 | 19.6 |
| 10 28 | 1 52.00 | −12 7.3 | 1.482 | 2.416 | 10.2 | 19.6 |
| 11 7 | 1 42.68 | −11 53.5 | 1.499 | 2.394 | 12.9 | 19.7 |
| 11 17 | 1 34.88 | −11 10.4 | 1.539 | 2.373 | 16.0 | 19.9 |
| 11 27 | 1 29.48 | −10 0.5 | 1.598 | 2.352 | 18.9 | 20.0 |

**307663** 2003 $SG_{260}$ 10 24.3 63°.45 3°.8/27.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.29 | +24 45.0 | 2.215 | 2.996 | 14.1 | 20.2 |
| 9 28 | 2 15.63 | +24 56.3 | 2.137 | 3.003 | 11.4 | 20.0 |
| 10 8 | 2 9.00 | +24 51.9 | 2.080 | 3.010 | 8.4 | 19.9 |
| 10 18 | 2 0.99 | +24 31.4 | 2.049 | 3.017 | 5.4 | 19.7 |
| 10 28 | 1 52.47 | +23 56.5 | 2.045 | 3.025 | 3.8 | 19.6 |
| 11 7 | 1 44.38 | +23 11.4 | 2.069 | 3.032 | 5.4 | 19.7 |
| 11 17 | 1 37.57 | +22 21.6 | 2.122 | 3.039 | 8.3 | 19.9 |
| 11 27 | 1 32.70 | +21 33.3 | 2.200 | 3.047 | 11.2 | 20.1 |

**405275** 2003 $SR_{338}$ 10 24.3 150°.12 0°.0/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.91 | +12 19.8 | 2.440 | 3.258 | 11.9 | 20.9 |
| 9 28 | 2 15.79 | +12 17.4 | 2.359 | 3.261 | 9.1 | 20.7 |
| 10 8 | 2 8.97 | +12 8.1 | 2.303 | 3.263 | 5.8 | 20.5 |
| 10 18 | 2 0.96 | +11 53.3 | 2.274 | 3.265 | 2.3 | 20.3 |
| 10 28 | 1 52.50 | +11 35.8 | 2.275 | 3.267 | 1.4 | 20.2 |
| 11 7 | 1 44.39 | +11 18.8 | 2.306 | 3.269 | 4.9 | 20.5 |
| 11 17 | 1 37.37 | +11 5.7 | 2.366 | 3.270 | 8.2 | 20.7 |
| 11 27 | 1 32.03 | +10 59.5 | 2.451 | 3.272 | 11.1 | 20.9 |

**368509** 2003 $UQ_{199}$ 10 24.3 37°.97 2°.0/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.63 | +11 23.9 | 1.030 | 1.903 | 20.5 | 19.8 |
| 9 28 | 2 17.12 | +10 35.4 | 0.988 | 1.919 | 15.4 | 19.5 |
| 10 8 | 2 10.42 | + 9 32.2 | 0.964 | 1.936 | 9.7 | 19.3 |
| 10 18 | 2 1.58 | + 8 21.5 | 0.962 | 1.954 | 3.8 | 19.0 |
| 10 28 | 1 52.21 | + 7 13.5 | 0.984 | 1.973 | 3.7 | 19.1 |
| 11 7 | 1 43.93 | + 6 18.4 | 1.029 | 1.993 | 9.2 | 19.5 |
| 11 17 | 1 38.01 | + 5 43.1 | 1.097 | 2.013 | 14.3 | 19.8 |
| 11 27 | 1 35.18 | + 5 30.9 | 1.184 | 2.034 | 18.6 | 20.2 |

**222062** 1998 $XC_{6}$ 10 24.3 310°.12 8°.1/19.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.32 | − 4 44.7 | 1.347 | 2.210 | 17.2 | 19.8 |
| 9 28 | 2 19.89 | − 5 26.4 | 1.267 | 2.186 | 13.7 | 19.5 |
| 10 8 | 2 12.40 | − 6 3.8 | 1.207 | 2.163 | 10.3 | 19.2 |
| 10 18 | 2 2.53 | − 6 28.2 | 1.170 | 2.140 | 8.2 | 19.1 |
| 10 28 | 1 51.52 | − 6 30.8 | 1.157 | 2.118 | 9.3 | 19.1 |
| 11 7 | 1 40.93 | − 6 6.1 | 1.169 | 2.096 | 12.8 | 19.2 |
| 11 17 | 1 32.20 | − 5 12.9 | 1.203 | 2.075 | 17.0 | 19.4 |
| 11 27 | 1 26.40 | − 3 53.6 | 1.255 | 2.054 | 20.8 | 19.6 |

**457845** 2009 $SH_{128}$ 10 24.3 47°.76 1°.7/25.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.26 | +17 59.1 | 1.995 | 2.810 | 14.3 | 21.4 |
| 9 28 | 2 15.65 | +17 59.7 | 1.927 | 2.821 | 11.1 | 21.2 |
| 10 8 | 2 9.01 | +17 47.7 | 1.880 | 2.833 | 7.5 | 21.0 |
| 10 18 | 2 0.99 | +17 24.2 | 1.859 | 2.844 | 3.7 | 20.8 |
| 10 28 | 1 52.50 | +16 52.2 | 1.866 | 2.857 | 2.0 | 20.7 |
| 11 7 | 1 44.52 | +16 16.4 | 1.902 | 2.869 | 5.3 | 20.9 |
| 11 17 | 1 37.91 | +15 41.9 | 1.965 | 2.881 | 8.9 | 21.2 |
| 11 27 | 1 33.31 | +15 13.7 | 2.052 | 2.894 | 12.1 | 21.4 |

**226566** 2003 $WF_{85}$ 10 24.3 244°.25 1°.0/25.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.01 | +17 56.7 | 2.586 | 3.392 | 11.6 | 20.6 |
| 9 28 | 2 12.86 | +17 27.2 | 2.493 | 3.384 | 9.0 | 20.4 |
| 10 8 | 2 7.11 | +16 46.0 | 2.423 | 3.376 | 6.0 | 20.2 |
| 10 18 | 2 0.24 | +15 54.9 | 2.381 | 3.368 | 2.8 | 20.0 |
| 10 28 | 1 52.93 | +14 57.1 | 2.369 | 3.360 | 1.3 | 19.9 |
| 11 7 | 1 45.91 | +13 57.3 | 2.386 | 3.352 | 4.5 | 20.1 |
| 11 17 | 1 39.86 | +13 0.4 | 2.432 | 3.343 | 7.7 | 20.3 |
| 11 27 | 1 35.35 | +12 11.0 | 2.505 | 3.335 | 10.6 | 20.5 |

**298239** 2002 $VB_{16}$ 10 24.3 333°.37 0°.3/24.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 25.03 | + 9 57.0 | 1.587 | 2.428 | 16.1 | 20.0 |
| 9 28 | 2 19.99 | +10 24.3 | 1.505 | 2.418 | 12.4 | 19.7 |
| 10 8 | 2 12.23 | +10 46.0 | 1.444 | 2.408 | 8.1 | 19.5 |
| 10 18 | 2 2.40 | +11 3.1 | 1.408 | 2.399 | 3.2 | 19.2 |
| 10 28 | 1 51.64 | +11 17.8 | 1.400 | 2.391 | 2.0 | 19.1 |
| 11 7 | 1 41.31 | +11 33.3 | 1.419 | 2.384 | 7.0 | 19.4 |
| 11 17 | 1 32.64 | +11 52.8 | 1.463 | 2.377 | 11.7 | 19.6 |
| 11 27 | 1 26.58 | +12 19.6 | 1.531 | 2.370 | 15.7 | 19.9 |

**450469** 2005 $WA_{135}$ 10 24.3 300°.79 5°.1/19.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.03 | − 1 54.6 | 2.131 | 2.980 | 12.3 | 21.2 |
| 9 28 | 2 14.55 | − 2 43.8 | 2.061 | 2.975 | 9.5 | 21.1 |
| 10 8 | 2 8.25 | − 3 32.1 | 2.015 | 2.971 | 6.8 | 20.9 |
| 10 18 | 2 0.70 | − 4 13.9 | 1.995 | 2.967 | 5.2 | 20.8 |
| 10 28 | 1 52.69 | − 4 44.0 | 2.003 | 2.962 | 6.1 | 20.8 |
| 11 7 | 1 45.08 | − 4 58.2 | 2.038 | 2.958 | 8.6 | 21.0 |
| 11 17 | 1 38.66 | − 4 54.6 | 2.099 | 2.954 | 11.4 | 21.2 |
| 11 27 | 1 34.01 | − 4 32.8 | 2.182 | 2.950 | 14.0 | 21.3 |

**220199** 2002 $VK_{23}$ 10 24.3 296°.36 1°.3/25.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.96 | +16 53.6 | 1.464 | 2.301 | 17.4 | 20.4 |
| 9 28 | 2 17.22 | +16 42.2 | 1.376 | 2.284 | 13.7 | 20.1 |
| 10 8 | 2 10.62 | +16 13.7 | 1.307 | 2.267 | 9.2 | 19.8 |
| 10 18 | 2 1.82 | +15 29.3 | 1.262 | 2.251 | 4.1 | 19.4 |
| 10 28 | 1 51.98 | +14 33.5 | 1.243 | 2.235 | 2.0 | 19.3 |
| 11 7 | 1 42.53 | +13 34.0 | 1.250 | 2.218 | 7.2 | 19.5 |
| 11 17 | 1 34.80 | +12 39.2 | 1.282 | 2.203 | 12.3 | 19.8 |
| 11 27 | 1 29.82 | +11 57.1 | 1.336 | 2.187 | 16.8 | 20.0 |

**481862** 2008 $YO_{40}$ 10 24.3 299°.42 2°.0/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.98 | + 8 37.4 | 1.663 | 2.511 | 15.2 | 21.1 |
| 9 28 | 2 16.78 | + 8 13.9 | 1.576 | 2.494 | 11.6 | 20.9 |
| 10 8 | 2 10.10 | + 7 42.2 | 1.510 | 2.477 | 7.5 | 20.6 |
| 10 18 | 2 1.55 | + 7 6.0 | 1.469 | 2.460 | 3.1 | 20.3 |
| 10 28 | 1 52.16 | + 6 30.8 | 1.456 | 2.444 | 3.2 | 20.3 |
| 11 7 | 1 43.12 | + 6 2.5 | 1.470 | 2.428 | 7.7 | 20.5 |
| 11 17 | 1 35.56 | + 5 46.2 | 1.509 | 2.412 | 12.1 | 20.7 |
| 11 27 | 1 30.37 | + 5 45.5 | 1.570 | 2.396 | 16.0 | 20.9 |

**435469** 2008 $FQ_{66}$ 10 24.3 251°.84 1°.3/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.38 | +11 30.5 | 1.603 | 2.445 | 15.9 | 22.0 |
| 9 28 | 2 17.88 | +10 55.0 | 1.521 | 2.435 | 12.2 | 21.8 |
| 10 8 | 2 10.80 | +10 7.4 | 1.460 | 2.425 | 7.8 | 21.5 |
| 10 18 | 2 1.82 | + 9 11.4 | 1.424 | 2.415 | 3.0 | 21.2 |
| 10 28 | 1 52.02 | + 8 13.3 | 1.415 | 2.405 | 2.7 | 21.1 |
| 11 7 | 1 42.69 | + 7 20.5 | 1.434 | 2.394 | 7.6 | 21.4 |
| 11 17 | 1 34.97 | + 6 39.6 | 1.478 | 2.383 | 12.2 | 21.7 |
| 11 27 | 1 29.73 | + 6 15.6 | 1.544 | 2.372 | 16.1 | 21.9 |

**262694** 2006 $WN_{192}$ 10 24.3 214°.53 0°.9/24.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.86 | +16 41.8 | 1.694 | 2.518 | 16.0 | 21.4 |
| 9 28 | 2 18.12 | +16 19.6 | 1.612 | 2.514 | 12.4 | 21.2 |
| 10 8 | 2 10.88 | +15 42.1 | 1.552 | 2.510 | 8.2 | 20.9 |
| 10 18 | 2 1.82 | +14 51.1 | 1.517 | 2.506 | 3.6 | 20.6 |
| 10 28 | 1 52.04 | +13 51.6 | 1.509 | 2.501 | 1.7 | 20.5 |
| 11 7 | 1 42.75 | +12 50.4 | 1.530 | 2.496 | 6.4 | 20.8 |
| 11 17 | 1 35.06 | +11 55.0 | 1.577 | 2.491 | 10.9 | 21.1 |
| 11 27 | 1 29.80 | +11 11.7 | 1.647 | 2.485 | 14.8 | 21.3 |

**209173** 2003 $UH_{121}$ 10 24.3 354°.91 1°.0/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.82 | +14 31.7 | 1.337 | 2.188 | 18.0 | 20.3 |
| 9 28 | 2 16.36 | +14 41.6 | 1.266 | 2.183 | 14.0 | 20.0 |
| 10 8 | 2 10.03 | +14 38.2 | 1.215 | 2.179 | 9.2 | 19.7 |
| 10 18 | 2 1.56 | +14 22.8 | 1.186 | 2.176 | 4.0 | 19.4 |
| 10 28 | 1 52.19 | +13 59.3 | 1.183 | 2.175 | 2.0 | 19.3 |
| 11 7 | 1 43.42 | +13 33.9 | 1.204 | 2.174 | 7.3 | 19.6 |
| 11 17 | 1 36.51 | +13 13.1 | 1.250 | 2.174 | 12.2 | 19.9 |
| 11 27 | 1 32.42 | +13 2.7 | 1.317 | 2.176 | 16.5 | 20.2 |

**5393** Goldstein 10 24.3 279°.26 2°.8/26.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.99 | +19 4.2 | 1.548 | 2.369 | 17.4 | 17.4 |
| 9 28 | 2 19.48 | +19 18.9 | 1.458 | 2.354 | 13.9 | 17.2 |
| 10 8 | 2 12.07 | +19 17.6 | 1.388 | 2.340 | 9.6 | 16.9 |
| 10 18 | 2 2.41 | +18 59.7 | 1.342 | 2.326 | 5.1 | 16.6 |
| 10 28 | 1 51.65 | +18 27.2 | 1.322 | 2.311 | 3.0 | 16.4 |
| 11 7 | 1 41.27 | +17 45.8 | 1.329 | 2.297 | 7.0 | 16.6 |
| 11 17 | 1 32.61 | +17 2.8 | 1.361 | 2.282 | 11.7 | 16.9 |
| 11 27 | 1 26.73 | +16 26.2 | 1.416 | 2.268 | 16.0 | 17.1 |

**317758** 2003 $SR_{77}$ 10 24.3 350°.79 1°.0/25.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.25 | +18 27.7 | 2.106 | 2.923 | 13.5 | 20.2 |
| 9 28 | 2 12.59 | +17 45.9 | 2.023 | 2.921 | 10.5 | 20.0 |
| 10 8 | 2 7.08 | +16 49.3 | 1.964 | 2.919 | 7.0 | 19.8 |
| 10 18 | 2 0.27 | +15 40.2 | 1.930 | 2.918 | 3.1 | 19.6 |
| 10 28 | 1 52.98 | +14 23.6 | 1.925 | 2.917 | 1.5 | 19.4 |
| 11 7 | 1 46.10 | +13 6.0 | 1.949 | 2.916 | 5.2 | 19.7 |
| 11 17 | 1 40.42 | +11 53.7 | 2.001 | 2.915 | 8.9 | 19.9 |
| 11 27 | 1 36.56 | +10 52.7 | 2.078 | 2.915 | 12.2 | 20.1 |

**511552** 2014 $UE_{225}$ 10 24.3 173°.69 0°.0/25.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 1 58.09 | +14 28.5 | 45.799 | 46.602 | 0.7 | 22.9 |
| 9 28 | 1 57.50 | +14 25.4 | 45.710 | 46.602 | 0.6 | 22.9 |
| 10 8 | 1 56.84 | +14 21.9 | 45.648 | 46.602 | 0.4 | 22.8 |
| 10 18 | 1 56.14 | +14 18.1 | 45.614 | 46.602 | 0.2 | 22.8 |
| 10 28 | 1 55.42 | +14 14.1 | 45.611 | 46.602 | 0.1 | 22.8 |
| 11 7 | 1 54.71 | +14 10.1 | 45.637 | 46.602 | 0.3 | 22.8 |
| 11 17 | 1 54.04 | +14 6.1 | 45.694 | 46.603 | 0.5 | 22.8 |
| 11 27 | 1 53.43 | +14 2.4 | 45.778 | 46.603 | 0.7 | 22.9 |

**227759** 2006 $MQ_{10}$ 10 24.3 13°.24 2°.0/27.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 12.59 | +22 45.9 | 3.911 | 4.685 | 8.6 | 19.8 |
| 9 28 | 2 9.03 | +22 40.6 | 3.821 | 4.687 | 6.8 | 19.7 |
| 10 8 | 2 4.45 | +22 26.4 | 3.756 | 4.689 | 4.9 | 19.5 |
| 10 18 | 1 59.17 | +22 4.0 | 3.718 | 4.691 | 3.0 | 19.4 |
| 10 28 | 1 53.63 | +21 34.8 | 3.710 | 4.693 | 2.0 | 19.3 |
| 11 7 | 1 48.29 | +21 1.1 | 3.732 | 4.696 | 3.2 | 19.4 |
| 11 17 | 1 43.58 | +20 25.6 | 3.784 | 4.698 | 5.1 | 19.6 |
| 11 27 | 1 39.86 | +19 51.2 | 3.863 | 4.701 | 7.0 | 19.7 |

**164649** 1995 $VA_{18}$ 10 24.3 207°.37 1°.6/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.79 | +19 46.3 | 2.153 | 2.956 | 13.8 | 21.1 |
| 9 28 | 2 16.06 | +19 19.3 | 2.064 | 2.952 | 10.8 | 20.9 |
| 10 8 | 2 9.33 | +18 37.1 | 1.997 | 2.947 | 7.4 | 20.7 |
| 10 18 | 2 1.17 | +17 41.3 | 1.957 | 2.942 | 3.6 | 20.4 |
| 10 28 | 1 52.45 | +16 35.6 | 1.946 | 2.936 | 1.8 | 20.3 |
| 11 7 | 1 44.13 | +15 25.9 | 1.964 | 2.930 | 5.2 | 20.5 |
| 11 17 | 1 37.07 | +14 18.6 | 2.010 | 2.924 | 8.9 | 20.7 |
| 11 27 | 1 31.95 | +13 19.8 | 2.082 | 2.917 | 12.3 | 21.0 |

**314365** 2005 $UB_{39}$ 10 24.3 11°.70 1°.7/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.75 | + 8 35.8 | 1.734 | 2.582 | 14.7 | 20.4 |
| 9 28 | 2 15.51 | + 8 18.2 | 1.666 | 2.584 | 11.1 | 20.2 |
| 10 8 | 2 9.07 | + 7 53.8 | 1.620 | 2.587 | 7.1 | 19.9 |
| 10 18 | 2 1.08 | + 7 26.1 | 1.599 | 2.590 | 2.9 | 19.7 |
| 10 28 | 1 52.52 | + 6 59.9 | 1.605 | 2.593 | 2.8 | 19.7 |
| 11 7 | 1 44.50 | + 6 40.2 | 1.639 | 2.597 | 7.0 | 20.0 |
| 11 17 | 1 37.94 | + 6 30.9 | 1.698 | 2.602 | 10.9 | 20.2 |
| 11 27 | 1 33.55 | + 6 34.7 | 1.780 | 2.607 | 14.4 | 20.4 |

**366132** 2012 $DT_{64}$ 10 24.3 211°.42 1°.0/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.54 | +10 49.7 | 2.248 | 3.079 | 12.3 | 21.6 |
| 9 28 | 2 14.14 | +10 19.2 | 2.169 | 3.079 | 9.3 | 21.4 |
| 10 8 | 2 7.99 | + 9 40.9 | 2.114 | 3.078 | 5.9 | 21.2 |
| 10 18 | 2 0.62 | + 8 57.7 | 2.086 | 3.077 | 2.3 | 21.0 |
| 10 28 | 1 52.79 | + 8 14.0 | 2.087 | 3.076 | 2.1 | 21.0 |
| 11 7 | 1 45.34 | + 7 34.5 | 2.117 | 3.075 | 5.7 | 21.2 |
| 11 17 | 1 39.01 | + 7 3.2 | 2.175 | 3.074 | 9.1 | 21.4 |
| 11 27 | 1 34.41 | + 6 43.5 | 2.257 | 3.073 | 12.1 | 21.6 |

**96554** 1998 $SD_{119}$ 10 24.3 325°.72 2°.5/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.30 | +17 39.3 | 1.967 | 2.777 | 14.6 | 18.8 |
| 9 28 | 2 18.33 | +18 16.5 | 1.875 | 2.766 | 11.6 | 18.6 |
| 10 8 | 2 11.01 | +18 43.6 | 1.806 | 2.755 | 8.0 | 18.3 |
| 10 18 | 2 1.93 | +18 59.8 | 1.762 | 2.744 | 4.3 | 18.1 |
| 10 28 | 1 52.01 | +19 5.8 | 1.746 | 2.734 | 2.7 | 18.0 |
| 11 7 | 1 42.37 | +19 4.1 | 1.759 | 2.724 | 5.8 | 18.2 |
| 11 17 | 1 34.07 | +18 58.8 | 1.799 | 2.715 | 9.6 | 18.4 |
| 11 27 | 1 27.97 | +18 54.9 | 1.863 | 2.706 | 13.1 | 18.6 |

**148244** 2000 $EW_{63}$ 10 24.3 276°.55 0°.4/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.42 | +14 13.3 | 1.588 | 2.422 | 16.4 | 20.6 |
| 9 28 | 2 18.88 | +14 7.4 | 1.498 | 2.406 | 12.8 | 20.3 |
| 10 8 | 2 11.61 | +13 48.7 | 1.429 | 2.390 | 8.4 | 20.0 |
| 10 18 | 2 2.22 | +13 18.8 | 1.384 | 2.374 | 3.5 | 19.7 |
| 10 28 | 1 51.84 | +12 41.7 | 1.366 | 2.358 | 1.9 | 19.6 |
| 11 7 | 1 41.81 | +12 3.6 | 1.376 | 2.342 | 7.0 | 19.9 |
| 11 17 | 1 33.42 | +11 30.9 | 1.411 | 2.326 | 11.9 | 20.1 |
| 11 27 | 1 27.63 | +11 9.8 | 1.469 | 2.309 | 16.1 | 20.3 |

**70286** 1999 $RA_{118}$ 10 24.3 42°.29 5°.4/28.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.49 | +25 17.4 | 1.197 | 2.018 | 21.5 | 18.6 |
| 9 28 | 2 18.67 | +25 30.9 | 1.140 | 2.031 | 17.4 | 18.3 |
| 10 8 | 2 11.57 | +25 17.2 | 1.101 | 2.044 | 12.7 | 18.1 |
| 10 18 | 2 2.15 | +24 35.4 | 1.083 | 2.058 | 8.0 | 17.9 |
| 10 28 | 1 51.97 | +23 29.4 | 1.088 | 2.072 | 5.4 | 17.8 |
| 11 7 | 1 42.75 | +22 8.7 | 1.118 | 2.087 | 7.9 | 18.0 |
| 11 17 | 1 35.87 | +20 45.4 | 1.172 | 2.102 | 12.2 | 18.3 |
| 11 27 | 1 32.21 | +19 30.8 | 1.247 | 2.118 | 16.4 | 18.6 |

**91995** 1999 $VC_{133}$ 10 24.3 302°.98 1°.6/22.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.70 | +10 46.0 | 2.069 | 2.908 | 12.9 | 19.6 |
| 9 28 | 2 12.93 | + 9 48.3 | 1.988 | 2.902 | 9.8 | 19.3 |
| 10 8 | 2 7.31 | + 8 40.5 | 1.930 | 2.896 | 6.2 | 19.1 |
| 10 18 | 2 0.39 | + 7 26.9 | 1.900 | 2.891 | 2.5 | 18.9 |
| 10 28 | 1 52.96 | + 6 13.7 | 1.898 | 2.885 | 2.8 | 18.9 |
| 11 7 | 1 45.92 | + 5 7.2 | 1.925 | 2.879 | 6.5 | 19.1 |
| 11 17 | 1 40.06 | + 4 13.0 | 1.978 | 2.874 | 10.1 | 19.3 |
| 11 27 | 1 35.99 | + 3 34.9 | 2.056 | 2.869 | 13.2 | 19.5 |

**43243** 2000 $AB_{253}$ 10 24.3 38°.48 1°.3/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.39 | +10 28.8 | 1.893 | 2.735 | 13.9 | 19.0 |
| 9 28 | 2 14.23 | + 9 57.6 | 1.831 | 2.746 | 10.5 | 18.8 |
| 10 8 | 2 8.11 | + 9 18.2 | 1.792 | 2.758 | 6.6 | 18.6 |
| 10 18 | 2 0.67 | + 8 34.3 | 1.779 | 2.770 | 2.6 | 18.3 |
| 10 28 | 1 52.83 | + 7 51.0 | 1.794 | 2.783 | 2.4 | 18.4 |
| 11 7 | 1 45.52 | + 7 13.4 | 1.837 | 2.796 | 6.3 | 18.6 |
| 11 17 | 1 39.56 | + 6 46.0 | 1.906 | 2.810 | 10.0 | 18.9 |
| 11 27 | 1 35.57 | + 6 31.9 | 1.999 | 2.823 | 13.1 | 19.1 |

**435455** 2008 $EM_{139}$ 10 24.3 267°.25 1°.2/25.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.50 | +17 2.8 | 1.615 | 2.440 | 16.6 | 22.1 |
| 9 28 | 2 19.01 | +16 48.6 | 1.518 | 2.420 | 13.1 | 21.8 |
| 10 8 | 2 11.75 | +16 18.0 | 1.441 | 2.399 | 8.8 | 21.5 |
| 10 18 | 2 2.31 | +15 32.0 | 1.389 | 2.377 | 4.0 | 21.2 |
| 10 28 | 1 51.80 | +14 34.6 | 1.364 | 2.356 | 2.0 | 21.0 |
| 11 7 | 1 41.58 | +13 32.9 | 1.366 | 2.333 | 6.9 | 21.2 |
| 11 17 | 1 32.96 | +12 35.0 | 1.394 | 2.311 | 11.9 | 21.5 |
| 11 27 | 1 26.96 | +11 48.7 | 1.446 | 2.288 | 16.3 | 21.7 |

**218849** 2006 $UL_{338}$ 10 24.3 103°.90 1°.4/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.30 | +10 30.5 | 1.579 | 2.419 | 16.2 | 20.6 |
| 9 28 | 2 19.80 | +10 2.6 | 1.520 | 2.433 | 12.3 | 20.4 |
| 10 8 | 2 11.81 | + 9 25.0 | 1.482 | 2.447 | 7.8 | 20.2 |
| 10 18 | 2 2.15 | + 8 41.9 | 1.470 | 2.461 | 3.0 | 19.9 |
| 10 28 | 1 51.99 | + 7 59.0 | 1.486 | 2.475 | 2.7 | 19.9 |
| 11 7 | 1 42.58 | + 7 22.7 | 1.529 | 2.488 | 7.3 | 20.2 |
| 11 17 | 1 34.96 | + 6 57.8 | 1.598 | 2.501 | 11.5 | 20.5 |
| 11 27 | 1 29.85 | + 6 47.9 | 1.690 | 2.514 | 15.1 | 20.8 |

**306024** 2010 $DF_{79}$ 10 24.3 134°.34 3°.6/27.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.10 | +24 2.2 | 2.295 | 3.066 | 14.0 | 21.9 |
| 9 28 | 2 19.94 | +24 20.8 | 2.219 | 3.080 | 11.3 | 21.8 |
| 10 8 | 2 11.74 | +24 24.7 | 2.165 | 3.093 | 8.2 | 21.6 |
| 10 18 | 2 2.11 | +24 13.1 | 2.137 | 3.106 | 5.2 | 21.4 |
| 10 28 | 1 51.99 | +23 47.5 | 2.139 | 3.119 | 3.6 | 21.4 |
| 11 7 | 1 42.35 | +23 11.5 | 2.170 | 3.130 | 5.4 | 21.5 |
| 11 17 | 1 34.08 | +22 30.3 | 2.230 | 3.141 | 8.3 | 21.7 |
| 11 27 | 1 27.83 | +21 49.9 | 2.316 | 3.152 | 11.1 | 21.9 |

**53074** 1998 $XN_{64}$ 10 24.3 77°.50 5°.6/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.52 | − 0 57.4 | 1.476 | 2.326 | 16.6 | 18.0 |
| 9 28 | 2 22.16 | − 1 26.1 | 1.431 | 2.347 | 12.7 | 17.8 |
| 10 8 | 2 13.24 | − 1 52.3 | 1.407 | 2.367 | 8.7 | 17.6 |
| 10 18 | 2 2.67 | − 2 10.0 | 1.408 | 2.387 | 5.8 | 17.5 |
| 10 28 | 1 51.73 | − 2 13.6 | 1.436 | 2.407 | 6.5 | 17.6 |
| 11 7 | 1 41.74 | − 1 59.7 | 1.491 | 2.427 | 9.8 | 17.8 |
| 11 17 | 1 33.74 | − 1 27.8 | 1.570 | 2.446 | 13.4 | 18.1 |
| 11 27 | 1 28.39 | − 0 39.1 | 1.671 | 2.466 | 16.6 | 18.4 |

**311898** 2006 $YN_{23}$ 10 24.3 351°.74 0°.4/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.82 | +12 16.8 | 1.859 | 2.695 | 14.3 | 21.1 |
| 9 28 | 2 15.53 | +12 0.7 | 1.783 | 2.693 | 10.9 | 20.9 |
| 10 8 | 2 9.09 | +11 34.9 | 1.728 | 2.692 | 7.0 | 20.7 |
| 10 18 | 2 1.13 | +11 2.0 | 1.699 | 2.691 | 2.7 | 20.4 |
| 10 28 | 1 52.57 | +10 26.3 | 1.698 | 2.690 | 1.8 | 20.3 |
| 11 7 | 1 44.47 | + 9 53.1 | 1.726 | 2.689 | 6.2 | 20.6 |
| 11 17 | 1 37.74 | + 9 27.3 | 1.779 | 2.688 | 10.2 | 20.9 |
| 11 27 | 1 33.11 | + 9 12.7 | 1.856 | 2.688 | 13.6 | 21.1 |

**169834** Hujie 10 24.3 62°.88 0°.3/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.65 | +15 38.3 | 1.788 | 2.618 | 15.1 | 20.5 |
| 9 28 | 2 15.43 | +15 4.6 | 1.716 | 2.622 | 11.6 | 20.3 |
| 10 8 | 2 9.01 | +14 17.0 | 1.666 | 2.627 | 7.5 | 20.0 |
| 10 18 | 2 1.08 | +13 18.6 | 1.642 | 2.632 | 3.0 | 19.8 |
| 10 28 | 1 52.62 | +12 14.7 | 1.646 | 2.637 | 1.6 | 19.7 |
| 11 7 | 1 44.69 | +11 12.2 | 1.677 | 2.643 | 6.1 | 20.0 |
| 11 17 | 1 38.24 | +10 17.6 | 1.735 | 2.648 | 10.2 | 20.3 |
| 11 27 | 1 33.94 | + 9 36.2 | 1.817 | 2.653 | 13.7 | 20.5 |

**280302** 2003 $QB_{25}$ 10 24.3 47°.47 5°.9/19.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.30 | + 3 16.5 | 1.383 | 2.253 | 16.4 | 19.6 |
| 9 28 | 2 14.59 | + 1 24.6 | 1.343 | 2.272 | 12.4 | 19.5 |
| 10 8 | 2 8.48 | − 0 31.2 | 1.325 | 2.291 | 8.4 | 19.3 |
| 10 18 | 2 0.83 | − 2 20.3 | 1.331 | 2.311 | 6.0 | 19.2 |
| 10 28 | 1 52.81 | − 3 51.8 | 1.364 | 2.331 | 7.4 | 19.3 |
| 11 7 | 1 45.62 | − 4 57.8 | 1.422 | 2.351 | 10.8 | 19.6 |
| 11 17 | 1 40.19 | − 5 34.6 | 1.503 | 2.372 | 14.3 | 19.9 |
| 11 27 | 1 37.13 | − 5 42.8 | 1.604 | 2.393 | 17.4 | 20.1 |

**26615** 2000 $GV_5$ 10 24.3 185°.38 1°.0/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.60 | +11 28.6 | 2.469 | 3.298 | 11.4 | 18.8 |
| 9 28 | 2 12.53 | +10 41.8 | 2.389 | 3.298 | 8.6 | 18.6 |
| 10 8 | 2 6.90 | + 9 46.7 | 2.334 | 3.297 | 5.5 | 18.4 |
| 10 18 | 2 0.21 | + 8 46.5 | 2.306 | 3.297 | 2.1 | 18.2 |
| 10 28 | 1 53.12 | + 7 45.9 | 2.308 | 3.297 | 2.0 | 18.1 |
| 11 7 | 1 46.39 | + 6 49.8 | 2.340 | 3.297 | 5.3 | 18.4 |
| 11 17 | 1 40.65 | + 6 2.5 | 2.400 | 3.296 | 8.5 | 18.6 |
| 11 27 | 1 36.45 | + 5 27.4 | 2.485 | 3.296 | 11.3 | 18.8 |

**266019** 2006 $EV_{70}$ 10 24.3 230°.47 4°.5/20.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.69 | − 4 24.7 | 2.748 | 3.574 | 10.5 | 20.9 |
| 9 28 | 2 17.70 | − 4 43.8 | 2.665 | 3.564 | 8.2 | 20.8 |
| 10 8 | 2 10.14 | − 4 59.5 | 2.607 | 3.555 | 6.0 | 20.6 |
| 10 18 | 2 1.47 | − 5 8.4 | 2.578 | 3.544 | 4.6 | 20.5 |
| 10 28 | 1 52.38 | − 5 7.1 | 2.578 | 3.534 | 5.2 | 20.5 |
| 11 7 | 1 43.60 | − 4 53.2 | 2.609 | 3.523 | 7.2 | 20.6 |
| 11 17 | 1 35.80 | − 4 26.0 | 2.667 | 3.511 | 9.7 | 20.8 |
| 11 27 | 1 29.54 | − 3 45.5 | 2.751 | 3.500 | 11.9 | 20.9 |

**47594** 2000 $AQ_{204}$ 10 24.3 142°.29 1°.0/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.52 | +12 59.7 | 2.151 | 2.977 | 13.0 | 18.2 |
| 9 28 | 2 14.89 | +11 56.7 | 2.078 | 2.985 | 9.8 | 18.0 |
| 10 8 | 2 8.46 | +10 42.5 | 2.030 | 2.993 | 6.2 | 17.8 |
| 10 18 | 2 0.82 | + 9 21.5 | 2.009 | 3.001 | 2.4 | 17.6 |
| 10 28 | 1 52.79 | + 7 59.6 | 2.018 | 3.007 | 2.2 | 17.6 |
| 11 7 | 1 45.23 | + 6 43.5 | 2.057 | 3.014 | 5.9 | 17.8 |
| 11 17 | 1 38.91 | + 5 38.6 | 2.124 | 3.020 | 9.5 | 18.1 |
| 11 27 | 1 34.40 | + 4 49.2 | 2.215 | 3.026 | 12.5 | 18.3 |

**22725** Drabble 10 24.3 20°.30 3°.5/26.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.82 | +21 59.3 | 1.189 | 2.028 | 20.5 | 17.5 |
| 9 28 | 2 15.86 | +21 51.6 | 1.128 | 2.034 | 16.3 | 17.3 |
| 10 8 | 2 9.80 | +21 18.8 | 1.086 | 2.040 | 11.4 | 17.0 |
| 10 18 | 2 1.49 | +20 22.0 | 1.064 | 2.047 | 6.2 | 16.8 |
| 10 28 | 1 52.40 | +19 6.8 | 1.066 | 2.055 | 3.5 | 16.6 |
| 11 7 | 1 44.13 | +17 43.6 | 1.093 | 2.064 | 7.4 | 16.9 |
| 11 17 | 1 38.02 | +16 23.8 | 1.143 | 2.074 | 12.4 | 17.2 |
| 11 27 | 1 34.94 | +15 17.5 | 1.215 | 2.085 | 16.8 | 17.5 |

**472392** 2015 $BK_{139}$ 10 24.3 132°.44 4°.8/21.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.96 | + 2 32.7 | 1.514 | 2.367 | 16.1 | 21.8 |
| 9 28 | 2 19.68 | + 1 43.0 | 1.453 | 2.373 | 12.3 | 21.6 |
| 10 8 | 2 11.83 | + 0 50.4 | 1.415 | 2.379 | 8.2 | 21.4 |
| 10 18 | 2 2.21 | + 0 1.6 | 1.401 | 2.384 | 5.1 | 21.2 |
| 10 28 | 1 52.01 | − 0 36.0 | 1.414 | 2.389 | 5.9 | 21.3 |
| 11 7 | 1 42.52 | − 0 56.6 | 1.454 | 2.394 | 9.6 | 21.5 |
| 11 17 | 1 34.82 | − 0 57.1 | 1.518 | 2.399 | 13.5 | 21.8 |
| 11 27 | 1 29.69 | − 0 37.1 | 1.603 | 2.403 | 16.9 | 22.0 |

**298122** 2002 $RP_{237}$ 10 24.3 276°.11 3°.0/26.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.06 | +19 55.3 | 1.897 | 2.701 | 15.3 | 20.6 |
| 9 28 | 2 19.02 | +20 21.0 | 1.806 | 2.691 | 12.2 | 20.4 |
| 10 8 | 2 11.52 | +20 33.5 | 1.736 | 2.681 | 8.6 | 20.1 |
| 10 18 | 2 2.17 | +20 31.9 | 1.691 | 2.671 | 4.9 | 19.9 |
| 10 28 | 1 51.96 | +20 17.3 | 1.674 | 2.660 | 3.1 | 19.8 |
| 11 7 | 1 42.07 | +19 53.4 | 1.684 | 2.650 | 6.0 | 19.9 |
| 11 17 | 1 33.62 | +19 25.6 | 1.723 | 2.640 | 9.9 | 20.1 |
| 11 27 | 1 27.48 | +19 0.0 | 1.785 | 2.630 | 13.5 | 20.3 |

**71662** 2000 $EV_{132}$ 10 24.3 279°.48 0°.9/23.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.61 | +11 16.1 | 2.349 | 3.179 | 11.9 | 20.0 |
| 9 28 | 2 13.48 | +10 44.7 | 2.258 | 3.167 | 9.1 | 19.8 |
| 10 8 | 2 7.63 | +10 5.0 | 2.191 | 3.155 | 5.8 | 19.6 |
| 10 18 | 2 0.54 | + 9 19.8 | 2.151 | 3.142 | 2.2 | 19.3 |
| 10 28 | 1 52.94 | + 8 33.2 | 2.140 | 3.130 | 2.0 | 19.3 |
| 11 7 | 1 45.62 | + 7 50.0 | 2.158 | 3.117 | 5.5 | 19.5 |
| 11 17 | 1 39.33 | + 7 14.5 | 2.204 | 3.105 | 9.0 | 19.7 |
| 11 27 | 1 34.69 | + 6 50.2 | 2.275 | 3.092 | 12.0 | 19.9 |

**374238** 2005 $GA_{97}$ 10 24.3 77°.65 1°.9/22.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.71 | +10 59.8 | 1.387 | 2.238 | 17.4 | 21.2 |
| 9 28 | 2 18.12 | +10 7.0 | 1.332 | 2.252 | 13.2 | 21.0 |
| 10 8 | 2 10.87 | + 9 1.9 | 1.297 | 2.265 | 8.3 | 20.7 |
| 10 18 | 2 1.82 | + 7 50.5 | 1.287 | 2.279 | 3.3 | 20.5 |
| 10 28 | 1 52.26 | + 6 40.9 | 1.304 | 2.292 | 3.3 | 20.5 |
| 11 7 | 1 43.52 | + 5 41.7 | 1.347 | 2.306 | 8.1 | 20.8 |
| 11 17 | 1 36.70 | + 4 59.2 | 1.415 | 2.319 | 12.7 | 21.1 |
| 11 27 | 1 32.52 | + 4 37.1 | 1.504 | 2.332 | 16.4 | 21.4 |

**300598** 2007 $TA_{426}$ 10 24.3 84°.97 1°.0/25.3 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.58 | +19 17.5 | 1.866 | 2.678 | 15.2 | 21.3 |
| 9 28 | 2 16.61 | +18 24.8 | 1.808 | 2.702 | 11.7 | 21.2 |
| 10 8 | 2 9.58 | +17 15.6 | 1.772 | 2.726 | 7.7 | 21.0 |
| 10 18 | 2 1.25 | +15 53.5 | 1.763 | 2.750 | 3.4 | 20.8 |
| 10 28 | 1 52.61 | +14 24.7 | 1.782 | 2.774 | 1.6 | 20.7 |
| 11 7 | 1 44.67 | +12 57.1 | 1.831 | 2.797 | 5.6 | 21.0 |
| 11 17 | 1 38.27 | +11 37.8 | 1.907 | 2.819 | 9.4 | 21.3 |
| 11 27 | 1 33.98 | +10 32.7 | 2.009 | 2.842 | 12.7 | 21.5 |

**100202** 1994 $GB$ 10 24.3 287°.80 7°.0/17.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.35 | + 9 21.7 | 1.080 | 1.958 | 19.3 | 19.0 |
| 9 28 | 2 14.95 | + 6 1.8 | 1.009 | 1.946 | 14.6 | 18.7 |
| 10 8 | 2 9.37 | + 2 12.1 | 0.961 | 1.933 | 9.7 | 18.4 |
| 10 18 | 2 1.40 | − 1 49.2 | 0.938 | 1.921 | 7.0 | 18.2 |
| 10 28 | 1 52.45 | − 5 36.5 | 0.942 | 1.909 | 9.9 | 18.3 |
| 11 7 | 1 44.18 | − 8 46.3 | 0.971 | 1.897 | 15.0 | 18.6 |
| 11 17 | 1 38.00 | −11 4.7 | 1.022 | 1.885 | 20.0 | 18.8 |
| 11 27 | 1 34.91 | −12 28.7 | 1.089 | 1.873 | 24.2 | 19.1 |

**350859** 2002 $NR_{17}$ 10 24.3 25°.38 10°.9/ 1.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.92 | +35 26.8 | 1.241 | 2.015 | 23.4 | 19.6 |
| 9 28 | 2 18.57 | +36 41.9 | 1.192 | 2.033 | 20.2 | 19.4 |
| 10 8 | 2 11.71 | +37 23.9 | 1.158 | 2.052 | 16.7 | 19.3 |
| 10 18 | 2 2.28 | +37 27.2 | 1.142 | 2.072 | 13.3 | 19.1 |
| 10 28 | 1 51.99 | +36 50.6 | 1.148 | 2.094 | 11.2 | 19.1 |
| 11 7 | 1 42.72 | +35 41.0 | 1.175 | 2.118 | 11.2 | 19.2 |
| 11 17 | 1 35.97 | +34 10.3 | 1.225 | 2.142 | 13.1 | 19.4 |
| 11 27 | 1 32.66 | +32 33.1 | 1.297 | 2.167 | 15.9 | 19.6 |

**163851** 2003 $SK_{80}$ 10 24.3 349°.30 0°.9/23.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.36 | +12 35.0 | 1.397 | 2.254 | 17.0 | 19.9 |
| 9 28 | 2 14.33 | +12 1.2 | 1.325 | 2.247 | 13.0 | 19.6 |
| 10 8 | 2 8.65 | +11 13.3 | 1.274 | 2.242 | 8.3 | 19.4 |
| 10 18 | 2 1.05 | +10 15.4 | 1.246 | 2.238 | 3.2 | 19.0 |
| 10 28 | 1 52.68 | + 9 14.7 | 1.243 | 2.234 | 2.5 | 19.0 |
| 11 7 | 1 44.86 | + 8 19.4 | 1.266 | 2.231 | 7.7 | 19.3 |
| 11 17 | 1 38.77 | + 7 36.8 | 1.314 | 2.229 | 12.5 | 19.6 |
| 11 27 | 1 35.24 | + 7 12.1 | 1.382 | 2.228 | 16.6 | 19.8 |

**323285** 2003 $TC_{1}$ 10 24.3 45°.40 6°.1/31.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.83 | +34 16.3 | 2.225 | 2.958 | 15.4 | 19.7 |
| 9 28 | 2 14.70 | +34 13.0 | 2.143 | 2.964 | 13.1 | 19.6 |
| 10 8 | 2 8.51 | +33 47.1 | 2.080 | 2.970 | 10.5 | 19.4 |
| 10 18 | 2 0.90 | +32 57.3 | 2.041 | 2.977 | 7.9 | 19.3 |
| 10 28 | 1 52.79 | +31 45.3 | 2.027 | 2.984 | 6.2 | 19.2 |
| 11 7 | 1 45.19 | +30 16.1 | 2.042 | 2.991 | 6.6 | 19.2 |
| 11 17 | 1 38.98 | +28 37.2 | 2.084 | 2.998 | 8.6 | 19.4 |
| 11 27 | 1 34.81 | +26 57.4 | 2.152 | 3.006 | 11.2 | 19.5 |

**39806** 1997 $WX_{2}$ 10 24.3 291°.28 2°.0/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.83 | + 8 47.6 | 1.363 | 2.216 | 17.6 | 18.8 |
| 9 28 | 2 20.09 | + 8 30.0 | 1.292 | 2.212 | 13.5 | 18.6 |
| 10 8 | 2 12.41 | + 8 3.4 | 1.241 | 2.209 | 8.6 | 18.3 |
| 10 18 | 2 2.55 | + 7 32.0 | 1.214 | 2.205 | 3.5 | 18.0 |
| 10 28 | 1 51.81 | + 7 1.8 | 1.213 | 2.202 | 3.4 | 18.0 |
| 11 7 | 1 41.70 | + 6 39.4 | 1.238 | 2.198 | 8.5 | 18.3 |
| 11 17 | 1 33.52 | + 6 30.1 | 1.287 | 2.195 | 13.4 | 18.5 |
| 11 27 | 1 28.23 | + 6 37.3 | 1.358 | 2.192 | 17.6 | 18.8 |

**302755** 2002 $VM_{25}$ 10 24.3 31°.67 9°.6/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.41 | −10 1.2 | 1.373 | 2.231 | 17.2 | 19.3 |
| 9 28 | 2 19.23 | −10 46.2 | 1.336 | 2.246 | 13.9 | 19.2 |
| 10 8 | 2 11.44 | −11 18.7 | 1.320 | 2.262 | 11.0 | 19.1 |
| 10 18 | 2 2.01 | −11 30.7 | 1.326 | 2.279 | 9.6 | 19.0 |
| 10 28 | 1 52.23 | −11 16.3 | 1.357 | 2.297 | 10.4 | 19.1 |
| 11 7 | 1 43.43 | −10 34.2 | 1.411 | 2.316 | 12.9 | 19.3 |
| 11 17 | 1 36.60 | − 9 26.8 | 1.488 | 2.335 | 15.7 | 19.6 |
| 11 27 | 1 32.41 | − 7 58.6 | 1.584 | 2.355 | 18.4 | 19.8 |

**235209** 2003 $SK_{186}$ 10 24.3 52°.67 2°.7/22.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.59 | + 8 14.6 | 1.533 | 2.387 | 15.9 | 20.6 |
| 9 28 | 2 16.29 | + 7 25.5 | 1.477 | 2.399 | 12.0 | 20.4 |
| 10 8 | 2 9.61 | + 6 28.0 | 1.443 | 2.411 | 7.6 | 20.2 |
| 10 18 | 2 1.33 | + 5 28.1 | 1.434 | 2.424 | 3.4 | 19.9 |
| 10 28 | 1 52.58 | + 4 32.8 | 1.451 | 2.436 | 3.9 | 20.0 |
| 11 7 | 1 44.54 | + 3 49.1 | 1.495 | 2.450 | 8.0 | 20.3 |
| 11 17 | 1 38.17 | + 3 21.6 | 1.565 | 2.463 | 12.1 | 20.6 |
| 11 27 | 1 34.17 | + 3 13.0 | 1.656 | 2.476 | 15.6 | 20.8 |

**242244** 2003 $SW_{217}$ 10 24.3 355°.90 1°.9/26.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.51 | +19 5.6 | 2.048 | 2.861 | 14.0 | 20.2 |
| 9 28 | 2 14.44 | +18 59.1 | 1.967 | 2.859 | 11.0 | 20.0 |
| 10 8 | 2 8.37 | +18 38.9 | 1.907 | 2.858 | 7.5 | 19.8 |
| 10 18 | 2 0.88 | +18 6.0 | 1.873 | 2.857 | 3.8 | 19.6 |
| 10 28 | 1 52.82 | +17 23.6 | 1.867 | 2.857 | 2.1 | 19.5 |
| 11 7 | 1 45.17 | +16 36.6 | 1.889 | 2.856 | 5.3 | 19.7 |
| 11 17 | 1 38.78 | +15 50.7 | 1.938 | 2.856 | 8.9 | 19.9 |
| 11 27 | 1 34.35 | +15 11.3 | 2.012 | 2.857 | 12.2 | 20.1 |

**429452** 2010 $VG_{161}$ 10 24.3 82°.41 1°.9/25.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.91 | +18 53.3 | 1.407 | 2.237 | 18.4 | 21.2 |
| 9 28 | 2 18.58 | +18 36.5 | 1.337 | 2.241 | 14.4 | 21.0 |
| 10 8 | 2 11.39 | +18 0.1 | 1.287 | 2.244 | 9.7 | 20.7 |
| 10 18 | 2 2.13 | +17 6.0 | 1.260 | 2.247 | 4.6 | 20.5 |
| 10 28 | 1 52.11 | +15 59.4 | 1.259 | 2.251 | 2.3 | 20.3 |
| 11 7 | 1 42.78 | +14 48.9 | 1.285 | 2.254 | 7.0 | 20.6 |
| 11 17 | 1 35.40 | +13 43.8 | 1.336 | 2.257 | 11.8 | 20.9 |
| 11 27 | 1 30.82 | +12 51.9 | 1.409 | 2.261 | 16.0 | 21.2 |

**201506** 2003 $NQ$ 10 24.3 119°.66 1°.7/25.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.08 | +19 9.1 | 2.048 | 2.849 | 14.4 | 21.0 |
| 9 28 | 2 18.47 | +18 52.3 | 1.980 | 2.867 | 11.2 | 20.9 |
| 10 8 | 2 10.81 | +18 21.4 | 1.935 | 2.884 | 7.6 | 20.7 |
| 10 18 | 2 1.79 | +17 37.9 | 1.916 | 2.901 | 3.7 | 20.5 |
| 10 28 | 1 52.35 | +16 45.5 | 1.926 | 2.917 | 1.9 | 20.4 |
| 11 7 | 1 43.51 | +15 49.9 | 1.966 | 2.932 | 5.3 | 20.6 |
| 11 17 | 1 36.12 | +14 57.0 | 2.034 | 2.947 | 8.9 | 20.9 |
| 11 27 | 1 30.80 | +14 12.1 | 2.127 | 2.961 | 12.1 | 21.1 |

**293112** 2006 $XH_{27}$ 10 24.3 207°.02 4°.1/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 24.67 | + 3 24.3 | 1.635 | 2.483 | 15.3 | 20.5 |
| 9 28 | 2 19.44 | + 2 47.2 | 1.564 | 2.481 | 11.7 | 20.3 |
| 10 8 | 2 11.72 | + 2 6.8 | 1.515 | 2.479 | 7.7 | 20.0 |
| 10 18 | 2 2.24 | + 1 28.3 | 1.491 | 2.476 | 4.4 | 19.8 |
| 10 28 | 1 52.08 | + 0 58.4 | 1.495 | 2.474 | 5.1 | 19.9 |
| 11 7 | 1 42.48 | + 0 42.2 | 1.526 | 2.471 | 8.9 | 20.1 |
| 11 17 | 1 34.53 | + 0 43.3 | 1.583 | 2.467 | 12.8 | 20.3 |
| 11 27 | 1 29.01 | + 1 2.6 | 1.661 | 2.464 | 16.3 | 20.5 |

**296832** 2009 $WZ_{48}$ 10 24.3 263°.29 4°.3/28.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.27 | +26 24.7 | 2.452 | 3.217 | 13.3 | 20.7 |
| 9 28 | 2 16.44 | +26 48.6 | 2.356 | 3.208 | 11.0 | 20.5 |
| 10 8 | 2 9.65 | +26 58.0 | 2.281 | 3.200 | 8.3 | 20.3 |
| 10 18 | 2 1.42 | +26 51.5 | 2.232 | 3.192 | 5.7 | 20.1 |
| 10 28 | 1 52.53 | +26 29.7 | 2.210 | 3.183 | 4.3 | 20.0 |
| 11 7 | 1 43.92 | +25 55.4 | 2.218 | 3.175 | 5.5 | 20.1 |
| 11 17 | 1 36.44 | +25 13.4 | 2.253 | 3.166 | 8.1 | 20.2 |
| 11 27 | 1 30.79 | +24 29.4 | 2.315 | 3.158 | 10.9 | 20.4 |

**290491** 2005 $UC_{12}$ 10 24.3 27°.61 1°.6/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.35 | + 9 27.1 | 1.801 | 2.646 | 14.3 | 20.5 |
| 9 28 | 2 15.14 | + 8 59.9 | 1.735 | 2.651 | 10.8 | 20.3 |
| 10 8 | 2 8.82 | + 8 25.0 | 1.691 | 2.657 | 6.9 | 20.1 |
| 10 18 | 2 1.05 | + 7 46.0 | 1.672 | 2.663 | 2.8 | 19.8 |
| 10 28 | 1 52.79 | + 7 8.3 | 1.682 | 2.670 | 2.7 | 19.8 |
| 11 7 | 1 45.05 | + 6 36.9 | 1.718 | 2.677 | 6.7 | 20.1 |
| 11 17 | 1 38.73 | + 6 16.4 | 1.782 | 2.685 | 10.6 | 20.4 |
| 11 27 | 1 34.48 | + 6 9.6 | 1.868 | 2.692 | 13.9 | 20.6 |

**319575** 2006 $SD_{90}$ 10 24.3 82°.26 0°.2/24.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.73 | +15 34.0 | 1.421 | 2.257 | 17.9 | 20.6 |
| 9 28 | 2 19.59 | +14 58.7 | 1.368 | 2.278 | 13.7 | 20.4 |
| 10 8 | 2 11.78 | +14 7.4 | 1.336 | 2.298 | 8.8 | 20.1 |
| 10 18 | 2 2.20 | +13 4.2 | 1.327 | 2.318 | 3.5 | 19.9 |
| 10 28 | 1 52.17 | +11 56.0 | 1.346 | 2.338 | 1.9 | 19.8 |
| 11 7 | 1 43.04 | +10 51.2 | 1.392 | 2.357 | 7.0 | 20.2 |
| 11 17 | 1 35.88 | + 9 57.4 | 1.463 | 2.377 | 11.6 | 20.5 |
| 11 27 | 1 31.42 | + 9 19.9 | 1.557 | 2.396 | 15.5 | 20.8 |

**517969** 2015 $TW_{366}$ 10 24.3 163°.68 4°.3/18.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.36 | − 0 24.0 | 2.656 | 3.499 | 10.3 | 21.7 |
| 9 28 | 2 12.20 | − 1 39.1 | 2.589 | 3.502 | 7.9 | 21.5 |
| 10 8 | 2 6.64 | − 2 55.0 | 2.549 | 3.504 | 5.6 | 21.4 |
| 10 18 | 2 0.14 | − 4 6.5 | 2.536 | 3.507 | 4.3 | 21.3 |
| 10 28 | 1 53.32 | − 5 8.3 | 2.553 | 3.509 | 5.2 | 21.4 |
| 11 7 | 1 46.84 | − 5 56.4 | 2.599 | 3.511 | 7.4 | 21.5 |
| 11 17 | 1 41.27 | − 6 27.9 | 2.671 | 3.512 | 9.7 | 21.7 |
| 11 27 | 1 37.10 | − 6 42.0 | 2.767 | 3.514 | 11.9 | 21.9 |

**330176** 2006 $CD_{40}$ 10 24.3 212°.81 4°.2/19.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.26 | + 0 52.5 | 2.368 | 3.214 | 11.3 | 20.9 |
| 9 28 | 2 13.07 | − 0 7.1 | 2.298 | 3.213 | 8.6 | 20.7 |
| 10 8 | 2 7.29 | − 1 8.0 | 2.252 | 3.212 | 5.9 | 20.6 |
| 10 18 | 2 0.43 | − 2 5.4 | 2.234 | 3.211 | 4.2 | 20.5 |
| 10 28 | 1 53.17 | − 2 53.9 | 2.245 | 3.209 | 5.1 | 20.5 |
| 11 7 | 1 46.27 | − 3 29.2 | 2.283 | 3.208 | 7.5 | 20.7 |
| 11 17 | 1 40.41 | − 3 48.4 | 2.348 | 3.207 | 10.3 | 20.8 |
| 11 27 | 1 36.12 | − 3 50.6 | 2.436 | 3.205 | 12.7 | 21.0 |

**317328** 2002 $JT_{28}$ 10 24.3 96°.83 2°.3/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.13 | + 5 38.1 | 2.265 | 3.100 | 12.1 | 20.2 |
| 9 28 | 2 16.04 | + 5 19.5 | 2.195 | 3.107 | 9.1 | 20.0 |
| 10 8 | 2 9.20 | + 4 57.8 | 2.149 | 3.113 | 5.9 | 19.8 |
| 10 18 | 2 1.18 | + 4 35.9 | 2.131 | 3.119 | 2.8 | 19.6 |
| 10 28 | 1 52.75 | + 4 17.7 | 2.142 | 3.126 | 3.1 | 19.6 |
| 11 7 | 1 44.75 | + 4 6.6 | 2.182 | 3.132 | 6.2 | 19.9 |
| 11 17 | 1 37.91 | + 4 5.2 | 2.249 | 3.138 | 9.4 | 20.1 |
| 11 27 | 1 32.83 | + 4 15.1 | 2.341 | 3.144 | 12.1 | 20.3 |

**319214** 2005 $YF_{232}$ 10 24.3 20°.40 4°.7/28.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.43 | +26 32.4 | 1.877 | 2.662 | 16.1 | 20.5 |
| 9 28 | 2 15.44 | +26 43.9 | 1.800 | 2.666 | 13.2 | 20.3 |
| 10 8 | 2 9.15 | +26 35.8 | 1.743 | 2.671 | 9.9 | 20.1 |
| 10 18 | 2 1.24 | +26 7.3 | 1.710 | 2.676 | 6.6 | 19.9 |
| 10 28 | 1 52.70 | +25 20.3 | 1.703 | 2.681 | 4.7 | 19.8 |
| 11 7 | 1 44.66 | +24 20.1 | 1.724 | 2.687 | 6.2 | 19.9 |
| 11 17 | 1 38.12 | +23 13.9 | 1.771 | 2.693 | 9.4 | 20.1 |
| 11 27 | 1 33.81 | +22 9.6 | 1.843 | 2.699 | 12.6 | 20.3 |

**276475** 2003 $KV_{13}$ 10 24.3 92°.99 3°.2/27.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.68 | +24 59.9 | 1.839 | 2.626 | 16.4 | 20.7 |
| 9 28 | 2 18.36 | +24 29.0 | 1.778 | 2.650 | 13.0 | 20.5 |
| 10 8 | 2 10.80 | +23 37.4 | 1.737 | 2.674 | 9.3 | 20.4 |
| 10 18 | 2 1.80 | +22 26.4 | 1.722 | 2.697 | 5.4 | 20.2 |
| 10 28 | 1 52.44 | +21 1.1 | 1.734 | 2.720 | 3.3 | 20.1 |
| 11 7 | 1 43.84 | +19 29.2 | 1.776 | 2.743 | 5.7 | 20.3 |
| 11 17 | 1 36.91 | +17 59.3 | 1.845 | 2.764 | 9.3 | 20.6 |
| 11 27 | 1 32.26 | +16 39.0 | 1.940 | 2.786 | 12.6 | 20.8 |

**484010** 2006 $DQ_{48}$ 10 24.3 238°.71 4°.3/28.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.16 | +26 55.6 | 2.733 | 3.484 | 12.4 | 21.4 |
| 9 28 | 2 17.73 | +27 26.2 | 2.630 | 3.473 | 10.3 | 21.3 |
| 10 8 | 2 10.44 | +27 43.8 | 2.549 | 3.461 | 7.9 | 21.1 |
| 10 18 | 2 1.74 | +27 46.7 | 2.494 | 3.449 | 5.5 | 20.9 |
| 10 28 | 1 52.39 | +27 35.0 | 2.468 | 3.437 | 4.3 | 20.8 |
| 11 7 | 1 43.24 | +27 10.8 | 2.471 | 3.425 | 5.3 | 20.9 |
| 11 17 | 1 35.10 | +26 38.1 | 2.504 | 3.412 | 7.7 | 21.0 |
| 11 27 | 1 28.67 | +26 1.9 | 2.563 | 3.399 | 10.2 | 21.2 |

**164965** 2000 $AZ_{39}$ 10 24.3 253°.62 3°.5/21.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.43 | + 3 55.6 | 2.038 | 2.880 | 13.0 | 20.5 |
| 9 28 | 2 16.64 | + 3 13.8 | 1.951 | 2.866 | 9.9 | 20.3 |
| 10 8 | 2 9.81 | + 2 27.9 | 1.889 | 2.852 | 6.5 | 20.1 |
| 10 18 | 2 1.50 | + 1 42.6 | 1.853 | 2.838 | 3.8 | 19.9 |
| 10 28 | 1 52.55 | + 1 3.4 | 1.846 | 2.824 | 4.5 | 19.9 |
| 11 7 | 1 43.95 | + 0 35.5 | 1.867 | 2.809 | 7.7 | 20.1 |
| 11 17 | 1 36.56 | + 0 22.3 | 1.915 | 2.794 | 11.2 | 20.2 |
| 11 27 | 1 31.13 | + 0 26.0 | 1.985 | 2.778 | 14.4 | 20.4 |

**519399** 2011 $SE_{279}$ 10 24.3 153°.47 1°.1/25.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.08 | +16 39.0 | 1.998 | 2.813 | 14.2 | 21.6 |
| 9 28 | 2 17.15 | +16 30.0 | 1.919 | 2.816 | 11.0 | 21.4 |
| 10 8 | 2 10.12 | +16 8.7 | 1.863 | 2.818 | 7.3 | 21.1 |
| 10 18 | 2 1.60 | +15 36.6 | 1.833 | 2.821 | 3.3 | 20.9 |
| 10 28 | 1 52.52 | +14 57.2 | 1.832 | 2.823 | 1.6 | 20.8 |
| 11 7 | 1 43.90 | +14 15.4 | 1.859 | 2.825 | 5.5 | 21.0 |
| 11 17 | 1 36.64 | +13 36.7 | 1.914 | 2.827 | 9.3 | 21.3 |
| 11 27 | 1 31.44 | +13 6.0 | 1.993 | 2.829 | 12.7 | 21.5 |

**115714** 2003 $UN_{173}$ 10 24.3 88°.63 1°.9/22.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.99 | + 6 0.1 | 2.377 | 3.207 | 11.8 | 19.7 |
| 9 28 | 2 16.62 | + 5 53.4 | 2.305 | 3.214 | 8.9 | 19.5 |
| 10 8 | 2 9.55 | + 5 43.8 | 2.257 | 3.220 | 5.7 | 19.4 |
| 10 18 | 2 1.33 | + 5 33.8 | 2.238 | 3.227 | 2.6 | 19.2 |
| 10 28 | 1 52.70 | + 5 26.5 | 2.248 | 3.233 | 2.7 | 19.2 |
| 11 7 | 1 44.48 | + 5 24.8 | 2.287 | 3.239 | 5.8 | 19.4 |
| 11 17 | 1 37.39 | + 5 30.9 | 2.355 | 3.246 | 8.9 | 19.6 |
| 11 27 | 1 32.00 | + 5 46.4 | 2.448 | 3.252 | 11.6 | 19.8 |

**447842** 2007 $UT_{53}$ 10 24.3 10°.88 1°.5/25.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.54 | +18 42.8 | 1.745 | 2.567 | 15.7 | 21.3 |
| 9 28 | 2 15.53 | +18 18.8 | 1.668 | 2.567 | 12.3 | 21.1 |
| 10 8 | 2 9.22 | +17 38.1 | 1.613 | 2.568 | 8.3 | 20.9 |
| 10 18 | 2 1.28 | +16 42.8 | 1.582 | 2.569 | 3.9 | 20.6 |
| 10 28 | 1 52.72 | +15 37.6 | 1.578 | 2.570 | 1.9 | 20.5 |
| 11 7 | 1 44.68 | +14 29.6 | 1.603 | 2.571 | 6.0 | 20.7 |
| 11 17 | 1 38.14 | +13 26.1 | 1.653 | 2.572 | 10.2 | 21.0 |
| 11 27 | 1 33.85 | +12 33.7 | 1.728 | 2.574 | 13.9 | 21.2 |

**325383** 2008 $SC_{251}$ 10 24.3 103°.39 0°.2/24.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.70 | +13 43.8 | 2.584 | 3.398 | 11.4 | 21.3 |
| 9 28 | 2 14.78 | +13 31.6 | 2.512 | 3.411 | 8.7 | 21.2 |
| 10 8 | 2 8.32 | +13 11.5 | 2.465 | 3.423 | 5.6 | 21.0 |
| 10 18 | 2 0.83 | +12 45.5 | 2.446 | 3.436 | 2.2 | 20.8 |
| 10 28 | 1 53.00 | +12 16.3 | 2.456 | 3.448 | 1.2 | 20.7 |
| 11 7 | 1 45.56 | +11 47.6 | 2.497 | 3.460 | 4.5 | 21.0 |
| 11 17 | 1 39.15 | +11 22.9 | 2.566 | 3.472 | 7.6 | 21.2 |
| 11 27 | 1 34.30 | +11 5.1 | 2.661 | 3.484 | 10.3 | 21.4 |

**99093** 2001 $FU_{37}$ 10 24.4 107°.78 7°.2/30.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.56 | +31 10.5 | 1.905 | 2.654 | 17.1 | 19.4 |
| 9 28 | 2 21.12 | +32 4.5 | 1.825 | 2.659 | 14.5 | 19.2 |
| 10 8 | 2 12.99 | +32 38.3 | 1.765 | 2.663 | 11.6 | 19.1 |
| 10 18 | 2 2.84 | +32 48.1 | 1.727 | 2.667 | 8.8 | 18.9 |
| 10 28 | 1 51.83 | +32 32.7 | 1.716 | 2.671 | 7.3 | 18.8 |
| 11 7 | 1 41.29 | +31 55.3 | 1.731 | 2.676 | 8.0 | 18.9 |
| 11 17 | 1 32.44 | +31 2.6 | 1.772 | 2.680 | 10.3 | 19.0 |
| 11 27 | 1 26.20 | +30 3.5 | 1.838 | 2.684 | 13.1 | 19.2 |

**378540** 2008 $BF_{36}$ 10 24.4 96°.37 4°.0/21.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.11 | + 5 32.9 | 1.579 | 2.429 | 15.8 | 20.5 |
| 9 28 | 2 18.77 | + 4 22.5 | 1.531 | 2.450 | 11.8 | 20.3 |
| 10 8 | 2 11.11 | + 3 6.5 | 1.505 | 2.470 | 7.6 | 20.1 |
| 10 18 | 2 1.95 | + 1 52.1 | 1.505 | 2.491 | 4.3 | 20.0 |
| 10 28 | 1 52.44 | + 0 47.3 | 1.533 | 2.511 | 5.1 | 20.1 |
| 11 7 | 1 43.73 | − 0 1.2 | 1.588 | 2.530 | 8.8 | 20.3 |
| 11 17 | 1 36.77 | − 0 29.5 | 1.668 | 2.549 | 12.5 | 20.6 |
| 11 27 | 1 32.19 | − 0 36.5 | 1.770 | 2.567 | 15.7 | 20.8 |

**482767** 2013 $GZ_{70}$ 10 24.4 89°.39 4°.6/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.76 | − 2 23.8 | 2.341 | 3.177 | 11.7 | 21.1 |
| 9 28 | 2 17.03 | − 2 57.0 | 2.292 | 3.199 | 9.0 | 20.9 |
| 10 8 | 2 9.70 | − 3 27.7 | 2.268 | 3.221 | 6.4 | 20.8 |
| 10 18 | 2 1.36 | − 3 51.5 | 2.270 | 3.242 | 4.7 | 20.7 |
| 10 28 | 1 52.77 | − 4 4.7 | 2.303 | 3.263 | 5.3 | 20.8 |
| 11 7 | 1 44.73 | − 4 4.5 | 2.363 | 3.284 | 7.6 | 21.0 |
| 11 17 | 1 37.90 | − 3 50.0 | 2.451 | 3.304 | 10.1 | 21.2 |
| 11 27 | 1 32.78 | − 3 21.4 | 2.562 | 3.324 | 12.3 | 21.4 |

**48545** 1993 $TZ_{16}$ 10 24.4 29°.77 1°.7/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.47 | +11 2.6 | 1.573 | 2.424 | 15.7 | 19.6 |
| 9 28 | 2 14.75 | +10 13.2 | 1.511 | 2.431 | 11.9 | 19.3 |
| 10 8 | 2 8.71 | + 9 12.4 | 1.470 | 2.438 | 7.5 | 19.1 |
| 10 18 | 2 1.07 | + 8 5.5 | 1.454 | 2.445 | 3.0 | 18.9 |
| 10 28 | 1 52.91 | + 6 59.5 | 1.464 | 2.453 | 3.0 | 18.9 |
| 11 7 | 1 45.36 | + 6 2.1 | 1.502 | 2.462 | 7.4 | 19.2 |
| 11 17 | 1 39.40 | + 5 19.1 | 1.565 | 2.470 | 11.6 | 19.4 |
| 11 27 | 1 35.72 | + 4 54.4 | 1.650 | 2.480 | 15.2 | 19.7 |

**431309** 2006 $VV_{86}$ 10 24.4 117°.76 0°.6/24.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.82 | +14 55.1 | 1.605 | 2.432 | 16.6 | 21.6 |
| 9 28 | 2 20.36 | +14 44.0 | 1.539 | 2.443 | 12.8 | 21.4 |
| 10 8 | 2 12.34 | +14 19.7 | 1.494 | 2.453 | 8.3 | 21.2 |
| 10 18 | 2 2.53 | +13 44.5 | 1.474 | 2.464 | 3.5 | 20.9 |
| 10 28 | 1 52.11 | +13 2.9 | 1.482 | 2.473 | 1.7 | 20.8 |
| 11 7 | 1 42.38 | +12 21.2 | 1.517 | 2.483 | 6.6 | 21.2 |
| 11 17 | 1 34.44 | +11 45.7 | 1.579 | 2.492 | 11.0 | 21.5 |
| 11 27 | 1 29.05 | +11 21.5 | 1.664 | 2.501 | 14.7 | 21.7 |

**276957** 2004 $TF_{328}$ 10 24.4 50°.67 6°.5/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.64 | + 0 39.4 | 1.545 | 2.410 | 15.2 | 20.1 |
| 9 28 | 2 14.85 | − 1 7.2 | 1.491 | 2.415 | 11.7 | 19.9 |
| 10 8 | 2 8.76 | − 2 56.7 | 1.459 | 2.420 | 8.3 | 19.7 |
| 10 18 | 2 1.10 | − 4 39.2 | 1.452 | 2.426 | 6.5 | 19.6 |
| 10 28 | 1 52.93 | − 6 4.5 | 1.472 | 2.431 | 7.9 | 19.7 |
| 11 7 | 1 45.40 | − 7 5.0 | 1.518 | 2.437 | 11.1 | 19.9 |
| 11 17 | 1 39.45 | − 7 37.1 | 1.586 | 2.442 | 14.4 | 20.2 |
| 11 27 | 1 35.77 | − 7 40.8 | 1.675 | 2.448 | 17.4 | 20.4 |

**330988** 2009 $UT_{12}$ 10 24.4 337°.39 0°.2/24.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.45 | +12 9.3 | 2.041 | 2.871 | 13.4 | 20.7 |
| 9 28 | 2 15.91 | +12 5.5 | 1.960 | 2.867 | 10.3 | 20.5 |
| 10 8 | 2 9.35 | +11 53.5 | 1.901 | 2.863 | 6.6 | 20.3 |
| 10 18 | 2 1.34 | +11 35.3 | 1.869 | 2.860 | 2.6 | 20.0 |
| 10 28 | 1 52.76 | +11 14.1 | 1.865 | 2.856 | 1.6 | 19.9 |
| 11 7 | 1 44.55 | +10 54.0 | 1.890 | 2.854 | 5.7 | 20.2 |
| 11 17 | 1 37.60 | +10 39.1 | 1.942 | 2.851 | 9.5 | 20.4 |
| 11 27 | 1 32.59 | +10 32.9 | 2.018 | 2.848 | 12.8 | 20.7 |

**271623** 2004 $PQ_{55}$ 10 24.4 82°.09 0°.6/23.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.01 | +12 23.5 | 1.629 | 2.461 | 16.2 | 21.0 |
| 9 28 | 2 20.19 | +12 0.7 | 1.578 | 2.487 | 12.2 | 20.8 |
| 10 8 | 2 12.02 | +11 27.4 | 1.550 | 2.512 | 7.8 | 20.6 |
| 10 18 | 2 2.33 | +10 47.0 | 1.546 | 2.538 | 3.0 | 20.4 |
| 10 28 | 1 52.27 | +10 4.8 | 1.571 | 2.562 | 2.0 | 20.4 |
| 11 7 | 1 43.05 | + 9 26.9 | 1.624 | 2.587 | 6.6 | 20.7 |
| 11 17 | 1 35.61 | + 8 58.2 | 1.704 | 2.611 | 10.7 | 21.0 |
| 11 27 | 1 30.61 | + 8 42.6 | 1.807 | 2.634 | 14.2 | 21.3 |

**224780** 2006 $GU_{51}$ 10 24.4 257°.25 6°.1/17.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.90 | − 7 5.3 | 2.550 | 3.390 | 10.8 | 20.1 |
| 9 28 | 2 13.55 | − 8 11.4 | 2.474 | 3.377 | 8.6 | 19.9 |
| 10 8 | 2 7.63 | − 9 14.2 | 2.424 | 3.363 | 6.8 | 19.8 |
| 10 18 | 2 0.63 | −10 8.1 | 2.400 | 3.349 | 6.1 | 19.7 |
| 10 28 | 1 53.19 | −10 47.9 | 2.405 | 3.335 | 7.0 | 19.7 |
| 11 7 | 1 46.03 | −11 9.8 | 2.436 | 3.321 | 9.0 | 19.8 |
| 11 17 | 1 39.83 | −11 12.1 | 2.493 | 3.307 | 11.2 | 20.0 |
| 11 27 | 1 35.14 | −10 55.0 | 2.571 | 3.292 | 13.3 | 20.1 |

**270154** 2001 $SH_{95}$ 10 24.4 31°.29 0°.3/24.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.86 | +14 21.1 | 1.257 | 2.112 | 18.6 | 20.6 |
| 9 28 | 2 16.35 | +13 45.7 | 1.200 | 2.121 | 14.3 | 20.3 |
| 10 8 | 2 9.98 | +12 53.6 | 1.163 | 2.130 | 9.1 | 20.1 |
| 10 18 | 2 1.64 | +11 49.6 | 1.149 | 2.140 | 3.6 | 19.8 |
| 10 28 | 1 52.65 | +10 41.5 | 1.160 | 2.151 | 2.2 | 19.7 |
| 11 7 | 1 44.47 | + 9 38.6 | 1.196 | 2.163 | 7.7 | 20.1 |
| 11 17 | 1 38.29 | + 8 48.9 | 1.256 | 2.175 | 12.7 | 20.4 |
| 11 27 | 1 34.89 | + 8 17.9 | 1.337 | 2.188 | 16.8 | 20.7 |

**398535** 2011 $UV_{309}$ 10 24.4 61°.90 0°.6/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.07 | +12 24.2 | 1.775 | 2.611 | 14.9 | 21.2 |
| 9 28 | 2 16.50 | +12 0.1 | 1.709 | 2.620 | 11.3 | 21.0 |
| 10 8 | 2 9.74 | +11 25.8 | 1.666 | 2.629 | 7.2 | 20.7 |
| 10 18 | 2 1.49 | +10 44.3 | 1.647 | 2.639 | 2.8 | 20.5 |
| 10 28 | 1 52.72 | +10 0.6 | 1.657 | 2.648 | 2.0 | 20.4 |
| 11 7 | 1 44.53 | + 9 20.6 | 1.694 | 2.657 | 6.3 | 20.8 |
| 11 17 | 1 37.84 | + 8 49.2 | 1.758 | 2.667 | 10.3 | 21.0 |
| 11 27 | 1 33.31 | + 8 30.5 | 1.846 | 2.676 | 13.8 | 21.3 |

**249973** 2001 $UL_{218}$ 10 24.4 41°.11 9°.8/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.75 | −12 8.0 | 1.686 | 2.535 | 14.9 | 20.0 |
| 9 28 | 2 16.18 | −13 27.0 | 1.647 | 2.546 | 12.4 | 19.9 |
| 10 8 | 2 9.45 | −14 34.4 | 1.630 | 2.558 | 10.4 | 19.8 |
| 10 18 | 2 1.34 | −15 21.9 | 1.637 | 2.570 | 9.8 | 19.8 |
| 10 28 | 1 52.86 | −15 42.7 | 1.669 | 2.582 | 10.8 | 19.9 |
| 11 7 | 1 45.09 | −15 34.4 | 1.724 | 2.595 | 12.8 | 20.0 |
| 11 17 | 1 38.90 | −14 57.9 | 1.801 | 2.608 | 15.1 | 20.2 |
| 11 27 | 1 34.89 | −13 56.8 | 1.897 | 2.621 | 17.3 | 20.4 |

**312936** 1979 $MT_3$ 10 24.4 35°.36 3°.0/26.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.16 | +20 16.0 | 0.901 | 1.763 | 23.6 | 19.5 |
| 9 28 | 2 18.16 | +20 8.7 | 0.861 | 1.780 | 18.5 | 19.3 |
| 10 8 | 2 11.47 | +19 34.1 | 0.836 | 1.798 | 12.6 | 19.0 |
| 10 18 | 2 2.26 | +18 34.6 | 0.830 | 1.817 | 6.3 | 18.8 |
| 10 28 | 1 52.37 | +17 18.5 | 0.847 | 1.838 | 3.2 | 18.7 |
| 11 7 | 1 43.75 | +15 58.8 | 0.886 | 1.859 | 8.3 | 19.1 |
| 11 17 | 1 37.84 | +14 47.9 | 0.947 | 1.882 | 13.8 | 19.4 |
| 11 27 | 1 35.44 | +13 55.3 | 1.027 | 1.905 | 18.5 | 19.8 |

**151334** 2002 $CY_{213}$ 10 24.4 174°.21 1°.1/25.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.14 | +16 58.6 | 2.243 | 3.054 | 13.0 | 20.7 |
| 9 28 | 2 15.51 | +16 48.4 | 2.161 | 3.055 | 10.1 | 20.5 |
| 10 8 | 2 9.01 | +16 26.8 | 2.101 | 3.055 | 6.7 | 20.3 |
| 10 18 | 2 1.20 | +15 55.3 | 2.068 | 3.055 | 3.1 | 20.1 |
| 10 28 | 1 52.89 | +15 16.9 | 2.064 | 3.056 | 1.5 | 20.0 |
| 11 7 | 1 44.96 | +14 36.1 | 2.089 | 3.056 | 5.0 | 20.2 |
| 11 17 | 1 38.20 | +13 57.7 | 2.143 | 3.056 | 8.5 | 20.5 |
| 11 27 | 1 33.25 | +13 26.2 | 2.221 | 3.056 | 11.6 | 20.7 |

**133726** Gateswest 10 24.4 283°.98 0°.9/23.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.00 | + 9 59.3 | 2.343 | 3.171 | 12.0 | 19.7 |
| 9 28 | 2 15.31 | + 9 48.6 | 2.258 | 3.165 | 9.1 | 19.5 |
| 10 8 | 2 8.85 | + 9 31.9 | 2.197 | 3.159 | 5.8 | 19.3 |
| 10 18 | 2 1.14 | + 9 11.2 | 2.162 | 3.153 | 2.3 | 19.0 |
| 10 28 | 1 52.93 | + 8 49.9 | 2.158 | 3.148 | 1.9 | 19.0 |
| 11 7 | 1 45.03 | + 8 31.7 | 2.182 | 3.142 | 5.4 | 19.2 |
| 11 17 | 1 38.20 | + 8 19.7 | 2.235 | 3.136 | 8.8 | 19.4 |
| 11 27 | 1 33.07 | + 8 16.9 | 2.312 | 3.130 | 11.8 | 19.6 |

**435192** 2007 $RQ_{79}$ 10 24.4 76°.91 0°.2/24.6 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.15 | +15 2.6 | 1.714 | 2.540 | 15.8 | 22.1 |
| 9 28 | 2 18.72 | +14 35.5 | 1.663 | 2.567 | 12.0 | 21.9 |
| 10 8 | 2 11.06 | +13 55.6 | 1.633 | 2.593 | 7.7 | 21.7 |
| 10 18 | 2 1.96 | +13 6.3 | 1.629 | 2.619 | 3.1 | 21.5 |
| 10 28 | 1 52.53 | +12 12.9 | 1.653 | 2.645 | 1.6 | 21.4 |
| 11 7 | 1 43.88 | +11 21.8 | 1.705 | 2.670 | 6.1 | 21.8 |
| 11 17 | 1 36.90 | +10 38.8 | 1.784 | 2.695 | 10.1 | 22.1 |
| 11 27 | 1 32.22 | +10 8.2 | 1.888 | 2.720 | 13.4 | 22.3 |

**445331** 2010 $JT_{36}$ 10 24.4 145°.35 4°.2/20.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.26 | + 3 2.2 | 1.950 | 2.798 | 13.3 | 21.7 |
| 9 28 | 2 15.66 | + 1 56.8 | 1.885 | 2.802 | 10.1 | 21.5 |
| 10 8 | 2 9.12 | + 0 47.9 | 1.844 | 2.806 | 6.7 | 21.3 |
| 10 18 | 2 1.24 | − 0 18.5 | 1.829 | 2.810 | 4.3 | 21.1 |
| 10 28 | 1 52.91 | − 1 15.8 | 1.842 | 2.814 | 5.2 | 21.2 |
| 11 7 | 1 45.08 | − 1 58.3 | 1.884 | 2.817 | 8.3 | 21.4 |
| 11 17 | 1 38.57 | − 2 22.7 | 1.951 | 2.821 | 11.5 | 21.6 |
| 11 27 | 1 34.00 | − 2 27.5 | 2.041 | 2.824 | 14.4 | 21.8 |

**477909** 2011 $LF_4$ 10 24.4 57°.17 0°.9/25.1 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.34 | +19 9.4 | 1.469 | 2.300 | 17.7 | 21.1 |
| 9 28 | 2 16.23 | +18 9.6 | 1.416 | 2.321 | 13.6 | 20.9 |
| 10 8 | 2 9.64 | +16 49.5 | 1.383 | 2.342 | 8.9 | 20.7 |
| 10 18 | 2 1.44 | +15 14.0 | 1.374 | 2.363 | 3.8 | 20.4 |
| 10 28 | 1 52.84 | +13 31.5 | 1.393 | 2.385 | 1.7 | 20.3 |
| 11 7 | 1 45.08 | +11 52.2 | 1.439 | 2.407 | 6.6 | 20.7 |
| 11 17 | 1 39.13 | +10 25.4 | 1.511 | 2.429 | 11.0 | 21.0 |
| 11 27 | 1 35.65 | + 9 17.6 | 1.606 | 2.450 | 14.8 | 21.3 |

**518929** 2010 $GT_{75}$ 10 24.4 106°.25 4°.0/20.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.13 | + 2 29.5 | 2.088 | 2.931 | 12.7 | 21.8 |
| 9 28 | 2 16.08 | + 1 30.8 | 2.033 | 2.948 | 9.6 | 21.6 |
| 10 8 | 2 9.24 | + 0 30.3 | 2.003 | 2.964 | 6.4 | 21.5 |
| 10 18 | 2 1.25 | − 0 26.9 | 2.000 | 2.980 | 4.1 | 21.3 |
| 10 28 | 1 52.93 | − 1 14.8 | 2.025 | 2.996 | 4.9 | 21.4 |
| 11 7 | 1 45.17 | − 1 49.0 | 2.079 | 3.012 | 7.7 | 21.6 |
| 11 17 | 1 38.69 | − 2 6.8 | 2.159 | 3.027 | 10.7 | 21.8 |
| 11 27 | 1 34.05 | − 2 7.2 | 2.263 | 3.041 | 13.3 | 22.1 |

**274220** 2008 $JG_{36}$ 10 24.4 91°.74 1°.6/23.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.99 | +10 50.9 | 1.587 | 2.428 | 16.1 | 21.5 |
| 9 28 | 2 18.80 | +10 6.6 | 1.532 | 2.447 | 12.2 | 21.3 |
| 10 8 | 2 11.22 | + 9 12.0 | 1.499 | 2.465 | 7.7 | 21.1 |
| 10 18 | 2 2.06 | + 8 12.0 | 1.492 | 2.483 | 3.0 | 20.9 |
| 10 28 | 1 52.48 | + 7 13.3 | 1.512 | 2.500 | 2.9 | 20.9 |
| 11 7 | 1 43.67 | + 6 22.8 | 1.559 | 2.518 | 7.3 | 21.2 |
| 11 17 | 1 36.60 | + 5 46.1 | 1.633 | 2.534 | 11.4 | 21.5 |
| 11 27 | 1 31.94 | + 5 26.3 | 1.729 | 2.551 | 14.9 | 21.8 |

**343685** 2011 $BA_{47}$ 10 24.4 259°.47 11°.3/27.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 41.03 | +26 51.1 | 1.162 | 1.951 | 23.8 | 20.5 |
| 9 28 | 2 34.65 | +29 24.1 | 1.083 | 1.944 | 20.3 | 20.2 |
| 10 8 | 2 23.32 | +31 43.7 | 1.021 | 1.937 | 16.4 | 20.0 |
| 10 18 | 2 7.54 | +33 36.4 | 0.981 | 1.929 | 12.8 | 19.7 |
| 10 28 | 1 49.09 | +34 49.9 | 0.965 | 1.922 | 11.3 | 19.6 |
| 11 7 | 1 30.78 | +35 20.4 | 0.973 | 1.914 | 13.1 | 19.7 |
| 11 17 | 1 15.38 | +35 14.7 | 1.004 | 1.906 | 16.8 | 19.9 |
| 11 27 | 1 4.90 | +34 48.4 | 1.054 | 1.898 | 20.8 | 20.1 |

**103698** 2000 $CH_{77}$ 10 24.4 125°.69 4°.4/20.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.07 | + 1 12.5 | 2.116 | 2.959 | 12.5 | 19.5 |
| 9 28 | 2 16.06 | + 0 12.9 | 2.057 | 2.971 | 9.5 | 19.4 |
| 10 8 | 2 9.26 | − 0 47.9 | 2.022 | 2.982 | 6.5 | 19.2 |
| 10 18 | 2 1.28 | − 1 44.4 | 2.015 | 2.992 | 4.5 | 19.1 |
| 10 28 | 1 52.94 | − 2 30.8 | 2.036 | 3.003 | 5.3 | 19.2 |
| 11 7 | 1 45.11 | − 3 2.7 | 2.085 | 3.013 | 8.0 | 19.4 |
| 11 17 | 1 38.54 | − 3 17.5 | 2.161 | 3.022 | 10.9 | 19.6 |
| 11 27 | 1 33.78 | − 3 14.4 | 2.259 | 3.032 | 13.5 | 19.8 |

**443263** 2014 $EE_{15}$ 10 24.4 201°.68 1°.2/25.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.62 | +17 6.8 | 2.252 | 3.056 | 13.2 | 22.7 |
| 9 28 | 2 18.20 | +16 58.9 | 2.162 | 3.052 | 10.3 | 22.5 |
| 10 8 | 2 10.80 | +16 39.5 | 2.095 | 3.047 | 6.9 | 22.2 |
| 10 18 | 2 1.96 | +16 9.6 | 2.055 | 3.042 | 3.2 | 22.0 |
| 10 28 | 1 52.52 | +15 32.1 | 2.045 | 3.036 | 1.6 | 21.9 |
| 11 7 | 1 43.44 | +14 51.3 | 2.064 | 3.029 | 5.1 | 22.1 |
| 11 17 | 1 35.57 | +14 12.3 | 2.112 | 3.022 | 8.8 | 22.3 |
| 11 27 | 1 29.61 | +13 39.8 | 2.186 | 3.015 | 12.0 | 22.5 |

**393104** 2013 $AK_{160}$ 10 24.4 98°.58 0°.4/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.53 | +14 0.6 | 2.088 | 2.911 | 13.4 | 21.6 |
| 9 28 | 2 15.70 | +13 13.6 | 2.025 | 2.929 | 10.2 | 21.4 |
| 10 8 | 2 9.04 | +12 15.7 | 1.986 | 2.947 | 6.5 | 21.2 |
| 10 18 | 2 1.19 | +11 10.5 | 1.974 | 2.965 | 2.5 | 21.0 |
| 10 28 | 1 53.00 | +10 3.4 | 1.991 | 2.982 | 1.7 | 21.0 |
| 11 7 | 1 45.37 | + 9 0.4 | 2.038 | 2.999 | 5.6 | 21.3 |
| 11 17 | 1 39.03 | + 8 6.7 | 2.113 | 3.016 | 9.1 | 21.5 |
| 11 27 | 1 34.57 | + 7 26.3 | 2.212 | 3.032 | 12.2 | 21.8 |

**99339** 2001 $XY_{26}$ 10 24.4 311°.62 0°.2/24.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.16 | +12 3.8 | 1.231 | 2.086 | 19.0 | 18.6 |
| 9 28 | 2 20.14 | +12 7.4 | 1.154 | 2.074 | 14.7 | 18.3 |
| 10 8 | 2 12.84 | +11 59.1 | 1.096 | 2.063 | 9.6 | 18.0 |
| 10 18 | 2 2.97 | +11 40.9 | 1.061 | 2.052 | 3.8 | 17.6 |
| 10 28 | 1 51.91 | +11 17.5 | 1.050 | 2.041 | 2.3 | 17.5 |
| 11 7 | 1 41.37 | +10 55.5 | 1.064 | 2.031 | 8.3 | 17.9 |
| 11 17 | 1 32.90 | +10 41.7 | 1.101 | 2.022 | 13.9 | 18.1 |
| 11 27 | 1 27.63 | +10 41.7 | 1.159 | 2.013 | 18.6 | 18.4 |

**428520** 2008 $AS_{21}$ 10 24.4 177°.69 0°.6/24.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.47 | +15 36.1 | 1.815 | 2.633 | 15.3 | 22.4 |
| 9 28 | 2 19.97 | +15 19.8 | 1.736 | 2.635 | 11.9 | 22.2 |
| 10 8 | 2 12.08 | +14 50.4 | 1.679 | 2.637 | 7.8 | 22.0 |
| 10 18 | 2 2.49 | +14 9.9 | 1.648 | 2.638 | 3.3 | 21.7 |
| 10 28 | 1 52.24 | +13 22.4 | 1.646 | 2.638 | 1.6 | 21.6 |
| 11 7 | 1 42.51 | +12 34.0 | 1.672 | 2.637 | 6.1 | 21.9 |
| 11 17 | 1 34.33 | +11 50.8 | 1.726 | 2.636 | 10.4 | 22.2 |
| 11 27 | 1 28.49 | +11 18.3 | 1.804 | 2.635 | 14.0 | 22.4 |

**235327** 2003 $UY_{191}$ 10 24.4 296°.33 3°.5/28.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.41 | +28 5.4 | 2.390 | 3.153 | 13.7 | 20.5 |
| 9 28 | 2 14.44 | +27 22.9 | 2.266 | 3.121 | 11.3 | 20.2 |
| 10 8 | 2 8.50 | +26 18.7 | 2.164 | 3.088 | 8.4 | 20.0 |
| 10 18 | 2 1.10 | +24 52.3 | 2.088 | 3.055 | 5.4 | 19.8 |
| 10 28 | 1 53.02 | +23 6.5 | 2.040 | 3.022 | 3.5 | 19.6 |
| 11 7 | 1 45.16 | +21 7.4 | 2.023 | 2.989 | 5.2 | 19.6 |
| 11 17 | 1 38.40 | +19 3.3 | 2.036 | 2.955 | 8.5 | 19.8 |
| 11 27 | 1 33.46 | +17 3.4 | 2.077 | 2.921 | 11.9 | 19.9 |

**348024** 2003 $TX_5$ 10 24.4 353°.77 3°.2/26.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.06 | +17 21.6 | 1.341 | 2.179 | 18.7 | 19.9 |
| 9 28 | 2 19.10 | +18 9.5 | 1.267 | 2.173 | 14.8 | 19.6 |
| 10 8 | 2 12.06 | +18 44.1 | 1.213 | 2.169 | 10.3 | 19.4 |
| 10 18 | 2 2.64 | +19 3.9 | 1.181 | 2.165 | 5.5 | 19.1 |
| 10 28 | 1 52.16 | +19 9.6 | 1.174 | 2.163 | 3.4 | 19.0 |
| 11 7 | 1 42.20 | +19 5.2 | 1.192 | 2.161 | 7.3 | 19.2 |
| 11 17 | 1 34.19 | +18 56.5 | 1.235 | 2.161 | 12.1 | 19.5 |
| 11 27 | 1 29.20 | +18 50.5 | 1.299 | 2.162 | 16.4 | 19.7 |

**39505** 1981 $EX_{40}$ 10 24.4 350°.50 3°.9/27.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.37 | +23 27.7 | 2.132 | 2.917 | 14.4 | 19.3 |
| 9 28 | 2 17.49 | +23 53.8 | 2.047 | 2.917 | 11.7 | 19.1 |
| 10 8 | 2 10.47 | +24 5.4 | 1.983 | 2.916 | 8.6 | 18.9 |
| 10 18 | 2 1.88 | +24 1.5 | 1.945 | 2.915 | 5.4 | 18.7 |
| 10 28 | 1 52.62 | +23 43.0 | 1.934 | 2.915 | 3.9 | 18.6 |
| 11 7 | 1 43.73 | +23 13.4 | 1.952 | 2.915 | 5.7 | 18.7 |
| 11 17 | 1 36.15 | +22 37.9 | 1.997 | 2.914 | 8.8 | 18.9 |
| 11 27 | 1 30.62 | +22 2.4 | 2.068 | 2.914 | 11.9 | 19.1 |

**308879** 2006 $SU_{78}$ 10 24.4 33°.06 7°.7/30.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.32 | +30 27.8 | 1.507 | 2.285 | 19.7 | 20.0 |
| 9 28 | 2 19.04 | +31 19.4 | 1.447 | 2.300 | 16.6 | 19.8 |
| 10 8 | 2 11.80 | +31 46.2 | 1.404 | 2.316 | 13.0 | 19.6 |
| 10 18 | 2 2.45 | +31 44.5 | 1.383 | 2.332 | 9.7 | 19.5 |
| 10 28 | 1 52.33 | +31 14.7 | 1.386 | 2.349 | 7.7 | 19.4 |
| 11 7 | 1 42.98 | +30 22.0 | 1.414 | 2.367 | 8.5 | 19.5 |
| 11 17 | 1 35.66 | +29 15.7 | 1.467 | 2.386 | 11.2 | 19.7 |
| 11 27 | 1 31.25 | +28 6.2 | 1.542 | 2.405 | 14.3 | 20.0 |

**407038** 2009 $SL_{81}$ 10 24.4 341°.50 3°.4/27.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.73 | +21 38.5 | 2.039 | 2.836 | 14.6 | 20.7 |
| 9 28 | 2 17.08 | +22 2.5 | 1.954 | 2.833 | 11.7 | 20.5 |
| 10 8 | 2 10.25 | +22 12.7 | 1.890 | 2.830 | 8.4 | 20.3 |
| 10 18 | 2 1.81 | +22 8.3 | 1.851 | 2.827 | 5.0 | 20.1 |
| 10 28 | 1 52.67 | +21 50.6 | 1.840 | 2.825 | 3.4 | 20.0 |
| 11 7 | 1 43.89 | +21 23.2 | 1.857 | 2.822 | 5.6 | 20.2 |
| 11 17 | 1 36.45 | +20 51.4 | 1.902 | 2.820 | 9.1 | 20.4 |
| 11 27 | 1 31.10 | +20 20.8 | 1.971 | 2.819 | 12.3 | 20.6 |

**325665** 2009 $SJ_{360}$ 10 24.4 43°.07 1°.4/23.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.51 | + 8 23.6 | 2.029 | 2.865 | 13.3 | 20.3 |
| 9 28 | 2 16.60 | + 8 14.8 | 1.960 | 2.871 | 10.1 | 20.1 |
| 10 8 | 2 9.74 | + 8 0.6 | 1.914 | 2.879 | 6.4 | 19.9 |
| 10 18 | 2 1.54 | + 7 43.8 | 1.895 | 2.886 | 2.6 | 19.7 |
| 10 28 | 1 52.87 | + 7 28.0 | 1.905 | 2.893 | 2.4 | 19.7 |
| 11 7 | 1 44.67 | + 7 17.1 | 1.943 | 2.901 | 6.1 | 19.9 |
| 11 17 | 1 37.78 | + 7 14.2 | 2.008 | 2.909 | 9.7 | 20.2 |
| 11 27 | 1 32.83 | + 7 21.6 | 2.098 | 2.917 | 12.8 | 20.4 |

**519239** 2010 $VJ_{227}$ 10 24.4 211°.45 4°.0/21.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.42 | + 4 55.7 | 1.522 | 2.376 | 16.0 | 21.5 |
| 9 28 | 2 18.71 | + 4 7.5 | 1.454 | 2.375 | 12.2 | 21.2 |
| 10 8 | 2 11.41 | + 3 13.4 | 1.407 | 2.373 | 8.0 | 21.0 |
| 10 18 | 2 2.27 | + 2 19.7 | 1.385 | 2.372 | 4.4 | 20.8 |
| 10 28 | 1 52.45 | + 1 33.7 | 1.390 | 2.370 | 5.1 | 20.8 |
| 11 7 | 1 43.22 | + 1 2.2 | 1.421 | 2.368 | 9.1 | 21.0 |
| 11 17 | 1 35.70 | + 0 49.4 | 1.477 | 2.367 | 13.3 | 21.3 |
| 11 27 | 1 30.70 | + 0 57.2 | 1.555 | 2.365 | 16.9 | 21.5 |

**97557** 2000 $DZ_{71}$ 10 24.4 329°.25 1°.5/25.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.06 | +17 3.3 | 1.954 | 2.775 | 14.3 | 19.0 |
| 9 28 | 2 15.11 | +17 6.4 | 1.865 | 2.764 | 11.2 | 18.8 |
| 10 8 | 2 9.01 | +16 57.4 | 1.798 | 2.753 | 7.6 | 18.5 |
| 10 18 | 2 1.33 | +16 37.1 | 1.756 | 2.742 | 3.6 | 18.3 |
| 10 28 | 1 52.95 | +16 8.3 | 1.741 | 2.732 | 1.9 | 18.1 |
| 11 7 | 1 44.89 | +15 35.4 | 1.755 | 2.723 | 5.6 | 18.3 |
| 11 17 | 1 38.11 | +15 3.8 | 1.795 | 2.714 | 9.5 | 18.6 |
| 11 27 | 1 33.37 | +14 38.5 | 1.860 | 2.705 | 13.0 | 18.8 |

**469114** 2015 $DC_{109}$ 10 24.4 166°.11 3°.9/22.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.09 | + 3 34.3 | 1.536 | 2.384 | 16.2 | 21.3 |
| 9 28 | 2 21.45 | + 3 7.4 | 1.469 | 2.386 | 12.4 | 21.1 |
| 10 8 | 2 13.15 | + 2 37.4 | 1.424 | 2.388 | 8.1 | 20.8 |
| 10 18 | 2 2.95 | + 2 9.7 | 1.403 | 2.389 | 4.5 | 20.6 |
| 10 28 | 1 52.07 | + 1 50.2 | 1.410 | 2.391 | 5.0 | 20.7 |
| 11 7 | 1 41.84 | + 1 44.0 | 1.444 | 2.392 | 8.9 | 20.9 |
| 11 17 | 1 33.41 | + 1 53.9 | 1.503 | 2.392 | 13.1 | 21.1 |
| 11 27 | 1 27.61 | + 2 21.1 | 1.584 | 2.393 | 16.7 | 21.4 |

**284762** 2008 $WN_{41}$ 10 24.4 127°.29 1°.9/26.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.34 | +19 27.0 | 1.842 | 2.653 | 15.4 | 21.3 |
| 9 28 | 2 17.58 | +19 13.5 | 1.766 | 2.658 | 12.1 | 21.1 |
| 10 8 | 2 10.54 | +18 44.2 | 1.713 | 2.663 | 8.3 | 20.9 |
| 10 18 | 2 1.91 | +18 0.4 | 1.684 | 2.668 | 4.1 | 20.6 |
| 10 28 | 1 52.69 | +17 6.0 | 1.683 | 2.673 | 2.1 | 20.5 |
| 11 7 | 1 44.00 | +16 7.2 | 1.710 | 2.678 | 5.7 | 20.8 |
| 11 17 | 1 36.82 | +15 10.6 | 1.765 | 2.683 | 9.7 | 21.0 |
| 11 27 | 1 31.87 | +14 22.8 | 1.844 | 2.687 | 13.2 | 21.2 |

**333021** 2011 $QU_{64}$ 10 24.4 104°.79 5°.0/28.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.31 | +26 48.9 | 2.005 | 2.773 | 15.8 | 20.7 |
| 9 28 | 2 20.53 | +27 16.7 | 1.934 | 2.788 | 13.0 | 20.5 |
| 10 8 | 2 12.40 | +27 26.5 | 1.884 | 2.804 | 9.8 | 20.4 |
| 10 18 | 2 2.63 | +27 16.6 | 1.859 | 2.819 | 6.6 | 20.2 |
| 10 28 | 1 52.29 | +26 48.1 | 1.861 | 2.834 | 5.0 | 20.1 |
| 11 7 | 1 42.52 | +26 5.2 | 1.891 | 2.849 | 6.3 | 20.2 |
| 11 17 | 1 34.34 | +25 14.5 | 1.949 | 2.863 | 9.1 | 20.4 |
| 11 27 | 1 28.48 | +24 23.1 | 2.032 | 2.877 | 12.1 | 20.7 |

**485006** 2009 $VE_{83}$ 10 24.4 73°.45 0°.9/23.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.95 | + 8 35.0 | 2.295 | 3.119 | 12.3 | 21.0 |
| 9 28 | 2 18.28 | + 8 43.6 | 2.218 | 3.123 | 9.4 | 20.8 |
| 10 8 | 2 10.76 | + 8 48.1 | 2.165 | 3.127 | 6.0 | 20.6 |
| 10 18 | 2 1.96 | + 8 50.0 | 2.140 | 3.131 | 2.4 | 20.4 |
| 10 28 | 1 52.66 | + 8 51.8 | 2.145 | 3.135 | 1.9 | 20.4 |
| 11 7 | 1 43.77 | + 8 56.2 | 2.180 | 3.139 | 5.5 | 20.6 |
| 11 17 | 1 36.07 | + 9 5.6 | 2.243 | 3.143 | 8.8 | 20.8 |
| 11 27 | 1 30.18 | + 9 22.1 | 2.332 | 3.147 | 11.8 | 21.0 |

**517375** 2014 $KS_{56}$ 10 24.4 218°.42 0°.2/24.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.07 | +16 41.3 | 2.303 | 3.114 | 12.7 | 22.0 |
| 9 28 | 2 15.46 | +15 50.9 | 2.210 | 3.106 | 9.8 | 21.8 |
| 10 8 | 2 9.02 | +14 46.8 | 2.140 | 3.097 | 6.4 | 21.6 |
| 10 18 | 2 1.29 | +13 31.7 | 2.098 | 3.088 | 2.6 | 21.3 |
| 10 28 | 1 53.04 | +12 10.6 | 2.086 | 3.078 | 1.4 | 21.2 |
| 11 7 | 1 45.13 | +10 49.7 | 2.104 | 3.068 | 5.3 | 21.5 |
| 11 17 | 1 38.34 | + 9 35.3 | 2.152 | 3.057 | 8.9 | 21.7 |
| 11 27 | 1 33.32 | + 8 32.7 | 2.224 | 3.045 | 12.1 | 21.9 |

**81363** 2000 $GO_{60}$ 10 24.4 84°.55 0°.4/24.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.02 | +14 29.9 | 1.908 | 2.739 | 14.2 | 19.5 |
| 9 28 | 2 14.88 | +13 40.2 | 1.836 | 2.744 | 10.9 | 19.3 |
| 10 8 | 2 8.71 | +12 37.5 | 1.787 | 2.749 | 6.9 | 19.1 |
| 10 18 | 2 1.17 | +11 25.7 | 1.764 | 2.755 | 2.7 | 18.8 |
| 10 28 | 1 53.14 | +10 10.7 | 1.769 | 2.760 | 1.8 | 18.8 |
| 11 7 | 1 45.62 | + 8 59.5 | 1.803 | 2.766 | 6.0 | 19.1 |
| 11 17 | 1 39.45 | + 7 58.5 | 1.864 | 2.771 | 9.9 | 19.3 |
| 11 27 | 1 35.28 | + 7 12.2 | 1.950 | 2.777 | 13.3 | 19.5 |

**356699** 2011 $US_{138}$ 10 24.4 7°.91 2°.9/26.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.86 | +21 28.1 | 1.694 | 2.508 | 16.4 | 20.8 |
| 9 28 | 2 15.98 | +21 23.9 | 1.618 | 2.508 | 13.1 | 20.6 |
| 10 8 | 2 9.67 | +21 1.6 | 1.562 | 2.509 | 9.2 | 20.4 |
| 10 18 | 2 1.61 | +20 21.6 | 1.529 | 2.510 | 5.1 | 20.1 |
| 10 28 | 1 52.88 | +19 27.6 | 1.524 | 2.512 | 3.0 | 20.0 |
| 11 7 | 1 44.66 | +18 25.8 | 1.545 | 2.514 | 6.1 | 20.2 |
| 11 17 | 1 38.01 | +17 24.0 | 1.593 | 2.516 | 10.1 | 20.5 |
| 11 27 | 1 33.72 | +16 29.7 | 1.665 | 2.519 | 13.8 | 20.7 |

**49974** 1999 $YT_{2}$ 10 24.4 140°.01 0°.9/25.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.39 | +16 30.0 | 1.898 | 2.711 | 15.0 | 19.2 |
| 9 28 | 2 19.72 | +16 10.8 | 1.827 | 2.723 | 11.6 | 19.0 |
| 10 8 | 2 11.82 | +15 38.4 | 1.779 | 2.734 | 7.6 | 18.8 |
| 10 18 | 2 2.40 | +14 54.9 | 1.756 | 2.744 | 3.3 | 18.5 |
| 10 28 | 1 52.46 | +14 4.4 | 1.763 | 2.754 | 1.6 | 18.4 |
| 11 7 | 1 43.12 | +13 12.8 | 1.798 | 2.764 | 5.8 | 18.7 |
| 11 17 | 1 35.30 | +12 26.2 | 1.862 | 2.772 | 9.7 | 19.0 |
| 11 27 | 1 29.71 | +11 49.7 | 1.950 | 2.780 | 13.1 | 19.2 |

**226300** 2003 $BK_{69}$ 10 24.4 179°.23 1°.5/23.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.11 | +10 25.5 | 1.911 | 2.744 | 14.1 | 21.8 |
| 9 28 | 2 18.01 | + 9 46.4 | 1.835 | 2.745 | 10.7 | 21.6 |
| 10 8 | 2 10.75 | + 8 57.9 | 1.782 | 2.746 | 6.8 | 21.4 |
| 10 18 | 2 2.00 | + 8 4.1 | 1.756 | 2.746 | 2.8 | 21.1 |
| 10 28 | 1 52.68 | + 7 10.2 | 1.758 | 2.746 | 2.6 | 21.1 |
| 11 7 | 1 43.85 | + 6 22.5 | 1.789 | 2.746 | 6.7 | 21.4 |
| 11 17 | 1 36.41 | + 5 45.9 | 1.847 | 2.745 | 10.6 | 21.6 |
| 11 27 | 1 31.09 | + 5 24.1 | 1.929 | 2.743 | 13.9 | 21.8 |

**220114** 2002 $TF_{39}$ 10 24.4 9°.08 0°.9/24.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.06 | +12 56.5 | 1.208 | 2.060 | 19.4 | 19.2 |
| 9 28 | 2 20.72 | +13 25.0 | 1.143 | 2.061 | 15.1 | 18.9 |
| 10 8 | 2 13.12 | +13 42.4 | 1.098 | 2.063 | 9.9 | 18.6 |
| 10 18 | 2 3.08 | +13 49.3 | 1.075 | 2.065 | 4.2 | 18.3 |
| 10 28 | 1 52.07 | +13 48.6 | 1.076 | 2.068 | 2.1 | 18.2 |
| 11 7 | 1 41.78 | +13 45.3 | 1.103 | 2.073 | 7.8 | 18.5 |
| 11 17 | 1 33.70 | +13 45.2 | 1.153 | 2.078 | 13.0 | 18.9 |
| 11 27 | 1 28.81 | +13 53.6 | 1.225 | 2.083 | 17.5 | 19.2 |

**298437** 2003 $UN_{19}$ 10 24.4 349°.26 1°.5/25.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.40 | +21 8.0 | 1.370 | 2.209 | 18.3 | 19.9 |
| 9 28 | 2 12.28 | +20 7.8 | 1.294 | 2.202 | 14.4 | 19.6 |
| 10 8 | 2 7.52 | +18 41.0 | 1.236 | 2.195 | 9.8 | 19.3 |
| 10 18 | 2 0.81 | +16 51.0 | 1.202 | 2.190 | 4.6 | 19.0 |
| 10 28 | 1 53.35 | +14 46.6 | 1.194 | 2.186 | 2.0 | 18.8 |
| 11 7 | 1 46.47 | +12 40.3 | 1.212 | 2.183 | 7.0 | 19.1 |
| 11 17 | 1 41.33 | +10 44.7 | 1.255 | 2.180 | 12.1 | 19.4 |
| 11 27 | 1 38.75 | + 9 10.1 | 1.320 | 2.179 | 16.4 | 19.7 |

**425803** 2011 $CY_{117}$ 10 24.4 101°.41 2°.7/26.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.60 | +19 28.6 | 1.640 | 2.451 | 17.0 | 20.8 |
| 9 28 | 2 21.06 | +19 41.3 | 1.573 | 2.464 | 13.4 | 20.6 |
| 10 8 | 2 12.89 | +19 38.1 | 1.527 | 2.476 | 9.2 | 20.4 |
| 10 18 | 2 2.88 | +19 19.2 | 1.505 | 2.488 | 4.9 | 20.2 |
| 10 28 | 1 52.21 | +18 47.3 | 1.510 | 2.499 | 2.8 | 20.1 |
| 11 7 | 1 42.23 | +18 8.1 | 1.543 | 2.511 | 6.3 | 20.3 |
| 11 17 | 1 34.05 | +17 28.4 | 1.603 | 2.522 | 10.4 | 20.6 |
| 11 27 | 1 28.47 | +16 54.7 | 1.687 | 2.533 | 14.1 | 20.9 |

**108853** 2001 $OL_{94}$ 10 24.4 23°.84 4°.6/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.85 | +20 52.9 | 1.256 | 2.085 | 20.2 | 19.1 |
| 9 28 | 2 20.57 | +21 39.2 | 1.193 | 2.091 | 16.2 | 18.9 |
| 10 8 | 2 13.02 | +22 6.7 | 1.149 | 2.098 | 11.6 | 18.6 |
| 10 18 | 2 3.05 | +22 13.2 | 1.127 | 2.106 | 6.9 | 18.4 |
| 10 28 | 1 52.12 | +21 59.8 | 1.129 | 2.114 | 4.6 | 18.3 |
| 11 7 | 1 41.97 | +21 32.1 | 1.155 | 2.124 | 7.7 | 18.5 |
| 11 17 | 1 34.03 | +20 58.4 | 1.206 | 2.134 | 12.2 | 18.8 |
| 11 27 | 1 29.31 | +20 27.7 | 1.278 | 2.144 | 16.4 | 19.1 |

**260638** 2005 $GB_{126}$ 10 24.4 175°.59 0°.8/23.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.08 | +11 51.7 | 1.593 | 2.429 | 16.3 | 21.1 |
| 9 28 | 2 19.95 | +11 28.8 | 1.520 | 2.431 | 12.5 | 20.9 |
| 10 8 | 2 12.23 | +10 54.7 | 1.468 | 2.432 | 8.0 | 20.6 |
| 10 18 | 2 2.65 | +10 12.7 | 1.441 | 2.432 | 3.1 | 20.3 |
| 10 28 | 1 52.35 | + 9 28.1 | 1.442 | 2.433 | 2.3 | 20.3 |
| 11 7 | 1 42.64 | + 8 47.7 | 1.470 | 2.433 | 7.2 | 20.6 |
| 11 17 | 1 34.63 | + 8 17.1 | 1.525 | 2.432 | 11.7 | 20.9 |
| 11 27 | 1 29.17 | + 8 1.0 | 1.602 | 2.432 | 15.5 | 21.1 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **481670** 2007 $VZ_{318}$ | | | 10 24.4 346°.92 | | 1°.0/25.0 16 | |
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 17.78 | +15 17.3 | 1.322 | 2.175 | 18.0 | 21.4 |
| 9 28 | 2 15.02 | +15 17.8 | 1.247 | 2.165 | 14.1 | 21.2 |
| 10 8 | 2 9.40 | +15 3.0 | 1.191 | 2.156 | 9.3 | 20.9 |
| 10 18 | 2 1.62 | +14 34.8 | 1.157 | 2.147 | 4.1 | 20.5 |
| 10 28 | 1 52.90 | +13 57.5 | 1.148 | 2.141 | 2.0 | 20.4 |
| 11 7 | 1 44.68 | +13 18.4 | 1.164 | 2.135 | 7.3 | 20.7 |
| 11 17 | 1 38.27 | +12 44.8 | 1.204 | 2.131 | 12.4 | 21.0 |
| 11 27 | 1 34.63 | +12 23.4 | 1.265 | 2.128 | 16.8 | 21.2 |
| **439070** 2011 $JV_{17}$ | | | 10 24.4 67°.63 | | 7°.1/18.9 16 | |
| 9 18 | 2 23.29 | − 2 26.7 | 1.543 | 2.400 | 15.7 | 20.8 |
| 9 28 | 2 18.06 | − 4 3.5 | 1.513 | 2.431 | 12.1 | 20.7 |
| 10 8 | 2 10.63 | − 5 36.3 | 1.507 | 2.461 | 8.8 | 20.5 |
| 10 18 | 2 1.86 | − 6 56.1 | 1.526 | 2.492 | 7.2 | 20.5 |
| 10 28 | 1 52.89 | − 7 54.6 | 1.571 | 2.523 | 8.3 | 20.7 |
| 11 7 | 1 44.82 | − 8 27.2 | 1.642 | 2.553 | 11.0 | 20.9 |
| 11 17 | 1 38.50 | − 8 33.3 | 1.737 | 2.582 | 13.9 | 21.2 |
| 11 27 | 1 34.48 | − 8 14.7 | 1.852 | 2.612 | 16.4 | 21.4 |
| **453093** 2007 $VW_{202}$ | | | 10 24.4 338°.19 | | 18°.2/ 9.6 17 | |
| 9 18 | 2 21.16 | +48 29.9 | 1.060 | 1.780 | 29.6 | 20.5 |
| 9 28 | 2 20.03 | +50 2.7 | 0.993 | 1.773 | 27.4 | 20.3 |
| 10 8 | 2 13.99 | +50 51.0 | 0.935 | 1.767 | 24.8 | 20.0 |
| 10 18 | 2 3.80 | +50 40.6 | 0.888 | 1.762 | 22.1 | 19.8 |
| 10 28 | 1 51.66 | +49 21.3 | 0.856 | 1.758 | 19.6 | 19.7 |
| 11 7 | 1 40.55 | +46 54.5 | 0.841 | 1.754 | 18.3 | 19.6 |
| 11 17 | 1 33.01 | +43 34.6 | 0.845 | 1.751 | 18.8 | 19.6 |
| 11 27 | 1 30.46 | +39 47.2 | 0.868 | 1.749 | 20.8 | 19.7 |
| **513925** 2014 $CK_{7}$ | | | 10 24.4 259°.13 | | 2°.0/22.9 18 | |
| 9 18 | 2 22.67 | + 8 58.6 | 1.781 | 2.621 | 14.7 | 21.8 |
| 9 28 | 2 18.02 | + 8 25.3 | 1.693 | 2.607 | 11.2 | 21.5 |
| 10 8 | 2 10.99 | + 7 43.1 | 1.628 | 2.593 | 7.2 | 21.3 |
| 10 18 | 2 2.20 | + 6 55.9 | 1.588 | 2.578 | 3.1 | 21.0 |
| 10 28 | 1 52.62 | + 6 9.5 | 1.576 | 2.563 | 3.1 | 20.9 |
| 11 7 | 1 43.40 | + 5 30.0 | 1.592 | 2.548 | 7.4 | 21.2 |
| 11 17 | 1 35.59 | + 5 2.7 | 1.634 | 2.532 | 11.6 | 21.4 |
| 11 27 | 1 30.03 | + 4 51.3 | 1.699 | 2.516 | 15.3 | 21.6 |
| **364903** 2008 $EZ_{122}$ | | | 10 24.4 236°.25 | | 0°.2/24.2 18 | |
| 9 18 | 2 20.50 | +13 1.3 | 2.301 | 3.121 | 12.4 | 22.2 |
| 9 28 | 2 15.81 | +12 40.3 | 2.210 | 3.113 | 9.5 | 22.0 |
| 10 8 | 2 9.29 | +12 10.2 | 2.144 | 3.104 | 6.1 | 21.8 |
| 10 18 | 2 1.45 | +11 33.2 | 2.104 | 3.095 | 2.4 | 21.5 |
| 10 28 | 1 53.06 | +10 53.0 | 2.094 | 3.086 | 1.5 | 21.5 |
| 11 7 | 1 44.98 | +10 14.0 | 2.114 | 3.076 | 5.3 | 21.7 |
| 11 17 | 1 37.99 | + 9 40.7 | 2.161 | 3.066 | 8.9 | 21.9 |
| 11 27 | 1 32.75 | + 9 16.8 | 2.234 | 3.056 | 12.0 | 22.1 |
| **4978** Seitz | | | 10 24.4 351°.80 | | 4°.4/21.3 18 | |
| 9 18 | 2 14.82 | + 6 19.2 | 1.228 | 2.107 | 17.4 | 16.4 |
| 9 28 | 2 12.71 | + 5 14.3 | 1.163 | 2.098 | 13.2 | 16.1 |
| 10 8 | 2 7.85 | + 3 59.5 | 1.119 | 2.091 | 8.6 | 15.8 |
| 10 18 | 2 0.99 | + 2 42.8 | 1.097 | 2.086 | 4.8 | 15.6 |
| 10 28 | 1 53.33 | + 1 34.7 | 1.099 | 2.081 | 5.8 | 15.7 |
| 11 7 | 1 46.27 | + 0 44.5 | 1.126 | 2.078 | 10.3 | 15.9 |
| 11 17 | 1 41.00 | + 0 18.4 | 1.174 | 2.077 | 14.8 | 16.2 |
| 11 27 | 1 38.39 | + 0 18.7 | 1.242 | 2.077 | 18.8 | 16.4 |
| **200535** 2001 $DN_{92}$ | | | 10 24.4 333°.64 | | 11°.9/15.7 18 | |
| 9 18 | 2 18.47 | −11 28.8 | 1.297 | 2.166 | 17.3 | 18.8 |
| 9 28 | 2 15.46 | −13 2.3 | 1.236 | 2.149 | 14.6 | 18.5 |
| 10 8 | 2 9.63 | −14 25.9 | 1.195 | 2.132 | 12.5 | 18.4 |
| 10 18 | 2 1.70 | −15 27.1 | 1.176 | 2.116 | 12.0 | 18.3 |
| 10 28 | 1 52.93 | −15 55.2 | 1.179 | 2.102 | 13.4 | 18.3 |
| 11 7 | 1 44.72 | −15 44.5 | 1.202 | 2.089 | 16.1 | 18.5 |
| 11 17 | 1 38.34 | −14 55.0 | 1.245 | 2.076 | 19.2 | 18.6 |
| 11 27 | 1 34.68 | −13 31.3 | 1.305 | 2.065 | 22.1 | 18.8 |
| **97305** 1999 $XU_{191}$ | | | 10 24.4 263°.95 | | 0°.9/25.2 17 | |
| 9 18 | 2 20.83 | +15 39.9 | 2.373 | 3.184 | 12.4 | 20.2 |
| 9 28 | 2 16.08 | +15 39.7 | 2.279 | 3.173 | 9.6 | 20.0 |
| 10 8 | 2 9.48 | +15 29.9 | 2.208 | 3.163 | 6.4 | 19.8 |
| 10 18 | 2 1.54 | +15 11.7 | 2.164 | 3.152 | 2.9 | 19.6 |
| 10 28 | 1 53.01 | +14 47.5 | 2.150 | 3.141 | 1.4 | 19.4 |
| 11 7 | 1 44.75 | +14 20.9 | 2.165 | 3.130 | 4.9 | 19.7 |
| 11 17 | 1 37.56 | +13 55.9 | 2.208 | 3.120 | 8.4 | 19.9 |
| 11 27 | 1 32.10 | +13 36.6 | 2.277 | 3.109 | 11.5 | 20.1 |
| **8241** Agrius | | | 10 24.4 98°.29 | | 0°.2/24.7 18 | |
| 9 18 | 2 12.51 | +13 52.5 | 4.378 | 5.185 | 7.2 | 18.5 |
| 9 28 | 2 8.92 | +13 39.4 | 4.294 | 5.188 | 5.5 | 18.4 |
| 10 8 | 2 4.47 | +13 21.5 | 4.235 | 5.191 | 3.5 | 18.2 |
| 10 18 | 1 59.45 | +13 0.0 | 4.205 | 5.194 | 1.4 | 18.1 |
| 10 28 | 1 54.21 | +12 36.5 | 4.206 | 5.198 | 0.7 | 18.0 |
| 11 7 | 1 49.14 | +12 13.2 | 4.238 | 5.201 | 2.8 | 18.2 |
| 11 17 | 1 44.60 | +11 51.8 | 4.299 | 5.204 | 4.8 | 18.4 |
| 11 27 | 1 40.90 | +11 34.3 | 4.388 | 5.207 | 6.6 | 18.5 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **266968** 2010 $VS_{84}$ | | | 10 24.4 279°.40 | | 0°.4/24.8 18 | |
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.97 | +15 11.2 | 2.180 | 3.000 | 13.0 | 21.4 |
| 9 28 | 2 14.77 | +14 49.5 | 2.091 | 2.992 | 10.1 | 21.2 |
| 10 8 | 2 8.68 | +14 16.7 | 2.026 | 2.984 | 6.6 | 21.0 |
| 10 18 | 2 1.22 | +13 34.8 | 1.987 | 2.976 | 2.7 | 20.7 |
| 10 28 | 1 53.21 | +12 47.6 | 1.976 | 2.968 | 1.4 | 20.6 |
| 11 7 | 1 45.52 | +12 0.0 | 1.995 | 2.960 | 5.3 | 20.9 |
| 11 17 | 1 38.98 | +11 17.2 | 2.041 | 2.952 | 9.0 | 21.1 |
| 11 27 | 1 34.25 | +10 43.8 | 2.112 | 2.944 | 12.2 | 21.3 |
| **324750** 2007 $FR_{32}$ | | | 10 24.4 153°.78 | | 0°.8/23.5 18 | |
| 9 18 | 2 18.53 | +11 16.4 | 2.715 | 3.536 | 10.7 | 22.0 |
| 9 28 | 2 13.92 | +10 41.7 | 2.638 | 3.542 | 8.1 | 21.8 |
| 10 8 | 2 7.87 | +10 0.1 | 2.586 | 3.547 | 5.1 | 21.6 |
| 10 18 | 2 0.83 | + 9 14.3 | 2.562 | 3.553 | 2.0 | 21.4 |
| 10 28 | 1 53.46 | + 8 27.9 | 2.568 | 3.557 | 1.7 | 21.4 |
| 11 7 | 1 46.42 | + 7 45.0 | 2.605 | 3.562 | 4.8 | 21.6 |
| 11 17 | 1 40.32 | + 7 9.1 | 2.670 | 3.566 | 7.7 | 21.8 |
| 11 27 | 1 35.66 | + 6 43.0 | 2.761 | 3.570 | 10.3 | 22.0 |
| **273534** 2007 $BM_{33}$ | | | 10 24.4 298°.46 | | 3°.6/21.9 18 | |
| 9 18 | 2 21.05 | + 6 37.5 | 1.430 | 2.290 | 16.5 | 21.3 |
| 9 28 | 2 17.27 | + 5 48.5 | 1.351 | 2.275 | 12.7 | 21.0 |
| 10 8 | 2 10.76 | + 4 50.5 | 1.292 | 2.261 | 8.2 | 20.7 |
| 10 18 | 2 2.18 | + 3 49.4 | 1.258 | 2.247 | 4.2 | 20.4 |
| 10 28 | 1 52.67 | + 2 53.5 | 1.249 | 2.233 | 4.9 | 20.4 |
| 11 7 | 1 43.62 | + 2 10.8 | 1.267 | 2.219 | 9.4 | 20.7 |
| 11 17 | 1 36.26 | + 1 47.4 | 1.308 | 2.205 | 14.0 | 20.9 |
| 11 27 | 1 31.54 | + 1 46.4 | 1.369 | 2.192 | 18.1 | 21.1 |
| **223123** 2002 $VL_{39}$ | | | 10 24.4 11°.90 | | 7°.4/21.0 18 | |
| 9 18 | 2 20.56 | − 1 13.9 | 0.969 | 1.858 | 20.1 | 19.2 |
| 9 28 | 2 17.48 | − 1 50.8 | 0.925 | 1.861 | 15.6 | 18.9 |
| 10 8 | 2 11.04 | − 2 24.4 | 0.898 | 1.867 | 10.9 | 18.7 |
| 10 18 | 2 2.25 | − 2 45.6 | 0.892 | 1.873 | 7.6 | 18.6 |
| 10 28 | 1 52.73 | − 2 45.8 | 0.908 | 1.882 | 8.6 | 18.7 |
| 11 7 | 1 44.21 | − 2 20.4 | 0.946 | 1.892 | 12.6 | 18.9 |
| 11 17 | 1 38.07 | − 1 29.4 | 1.004 | 1.904 | 17.0 | 19.2 |
| 11 27 | 1 35.16 | − 0 15.9 | 1.080 | 1.917 | 20.9 | 19.5 |
| **464743** 2003 $PA_{11}$ | | | 10 24.4 94°.06 | | 5°.1/28.4 16 | |
| 9 18 | 2 30.21 | +26 54.8 | 1.548 | 2.329 | 19.2 | 22.2 |
| 9 28 | 2 23.85 | +27 0.8 | 1.494 | 2.358 | 15.5 | 22.0 |
| 10 8 | 2 14.65 | +26 42.8 | 1.458 | 2.386 | 11.4 | 21.8 |
| 10 18 | 2 3.57 | +25 59.9 | 1.446 | 2.413 | 7.3 | 21.6 |
| 10 28 | 1 52.02 | +24 55.7 | 1.460 | 2.440 | 5.1 | 21.6 |
| 11 7 | 1 41.48 | +23 38.0 | 1.502 | 2.466 | 6.9 | 21.8 |
| 11 17 | 1 33.11 | +22 16.7 | 1.571 | 2.491 | 10.5 | 22.0 |
| 11 27 | 1 27.62 | +21 1.7 | 1.664 | 2.515 | 14.0 | 22.3 |
| **307959** 2004 $GM_{75}$ | | | 10 24.4 146°.02 | | 0°.9/23.7 18 | |
| 9 18 | 2 22.62 | +13 10.1 | 1.749 | 2.582 | 15.2 | 21.1 |
| 9 28 | 2 17.80 | +12 21.7 | 1.679 | 2.588 | 11.6 | 20.9 |
| 10 8 | 2 10.71 | +11 20.5 | 1.631 | 2.594 | 7.4 | 20.7 |
| 10 18 | 2 2.04 | +10 10.7 | 1.608 | 2.600 | 2.9 | 20.4 |
| 10 28 | 1 52.83 | + 8 58.8 | 1.614 | 2.605 | 2.2 | 20.4 |
| 11 7 | 1 44.21 | + 7 52.2 | 1.649 | 2.610 | 6.7 | 20.7 |
| 11 17 | 1 37.12 | + 6 57.3 | 1.710 | 2.614 | 10.9 | 20.9 |
| 11 27 | 1 32.28 | + 6 18.7 | 1.795 | 2.618 | 14.4 | 21.2 |
| **191224** 2002 $RK_{146}$ | | | 10 24.4 199°.91 | | 2°.2/21.7 18 | |
| 9 18 | 2 16.81 | + 6 46.6 | 2.787 | 3.620 | 10.2 | 20.5 |
| 9 28 | 2 12.62 | + 5 53.2 | 2.707 | 3.618 | 7.6 | 20.3 |
| 10 8 | 2 7.05 | + 4 54.8 | 2.651 | 3.615 | 4.9 | 20.1 |
| 10 18 | 2 0.54 | + 3 55.2 | 2.624 | 3.612 | 2.5 | 20.0 |
| 10 28 | 1 53.67 | + 2 58.6 | 2.628 | 3.608 | 3.0 | 20.0 |
| 11 7 | 1 47.09 | + 2 9.4 | 2.661 | 3.605 | 5.6 | 20.2 |
| 11 17 | 1 41.37 | + 1 30.8 | 2.722 | 3.601 | 8.3 | 20.3 |
| 11 27 | 1 37.00 | + 1 5.2 | 2.809 | 3.597 | 10.7 | 20.5 |
| **276438** 2003 $CG_{19}$ | | | 10 24.4 292°.08 | | 7°.7/17.9 18 | |
| 9 18 | 2 19.50 | − 1 45.8 | 1.504 | 2.370 | 15.6 | 20.9 |
| 9 28 | 2 15.98 | − 3 26.0 | 1.426 | 2.349 | 12.3 | 20.7 |
| 10 8 | 2 9.88 | − 5 9.9 | 1.370 | 2.328 | 9.1 | 20.4 |
| 10 18 | 2 1.84 | − 6 47.3 | 1.339 | 2.307 | 7.7 | 20.3 |
| 10 28 | 1 52.92 | − 8 6.9 | 1.334 | 2.287 | 9.2 | 20.3 |
| 11 7 | 1 44.38 | − 8 59.9 | 1.352 | 2.266 | 12.6 | 20.5 |
| 11 17 | 1 37.41 | − 9 21.4 | 1.394 | 2.245 | 16.3 | 20.7 |
| 11 27 | 1 32.88 | − 9 11.2 | 1.453 | 2.225 | 19.7 | 20.8 |
| **228675** 2002 $JT_{86}$ | | | 10 24.4 84°.60 | | 1°.8/26.4 18 | |
| 9 18 | 2 18.85 | +21 12.4 | 2.303 | 3.099 | 13.2 | 20.3 |
| 9 28 | 2 14.43 | +20 37.1 | 2.233 | 3.115 | 10.3 | 20.2 |
| 10 8 | 2 8.30 | +19 47.0 | 2.185 | 3.131 | 7.1 | 20.0 |
| 10 18 | 2 1.04 | +18 44.2 | 2.165 | 3.147 | 3.6 | 19.8 |
| 10 28 | 1 53.43 | +17 32.8 | 2.173 | 3.163 | 1.9 | 19.7 |
| 11 7 | 1 46.31 | +16 18.5 | 2.211 | 3.178 | 4.7 | 19.9 |
| 11 17 | 1 40.38 | +15 7.2 | 2.278 | 3.194 | 7.9 | 20.2 |
| 11 27 | 1 36.19 | +14 4.4 | 2.371 | 3.209 | 10.8 | 20.4 |

**410990** 2009 $UH_{27}$ 10 24.4 6°.11 6°.5/21.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 25.21 | − 5 34.6 | 1.611 | 2.461 | 15.4 | 19.4 |
| 9 28 | 2 19.87 | − 5 38.5 | 1.550 | 2.462 | 12.2 | 19.2 |
| 10 8 | 2 12.08 | − 5 34.7 | 1.511 | 2.464 | 8.9 | 19.1 |
| 10 18 | 2 2.61 | − 5 18.2 | 1.497 | 2.468 | 6.7 | 18.9 |
| 10 28 | 1 52.58 | − 4 44.8 | 1.509 | 2.472 | 7.3 | 19.0 |
| 11 7 | 1 43.21 | − 3 53.0 | 1.548 | 2.477 | 10.1 | 19.2 |
| 11 17 | 1 35.54 | − 2 43.7 | 1.611 | 2.483 | 13.4 | 19.4 |
| 11 27 | 1 30.30 | − 1 19.4 | 1.697 | 2.491 | 16.4 | 19.6 |

**523597** 2002 $QX_{47}$ 10 24.4 69°.88 0°.3/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 0.48 | +19 22.6 | 24.910 | 25.688 | 1.4 | 22.9 |
| 9 28 | 1 59.43 | +19 18.4 | 24.829 | 25.701 | 1.1 | 22.9 |
| 10 8 | 1 58.25 | +19 13.1 | 24.775 | 25.714 | 0.8 | 22.9 |
| 10 18 | 1 56.99 | +19 6.8 | 24.748 | 25.726 | 0.4 | 22.8 |
| 10 28 | 1 55.69 | +18 59.8 | 24.752 | 25.739 | 0.3 | 22.8 |
| 11 7 | 1 54.42 | +18 52.4 | 24.786 | 25.752 | 0.5 | 22.8 |
| 11 17 | 1 53.22 | +18 44.9 | 24.850 | 25.764 | 0.9 | 22.9 |
| 11 27 | 1 52.15 | +18 37.4 | 24.943 | 25.777 | 1.2 | 22.9 |

**520289** 2014 $ES_{249}$ 10 24.4 95°.16 1°.5/25.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.21 | +15 39.3 | 1.857 | 2.672 | 15.2 | 21.5 |
| 9 28 | 2 20.54 | +15 59.7 | 1.783 | 2.678 | 11.8 | 21.3 |
| 10 8 | 2 12.52 | +16 9.5 | 1.731 | 2.685 | 7.9 | 21.1 |
| 10 18 | 2 2.81 | +16 9.0 | 1.704 | 2.691 | 3.7 | 20.9 |
| 10 28 | 1 52.46 | +16 0.5 | 1.707 | 2.698 | 1.9 | 20.7 |
| 11 7 | 1 42.61 | +15 47.6 | 1.738 | 2.704 | 5.8 | 21.0 |
| 11 17 | 1 34.30 | +15 35.0 | 1.796 | 2.710 | 9.8 | 21.3 |
| 11 27 | 1 28.31 | +15 27.2 | 1.879 | 2.717 | 13.3 | 21.5 |

**485934** 2012 $HG_{9}$ 10 24.4 186°.73 3°.9/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.03 | − 0 50.9 | 2.870 | 3.707 | 9.8 | 22.3 |
| 9 28 | 2 13.47 | − 1 41.0 | 2.798 | 3.706 | 7.5 | 22.1 |
| 10 8 | 2 7.57 | − 2 30.9 | 2.751 | 3.706 | 5.3 | 22.0 |
| 10 18 | 2 0.76 | − 3 16.8 | 2.732 | 3.704 | 3.9 | 21.9 |
| 10 28 | 1 53.61 | − 3 54.5 | 2.743 | 3.703 | 4.6 | 21.9 |
| 11 7 | 1 46.76 | − 4 20.6 | 2.783 | 3.701 | 6.7 | 22.1 |
| 11 17 | 1 40.77 | − 4 33.2 | 2.850 | 3.699 | 9.0 | 22.2 |
| 11 27 | 1 36.11 | − 4 31.4 | 2.942 | 3.696 | 11.1 | 22.4 |

**41427** 2000 $DY_{4}$ 10 24.4 313°.69 0°.9/23.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 12.29 | + 8 31.3 | 4.213 | 5.036 | 7.2 | 19.5 |
| 9 28 | 2 8.82 | + 8 12.2 | 4.125 | 5.031 | 5.4 | 19.3 |
| 10 8 | 2 4.46 | + 7 50.0 | 4.064 | 5.026 | 3.4 | 19.2 |
| 10 18 | 1 59.50 | + 7 26.4 | 4.031 | 5.022 | 1.4 | 19.0 |
| 10 28 | 1 54.31 | + 7 3.4 | 4.029 | 5.017 | 1.4 | 19.0 |
| 11 7 | 1 49.27 | + 6 43.0 | 4.058 | 5.012 | 3.4 | 19.2 |
| 11 17 | 1 44.76 | + 6 27.0 | 4.116 | 5.007 | 5.4 | 19.3 |
| 11 27 | 1 41.10 | + 6 17.0 | 4.201 | 5.003 | 7.2 | 19.4 |

**155589** 2000 $AJ_{249}$ 10 24.4 62°.74 3°.3/21.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.14 | + 4 10.1 | 2.108 | 2.953 | 12.5 | 19.4 |
| 9 28 | 2 14.64 | + 3 20.7 | 2.055 | 2.971 | 9.4 | 19.3 |
| 10 8 | 2 8.42 | + 2 28.5 | 2.026 | 2.990 | 6.1 | 19.1 |
| 10 18 | 2 1.09 | + 1 38.2 | 2.024 | 3.009 | 3.6 | 19.0 |
| 10 28 | 1 53.46 | + 0 55.2 | 2.051 | 3.027 | 4.2 | 19.0 |
| 11 7 | 1 46.35 | + 0 23.7 | 2.105 | 3.046 | 7.0 | 19.3 |
| 11 17 | 1 40.47 | + 0 6.6 | 2.187 | 3.065 | 10.1 | 19.5 |
| 11 27 | 1 36.34 | + 0 5.1 | 2.291 | 3.084 | 12.7 | 19.7 |

**242293** 2003 $UY_{280}$ 10 24.4 14°.75 1°.0/25.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.61 | +17 53.0 | 1.549 | 2.383 | 16.8 | 20.1 |
| 9 28 | 2 15.14 | +17 17.4 | 1.478 | 2.385 | 13.0 | 19.9 |
| 10 8 | 2 9.20 | +16 23.6 | 1.427 | 2.387 | 8.6 | 19.7 |
| 10 18 | 2 1.52 | +15 14.7 | 1.401 | 2.390 | 3.8 | 19.4 |
| 10 28 | 1 53.20 | +13 56.9 | 1.401 | 2.393 | 1.7 | 19.2 |
| 11 7 | 1 45.47 | +12 38.7 | 1.429 | 2.397 | 6.5 | 19.6 |
| 11 17 | 1 39.37 | +11 28.7 | 1.482 | 2.402 | 11.0 | 19.8 |
| 11 27 | 1 35.67 | +10 33.6 | 1.558 | 2.407 | 14.9 | 20.1 |

**166351** 2002 $KP_{7}$ 10 24.4 327°.30 2°.9/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 11.50 | − 1 58.8 | 4.234 | 5.071 | 6.9 | 19.6 |
| 9 28 | 2 8.19 | − 2 37.3 | 4.161 | 5.069 | 5.3 | 19.5 |
| 10 8 | 2 4.04 | − 3 15.0 | 4.114 | 5.066 | 3.8 | 19.3 |
| 10 18 | 1 59.33 | − 3 49.4 | 4.095 | 5.064 | 2.9 | 19.3 |
| 10 28 | 1 54.42 | − 4 18.1 | 4.107 | 5.062 | 3.4 | 19.3 |
| 11 7 | 1 49.67 | − 4 38.9 | 4.148 | 5.060 | 4.8 | 19.4 |
| 11 17 | 1 45.44 | − 4 50.5 | 4.216 | 5.058 | 6.4 | 19.5 |
| 11 27 | 1 42.03 | − 4 52.0 | 4.309 | 5.056 | 7.9 | 19.7 |

**265284** 2004 $FY_{124}$ 10 24.4 248°.79 1°.2/25.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.45 | +16 32.7 | 1.718 | 2.538 | 16.0 | 21.5 |
| 9 28 | 2 19.61 | +16 25.4 | 1.627 | 2.526 | 12.5 | 21.2 |
| 10 8 | 2 12.18 | +16 3.9 | 1.557 | 2.514 | 8.4 | 20.9 |
| 10 18 | 2 2.78 | +15 29.3 | 1.513 | 2.501 | 3.8 | 20.6 |
| 10 28 | 1 52.47 | +14 45.1 | 1.495 | 2.487 | 1.8 | 20.5 |
| 11 7 | 1 42.52 | +13 57.4 | 1.506 | 2.473 | 6.4 | 20.7 |
| 11 17 | 1 34.11 | +13 12.9 | 1.544 | 2.459 | 11.0 | 21.0 |
| 11 27 | 1 28.17 | +12 38.2 | 1.605 | 2.445 | 15.0 | 21.2 |

**172829** 2005 $AV_{13}$ 10 24.4 7°.67 5°.8/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.98 | + 1 39.4 | 1.184 | 2.055 | 18.5 | 19.5 |
| 9 28 | 2 19.76 | + 0 54.6 | 1.127 | 2.055 | 14.2 | 19.2 |
| 10 8 | 2 12.42 | + 0 7.6 | 1.089 | 2.055 | 9.7 | 19.0 |
| 10 18 | 2 2.86 | − 0 33.4 | 1.073 | 2.057 | 6.1 | 18.8 |
| 10 28 | 1 52.49 | − 0 59.9 | 1.082 | 2.058 | 7.1 | 18.9 |
| 11 7 | 1 42.92 | − 1 5.2 | 1.114 | 2.060 | 11.2 | 19.1 |
| 11 17 | 1 35.49 | − 0 46.9 | 1.169 | 2.063 | 15.7 | 19.4 |
| 11 27 | 1 31.08 | − 0 5.3 | 1.243 | 2.066 | 19.6 | 19.6 |

**516455** 2005 $GC_{36}$ 10 24.4 343°.02 9°.2/29.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 32.21 | +30 58.2 | 1.706 | 2.456 | 18.8 | 21.1 |
| 9 28 | 2 26.26 | +32 47.2 | 1.622 | 2.453 | 16.2 | 20.9 |
| 10 8 | 2 16.94 | +34 18.9 | 1.558 | 2.450 | 13.3 | 20.7 |
| 10 18 | 2 4.84 | +35 25.9 | 1.516 | 2.447 | 10.6 | 20.5 |
| 10 28 | 1 51.27 | +36 2.8 | 1.500 | 2.444 | 9.3 | 20.4 |
| 11 7 | 1 37.94 | +36 9.7 | 1.509 | 2.442 | 10.0 | 20.5 |
| 11 17 | 1 26.51 | +35 52.0 | 1.544 | 2.440 | 12.4 | 20.6 |
| 11 27 | 1 18.27 | +35 19.6 | 1.602 | 2.439 | 15.2 | 20.8 |

**36853** 2000 $SU_{124}$ 10 24.4 59°.20 1°.0/23.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.45 | +10 34.4 | 1.529 | 2.372 | 16.5 | 18.6 |
| 9 28 | 2 19.45 | +10 23.6 | 1.468 | 2.382 | 12.6 | 18.4 |
| 10 8 | 2 11.89 | +10 3.7 | 1.428 | 2.393 | 8.0 | 18.1 |
| 10 18 | 2 2.57 | + 9 37.9 | 1.413 | 2.405 | 3.1 | 17.9 |
| 10 28 | 1 52.66 | + 9 11.1 | 1.426 | 2.416 | 2.4 | 17.8 |
| 11 7 | 1 43.46 | + 8 48.9 | 1.465 | 2.428 | 7.1 | 18.2 |
| 11 17 | 1 36.03 | + 8 36.0 | 1.530 | 2.439 | 11.5 | 18.5 |
| 11 27 | 1 31.14 | + 8 35.8 | 1.617 | 2.451 | 15.2 | 18.7 |

**209856** 2005 $JL_{28}$ 10 24.4 85°.56 4°.6/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.97 | + 1 2.9 | 1.968 | 2.814 | 13.3 | 20.5 |
| 9 28 | 2 16.82 | + 0 1.0 | 1.922 | 2.837 | 10.1 | 20.3 |
| 10 8 | 2 9.82 | − 1 1.3 | 1.900 | 2.860 | 6.8 | 20.2 |
| 10 18 | 2 1.65 | − 1 58.1 | 1.905 | 2.882 | 4.7 | 20.1 |
| 10 28 | 1 53.20 | − 2 43.4 | 1.938 | 2.904 | 5.5 | 20.2 |
| 11 7 | 1 45.38 | − 3 13.0 | 1.998 | 2.926 | 8.2 | 20.4 |
| 11 17 | 1 38.94 | − 3 24.6 | 2.085 | 2.948 | 11.2 | 20.6 |
| 11 27 | 1 34.42 | − 3 17.9 | 2.194 | 2.969 | 13.7 | 20.9 |

**9046** 1991 $PG_{17}$ 10 24.4 119°.25 7°.3/30.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.01 | +32 39.2 | 1.797 | 2.539 | 18.2 | 17.8 |
| 9 28 | 2 23.06 | +33 12.9 | 1.727 | 2.555 | 15.4 | 17.7 |
| 10 8 | 2 14.31 | +33 22.5 | 1.675 | 2.570 | 12.3 | 17.5 |
| 10 18 | 2 3.57 | +33 4.6 | 1.646 | 2.585 | 9.2 | 17.4 |
| 10 28 | 1 52.11 | +32 19.5 | 1.642 | 2.599 | 7.4 | 17.3 |
| 11 7 | 1 41.37 | +31 12.4 | 1.665 | 2.613 | 8.0 | 17.4 |
| 11 17 | 1 32.57 | +29 51.8 | 1.715 | 2.626 | 10.4 | 17.5 |
| 11 27 | 1 26.54 | +28 28.3 | 1.790 | 2.638 | 13.3 | 17.7 |

**197316** 2003 $WN_{146}$ 10 24.4 289°.26 4°.2/19.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.37 | + 1 53.2 | 2.319 | 3.166 | 11.4 | 19.9 |
| 9 28 | 2 12.60 | + 0 41.7 | 2.242 | 3.159 | 8.7 | 19.7 |
| 10 8 | 2 7.21 | − 0 32.8 | 2.190 | 3.151 | 6.0 | 19.6 |
| 10 18 | 2 0.68 | − 1 44.9 | 2.166 | 3.143 | 4.2 | 19.4 |
| 10 28 | 1 53.70 | − 2 48.6 | 2.170 | 3.136 | 5.1 | 19.5 |
| 11 7 | 1 47.05 | − 3 38.7 | 2.203 | 3.128 | 7.7 | 19.6 |
| 11 17 | 1 41.40 | − 4 11.7 | 2.261 | 3.121 | 10.6 | 19.8 |
| 11 27 | 1 37.33 | − 4 26.1 | 2.343 | 3.113 | 13.1 | 20.0 |

**477328** 2009 $TR_{19}$ 10 24.4 66°.34 0°.4/24.1 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.20 | +13 59.0 | 1.372 | 2.215 | 18.0 | 21.8 |
| 9 28 | 2 19.35 | +13 22.0 | 1.323 | 2.237 | 13.7 | 21.5 |
| 10 8 | 2 11.82 | +12 30.5 | 1.294 | 2.258 | 8.8 | 21.3 |
| 10 18 | 2 2.52 | +11 29.1 | 1.289 | 2.280 | 3.4 | 21.1 |
| 10 28 | 1 52.78 | +10 25.1 | 1.310 | 2.302 | 2.1 | 21.0 |
| 11 7 | 1 43.94 | + 9 26.9 | 1.359 | 2.324 | 7.3 | 21.4 |
| 11 17 | 1 37.10 | + 8 41.1 | 1.432 | 2.345 | 11.9 | 21.8 |
| 11 27 | 1 32.93 | + 8 12.5 | 1.528 | 2.367 | 15.7 | 22.0 |

**355466** 2007 $VS_{283}$ 10 24.4 12°.86 1°.1/23.6 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.43 | +11 3.5 | 1.575 | 2.422 | 15.9 | 21.3 |
| 9 28 | 2 16.43 | +10 39.8 | 1.506 | 2.424 | 12.1 | 21.0 |
| 10 8 | 2 10.01 | +10 5.8 | 1.459 | 2.426 | 7.7 | 20.8 |
| 10 18 | 2 1.87 | + 9 25.3 | 1.437 | 2.429 | 3.0 | 20.5 |
| 10 28 | 1 53.09 | + 8 43.8 | 1.441 | 2.432 | 2.4 | 20.5 |
| 11 7 | 1 44.87 | + 8 7.6 | 1.473 | 2.435 | 7.1 | 20.8 |
| 11 17 | 1 38.26 | + 7 42.2 | 1.529 | 2.440 | 11.4 | 21.1 |
| 11 27 | 1 34.02 | + 7 31.4 | 1.608 | 2.444 | 15.2 | 21.3 |

**322690** 1999 $VG_{165}$ 10 24.4 324°.35 0°.7/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.88 | +10 10.9 | 2.042 | 2.874 | 13.4 | 20.1 |
| 9 28 | 2 17.09 | +10 9.9 | 1.960 | 2.868 | 10.2 | 19.9 |
| 10 8 | 2 10.26 | +10 2.4 | 1.900 | 2.863 | 6.6 | 19.7 |
| 10 18 | 2 1.95 | + 9 50.6 | 1.867 | 2.858 | 2.6 | 19.4 |
| 10 28 | 1 53.03 | + 9 37.5 | 1.863 | 2.853 | 1.9 | 19.4 |
| 11 7 | 1 44.47 | + 9 27.0 | 1.887 | 2.849 | 5.9 | 19.6 |
| 11 17 | 1 37.17 | + 9 22.6 | 1.938 | 2.844 | 9.7 | 19.8 |
| 11 27 | 1 31.82 | + 9 27.2 | 2.014 | 2.840 | 13.0 | 20.0 |

**249084** 2007 $VB_{27}$ 10 24.4 148°.68 5°.7/30.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.04 | +32 6.4 | 2.318 | 3.052 | 14.8 | 20.6 |
| 9 28 | 2 17.97 | +32 17.7 | 2.233 | 3.058 | 12.5 | 20.4 |
| 10 8 | 2 10.80 | +32 9.3 | 2.169 | 3.064 | 9.9 | 20.3 |
| 10 18 | 2 2.15 | +31 39.4 | 2.128 | 3.069 | 7.3 | 20.1 |
| 10 28 | 1 52.94 | +30 49.1 | 2.115 | 3.074 | 5.8 | 20.0 |
| 11 7 | 1 44.18 | +29 42.4 | 2.129 | 3.079 | 6.3 | 20.1 |
| 11 17 | 1 36.78 | +28 25.8 | 2.172 | 3.083 | 8.5 | 20.2 |
| 11 27 | 1 31.43 | +27 6.9 | 2.241 | 3.087 | 11.1 | 20.4 |

**142672** 2002 $TW_{219}$ 10 24.4 131°.37 5°.1/28.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.62 | +25 40.9 | 1.953 | 2.729 | 15.9 | 19.7 |
| 9 28 | 2 20.32 | +26 22.1 | 1.869 | 2.729 | 13.1 | 19.5 |
| 10 8 | 2 12.54 | +26 46.8 | 1.807 | 2.730 | 9.9 | 19.3 |
| 10 18 | 2 2.92 | +26 52.8 | 1.769 | 2.731 | 6.7 | 19.1 |
| 10 28 | 1 52.49 | +26 39.9 | 1.757 | 2.732 | 5.1 | 19.0 |
| 11 7 | 1 42.47 | +26 11.6 | 1.774 | 2.732 | 6.6 | 19.1 |
| 11 17 | 1 33.96 | +25 33.6 | 1.818 | 2.733 | 9.6 | 19.3 |
| 11 27 | 1 27.81 | +24 53.2 | 1.886 | 2.733 | 12.8 | 19.5 |

**514686** 2005 $YK_{21}$ 10 24.4 276°.15 0°.4/24.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.26 | +14 56.9 | 1.693 | 2.523 | 15.7 | 22.1 |
| 9 28 | 2 17.97 | +14 40.4 | 1.602 | 2.508 | 12.3 | 21.9 |
| 10 8 | 2 11.15 | +14 10.2 | 1.533 | 2.493 | 8.1 | 21.6 |
| 10 18 | 2 2.40 | +13 28.3 | 1.488 | 2.478 | 3.4 | 21.3 |
| 10 28 | 1 52.77 | +12 39.1 | 1.471 | 2.463 | 1.7 | 21.1 |
| 11 7 | 1 43.49 | +11 49.1 | 1.481 | 2.448 | 6.6 | 21.4 |
| 11 17 | 1 35.70 | +11 5.0 | 1.518 | 2.432 | 11.2 | 21.6 |
| 11 27 | 1 30.31 | +10 32.9 | 1.577 | 2.417 | 15.3 | 21.8 |

**513342** 2007 $QA_{8}$ 10 24.4 55°.53 17°.3/ 9.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 48.85 | +52 39.0 | 1.761 | 2.344 | 23.2 | 20.6 |
| 9 28 | 2 41.45 | +55 40.7 | 1.707 | 2.362 | 21.8 | 20.5 |
| 10 8 | 2 28.34 | +58 12.8 | 1.668 | 2.382 | 20.2 | 20.4 |
| 10 18 | 2 9.96 | +60 1.9 | 1.645 | 2.401 | 18.8 | 20.3 |
| 10 28 | 1 48.38 | +60 57.1 | 1.641 | 2.421 | 17.8 | 20.3 |
| 11 7 | 1 27.07 | +60 56.6 | 1.656 | 2.441 | 17.3 | 20.3 |
| 11 17 | 1 9.43 | +60 8.3 | 1.689 | 2.461 | 17.4 | 20.4 |
| 11 27 | 0 57.64 | +58 47.9 | 1.740 | 2.481 | 18.0 | 20.5 |

**517840** 2015 $RG_{117}$ 10 24.4 30°.79 3°.7/22.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.04 | + 2 36.3 | 1.596 | 2.448 | 15.5 | 20.2 |
| 9 28 | 2 18.96 | + 2 26.6 | 1.539 | 2.458 | 11.8 | 20.0 |
| 10 8 | 2 11.50 | + 2 16.2 | 1.505 | 2.469 | 7.7 | 19.8 |
| 10 18 | 2 2.42 | + 2 9.3 | 1.495 | 2.481 | 4.3 | 19.6 |
| 10 28 | 1 52.84 | + 2 10.5 | 1.513 | 2.494 | 4.6 | 19.7 |
| 11 7 | 1 43.95 | + 2 23.2 | 1.557 | 2.507 | 8.2 | 19.9 |
| 11 17 | 1 36.74 | + 2 49.1 | 1.627 | 2.521 | 12.0 | 20.2 |
| 11 27 | 1 31.91 | + 3 28.6 | 1.719 | 2.535 | 15.3 | 20.4 |

**327139** 2005 $ES_{213}$ 10 24.4 126°.78 0°.4/24.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.56 | +15 27.6 | 1.649 | 2.474 | 16.3 | 21.5 |
| 9 28 | 2 20.19 | +15 1.1 | 1.583 | 2.486 | 12.6 | 21.3 |
| 10 8 | 2 12.34 | +14 20.5 | 1.538 | 2.497 | 8.2 | 21.1 |
| 10 18 | 2 2.78 | +13 28.5 | 1.518 | 2.508 | 3.4 | 20.8 |
| 10 28 | 1 52.66 | +12 30.5 | 1.527 | 2.519 | 1.7 | 20.7 |
| 11 7 | 1 43.21 | +11 33.7 | 1.563 | 2.529 | 6.5 | 21.1 |
| 11 17 | 1 35.50 | +10 44.7 | 1.627 | 2.538 | 10.8 | 21.4 |
| 11 27 | 1 30.25 | +10 9.0 | 1.713 | 2.547 | 14.5 | 21.6 |

**73230** 2002 $JS_{28}$ 10 24.5 181°.65 0°.0/24.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.87 | +14 47.8 | 2.107 | 2.925 | 13.5 | 20.1 |
| 9 28 | 2 16.99 | +14 13.7 | 2.025 | 2.926 | 10.4 | 19.9 |
| 10 8 | 2 10.13 | +13 27.8 | 1.967 | 2.926 | 6.7 | 19.7 |
| 10 18 | 2 1.89 | +12 32.9 | 1.936 | 2.926 | 2.7 | 19.5 |
| 10 28 | 1 53.13 | +11 33.4 | 1.934 | 2.925 | 1.5 | 19.4 |
| 11 7 | 1 44.79 | +10 35.2 | 1.961 | 2.924 | 5.6 | 19.6 |
| 11 17 | 1 37.72 | + 9 43.9 | 2.016 | 2.923 | 9.3 | 19.9 |
| 11 27 | 1 32.57 | + 9 4.0 | 2.097 | 2.921 | 12.6 | 20.1 |

**340108** 2005 $WY_{139}$ 10 24.5 257°.81 0°.6/24.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.15 | +12 24.3 | 1.752 | 2.585 | 15.2 | 21.8 |
| 9 28 | 2 18.50 | +12 3.8 | 1.664 | 2.573 | 11.7 | 21.6 |
| 10 8 | 2 11.42 | +11 32.2 | 1.598 | 2.561 | 7.6 | 21.3 |
| 10 18 | 2 2.51 | +10 52.2 | 1.558 | 2.549 | 3.0 | 21.0 |
| 10 28 | 1 52.80 | +10 8.4 | 1.546 | 2.537 | 2.0 | 20.9 |
| 11 7 | 1 43.45 | + 9 27.0 | 1.561 | 2.524 | 6.7 | 21.2 |
| 11 17 | 1 35.58 | + 8 53.8 | 1.603 | 2.512 | 11.2 | 21.4 |
| 11 27 | 1 30.01 | + 8 33.6 | 1.668 | 2.499 | 15.0 | 21.6 |

**454302** 2014 $JX_{41}$ 10 24.5 64°.11 3°.6/21.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.23 | + 3 45.2 | 1.815 | 2.662 | 14.1 | 21.1 |
| 9 28 | 2 17.25 | + 3 5.8 | 1.764 | 2.681 | 10.7 | 20.9 |
| 10 8 | 2 10.23 | + 2 23.8 | 1.735 | 2.699 | 7.0 | 20.8 |
| 10 18 | 2 1.90 | + 1 44.3 | 1.733 | 2.718 | 4.0 | 20.6 |
| 10 28 | 1 53.21 | + 1 12.9 | 1.759 | 2.737 | 4.5 | 20.7 |
| 11 7 | 1 45.16 | + 0 53.8 | 1.812 | 2.756 | 7.7 | 20.9 |
| 11 17 | 1 38.59 | + 0 49.8 | 1.892 | 2.775 | 11.1 | 21.2 |
| 11 27 | 1 34.09 | + 1 1.8 | 1.994 | 2.794 | 14.0 | 21.4 |

**326042** 2010 $XU_{82}$ 10 24.5 302°.76 2°.3/26.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.81 | +18 54.0 | 2.153 | 2.954 | 13.8 | 21.3 |
| 9 28 | 2 17.82 | +19 11.8 | 2.067 | 2.952 | 10.9 | 21.1 |
| 10 8 | 2 10.76 | +19 17.9 | 2.003 | 2.950 | 7.6 | 20.9 |
| 10 18 | 2 2.20 | +19 12.4 | 1.966 | 2.948 | 4.1 | 20.7 |
| 10 28 | 1 52.99 | +18 56.9 | 1.957 | 2.946 | 2.4 | 20.6 |
| 11 7 | 1 44.13 | +18 34.8 | 1.977 | 2.944 | 5.2 | 20.8 |
| 11 17 | 1 36.52 | +18 10.7 | 2.025 | 2.941 | 8.7 | 21.0 |
| 11 27 | 1 30.88 | +17 49.6 | 2.098 | 2.939 | 11.9 | 21.2 |

**182358** 2001 $QJ_{98}$ 10 24.5 75°.10 0°.4/24.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.87 | +14 21.4 | 1.466 | 2.304 | 17.3 | 19.3 |
| 9 28 | 2 19.01 | +13 40.4 | 1.412 | 2.324 | 13.2 | 19.1 |
| 10 8 | 2 11.59 | +12 44.9 | 1.380 | 2.344 | 8.4 | 18.8 |
| 10 18 | 2 2.48 | +11 39.4 | 1.373 | 2.364 | 3.3 | 18.6 |
| 10 28 | 1 52.92 | +10 31.0 | 1.392 | 2.383 | 2.0 | 18.5 |
| 11 7 | 1 44.20 | + 9 27.9 | 1.438 | 2.403 | 7.0 | 18.9 |
| 11 17 | 1 37.34 | + 8 37.0 | 1.511 | 2.423 | 11.5 | 19.2 |
| 11 27 | 1 33.04 | + 8 2.9 | 1.605 | 2.442 | 15.2 | 19.5 |

**224759** 2006 $DK_{201}$ 10 24.5 220°.22 2°.8/22.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.91 | + 2 49.4 | 2.467 | 3.298 | 11.4 | 20.1 |
| 9 28 | 2 17.46 | + 2 38.2 | 2.387 | 3.295 | 8.7 | 19.9 |
| 10 8 | 2 10.30 | + 2 26.1 | 2.331 | 3.291 | 5.7 | 19.7 |
| 10 18 | 2 1.96 | + 2 16.0 | 2.303 | 3.288 | 3.2 | 19.5 |
| 10 28 | 1 53.16 | + 2 11.1 | 2.305 | 3.285 | 3.5 | 19.5 |
| 11 7 | 1 44.70 | + 2 14.2 | 2.337 | 3.281 | 6.3 | 19.7 |
| 11 17 | 1 37.29 | + 2 27.2 | 2.397 | 3.277 | 9.2 | 19.9 |
| 11 27 | 1 31.53 | + 2 51.2 | 2.482 | 3.274 | 11.9 | 20.1 |

**304161** 2006 $PE_{3}$ 10 24.5 87°.55 5°.7/29.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.06 | +28 43.7 | 1.965 | 2.723 | 16.4 | 20.7 |
| 9 28 | 2 21.23 | +29 17.6 | 1.899 | 2.744 | 13.6 | 20.6 |
| 10 8 | 2 12.98 | +29 32.1 | 1.853 | 2.764 | 10.4 | 20.4 |
| 10 18 | 2 3.06 | +29 24.9 | 1.832 | 2.784 | 7.4 | 20.3 |
| 10 28 | 1 52.57 | +28 56.9 | 1.837 | 2.804 | 5.7 | 20.2 |
| 11 7 | 1 42.72 | +28 12.5 | 1.870 | 2.824 | 6.7 | 20.3 |
| 11 17 | 1 34.53 | +27 18.4 | 1.930 | 2.843 | 9.3 | 20.5 |
| 11 27 | 1 28.74 | +26 22.4 | 2.016 | 2.862 | 12.1 | 20.7 |

**246896** 1997 $SV_{9}$ 10 24.5 338°.75 2°.4/26.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.63 | +19 45.6 | 1.847 | 2.658 | 15.4 | 20.7 |
| 9 28 | 2 17.23 | +19 49.6 | 1.765 | 2.656 | 12.2 | 20.5 |
| 10 8 | 2 10.53 | +19 38.6 | 1.705 | 2.654 | 8.5 | 20.3 |
| 10 18 | 2 2.14 | +19 13.0 | 1.669 | 2.652 | 4.5 | 20.0 |
| 10 28 | 1 53.05 | +18 35.5 | 1.661 | 2.650 | 2.6 | 19.9 |
| 11 7 | 1 44.40 | +17 51.4 | 1.681 | 2.649 | 5.8 | 20.1 |
| 11 17 | 1 37.20 | +17 6.8 | 1.727 | 2.648 | 9.7 | 20.3 |
| 11 27 | 1 32.22 | +16 28.0 | 1.798 | 2.647 | 13.3 | 20.6 |

**43842** 1993 $MR$ 10 24.5 81°.33 0°.5/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.99 | +13 58.1 | 1.835 | 2.661 | 14.9 | 19.3 |
| 9 28 | 2 17.79 | +13 9.5 | 1.783 | 2.689 | 11.2 | 19.1 |
| 10 8 | 2 10.55 | +12 9.1 | 1.754 | 2.716 | 7.1 | 18.9 |
| 10 18 | 2 2.02 | +11 1.4 | 1.751 | 2.742 | 2.7 | 18.7 |
| 10 28 | 1 53.19 | + 9 52.4 | 1.778 | 2.768 | 1.9 | 18.7 |
| 11 7 | 1 45.08 | + 8 48.7 | 1.833 | 2.794 | 6.1 | 19.0 |
| 11 17 | 1 38.49 | + 7 56.0 | 1.915 | 2.820 | 9.8 | 19.3 |
| 11 27 | 1 34.01 | + 7 18.2 | 2.022 | 2.845 | 13.0 | 19.6 |

**304381** 2006 $SA_{388}$ 10 24.5 98°.44 5°.1/20.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.31 | − 1 58.7 | 1.957 | 2.799 | 13.5 | 20.7 |
| 9 28 | 2 18.87 | − 2 26.2 | 1.889 | 2.799 | 10.4 | 20.5 |
| 10 8 | 2 11.35 | − 2 51.4 | 1.844 | 2.800 | 7.3 | 20.3 |
| 10 18 | 2 2.41 | − 3 9.5 | 1.826 | 2.800 | 5.2 | 20.2 |
| 10 28 | 1 52.95 | − 3 15.5 | 1.835 | 2.801 | 5.9 | 20.2 |
| 11 7 | 1 43.99 | − 3 6.4 | 1.873 | 2.802 | 8.7 | 20.4 |
| 11 17 | 1 36.41 | − 2 40.7 | 1.936 | 2.802 | 11.8 | 20.6 |
| 11 27 | 1 30.88 | − 1 58.9 | 2.023 | 2.803 | 14.6 | 20.8 |

**225437** 2000 $CK_{84}$ 10 24.5 236°.69 1°.2/23.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.45 | + 9 48.0 | 2.726 | 3.551 | 10.6 | 21.0 |
| 9 28 | 2 14.02 | + 9 15.1 | 2.634 | 3.540 | 8.0 | 20.8 |
| 10 8 | 2 8.09 | + 8 35.9 | 2.566 | 3.529 | 5.1 | 20.6 |
| 10 18 | 2 1.09 | + 7 52.9 | 2.527 | 3.517 | 2.1 | 20.4 |
| 10 28 | 1 53.65 | + 7 9.9 | 2.518 | 3.506 | 2.0 | 20.4 |
| 11 7 | 1 46.46 | + 6 30.7 | 2.538 | 3.494 | 5.1 | 20.6 |
| 11 17 | 1 40.14 | + 5 59.0 | 2.588 | 3.481 | 8.1 | 20.7 |
| 11 27 | 1 35.25 | + 5 37.6 | 2.662 | 3.468 | 10.7 | 20.9 |

**75284** 1999 $XV_{24}$ 10 24.5 265°.83 0°.2/24.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.99 | +14 39.7 | 1.551 | 2.388 | 16.6 | 19.4 |
| 9 28 | 2 17.91 | +14 3.8 | 1.467 | 2.378 | 12.9 | 19.2 |
| 10 8 | 2 11.19 | +13 11.8 | 1.404 | 2.367 | 8.4 | 18.9 |
| 10 18 | 2 2.47 | +12 7.1 | 1.365 | 2.356 | 3.3 | 18.6 |
| 10 28 | 1 52.88 | +10 55.9 | 1.353 | 2.344 | 2.0 | 18.4 |
| 11 7 | 1 43.74 | + 9 46.5 | 1.368 | 2.333 | 7.2 | 18.7 |
| 11 17 | 1 36.23 | + 8 47.2 | 1.408 | 2.321 | 12.0 | 19.0 |
| 11 27 | 1 31.28 | + 8 4.3 | 1.471 | 2.310 | 16.2 | 19.2 |

**446032** 2013 $CY_{83}$ 10 24.5 131.°70 1.°5/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.03 | + 9 22.6 | 2.192 | 3.023 | 12.6 | 21.6 |
| 9 28 | 2 16.19 | + 8 50.6 | 2.120 | 3.030 | 9.5 | 21.4 |
| 10 8 | 2 9.54 | + 8 11.9 | 2.073 | 3.036 | 6.1 | 21.2 |
| 10 18 | 2 1.67 | + 7 29.8 | 2.053 | 3.043 | 2.5 | 21.0 |
| 10 28 | 1 53.37 | + 6 48.7 | 2.061 | 3.049 | 2.4 | 21.0 |
| 11 7 | 1 45.50 | + 6 13.3 | 2.099 | 3.055 | 5.9 | 21.2 |
| 11 17 | 1 38.83 | + 5 47.3 | 2.165 | 3.061 | 9.3 | 21.4 |
| 11 27 | 1 33.95 | + 5 33.6 | 2.255 | 3.067 | 12.3 | 21.6 |

**485268** 2010 $WM_{34}$ 10 24.5 19.°53 5.°4/21.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.23 | − 1 21.8 | 1.644 | 2.500 | 14.9 | 20.1 |
| 9 28 | 2 17.56 | − 1 48.1 | 1.587 | 2.506 | 11.5 | 19.9 |
| 10 8 | 2 10.62 | − 2 12.0 | 1.553 | 2.513 | 8.0 | 19.7 |
| 10 18 | 2 2.12 | − 2 28.1 | 1.543 | 2.520 | 5.6 | 19.6 |
| 10 28 | 1 53.14 | − 2 30.9 | 1.559 | 2.529 | 6.3 | 19.7 |
| 11 7 | 1 44.78 | − 2 17.2 | 1.602 | 2.538 | 9.3 | 19.9 |
| 11 17 | 1 38.00 | − 1 46.0 | 1.670 | 2.548 | 12.7 | 20.1 |
| 11 27 | 1 33.48 | − 0 57.9 | 1.759 | 2.558 | 15.7 | 20.3 |

**480089** 2015 $EG_{9}$ 10 24.5 98.°46 2.°6/22.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.75 | + 8 1.5 | 1.653 | 2.495 | 15.5 | 20.8 |
| 9 28 | 2 19.38 | + 7 14.9 | 1.599 | 2.514 | 11.7 | 20.6 |
| 10 8 | 2 11.72 | + 6 21.0 | 1.567 | 2.532 | 7.4 | 20.4 |
| 10 18 | 2 2.53 | + 5 25.0 | 1.560 | 2.550 | 3.4 | 20.2 |
| 10 28 | 1 52.94 | + 4 33.6 | 1.582 | 2.567 | 3.7 | 20.3 |
| 11 7 | 1 44.07 | + 3 52.8 | 1.631 | 2.584 | 7.6 | 20.6 |
| 11 17 | 1 36.88 | + 3 27.0 | 1.706 | 2.600 | 11.5 | 20.8 |
| 11 27 | 1 32.01 | + 3 18.6 | 1.804 | 2.616 | 14.8 | 21.1 |

**56089** 1999 $AY_{25}$ 10 24.5 248.°88 0.°1/24.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.89 | +14 44.6 | 1.830 | 2.654 | 15.0 | 20.2 |
| 9 28 | 2 18.26 | +14 18.3 | 1.737 | 2.641 | 11.6 | 19.9 |
| 10 8 | 2 11.25 | +13 38.6 | 1.667 | 2.627 | 7.6 | 19.7 |
| 10 18 | 2 2.48 | +12 47.9 | 1.623 | 2.613 | 3.1 | 19.3 |
| 10 28 | 1 52.89 | +11 50.8 | 1.606 | 2.598 | 1.7 | 19.2 |
| 11 7 | 1 43.66 | +10 53.8 | 1.618 | 2.583 | 6.4 | 19.5 |
| 11 17 | 1 35.82 | +10 3.5 | 1.657 | 2.568 | 10.7 | 19.7 |
| 11 27 | 1 30.23 | + 9 25.7 | 1.720 | 2.552 | 14.6 | 19.9 |

**523464** 2017 $FK_{104}$ 10 24.5 320.°02 8.°2/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.73 | − 8 41.4 | 2.029 | 2.883 | 12.6 | 20.6 |
| 9 28 | 2 12.42 | −10 29.1 | 1.964 | 2.870 | 10.4 | 20.4 |
| 10 8 | 2 7.27 | −12 12.7 | 1.923 | 2.857 | 8.7 | 20.3 |
| 10 18 | 2 0.82 | −13 43.7 | 1.908 | 2.845 | 8.3 | 20.2 |
| 10 28 | 1 53.84 | −14 54.0 | 1.919 | 2.833 | 9.6 | 20.3 |
| 11 7 | 1 47.21 | −15 38.3 | 1.954 | 2.821 | 11.7 | 20.4 |
| 11 17 | 1 41.72 | −15 54.5 | 2.012 | 2.810 | 14.1 | 20.6 |
| 11 27 | 1 38.01 | −15 43.4 | 2.089 | 2.799 | 16.3 | 20.7 |

**163300** 2002 $JJ_{4}$ 10 24.5 101.°47 14.°3/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.36 | −26 37.1 | 1.821 | 2.624 | 15.9 | 19.9 |
| 9 28 | 2 17.62 | −28 45.2 | 1.798 | 2.630 | 14.8 | 19.8 |
| 10 8 | 2 10.61 | −30 30.1 | 1.796 | 2.636 | 14.3 | 19.8 |
| 10 18 | 2 2.10 | −31 42.5 | 1.816 | 2.642 | 14.6 | 19.8 |
| 10 28 | 1 53.18 | −32 16.1 | 1.856 | 2.648 | 15.5 | 19.9 |
| 11 7 | 1 44.97 | −32 9.7 | 1.914 | 2.654 | 16.8 | 20.0 |
| 11 17 | 1 38.39 | −31 26.4 | 1.989 | 2.660 | 18.2 | 20.2 |
| 11 27 | 1 34.08 | −30 11.8 | 2.079 | 2.665 | 19.4 | 20.3 |

**511551** 2014 $UD_{225}$ 10 24.5 98.°35 0.°1/25.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 1 58.84 | +15 6.9 | 44.200 | 44.999 | 0.8 | 23.3 |
| 9 28 | 1 58.22 | +15 4.0 | 44.114 | 45.002 | 0.6 | 23.3 |
| 10 8 | 1 57.53 | +15 0.7 | 44.054 | 45.006 | 0.4 | 23.3 |
| 10 18 | 1 56.80 | +14 57.0 | 44.022 | 45.009 | 0.2 | 23.2 |
| 10 28 | 1 56.06 | +14 53.1 | 44.021 | 45.012 | 0.1 | 23.2 |
| 11 7 | 1 55.32 | +14 49.1 | 44.049 | 45.015 | 0.3 | 23.3 |
| 11 17 | 1 54.62 | +14 45.2 | 44.107 | 45.018 | 0.5 | 23.3 |
| 11 27 | 1 53.98 | +14 41.5 | 44.194 | 45.022 | 0.7 | 23.3 |

**319336** 2006 $BG_{247}$ 10 24.5 90.°67 3.°6/27.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.57 | +24 24.8 | 2.363 | 3.139 | 13.5 | 21.2 |
| 9 28 | 2 16.70 | +24 38.5 | 2.284 | 3.147 | 10.9 | 21.1 |
| 10 8 | 2 9.94 | +24 37.8 | 2.226 | 3.155 | 8.0 | 20.9 |
| 10 18 | 2 1.86 | +24 22.1 | 2.195 | 3.163 | 5.1 | 20.7 |
| 10 28 | 1 53.28 | +23 53.1 | 2.191 | 3.171 | 3.6 | 20.7 |
| 11 7 | 1 45.09 | +23 14.4 | 2.216 | 3.178 | 5.1 | 20.8 |
| 11 17 | 1 38.10 | +22 30.9 | 2.270 | 3.186 | 7.9 | 21.0 |
| 11 27 | 1 32.95 | +21 48.2 | 2.349 | 3.194 | 10.7 | 21.2 |

**401142** 2011 $UX_{386}$ 10 24.5 43.°61 6.°5/20.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.43 | − 2 50.3 | 1.587 | 2.444 | 15.3 | 20.0 |
| 9 28 | 2 17.69 | − 3 41.3 | 1.539 | 2.457 | 11.9 | 19.8 |
| 10 8 | 2 10.67 | − 4 28.7 | 1.514 | 2.470 | 8.6 | 19.7 |
| 10 18 | 2 2.13 | − 5 5.9 | 1.513 | 2.484 | 6.5 | 19.6 |
| 10 28 | 1 53.18 | − 5 26.2 | 1.538 | 2.498 | 7.4 | 19.7 |
| 11 7 | 1 44.95 | − 5 25.8 | 1.588 | 2.513 | 10.3 | 19.9 |
| 11 17 | 1 38.37 | − 5 3.8 | 1.663 | 2.527 | 13.4 | 20.1 |
| 11 27 | 1 34.09 | − 4 21.7 | 1.759 | 2.542 | 16.3 | 20.3 |

**483001** 2014 $QL_{420}$ 10 24.5 133.°44 2.°0/26.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.34 | +19 27.0 | 2.710 | 3.495 | 11.7 | 21.5 |
| 9 28 | 2 17.71 | +19 38.8 | 2.631 | 3.506 | 9.2 | 21.3 |
| 10 8 | 2 10.44 | +19 40.5 | 2.575 | 3.517 | 6.4 | 21.2 |
| 10 18 | 2 2.04 | +19 32.3 | 2.547 | 3.527 | 3.5 | 21.0 |
| 10 28 | 1 53.22 | +19 15.8 | 2.549 | 3.537 | 2.1 | 20.9 |
| 11 7 | 1 44.75 | +18 53.9 | 2.582 | 3.547 | 4.3 | 21.1 |
| 11 17 | 1 37.33 | +18 30.2 | 2.644 | 3.556 | 7.2 | 21.3 |
| 11 27 | 1 31.52 | +18 8.7 | 2.733 | 3.565 | 9.8 | 21.5 |

**158443** 2002 $CR_{90}$ 10 24.5 260.°38 0.°7/25.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.28 | +15 43.2 | 2.251 | 3.066 | 12.9 | 21.4 |
| 9 28 | 2 15.82 | +15 28.5 | 2.158 | 3.055 | 10.0 | 21.1 |
| 10 8 | 2 9.46 | +15 2.9 | 2.088 | 3.044 | 6.6 | 20.9 |
| 10 18 | 2 1.71 | +14 28.0 | 2.044 | 3.033 | 2.9 | 20.7 |
| 10 28 | 1 53.37 | +13 47.0 | 2.029 | 3.021 | 1.3 | 20.5 |
| 11 7 | 1 45.31 | +13 4.5 | 2.044 | 3.010 | 5.1 | 20.8 |
| 11 17 | 1 38.36 | +12 25.4 | 2.087 | 2.998 | 8.8 | 21.0 |
| 11 27 | 1 33.21 | +11 54.2 | 2.154 | 2.986 | 12.0 | 21.2 |

**184568** 2005 $QL_{80}$ 10 24.5 86.°58 1.°6/23.4 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.28 | +10 43.2 | 1.527 | 2.368 | 16.6 | 20.5 |
| 9 28 | 2 19.98 | +10 5.0 | 1.474 | 2.388 | 12.6 | 20.3 |
| 10 8 | 2 12.18 | + 9 16.5 | 1.443 | 2.408 | 8.0 | 20.1 |
| 10 18 | 2 2.75 | + 8 22.6 | 1.436 | 2.427 | 3.2 | 19.8 |
| 10 28 | 1 52.88 | + 7 29.8 | 1.457 | 2.446 | 2.8 | 19.9 |
| 11 7 | 1 43.81 | + 6 45.0 | 1.505 | 2.465 | 7.4 | 20.2 |
| 11 17 | 1 36.56 | + 6 13.6 | 1.579 | 2.483 | 11.6 | 20.5 |
| 11 27 | 1 31.82 | + 5 58.6 | 1.676 | 2.501 | 15.2 | 20.8 |

**363114** 2001 $AG_{48}$ 10 24.5 309.°93 5.°9/19.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.86 | − 3 7.5 | 2.041 | 2.891 | 12.6 | 20.6 |
| 9 28 | 2 14.74 | − 4 9.2 | 1.970 | 2.884 | 9.9 | 20.4 |
| 10 8 | 2 8.73 | − 5 9.6 | 1.924 | 2.877 | 7.3 | 20.2 |
| 10 18 | 2 1.40 | − 6 2.4 | 1.903 | 2.870 | 5.9 | 20.2 |
| 10 28 | 1 53.57 | − 6 41.3 | 1.910 | 2.863 | 6.9 | 20.2 |
| 11 7 | 1 46.12 | − 7 1.8 | 1.943 | 2.856 | 9.4 | 20.3 |
| 11 17 | 1 39.87 | − 7 1.8 | 2.001 | 2.850 | 12.2 | 20.5 |
| 11 27 | 1 35.44 | − 6 41.1 | 2.081 | 2.843 | 14.8 | 20.7 |

**140707** 2001 $UB_{80}$ 10 24.5 316.°44 1.°6/23.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.24 | + 9 26.8 | 1.878 | 2.718 | 14.0 | 19.8 |
| 9 28 | 2 16.02 | + 8 58.9 | 1.799 | 2.713 | 10.7 | 19.6 |
| 10 8 | 2 9.68 | + 8 23.1 | 1.742 | 2.707 | 6.8 | 19.4 |
| 10 18 | 2 1.82 | + 7 42.8 | 1.711 | 2.702 | 2.8 | 19.1 |
| 10 28 | 1 53.34 | + 7 3.0 | 1.708 | 2.697 | 2.7 | 19.1 |
| 11 7 | 1 45.26 | + 6 29.3 | 1.733 | 2.692 | 6.7 | 19.3 |
| 11 17 | 1 38.51 | + 6 6.1 | 1.785 | 2.687 | 10.6 | 19.6 |
| 11 27 | 1 33.80 | + 5 56.7 | 1.860 | 2.683 | 14.0 | 19.8 |

**448783** 2011 $SQ_{141}$ 10 24.5 48.°49 0.°9/23.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.56 | +12 22.1 | 1.681 | 2.521 | 15.4 | 21.3 |
| 9 28 | 2 16.36 | +11 47.7 | 1.616 | 2.529 | 11.7 | 21.1 |
| 10 8 | 2 9.90 | +11 2.0 | 1.573 | 2.538 | 7.5 | 20.8 |
| 10 18 | 2 1.89 | +10 8.9 | 1.556 | 2.547 | 2.9 | 20.6 |
| 10 28 | 1 53.34 | + 9 14.2 | 1.565 | 2.556 | 2.2 | 20.6 |
| 11 7 | 1 45.39 | + 8 24.6 | 1.603 | 2.565 | 6.6 | 20.9 |
| 11 17 | 1 38.97 | + 7 45.7 | 1.666 | 2.575 | 10.8 | 21.1 |
| 11 27 | 1 34.78 | + 7 21.7 | 1.752 | 2.585 | 14.3 | 21.4 |

**396341** 2014 $DX_{67}$ 10 24.5 182.°54 5.°2/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.42 | + 0 38.7 | 1.914 | 2.764 | 13.4 | 21.5 |
| 9 28 | 2 15.99 | − 0 39.0 | 1.848 | 2.764 | 10.3 | 21.3 |
| 10 8 | 2 9.55 | − 1 58.8 | 1.805 | 2.764 | 7.2 | 21.1 |
| 10 18 | 2 1.73 | − 3 14.0 | 1.789 | 2.764 | 5.3 | 21.0 |
| 10 28 | 1 53.42 | − 4 16.9 | 1.801 | 2.764 | 6.3 | 21.1 |
| 11 7 | 1 45.58 | − 5 1.9 | 1.841 | 2.763 | 9.2 | 21.2 |
| 11 17 | 1 39.05 | − 5 25.7 | 1.905 | 2.762 | 12.3 | 21.4 |
| 11 27 | 1 34.49 | − 5 27.3 | 1.991 | 2.761 | 15.1 | 21.6 |

**447289** 2005 $WE_{32}$ 10 24.5 229.°71 6.°4/19.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.46 | − 7 25.4 | 2.205 | 3.040 | 12.4 | 20.8 |
| 9 28 | 2 18.01 | − 8 1.1 | 2.139 | 3.039 | 9.9 | 20.6 |
| 10 8 | 2 10.72 | − 8 31.1 | 2.097 | 3.038 | 7.6 | 20.5 |
| 10 18 | 2 2.17 | − 8 50.0 | 2.081 | 3.037 | 6.4 | 20.4 |
| 10 28 | 1 53.19 | − 8 53.3 | 2.093 | 3.036 | 7.2 | 20.4 |
| 11 7 | 1 44.66 | − 8 38.3 | 2.133 | 3.034 | 9.3 | 20.6 |
| 11 17 | 1 37.36 | − 8 4.7 | 2.198 | 3.033 | 11.8 | 20.7 |
| 11 27 | 1 31.89 | − 7 13.7 | 2.285 | 3.032 | 14.1 | 20.9 |

**147489** 2004 $CA_{74}$ 10 24.5 193.°89 5.°2/20.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.25 | + 0 7.6 | 1.827 | 2.670 | 14.2 | 20.4 |
| 9 28 | 2 19.78 | − 0 44.5 | 1.756 | 2.669 | 11.0 | 20.2 |
| 10 8 | 2 12.07 | − 1 37.5 | 1.709 | 2.667 | 7.6 | 20.0 |
| 10 18 | 2 2.77 | − 2 25.3 | 1.687 | 2.664 | 5.3 | 19.9 |
| 10 28 | 1 52.87 | − 3 1.3 | 1.694 | 2.661 | 6.1 | 19.9 |
| 11 7 | 1 43.49 | − 3 20.4 | 1.728 | 2.658 | 9.2 | 20.1 |
| 11 17 | 1 35.57 | − 3 20.1 | 1.788 | 2.653 | 12.6 | 20.3 |
| 11 27 | 1 29.86 | − 2 59.9 | 1.870 | 2.648 | 15.7 | 20.5 |

**35980** 1999 $NO_3$ 10 24.5 213°.32 4°.0/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.32 | + 5 8.5 | 1.776 | 2.627 | 14.2 | 18.6 |
| 9 28 | 2 16.11 | + 3 54.9 | 1.705 | 2.625 | 10.8 | 18.3 |
| 10 8 | 2 9.73 | + 2 34.6 | 1.658 | 2.623 | 7.1 | 18.1 |
| 10 18 | 2 1.85 | + 1 14.1 | 1.636 | 2.621 | 4.2 | 17.9 |
| 10 28 | 1 53.39 | + 0 1.4 | 1.642 | 2.618 | 5.2 | 18.0 |
| 11 7 | 1 45.41 | − 0 56.4 | 1.676 | 2.616 | 8.6 | 18.2 |
| 11 17 | 1 38.84 | − 1 34.5 | 1.735 | 2.613 | 12.3 | 18.4 |
| 11 27 | 1 34.37 | − 1 50.8 | 1.816 | 2.610 | 15.5 | 18.6 |

**241565** 1981 $EU_{45}$ 10 24.5 296°.45 3°.5/21.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.45 | + 9 24.9 | 1.631 | 2.485 | 15.1 | 19.7 |
| 9 28 | 2 14.31 | + 7 44.3 | 1.542 | 2.465 | 11.5 | 19.4 |
| 10 8 | 2 8.82 | + 5 47.9 | 1.477 | 2.445 | 7.4 | 19.1 |
| 10 18 | 2 1.57 | + 3 42.9 | 1.437 | 2.426 | 3.9 | 18.9 |
| 10 28 | 1 53.53 | + 1 40.2 | 1.426 | 2.406 | 5.0 | 18.9 |
| 11 7 | 1 45.84 | − 0 9.1 | 1.441 | 2.387 | 9.2 | 19.1 |
| 11 17 | 1 39.57 | − 1 36.0 | 1.482 | 2.367 | 13.5 | 19.3 |
| 11 27 | 1 35.54 | − 2 35.3 | 1.545 | 2.348 | 17.3 | 19.5 |

**38404** 1999 $RF_{202}$ 10 24.5 74°.24 3°.3/27.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.06 | +24 42.3 | 2.120 | 2.904 | 14.5 | 18.5 |
| 9 28 | 2 15.70 | +24 28.5 | 2.045 | 2.915 | 11.7 | 18.3 |
| 10 8 | 2 9.36 | +23 57.2 | 1.992 | 2.926 | 8.4 | 18.1 |
| 10 18 | 2 1.67 | +23 9.0 | 1.965 | 2.937 | 5.1 | 17.9 |
| 10 28 | 1 53.52 | +22 7.1 | 1.965 | 2.949 | 3.3 | 17.8 |
| 11 7 | 1 45.87 | +20 56.9 | 1.994 | 2.960 | 5.2 | 18.0 |
| 11 17 | 1 39.54 | +19 45.3 | 2.050 | 2.971 | 8.4 | 18.2 |
| 11 27 | 1 35.16 | +18 38.8 | 2.133 | 2.982 | 11.4 | 18.4 |

**363441** 2003 $SZ_{115}$ 10 24.5 24°.58 2°.3/25.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.35 | +19 40.2 | 0.973 | 1.834 | 22.3 | 19.9 |
| 9 28 | 2 16.07 | +19 20.5 | 0.924 | 1.844 | 17.5 | 19.7 |
| 10 8 | 2 10.34 | +18 34.6 | 0.893 | 1.856 | 11.8 | 19.4 |
| 10 18 | 2 2.19 | +17 25.5 | 0.881 | 1.869 | 5.7 | 19.1 |
| 10 28 | 1 53.27 | +16 2.0 | 0.892 | 1.883 | 2.6 | 19.0 |
| 11 7 | 1 45.37 | +14 36.6 | 0.925 | 1.899 | 8.0 | 19.4 |
| 11 17 | 1 39.90 | +13 21.6 | 0.981 | 1.916 | 13.5 | 19.8 |
| 11 27 | 1 37.69 | +12 26.2 | 1.057 | 1.933 | 18.2 | 20.1 |

**453542** 2009 $WU_{152}$ 10 24.5 294°.06 3°.6/27.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.39 | +24 34.3 | 2.292 | 3.073 | 13.7 | 21.1 |
| 9 28 | 2 15.32 | +24 38.5 | 2.189 | 3.056 | 11.2 | 20.9 |
| 10 8 | 2 9.26 | +24 27.0 | 2.108 | 3.039 | 8.2 | 20.7 |
| 10 18 | 2 1.70 | +23 59.4 | 2.052 | 3.022 | 5.2 | 20.5 |
| 10 28 | 1 53.46 | +23 17.2 | 2.023 | 3.005 | 3.6 | 20.4 |
| 11 7 | 1 45.45 | +22 24.2 | 2.024 | 2.988 | 5.3 | 20.4 |
| 11 17 | 1 38.56 | +21 26.1 | 2.052 | 2.971 | 8.4 | 20.6 |
| 11 27 | 1 33.53 | +20 29.3 | 2.106 | 2.955 | 11.6 | 20.8 |

**69180** 4770 $P$–$L$ 10 24.5 112°.68 1°.1/25.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.19 | +16 5.6 | 2.394 | 3.200 | 12.4 | 19.7 |
| 9 28 | 2 17.03 | +16 7.6 | 2.318 | 3.209 | 9.6 | 19.5 |
| 10 8 | 2 10.10 | +16 0.1 | 2.265 | 3.217 | 6.4 | 19.3 |
| 10 18 | 2 1.96 | +15 44.2 | 2.239 | 3.226 | 2.9 | 19.1 |
| 10 28 | 1 53.36 | +15 22.3 | 2.243 | 3.234 | 1.4 | 19.0 |
| 11 7 | 1 45.16 | +14 57.9 | 2.276 | 3.242 | 4.7 | 19.2 |
| 11 17 | 1 38.10 | +14 35.0 | 2.338 | 3.250 | 8.0 | 19.5 |
| 11 27 | 1 32.77 | +14 17.2 | 2.426 | 3.258 | 10.8 | 19.7 |

**226511** 2003 $UU_1$ 10 24.5 6°.75 2°.0/22.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.51 | + 6 5.0 | 2.107 | 2.943 | 12.9 | 19.5 |
| 9 28 | 2 17.46 | + 6 0.2 | 2.032 | 2.943 | 9.8 | 19.3 |
| 10 8 | 2 10.48 | + 5 52.2 | 1.980 | 2.944 | 6.3 | 19.1 |
| 10 18 | 2 2.13 | + 5 43.7 | 1.955 | 2.944 | 2.8 | 18.9 |
| 10 28 | 1 53.27 | + 5 38.1 | 1.959 | 2.945 | 2.9 | 18.9 |
| 11 7 | 1 44.81 | + 5 38.5 | 1.992 | 2.947 | 6.3 | 19.1 |
| 11 17 | 1 37.58 | + 5 47.6 | 2.052 | 2.948 | 9.8 | 19.3 |
| 11 27 | 1 32.25 | + 6 7.1 | 2.137 | 2.950 | 12.8 | 19.6 |

**64899** 2001 $YJ_{83}$ 10 24.5 265°.21 8°.8/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.30 | −13 17.3 | 2.106 | 2.940 | 12.9 | 19.3 |
| 9 28 | 2 16.51 | −14 27.2 | 2.049 | 2.937 | 10.9 | 19.2 |
| 10 8 | 2 9.82 | −15 27.6 | 2.015 | 2.934 | 9.3 | 19.1 |
| 10 18 | 2 1.85 | −16 11.5 | 2.007 | 2.930 | 8.8 | 19.0 |
| 10 28 | 1 53.43 | −16 32.9 | 2.024 | 2.927 | 9.7 | 19.1 |
| 11 7 | 1 45.48 | −16 28.9 | 2.065 | 2.923 | 11.6 | 19.2 |
| 11 17 | 1 38.79 | −15 59.5 | 2.130 | 2.920 | 13.7 | 19.4 |
| 11 27 | 1 33.98 | −15 7.0 | 2.215 | 2.917 | 15.7 | 19.5 |

**30574** 2001 $OQ_{100}$ 10 24.5 117°.54 0°.8/23.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.03 | +11 50.4 | 1.739 | 2.568 | 15.4 | 20.3 |
| 9 28 | 2 20.40 | +11 26.5 | 1.676 | 2.583 | 11.7 | 20.1 |
| 10 8 | 2 12.44 | +10 52.5 | 1.635 | 2.597 | 7.5 | 19.9 |
| 10 18 | 2 2.91 | +10 11.9 | 1.620 | 2.611 | 2.9 | 19.6 |
| 10 28 | 1 52.88 | + 9 29.7 | 1.633 | 2.624 | 2.1 | 19.6 |
| 11 7 | 1 43.51 | + 8 51.6 | 1.675 | 2.637 | 6.5 | 19.9 |
| 11 17 | 1 35.77 | + 8 22.6 | 1.744 | 2.649 | 10.6 | 20.2 |
| 11 27 | 1 30.37 | + 8 6.6 | 1.836 | 2.661 | 14.1 | 20.4 |

**119853** 2002 $CR_{75}$ 10 24.5 94°.97 0°.7/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.60 | +12 0.9 | 1.702 | 2.537 | 15.5 | 20.0 |
| 9 28 | 2 18.67 | +11 38.4 | 1.636 | 2.546 | 11.8 | 19.8 |
| 10 8 | 2 11.41 | +11 5.6 | 1.591 | 2.554 | 7.6 | 19.6 |
| 10 18 | 2 2.52 | +10 25.6 | 1.572 | 2.563 | 2.9 | 19.3 |
| 10 28 | 1 53.08 | + 9 43.7 | 1.581 | 2.571 | 2.1 | 19.3 |
| 11 7 | 1 44.23 | + 9 5.6 | 1.617 | 2.580 | 6.6 | 19.6 |
| 11 17 | 1 36.97 | + 8 36.6 | 1.680 | 2.588 | 10.8 | 19.9 |
| 11 27 | 1 32.02 | + 8 20.7 | 1.766 | 2.596 | 14.3 | 20.1 |

**286869** 2002 $OU_{13}$ 10 24.5 21°.23 7°.6/31.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.27 | +32 4.4 | 1.350 | 2.138 | 21.1 | 19.5 |
| 9 28 | 2 15.57 | +32 19.9 | 1.288 | 2.148 | 17.8 | 19.3 |
| 10 8 | 2 9.86 | +32 4.3 | 1.243 | 2.159 | 14.0 | 19.1 |
| 10 18 | 2 1.99 | +31 15.2 | 1.217 | 2.171 | 10.2 | 19.0 |
| 10 28 | 1 53.37 | +29 55.2 | 1.215 | 2.184 | 7.8 | 18.9 |
| 11 7 | 1 45.55 | +28 13.1 | 1.237 | 2.198 | 8.4 | 19.0 |
| 11 17 | 1 39.80 | +26 21.1 | 1.283 | 2.213 | 11.4 | 19.2 |
| 11 27 | 1 36.96 | +24 32.6 | 1.352 | 2.229 | 15.0 | 19.4 |

**481047** 2005 $FT_8$ 10 24.5 232°.45 9°.3/15.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.32 | −16 8.0 | 2.241 | 3.058 | 12.8 | 21.9 |
| 9 28 | 2 19.53 | −17 12.8 | 2.174 | 3.046 | 11.0 | 21.8 |
| 10 8 | 2 11.78 | −18 6.8 | 2.131 | 3.034 | 9.6 | 21.7 |
| 10 18 | 2 2.65 | −18 43.0 | 2.113 | 3.022 | 9.3 | 21.6 |
| 10 28 | 1 53.00 | −18 55.5 | 2.122 | 3.009 | 10.2 | 21.7 |
| 11 7 | 1 43.79 | −18 41.8 | 2.155 | 2.995 | 11.9 | 21.8 |
| 11 17 | 1 35.84 | −18 2.0 | 2.212 | 2.981 | 13.9 | 21.9 |
| 11 27 | 1 29.80 | −16 58.7 | 2.289 | 2.966 | 15.8 | 22.0 |

**175550** 2006 $SW_{300}$ 10 24.5 58°.41 6°.3/20.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.22 | − 4 1.9 | 1.768 | 2.616 | 14.4 | 19.4 |
| 9 28 | 2 18.89 | − 4 40.2 | 1.715 | 2.627 | 11.3 | 19.3 |
| 10 8 | 2 11.40 | − 5 14.1 | 1.685 | 2.637 | 8.2 | 19.1 |
| 10 18 | 2 2.47 | − 5 37.7 | 1.680 | 2.648 | 6.3 | 19.0 |
| 10 28 | 1 53.13 | − 5 45.6 | 1.702 | 2.660 | 7.1 | 19.1 |
| 11 7 | 1 44.44 | − 5 34.6 | 1.750 | 2.671 | 9.7 | 19.3 |
| 11 17 | 1 37.29 | − 5 4.3 | 1.824 | 2.682 | 12.7 | 19.5 |
| 11 27 | 1 32.33 | − 4 15.9 | 1.919 | 2.694 | 15.4 | 19.7 |

**103038** 1999 $XR_{119}$ 10 24.5 331°.37 3°.0/26.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.80 | +21 18.7 | 1.726 | 2.535 | 16.4 | 19.7 |
| 9 28 | 2 17.59 | +21 20.3 | 1.645 | 2.533 | 13.1 | 19.5 |
| 10 8 | 2 10.90 | +21 4.5 | 1.584 | 2.531 | 9.2 | 19.2 |
| 10 18 | 2 2.39 | +20 31.4 | 1.548 | 2.528 | 5.2 | 19.0 |
| 10 28 | 1 53.13 | +19 43.9 | 1.538 | 2.526 | 3.0 | 18.9 |
| 11 7 | 1 44.34 | +18 47.9 | 1.556 | 2.524 | 6.1 | 19.0 |
| 11 17 | 1 37.10 | +17 50.8 | 1.600 | 2.523 | 10.2 | 19.3 |
| 11 27 | 1 32.26 | +17 0.1 | 1.668 | 2.521 | 13.9 | 19.5 |

**328067** 2007 $VK_{202}$ 10 24.5 298°.94 0°.9/23.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.76 | +10 53.5 | 1.324 | 2.175 | 18.1 | 20.9 |
| 9 28 | 2 20.54 | +10 48.5 | 1.244 | 2.162 | 14.0 | 20.6 |
| 10 8 | 2 13.20 | +10 32.9 | 1.183 | 2.150 | 9.1 | 20.3 |
| 10 18 | 2 3.44 | +10 9.2 | 1.146 | 2.138 | 3.6 | 20.0 |
| 10 28 | 1 52.54 | + 9 42.6 | 1.134 | 2.125 | 2.5 | 19.9 |
| 11 7 | 1 42.10 | + 9 19.7 | 1.148 | 2.114 | 8.2 | 20.2 |
| 11 17 | 1 33.57 | + 9 6.8 | 1.186 | 2.102 | 13.5 | 20.5 |
| 11 27 | 1 28.05 | + 9 8.6 | 1.245 | 2.091 | 18.1 | 20.7 |

**95457** 2002 $CD_{303}$ 10 24.5 120°.08 1°.6/23.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.30 | + 6 52.5 | 2.534 | 3.357 | 11.3 | 19.0 |
| 9 28 | 2 17.64 | + 6 42.8 | 2.465 | 3.370 | 8.6 | 18.9 |
| 10 8 | 2 10.38 | + 6 29.7 | 2.421 | 3.382 | 5.5 | 18.7 |
| 10 18 | 2 2.05 | + 6 15.6 | 2.405 | 3.394 | 2.4 | 18.5 |
| 10 28 | 1 53.36 | + 6 3.4 | 2.419 | 3.405 | 2.4 | 18.5 |
| 11 7 | 1 45.09 | + 5 56.0 | 2.464 | 3.417 | 5.4 | 18.8 |
| 11 17 | 1 37.89 | + 5 55.8 | 2.537 | 3.428 | 8.3 | 19.0 |
| 11 27 | 1 32.32 | + 6 4.5 | 2.636 | 3.438 | 10.9 | 19.2 |

**366201** 2012 $KH_{23}$ 10 24.5 53°.07 6°.4/17.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.89 | − 7 7.0 | 2.408 | 3.252 | 11.2 | 20.3 |
| 9 28 | 2 12.91 | − 8 23.5 | 2.353 | 3.257 | 8.9 | 20.1 |
| 10 8 | 2 7.40 | − 9 35.7 | 2.322 | 3.261 | 7.1 | 20.0 |
| 10 18 | 2 0.87 | −10 37.7 | 2.319 | 3.266 | 6.4 | 20.0 |
| 10 28 | 1 54.00 | −11 23.9 | 2.342 | 3.271 | 7.3 | 20.1 |
| 11 7 | 1 47.52 | −11 50.8 | 2.393 | 3.276 | 9.2 | 20.2 |
| 11 17 | 1 42.05 | −11 57.1 | 2.468 | 3.281 | 11.3 | 20.3 |
| 11 27 | 1 38.10 | −11 43.2 | 2.564 | 3.286 | 13.3 | 20.5 |

**117438** 2005 $AX_{35}$ 10 24.5 271°.75 2°.1/22.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.61 | + 9 22.8 | 1.811 | 2.653 | 14.4 | 20.6 |
| 9 28 | 2 16.46 | + 8 36.9 | 1.725 | 2.641 | 11.0 | 20.4 |
| 10 8 | 2 10.08 | + 7 41.3 | 1.663 | 2.629 | 7.0 | 20.1 |
| 10 18 | 2 2.06 | + 6 40.2 | 1.626 | 2.616 | 3.0 | 19.9 |
| 10 28 | 1 53.32 | + 5 40.1 | 1.617 | 2.604 | 3.2 | 19.8 |
| 11 7 | 1 44.96 | + 4 47.5 | 1.636 | 2.592 | 7.3 | 20.1 |
| 11 17 | 1 37.95 | + 4 8.3 | 1.681 | 2.579 | 11.4 | 20.3 |
| 11 27 | 1 33.07 | + 3 46.3 | 1.749 | 2.566 | 15.0 | 20.5 |

**107396** 2001 *DU* 10 24.5 294°.19 0°.0/24.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.95 | +13 41.0 | 1.738 | 2.570 | 15.3 | 20.3 |
| 9 28 | 2 17.57 | +13 23.9 | 1.658 | 2.566 | 11.8 | 20.1 |
| 10 8 | 2 10.82 | +12 55.1 | 1.600 | 2.562 | 7.7 | 19.8 |
| 10 18 | 2 2.35 | +12 16.9 | 1.567 | 2.557 | 3.1 | 19.5 |
| 10 28 | 1 53.17 | +11 34.0 | 1.561 | 2.553 | 1.7 | 19.4 |
| 11 7 | 1 44.44 | +10 52.2 | 1.584 | 2.549 | 6.4 | 19.7 |
| 11 17 | 1 37.19 | +10 17.4 | 1.632 | 2.545 | 10.7 | 20.0 |
| 11 27 | 1 32.22 | + 9 54.5 | 1.704 | 2.541 | 14.4 | 20.2 |

**144552** Jackiesue 10 24.5 102°.61 1°.7/23.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.60 | + 9 34.2 | 1.942 | 2.780 | 13.7 | 19.9 |
| 9 28 | 2 16.15 | + 8 55.7 | 1.870 | 2.783 | 10.4 | 19.7 |
| 10 8 | 2 9.69 | + 8 9.2 | 1.821 | 2.786 | 6.6 | 19.5 |
| 10 18 | 2 1.84 | + 7 18.5 | 1.799 | 2.789 | 2.8 | 19.3 |
| 10 28 | 1 53.47 | + 6 29.0 | 1.805 | 2.792 | 2.8 | 19.3 |
| 11 7 | 1 45.58 | + 5 46.4 | 1.839 | 2.796 | 6.6 | 19.6 |
| 11 17 | 1 39.00 | + 5 15.1 | 1.900 | 2.799 | 10.3 | 19.8 |
| 11 27 | 1 34.39 | + 4 58.4 | 1.985 | 2.802 | 13.5 | 20.0 |

**349842** 2009 $CV_{49}$ 10 24.5 306°.82 0°.6/24.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.18 | +14 9.9 | 1.588 | 2.425 | 16.3 | 21.5 |
| 9 28 | 2 18.32 | +14 12.2 | 1.487 | 2.397 | 12.8 | 21.2 |
| 10 8 | 2 11.71 | +14 2.5 | 1.407 | 2.369 | 8.5 | 20.9 |
| 10 18 | 2 2.87 | +13 41.9 | 1.351 | 2.341 | 3.7 | 20.5 |
| 10 28 | 1 52.84 | +13 13.6 | 1.321 | 2.313 | 1.8 | 20.3 |
| 11 7 | 1 42.96 | +12 43.1 | 1.318 | 2.286 | 7.0 | 20.6 |
| 11 17 | 1 34.57 | +12 16.7 | 1.341 | 2.259 | 12.1 | 20.8 |
| 11 27 | 1 28.75 | +12 0.7 | 1.385 | 2.233 | 16.5 | 21.0 |

**352198** 2007 $RT_{283}$ 10 24.5 60°.33 0°.6/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.87 | +15 14.6 | 1.568 | 2.399 | 16.7 | 20.9 |
| 9 28 | 2 18.99 | +15 3.4 | 1.511 | 2.417 | 12.9 | 20.7 |
| 10 8 | 2 11.64 | +14 38.7 | 1.475 | 2.435 | 8.4 | 20.5 |
| 10 18 | 2 2.62 | +14 3.1 | 1.464 | 2.454 | 3.5 | 20.2 |
| 10 28 | 1 53.10 | +13 21.4 | 1.480 | 2.472 | 1.6 | 20.1 |
| 11 7 | 1 44.32 | +12 40.0 | 1.524 | 2.491 | 6.3 | 20.5 |
| 11 17 | 1 37.30 | +12 5.0 | 1.593 | 2.510 | 10.6 | 20.8 |
| 11 27 | 1 32.75 | +11 41.2 | 1.686 | 2.529 | 14.3 | 21.1 |

**92199** 1999 $XE_{240}$ 10 24.5 313°.12 4°.6/28.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.76 | +25 45.8 | 2.067 | 2.848 | 15.0 | 19.4 |
| 9 28 | 2 16.60 | +26 7.1 | 1.973 | 2.837 | 12.3 | 19.2 |
| 10 8 | 2 10.20 | +26 11.8 | 1.900 | 2.826 | 9.3 | 19.0 |
| 10 18 | 2 2.13 | +25 58.3 | 1.851 | 2.816 | 6.2 | 18.8 |
| 10 28 | 1 53.29 | +25 27.5 | 1.829 | 2.806 | 4.6 | 18.6 |
| 11 7 | 1 44.74 | +24 43.2 | 1.834 | 2.796 | 6.0 | 18.7 |
| 11 17 | 1 37.49 | +23 51.2 | 1.867 | 2.787 | 9.1 | 18.9 |
| 11 27 | 1 32.34 | +22 58.7 | 1.924 | 2.777 | 12.3 | 19.1 |

**391555** 2007 $TZ_{61}$ 10 24.5 42°.99 0°.4/24.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.45 | +14 16.5 | 1.617 | 2.451 | 16.2 | 21.1 |
| 9 28 | 2 17.97 | +14 7.2 | 1.551 | 2.459 | 12.4 | 20.8 |
| 10 8 | 2 11.05 | +13 45.7 | 1.506 | 2.467 | 8.1 | 20.6 |
| 10 18 | 2 2.42 | +13 14.3 | 1.485 | 2.476 | 3.3 | 20.4 |
| 10 28 | 1 53.18 | +12 37.6 | 1.492 | 2.484 | 1.6 | 20.3 |
| 11 7 | 1 44.55 | +12 1.3 | 1.526 | 2.493 | 6.4 | 20.6 |
| 11 17 | 1 37.55 | +11 31.3 | 1.586 | 2.502 | 10.7 | 20.9 |
| 11 27 | 1 32.95 | +11 12.3 | 1.669 | 2.512 | 14.4 | 21.1 |

**21089** Mochizuki 10 24.5 123°.72 6°.9/18.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.50 | − 5 36.7 | 2.016 | 2.861 | 13.0 | 17.5 |
| 9 28 | 2 16.61 | − 6 58.8 | 1.965 | 2.872 | 10.3 | 17.3 |
| 10 8 | 2 9.85 | − 8 16.9 | 1.939 | 2.883 | 7.9 | 17.2 |
| 10 18 | 2 1.87 | − 9 23.8 | 1.938 | 2.893 | 6.9 | 17.2 |
| 10 28 | 1 53.51 | −10 12.8 | 1.965 | 2.903 | 7.9 | 17.2 |
| 11 7 | 1 45.70 | −10 39.8 | 2.019 | 2.912 | 10.1 | 17.4 |
| 11 17 | 1 39.19 | −10 43.4 | 2.097 | 2.921 | 12.6 | 17.6 |
| 11 27 | 1 34.57 | −10 24.7 | 2.195 | 2.930 | 14.9 | 17.8 |

**187029** 2005 $EH_{161}$ 10 24.5 32°.50 2°.2/23.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.85 | +11 1.0 | 1.200 | 2.063 | 18.8 | 19.8 |
| 9 28 | 2 17.37 | +10 7.9 | 1.144 | 2.070 | 14.3 | 19.6 |
| 10 8 | 2 10.93 | + 9 0.7 | 1.107 | 2.077 | 9.1 | 19.3 |
| 10 18 | 2 2.42 | + 7 45.8 | 1.093 | 2.085 | 3.7 | 19.0 |
| 10 28 | 1 53.22 | + 6 32.8 | 1.104 | 2.093 | 3.7 | 19.1 |
| 11 7 | 1 44.83 | + 5 31.5 | 1.140 | 2.102 | 8.9 | 19.4 |
| 11 17 | 1 38.48 | + 4 49.3 | 1.199 | 2.111 | 13.8 | 19.7 |
| 11 27 | 1 35.00 | + 4 30.1 | 1.279 | 2.121 | 18.0 | 20.0 |

**321603** 2009 $US_{148}$ 10 24.5 314°.65 0°.1/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 13.18 | +12 31.4 | 4.113 | 4.925 | 7.5 | 20.9 |
| 9 28 | 2 9.59 | +12 17.8 | 4.024 | 4.922 | 5.7 | 20.7 |
| 10 8 | 2 5.08 | +11 59.5 | 3.960 | 4.918 | 3.7 | 20.6 |
| 10 18 | 1 59.93 | +11 38.0 | 3.925 | 4.915 | 1.5 | 20.4 |
| 10 28 | 1 54.53 | +11 14.9 | 3.921 | 4.912 | 0.8 | 20.4 |
| 11 7 | 1 49.30 | +10 52.6 | 3.947 | 4.909 | 3.1 | 20.5 |
| 11 17 | 1 44.61 | +10 32.9 | 4.003 | 4.906 | 5.2 | 20.7 |
| 11 27 | 1 40.81 | +10 17.9 | 4.086 | 4.903 | 7.1 | 20.8 |

**521560** 2015 $OY_{103}$ 10 24.5 277°.87 2°.1/22.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 27.07 | + 4 25.2 | 2.387 | 3.209 | 12.0 | 20.9 |
| 9 28 | 2 20.94 | + 4 33.0 | 2.284 | 3.188 | 9.2 | 20.7 |
| 10 8 | 2 12.80 | + 4 39.7 | 2.206 | 3.166 | 6.0 | 20.5 |
| 10 18 | 2 3.15 | + 4 47.5 | 2.156 | 3.144 | 2.9 | 20.3 |
| 10 28 | 1 52.77 | + 4 58.9 | 2.137 | 3.122 | 2.9 | 20.2 |
| 11 7 | 1 42.57 | + 5 16.4 | 2.148 | 3.099 | 6.2 | 20.4 |
| 11 17 | 1 33.44 | + 5 41.7 | 2.189 | 3.077 | 9.6 | 20.6 |
| 11 27 | 1 26.11 | + 6 16.1 | 2.255 | 3.054 | 12.7 | 20.7 |

**73338** 2002 $JS_{111}$ 10 24.5 182°.40 1°.5/25.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.90 | +18 23.5 | 1.979 | 2.780 | 14.9 | 20.4 |
| 9 28 | 2 21.09 | +18 10.7 | 1.895 | 2.782 | 11.7 | 20.2 |
| 10 8 | 2 12.97 | +17 43.5 | 1.833 | 2.782 | 7.9 | 20.0 |
| 10 18 | 2 3.21 | +17 3.1 | 1.797 | 2.782 | 3.8 | 19.7 |
| 10 28 | 1 52.78 | +16 13.0 | 1.790 | 2.781 | 1.8 | 19.6 |
| 11 7 | 1 42.82 | +15 18.6 | 1.813 | 2.779 | 5.6 | 19.9 |
| 11 17 | 1 34.31 | +14 26.3 | 1.864 | 2.776 | 9.6 | 20.1 |
| 11 27 | 1 28.04 | +13 42.2 | 1.940 | 2.772 | 13.1 | 20.3 |

**492582** 2014 $OF_{189}$ 10 24.5 349°.68 3°.5/27.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.61 | +22 22.3 | 2.126 | 2.918 | 14.3 | 21.1 |
| 9 28 | 2 17.05 | +22 46.9 | 2.041 | 2.915 | 11.5 | 20.9 |
| 10 8 | 2 10.39 | +22 57.7 | 1.977 | 2.913 | 8.3 | 20.7 |
| 10 18 | 2 2.19 | +22 54.0 | 1.938 | 2.911 | 5.1 | 20.5 |
| 10 28 | 1 53.32 | +22 36.8 | 1.927 | 2.910 | 3.5 | 20.4 |
| 11 7 | 1 44.78 | +22 9.7 | 1.944 | 2.908 | 5.5 | 20.5 |
| 11 17 | 1 37.51 | +21 37.6 | 1.988 | 2.907 | 8.7 | 20.7 |
| 11 27 | 1 32.25 | +21 6.1 | 2.058 | 2.906 | 11.8 | 20.9 |

**455671** 2005 $CR_{72}$ 10 24.5 330°.36 7°.9/29.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.11 | +30 51.6 | 1.877 | 2.635 | 17.1 | 21.3 |
| 9 28 | 2 19.00 | +32 3.4 | 1.779 | 2.617 | 14.6 | 21.1 |
| 10 8 | 2 12.15 | +32 57.8 | 1.701 | 2.599 | 11.9 | 20.8 |
| 10 18 | 2 3.07 | +33 29.7 | 1.645 | 2.583 | 9.4 | 20.7 |
| 10 28 | 1 52.78 | +33 36.6 | 1.614 | 2.566 | 7.9 | 20.5 |
| 11 7 | 1 42.64 | +33 19.5 | 1.608 | 2.551 | 8.6 | 20.6 |
| 11 17 | 1 33.98 | +32 43.6 | 1.628 | 2.536 | 11.0 | 20.7 |
| 11 27 | 1 27.89 | +31 57.3 | 1.671 | 2.523 | 13.9 | 20.8 |

**44329** 1998 $RN_{58}$ 10 24.5 358°.54 0°.8/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.59 | +15 46.4 | 1.489 | 2.330 | 17.0 | 17.4 |
| 9 28 | 2 16.12 | +15 32.7 | 1.417 | 2.328 | 13.2 | 17.2 |
| 10 8 | 2 10.06 | +15 3.8 | 1.365 | 2.326 | 8.7 | 16.9 |
| 10 18 | 2 2.10 | +14 22.1 | 1.336 | 2.326 | 3.8 | 16.6 |
| 10 28 | 1 53.39 | +13 32.5 | 1.333 | 2.326 | 1.7 | 16.5 |
| 11 7 | 1 45.22 | +12 42.2 | 1.357 | 2.326 | 6.7 | 16.8 |
| 11 17 | 1 38.73 | +11 58.5 | 1.406 | 2.327 | 11.4 | 17.1 |
| 11 27 | 1 34.74 | +11 27.3 | 1.477 | 2.329 | 15.4 | 17.3 |

**41516** 2000 $QN_{181}$ 10 24.5 279°.68 2°.2/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.65 | + 6 19.7 | 1.748 | 2.585 | 15.0 | 18.3 |
| 9 28 | 2 21.24 | + 6 20.2 | 1.660 | 2.572 | 11.5 | 18.1 |
| 10 8 | 2 13.29 | + 6 16.9 | 1.595 | 2.559 | 7.5 | 17.8 |
| 10 18 | 2 3.42 | + 6 12.6 | 1.556 | 2.545 | 3.3 | 17.5 |
| 10 28 | 1 52.66 | + 6 11.2 | 1.544 | 2.532 | 3.2 | 17.5 |
| 11 7 | 1 42.25 | + 6 16.6 | 1.561 | 2.518 | 7.4 | 17.7 |
| 11 17 | 1 33.34 | + 6 31.7 | 1.604 | 2.505 | 11.7 | 17.9 |
| 11 27 | 1 26.81 | + 6 58.9 | 1.671 | 2.491 | 15.5 | 18.1 |

**342619** 2008 $UR_{340}$ 10 24.5 46°.36 3°.0/26.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.29 | +17 25.1 | 1.513 | 2.331 | 17.9 | 19.9 |
| 9 28 | 2 23.55 | +18 15.1 | 1.445 | 2.340 | 14.1 | 19.6 |
| 10 8 | 2 14.88 | +18 52.6 | 1.398 | 2.349 | 9.7 | 19.4 |
| 10 18 | 2 4.05 | +19 15.9 | 1.375 | 2.358 | 5.2 | 19.2 |
| 10 28 | 1 52.36 | +19 25.6 | 1.379 | 2.368 | 3.2 | 19.1 |
| 11 7 | 1 41.33 | +19 25.2 | 1.410 | 2.378 | 6.8 | 19.3 |
| 11 17 | 1 32.25 | +19 20.0 | 1.468 | 2.388 | 11.1 | 19.6 |
| 11 27 | 1 26.04 | +19 16.3 | 1.549 | 2.398 | 15.0 | 19.9 |

**163256** 2002 $GU_{35}$ 10 24.5 24°.36 1°.4/26.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.26 | +19 46.1 | 4.194 | 4.976 | 7.9 | 19.6 |
| 9 28 | 2 10.42 | +19 47.9 | 4.104 | 4.978 | 6.2 | 19.4 |
| 10 8 | 2 5.63 | +19 42.8 | 4.039 | 4.979 | 4.3 | 19.3 |
| 10 18 | 2 0.17 | +19 31.4 | 4.002 | 4.981 | 2.4 | 19.2 |
| 10 28 | 1 54.45 | +19 14.9 | 3.995 | 4.983 | 1.4 | 19.1 |
| 11 7 | 1 48.90 | +18 55.2 | 4.019 | 4.984 | 2.9 | 19.2 |
| 11 17 | 1 43.92 | +18 34.3 | 4.073 | 4.986 | 4.8 | 19.3 |
| 11 27 | 1 39.85 | +18 14.7 | 4.155 | 4.988 | 6.6 | 19.5 |

**260162** 2004 $RN_{57}$ 10 24.5 358°.93 1°.3/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.84 | + 9 42.3 | 1.679 | 2.526 | 15.1 | 19.7 |
| 9 28 | 2 15.97 | + 9 31.2 | 1.607 | 2.524 | 11.5 | 19.4 |
| 10 8 | 2 9.80 | + 9 12.4 | 1.556 | 2.522 | 7.4 | 19.2 |
| 10 18 | 2 1.98 | + 8 48.9 | 1.530 | 2.521 | 2.9 | 18.9 |
| 10 28 | 1 53.51 | + 8 25.3 | 1.531 | 2.521 | 2.4 | 18.9 |
| 11 7 | 1 45.51 | + 8 6.7 | 1.559 | 2.522 | 6.8 | 19.2 |
| 11 17 | 1 38.98 | + 7 57.3 | 1.613 | 2.524 | 11.0 | 19.4 |
| 11 27 | 1 34.68 | + 8 0.3 | 1.690 | 2.526 | 14.6 | 19.7 |

**412234** 2013 $HT_{13}$ 10 24.5 77°.51 0°.8/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.91 | +14 34.2 | 2.134 | 2.948 | 13.5 | 21.1 |
| 9 28 | 2 18.51 | +14 42.4 | 2.065 | 2.961 | 10.4 | 20.9 |
| 10 8 | 2 11.15 | +14 41.4 | 2.019 | 2.975 | 6.8 | 20.7 |
| 10 18 | 2 2.45 | +14 32.5 | 2.000 | 2.988 | 3.0 | 20.5 |
| 10 28 | 1 53.29 | +14 18.1 | 2.009 | 3.001 | 1.4 | 20.4 |
| 11 7 | 1 44.61 | +14 1.9 | 2.049 | 3.014 | 5.1 | 20.7 |
| 11 17 | 1 37.24 | +13 47.8 | 2.116 | 3.028 | 8.7 | 20.9 |
| 11 27 | 1 31.80 | +13 39.4 | 2.208 | 3.041 | 11.7 | 21.1 |

**30367** 2000 $JS_{57}$ 10 24.5 154°.83 4°.0/21.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.53 | + 1 2.9 | 2.183 | 3.022 | 12.4 | 18.6 |
| 9 28 | 2 17.36 | + 0 23.3 | 2.115 | 3.026 | 9.5 | 18.5 |
| 10 8 | 2 10.37 | − 0 17.1 | 2.072 | 3.031 | 6.4 | 18.3 |
| 10 18 | 2 2.14 | − 0 53.6 | 2.055 | 3.034 | 4.2 | 18.2 |
| 10 28 | 1 53.48 | − 1 21.4 | 2.067 | 3.038 | 4.9 | 18.2 |
| 11 7 | 1 45.26 | − 1 36.6 | 2.108 | 3.041 | 7.6 | 18.4 |
| 11 17 | 1 38.25 | − 1 37.0 | 2.175 | 3.044 | 10.5 | 18.6 |
| 11 27 | 1 33.04 | − 1 21.8 | 2.266 | 3.046 | 13.2 | 18.8 |

**339297** 2004 $XK_{63}$ 10 24.5 281°.12 4°.9/22.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 34.21 | − 2 19.0 | 1.798 | 2.625 | 15.1 | 20.2 |
| 9 28 | 2 27.08 | − 2 9.5 | 1.702 | 2.604 | 11.9 | 20.0 |
| 10 8 | 2 17.14 | − 1 54.7 | 1.629 | 2.583 | 8.3 | 19.7 |
| 10 18 | 2 5.04 | − 1 30.7 | 1.583 | 2.561 | 5.3 | 19.5 |
| 10 28 | 1 51.88 | − 0 53.4 | 1.566 | 2.540 | 5.7 | 19.5 |
| 11 7 | 1 39.01 | − 0 1.1 | 1.579 | 2.518 | 9.1 | 19.6 |
| 11 17 | 1 27.71 | + 1 6.1 | 1.620 | 2.496 | 13.1 | 19.8 |
| 11 27 | 1 18.97 | + 2 27.0 | 1.685 | 2.474 | 16.7 | 20.0 |

**158639** 2003 $BZ_{82}$ 10 24.5 160°.96 3°.4/21.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.29 | + 4 52.7 | 2.082 | 2.918 | 13.0 | 20.8 |
| 9 28 | 2 18.01 | + 3 53.7 | 2.013 | 2.925 | 9.8 | 20.6 |
| 10 8 | 2 10.82 | + 2 50.1 | 1.969 | 2.931 | 6.4 | 20.4 |
| 10 18 | 2 2.33 | + 1 46.9 | 1.952 | 2.936 | 3.7 | 20.2 |
| 10 28 | 1 53.40 | + 0 50.3 | 1.964 | 2.941 | 4.3 | 20.3 |
| 11 7 | 1 44.95 | + 0 5.7 | 2.006 | 2.945 | 7.4 | 20.5 |
| 11 17 | 1 37.78 | − 0 23.3 | 2.074 | 2.949 | 10.7 | 20.7 |
| 11 27 | 1 32.51 | − 0 34.8 | 2.166 | 2.951 | 13.6 | 20.9 |

**138286** 2000 $GO_{32}$ 10 24.5 310°.28 0°.3/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.84 | +13 13.7 | 1.341 | 2.193 | 17.9 | 19.7 |
| 9 28 | 2 17.64 | +12 57.5 | 1.253 | 2.171 | 13.9 | 19.4 |
| 10 8 | 2 11.44 | +12 26.5 | 1.184 | 2.150 | 9.2 | 19.0 |
| 10 18 | 2 2.84 | +11 43.3 | 1.138 | 2.129 | 3.7 | 18.7 |
| 10 28 | 1 53.04 | +10 53.4 | 1.117 | 2.109 | 2.2 | 18.5 |
| 11 7 | 1 43.56 | +10 5.0 | 1.121 | 2.089 | 8.0 | 18.8 |
| 11 17 | 1 35.84 | + 9 26.2 | 1.149 | 2.069 | 13.5 | 19.1 |
| 11 27 | 1 31.00 | + 9 3.8 | 1.198 | 2.051 | 18.2 | 19.3 |

**319224** 2005 $YV_{281}$ 10 24.5 278°.93 2°.0/22.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.82 | + 7 41.3 | 2.156 | 2.994 | 12.6 | 21.3 |
| 9 28 | 2 15.48 | + 7 9.1 | 2.073 | 2.986 | 9.5 | 21.1 |
| 10 8 | 2 9.29 | + 6 30.9 | 2.014 | 2.978 | 6.1 | 20.9 |
| 10 18 | 2 1.76 | + 5 50.2 | 1.982 | 2.971 | 2.8 | 20.6 |
| 10 28 | 1 53.69 | + 5 11.7 | 1.978 | 2.963 | 3.0 | 20.6 |
| 11 7 | 1 45.95 | + 4 40.1 | 2.002 | 2.956 | 6.4 | 20.9 |
| 11 17 | 1 39.35 | + 4 19.1 | 2.054 | 2.948 | 9.9 | 21.1 |
| 11 27 | 1 34.52 | + 4 11.6 | 2.130 | 2.941 | 12.9 | 21.2 |

**305791** 2009 $DH_{75}$ 10 24.5 209°.45 3°.6/27.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.45 | +23 25.4 | 2.283 | 3.058 | 13.9 | 21.4 |
| 9 28 | 2 19.92 | +23 48.6 | 2.189 | 3.053 | 11.3 | 21.2 |
| 10 8 | 2 12.25 | +23 58.0 | 2.118 | 3.048 | 8.2 | 21.0 |
| 10 18 | 2 2.99 | +23 52.5 | 2.072 | 3.042 | 5.2 | 20.8 |
| 10 28 | 1 53.02 | +23 32.8 | 2.056 | 3.036 | 3.6 | 20.7 |
| 11 7 | 1 43.35 | +23 2.2 | 2.068 | 3.030 | 5.5 | 20.8 |
| 11 17 | 1 34.93 | +22 25.6 | 2.109 | 3.023 | 8.6 | 21.0 |
| 11 27 | 1 28.50 | +21 48.8 | 2.176 | 3.016 | 11.6 | 21.2 |

**370600** 2003 $WD_{100}$ 10 24.5 345°.32 4°.4/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.35 | + 2 57.4 | 0.939 | 1.827 | 20.7 | 19.4 |
| 9 28 | 2 18.83 | + 3 6.2 | 0.874 | 1.812 | 16.1 | 19.1 |
| 10 8 | 2 12.58 | + 3 15.0 | 0.826 | 1.798 | 10.7 | 18.7 |
| 10 18 | 2 3.38 | + 3 29.4 | 0.797 | 1.787 | 5.5 | 18.4 |
| 10 28 | 1 52.80 | + 3 55.5 | 0.791 | 1.777 | 5.6 | 18.4 |
| 11 7 | 1 42.84 | + 4 37.8 | 0.806 | 1.770 | 11.0 | 18.7 |
| 11 17 | 1 35.29 | + 5 37.8 | 0.841 | 1.764 | 16.7 | 18.9 |
| 11 27 | 1 31.39 | + 6 54.8 | 0.894 | 1.761 | 21.7 | 19.2 |

**490036** 2008 $TV_{16}$ 10 24.5 291°.56 1°.1/26.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 12.46 | +19 36.6 | 4.315 | 5.100 | 7.7 | 22.1 |
| 9 28 | 2 9.07 | +19 20.7 | 4.221 | 5.097 | 6.0 | 21.9 |
| 10 8 | 2 4.77 | +18 57.5 | 4.152 | 5.095 | 4.1 | 21.8 |
| 10 18 | 1 59.87 | +18 28.1 | 4.111 | 5.092 | 2.2 | 21.7 |
| 10 28 | 1 54.72 | +17 54.1 | 4.100 | 5.089 | 1.2 | 21.6 |
| 11 7 | 1 49.74 | +17 17.6 | 4.120 | 5.087 | 2.7 | 21.7 |
| 11 17 | 1 45.29 | +16 41.1 | 4.170 | 5.084 | 4.7 | 21.8 |
| 11 27 | 1 41.70 | +16 7.0 | 4.248 | 5.081 | 6.5 | 22.0 |

**424629** 2008 $KV_5$ 10 24.5 193°.70 2°.5/22.5 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.08 | + 9 25.7 | 1.638 | 2.483 | 15.5 | 21.6 |
| 9 28 | 2 17.71 | + 8 24.3 | 1.565 | 2.482 | 11.8 | 21.4 |
| 10 8 | 2 10.94 | + 7 11.9 | 1.515 | 2.481 | 7.5 | 21.1 |
| 10 18 | 2 2.47 | + 5 54.3 | 1.490 | 2.480 | 3.4 | 20.9 |
| 10 28 | 1 53.37 | + 4 39.2 | 1.493 | 2.479 | 3.7 | 20.9 |
| 11 7 | 1 44.79 | + 3 34.7 | 1.524 | 2.477 | 8.0 | 21.1 |
| 11 17 | 1 37.78 | + 2 47.0 | 1.580 | 2.475 | 12.2 | 21.4 |
| 11 27 | 1 33.09 | + 2 19.8 | 1.658 | 2.473 | 15.8 | 21.6 |

**28353** Chrisnielsen 10 24.5 60°.15 0°.3/24.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.50 | +16 18.6 | 1.190 | 2.037 | 20.0 | 17.3 |
| 9 28 | 2 20.06 | +15 39.8 | 1.144 | 2.058 | 15.3 | 17.1 |
| 10 8 | 2 12.58 | +14 42.1 | 1.116 | 2.080 | 9.9 | 16.9 |
| 10 18 | 2 3.10 | +13 30.0 | 1.111 | 2.101 | 4.1 | 16.6 |
| 10 28 | 1 53.11 | +12 12.1 | 1.131 | 2.123 | 2.0 | 16.5 |
| 11 7 | 1 44.15 | +10 58.8 | 1.177 | 2.145 | 7.6 | 17.0 |
| 11 17 | 1 37.43 | + 9 58.9 | 1.246 | 2.167 | 12.6 | 17.3 |
| 11 27 | 1 33.68 | + 9 18.3 | 1.338 | 2.189 | 16.8 | 17.6 |

**288177** 2003 $WO_{189}$ 10 24.5 343°.76 14°.7/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.27 | −23 17.6 | 1.552 | 2.378 | 17.1 | 19.5 |
| 9 28 | 2 18.00 | −25 1.9 | 1.513 | 2.372 | 15.6 | 19.4 |
| 10 8 | 2 11.16 | −26 24.6 | 1.493 | 2.367 | 14.8 | 19.4 |
| 10 18 | 2 2.55 | −27 14.7 | 1.494 | 2.363 | 14.9 | 19.4 |
| 10 28 | 1 53.37 | −27 24.7 | 1.515 | 2.359 | 15.9 | 19.4 |
| 11 7 | 1 44.92 | −26 52.7 | 1.556 | 2.356 | 17.6 | 19.5 |
| 11 17 | 1 38.25 | −25 41.8 | 1.614 | 2.353 | 19.4 | 19.7 |
| 11 27 | 1 34.10 | −23 58.2 | 1.688 | 2.351 | 21.1 | 19.8 |

**404087** 2012 $EN_7$ 10 24.5 81°.91 5°.5/29.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.69 | +29 42.8 | 2.354 | 3.096 | 14.4 | 20.6 |
| 9 28 | 2 19.98 | +30 22.3 | 2.282 | 3.114 | 12.0 | 20.5 |
| 10 8 | 2 12.19 | +30 45.0 | 2.232 | 3.132 | 9.4 | 20.3 |
| 10 18 | 2 2.94 | +30 48.9 | 2.207 | 3.151 | 6.9 | 20.2 |
| 10 28 | 1 53.15 | +30 34.0 | 2.209 | 3.169 | 5.5 | 20.2 |
| 11 7 | 1 43.83 | +30 3.6 | 2.239 | 3.187 | 6.2 | 20.2 |
| 11 17 | 1 35.87 | +29 22.7 | 2.297 | 3.205 | 8.3 | 20.4 |
| 11 27 | 1 29.95 | +28 37.7 | 2.382 | 3.223 | 10.7 | 20.6 |

**266014** 2006 $EB_{39}$ 10 24.5 248°.13 8°.5/ 2.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.13 | +39 54.1 | 2.554 | 3.225 | 15.0 | 20.7 |
| 9 28 | 2 20.75 | +40 55.4 | 2.459 | 3.220 | 13.3 | 20.6 |
| 10 8 | 2 12.98 | +41 37.6 | 2.383 | 3.215 | 11.5 | 20.4 |
| 10 18 | 2 3.37 | +41 56.5 | 2.329 | 3.210 | 9.8 | 20.3 |
| 10 28 | 1 52.87 | +41 49.8 | 2.299 | 3.205 | 8.6 | 20.2 |
| 11 7 | 1 42.60 | +41 18.9 | 2.296 | 3.200 | 8.6 | 20.2 |
| 11 17 | 1 33.65 | +40 27.9 | 2.319 | 3.194 | 9.7 | 20.3 |
| 11 27 | 1 26.91 | +39 24.2 | 2.366 | 3.189 | 11.4 | 20.4 |

**29505** 1997 $WV_{44}$ 10 24.5 253°.96 1°.3/25.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.25 | +18 47.8 | 2.231 | 3.036 | 13.3 | 18.8 |
| 9 28 | 2 15.93 | +18 22.0 | 2.133 | 3.022 | 10.4 | 18.6 |
| 10 8 | 2 9.66 | +17 42.2 | 2.057 | 3.008 | 7.1 | 18.4 |
| 10 18 | 2 1.97 | +16 49.6 | 2.008 | 2.994 | 3.4 | 18.1 |
| 10 28 | 1 53.65 | +15 48.0 | 1.988 | 2.979 | 1.6 | 18.0 |
| 11 7 | 1 45.61 | +14 42.6 | 1.997 | 2.965 | 5.1 | 18.2 |
| 11 17 | 1 38.71 | +13 39.6 | 2.035 | 2.949 | 8.8 | 18.4 |
| 11 27 | 1 33.63 | +12 44.7 | 2.098 | 2.934 | 12.1 | 18.6 |

**471263** 2011 $DB_{14}$ 10 24.5 86°.48 3°.1/22.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.09 | + 7 49.9 | 1.511 | 2.362 | 16.3 | 21.7 |
| 9 28 | 2 18.48 | + 6 52.0 | 1.453 | 2.373 | 12.3 | 21.5 |
| 10 8 | 2 11.40 | + 5 45.6 | 1.418 | 2.385 | 7.9 | 21.3 |
| 10 18 | 2 2.64 | + 4 37.0 | 1.407 | 2.396 | 3.8 | 21.1 |
| 10 28 | 1 53.36 | + 3 34.1 | 1.423 | 2.407 | 4.3 | 21.2 |
| 11 7 | 1 44.78 | + 2 44.3 | 1.466 | 2.418 | 8.4 | 21.4 |
| 11 17 | 1 37.94 | + 2 12.6 | 1.534 | 2.429 | 12.5 | 21.7 |
| 11 27 | 1 33.54 | + 2 1.4 | 1.624 | 2.440 | 16.0 | 22.0 |

**126848** 2002 $EL_{70}$ 10 24.5 130°.64 0°.6/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.80 | +12 18.8 | 2.304 | 3.128 | 12.3 | 19.6 |
| 9 28 | 2 15.31 | +11 49.3 | 2.228 | 3.133 | 9.4 | 19.4 |
| 10 8 | 2 9.09 | +11 11.2 | 2.176 | 3.137 | 6.0 | 19.2 |
| 10 18 | 2 1.68 | +10 27.4 | 2.151 | 3.142 | 2.3 | 19.0 |
| 10 28 | 1 53.84 | + 9 41.8 | 2.155 | 3.146 | 1.6 | 19.0 |
| 11 7 | 1 46.39 | + 8 59.2 | 2.188 | 3.150 | 5.3 | 19.2 |
| 11 17 | 1 40.05 | + 8 23.7 | 2.250 | 3.154 | 8.6 | 19.4 |
| 11 27 | 1 35.39 | + 7 58.7 | 2.337 | 3.157 | 11.6 | 19.6 |

**203177** 2001 $AM_9$ 10 24.5 339°.81 2°.9/26.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.25 | +21 32.1 | 1.424 | 2.253 | 18.3 | 19.2 |
| 9 28 | 2 15.42 | +21 19.4 | 1.344 | 2.244 | 14.6 | 18.9 |
| 10 8 | 2 9.82 | +20 44.6 | 1.284 | 2.236 | 10.3 | 18.6 |
| 10 18 | 2 2.15 | +19 48.2 | 1.245 | 2.228 | 5.6 | 18.4 |
| 10 28 | 1 53.57 | +18 34.9 | 1.232 | 2.222 | 3.0 | 18.2 |
| 11 7 | 1 45.49 | +17 13.2 | 1.245 | 2.216 | 6.8 | 18.4 |
| 11 17 | 1 39.16 | +15 53.2 | 1.282 | 2.211 | 11.5 | 18.7 |
| 11 27 | 1 35.50 | +14 44.4 | 1.342 | 2.207 | 15.8 | 18.9 |

**38547** 1999 $VN_{35}$ 10 24.5 41.°80 0.°0/24.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.00 | +14 22.2 | 1.743 | 2.577 | 15.2 | 18.2 |
| 9 28 | 2 15.84 | +13 54.7 | 1.688 | 2.596 | 11.6 | 18.0 |
| 10 8 | 2 9.56 | +13 15.2 | 1.654 | 2.616 | 7.4 | 17.8 |
| 10 18 | 2 1.88 | +12 27.2 | 1.645 | 2.636 | 3.0 | 17.6 |
| 10 28 | 1 53.79 | +11 35.8 | 1.664 | 2.656 | 1.6 | 17.5 |
| 11 7 | 1 46.32 | +10 47.2 | 1.711 | 2.677 | 5.9 | 17.9 |
| 11 17 | 1 40.35 | +10 6.9 | 1.784 | 2.698 | 9.9 | 18.2 |
| 11 27 | 1 36.50 | + 9 39.0 | 1.881 | 2.719 | 13.2 | 18.4 |

**227152** 2005 $PJ_{20}$ 10 24.5 29.°70 3.°0/22.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.88 | + 9 13.7 | 1.077 | 1.952 | 19.6 | 20.1 |
| 9 28 | 2 16.77 | + 8 20.2 | 1.033 | 1.965 | 14.8 | 19.9 |
| 10 8 | 2 10.61 | + 7 15.0 | 1.008 | 1.980 | 9.4 | 19.6 |
| 10 18 | 2 2.37 | + 6 5.8 | 1.004 | 1.995 | 4.1 | 19.4 |
| 10 28 | 1 53.55 | + 5 2.8 | 1.025 | 2.012 | 4.4 | 19.5 |
| 11 7 | 1 45.69 | + 4 15.1 | 1.069 | 2.030 | 9.5 | 19.8 |
| 11 17 | 1 40.00 | + 3 48.6 | 1.135 | 2.048 | 14.3 | 20.1 |
| 11 27 | 1 37.23 | + 3 45.8 | 1.221 | 2.067 | 18.4 | 20.5 |

**249521** Truth 10 24.5 347.°40 24.°3/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 31.81 | −39 27.3 | 1.132 | 1.907 | 25.1 | 18.6 |
| 9 28 | 2 26.62 | −40 33.7 | 1.095 | 1.888 | 24.6 | 18.5 |
| 10 8 | 2 17.27 | −40 55.6 | 1.068 | 1.871 | 24.3 | 18.4 |
| 10 18 | 2 5.08 | −40 18.6 | 1.055 | 1.855 | 24.5 | 18.4 |
| 10 28 | 1 52.16 | −38 33.5 | 1.055 | 1.843 | 25.1 | 18.4 |
| 11 7 | 1 40.70 | −35 41.8 | 1.069 | 1.832 | 26.1 | 18.4 |
| 11 17 | 1 32.30 | −31 53.4 | 1.098 | 1.825 | 27.4 | 18.5 |
| 11 27 | 1 27.79 | −27 23.5 | 1.141 | 1.820 | 28.8 | 18.7 |

**518732** 2009 $GM_2$ 10 24.5 171.°96 3.°9/21.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.70 | + 1 4.6 | 2.314 | 3.149 | 11.9 | 21.6 |
| 9 28 | 2 17.44 | + 0 25.7 | 2.242 | 3.152 | 9.1 | 21.5 |
| 10 8 | 2 10.43 | − 0 13.9 | 2.196 | 3.154 | 6.2 | 21.3 |
| 10 18 | 2 2.22 | − 0 50.0 | 2.177 | 3.156 | 4.0 | 21.2 |
| 10 28 | 1 53.59 | − 1 18.0 | 2.187 | 3.157 | 4.7 | 21.2 |
| 11 7 | 1 45.37 | − 1 34.1 | 2.226 | 3.158 | 7.3 | 21.4 |
| 11 17 | 1 38.27 | − 1 36.1 | 2.292 | 3.159 | 10.2 | 21.6 |
| 11 27 | 1 32.90 | − 1 23.1 | 2.382 | 3.159 | 12.7 | 21.7 |

**190009** 2004 $LV_{18}$ 10 24.5 181.°94 3.°2/27.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.57 | +23 25.1 | 2.097 | 2.877 | 14.8 | 21.3 |
| 9 28 | 2 20.09 | +23 19.6 | 2.010 | 2.879 | 11.9 | 21.1 |
| 10 8 | 2 12.38 | +22 57.3 | 1.944 | 2.879 | 8.5 | 20.9 |
| 10 18 | 2 3.08 | +22 18.1 | 1.904 | 2.879 | 5.1 | 20.7 |
| 10 28 | 1 53.14 | +21 24.4 | 1.893 | 2.878 | 3.2 | 20.6 |
| 11 7 | 1 43.63 | +20 21.4 | 1.911 | 2.877 | 5.5 | 20.7 |
| 11 17 | 1 35.52 | +19 15.9 | 1.958 | 2.874 | 9.0 | 21.0 |
| 11 27 | 1 29.55 | +18 14.9 | 2.030 | 2.871 | 12.3 | 21.2 |

**154302** 2002 $UQ_3$ 10 24.5 312.°35 8.°9/30.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.02 | +37 48.6 | 0.990 | 1.769 | 27.8 | 20.1 |
| 9 28 | 2 27.04 | +37 18.9 | 0.839 | 1.696 | 25.2 | 19.5 |
| 10 8 | 2 20.72 | +35 41.0 | 0.699 | 1.619 | 21.1 | 18.9 |
| 10 18 | 2 8.15 | +32 13.0 | 0.576 | 1.540 | 15.3 | 18.2 |
| 10 28 | 1 49.53 | +25 56.7 | 0.473 | 1.458 | 9.3 | 17.4 |
| 11 7 | 1 26.91 | +15 59.4 | 0.398 | 1.373 | 14.1 | 17.1 |
| 11 17 | 1 3.89 | + 2 38.0 | 0.357 | 1.285 | 29.1 | 17.2 |
| 11 27 | 0 44.29 | −11 52.5 | 0.349 | 1.197 | 46.0 | 17.5 |

**93512** 2000 $TO_{60}$ 10 24.5 284.°67 8.°3/17.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.50 | − 5 34.8 | 1.653 | 2.511 | 14.8 | 18.8 |
| 9 28 | 2 16.53 | − 7 9.5 | 1.587 | 2.501 | 11.9 | 18.6 |
| 10 8 | 2 10.23 | − 8 41.9 | 1.543 | 2.490 | 9.3 | 18.4 |
| 10 18 | 2 2.24 | −10 2.5 | 1.524 | 2.480 | 8.3 | 18.4 |
| 10 28 | 1 53.59 | −11 2.0 | 1.531 | 2.469 | 9.6 | 18.4 |
| 11 7 | 1 45.40 | −11 34.0 | 1.562 | 2.459 | 12.3 | 18.6 |
| 11 17 | 1 38.68 | −11 36.3 | 1.616 | 2.449 | 15.4 | 18.7 |
| 11 27 | 1 34.21 | −11 10.0 | 1.688 | 2.439 | 18.2 | 18.9 |

**517038** 2012 $YG_{10}$ 10 24.5 319.°02 5.°3/19.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.40 | − 0 31.2 | 1.982 | 2.833 | 13.0 | 20.8 |
| 9 28 | 2 15.24 | − 1 36.6 | 1.915 | 2.831 | 10.0 | 20.6 |
| 10 8 | 2 9.17 | − 2 42.6 | 1.871 | 2.829 | 7.1 | 20.4 |
| 10 18 | 2 1.77 | − 3 43.1 | 1.854 | 2.827 | 5.3 | 20.3 |
| 10 28 | 1 53.87 | − 4 31.5 | 1.864 | 2.825 | 6.3 | 20.4 |
| 11 7 | 1 46.41 | − 5 2.7 | 1.901 | 2.824 | 9.0 | 20.6 |
| 11 17 | 1 40.18 | − 5 13.9 | 1.963 | 2.822 | 12.0 | 20.7 |
| 11 27 | 1 35.81 | − 5 4.7 | 2.048 | 2.820 | 14.7 | 20.9 |

**458411** 2011 $AM_2$ 10 24.5 322.°23 1.°7/23.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.67 | + 8 47.6 | 1.814 | 2.659 | 14.2 | 21.4 |
| 9 28 | 2 15.87 | + 8 29.3 | 1.725 | 2.642 | 10.9 | 21.2 |
| 10 8 | 2 9.84 | + 8 3.6 | 1.659 | 2.625 | 7.0 | 20.9 |
| 10 18 | 2 2.13 | + 7 33.9 | 1.617 | 2.608 | 3.0 | 20.6 |
| 10 28 | 1 53.65 | + 7 4.9 | 1.603 | 2.592 | 2.8 | 20.6 |
| 11 7 | 1 45.46 | + 6 41.6 | 1.617 | 2.576 | 6.9 | 20.8 |
| 11 17 | 1 38.58 | + 6 28.5 | 1.656 | 2.561 | 11.1 | 21.0 |
| 11 27 | 1 33.80 | + 6 29.1 | 1.718 | 2.547 | 14.7 | 21.2 |

**477187** 2009 $FS_{73}$ 10 24.5 236.°37 0.°9/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.00 | +13 23.0 | 2.293 | 3.114 | 12.4 | 21.8 |
| 9 28 | 2 15.60 | +12 20.0 | 2.198 | 3.101 | 9.5 | 21.6 |
| 10 8 | 2 9.39 | +11 4.8 | 2.127 | 3.088 | 6.1 | 21.4 |
| 10 18 | 2 1.87 | + 9 40.9 | 2.083 | 3.074 | 2.4 | 21.1 |
| 10 28 | 1 53.80 | + 8 14.1 | 2.070 | 3.060 | 2.0 | 21.0 |
| 11 7 | 1 46.03 | + 6 51.0 | 2.087 | 3.045 | 5.8 | 21.3 |
| 11 17 | 1 39.33 | + 5 37.7 | 2.132 | 3.029 | 9.4 | 21.5 |
| 11 27 | 1 34.36 | + 4 39.0 | 2.203 | 3.013 | 12.6 | 21.7 |

**24333** Petermassey 10 24.5 9.°12 3.°9/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.30 | + 5 2.3 | 1.549 | 2.407 | 15.6 | 18.0 |
| 9 28 | 2 16.43 | + 4 9.9 | 1.485 | 2.408 | 11.8 | 17.8 |
| 10 8 | 2 10.17 | + 3 11.7 | 1.442 | 2.409 | 7.7 | 17.6 |
| 10 18 | 2 2.21 | + 2 14.0 | 1.424 | 2.411 | 4.3 | 17.4 |
| 10 28 | 1 53.65 | + 1 24.4 | 1.433 | 2.413 | 5.1 | 17.4 |
| 11 7 | 1 45.65 | + 0 49.4 | 1.467 | 2.415 | 8.8 | 17.6 |
| 11 17 | 1 39.23 | + 0 33.1 | 1.526 | 2.418 | 12.8 | 17.9 |
| 11 27 | 1 35.15 | + 0 37.5 | 1.607 | 2.421 | 16.3 | 18.1 |

**44813** 1999 $TV_{222}$ 10 24.5 70.°92 5.°1/21.4 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.62 | + 2 53.5 | 1.334 | 2.194 | 17.5 | 18.6 |
| 9 28 | 2 20.58 | + 1 59.9 | 1.287 | 2.210 | 13.3 | 18.3 |
| 10 8 | 2 12.81 | + 1 3.5 | 1.260 | 2.226 | 8.9 | 18.1 |
| 10 18 | 2 3.23 | + 0 11.9 | 1.258 | 2.242 | 5.4 | 18.0 |
| 10 28 | 1 53.16 | − 0 26.9 | 1.281 | 2.258 | 6.2 | 18.1 |
| 11 7 | 1 43.98 | − 0 47.0 | 1.330 | 2.274 | 10.0 | 18.3 |
| 11 17 | 1 36.79 | − 0 45.6 | 1.403 | 2.290 | 14.0 | 18.6 |
| 11 27 | 1 32.31 | − 0 22.9 | 1.496 | 2.306 | 17.4 | 18.9 |

**265093** 2003 $ST_{286}$ 10 24.5 186.°13 0.°5/24.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.66 | +10 15.9 | 2.422 | 3.241 | 11.9 | 20.1 |
| 9 28 | 2 18.21 | +10 21.0 | 2.340 | 3.241 | 9.1 | 19.9 |
| 10 8 | 2 10.98 | +10 20.9 | 2.281 | 3.240 | 5.9 | 19.7 |
| 10 18 | 2 2.49 | +10 16.9 | 2.250 | 3.240 | 2.3 | 19.5 |
| 10 28 | 1 53.49 | +10 11.6 | 2.249 | 3.240 | 1.5 | 19.4 |
| 11 7 | 1 44.82 | +10 7.8 | 2.278 | 3.239 | 5.1 | 19.7 |
| 11 17 | 1 37.24 | +10 8.1 | 2.336 | 3.239 | 8.4 | 19.9 |
| 11 27 | 1 31.37 | +10 15.2 | 2.419 | 3.238 | 11.3 | 20.1 |

**421454** 2014 $NH_6$ 10 24.5 70.°72 2.°0/26.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.52 | +20 2.7 | 2.061 | 2.865 | 14.2 | 21.0 |
| 9 28 | 2 16.17 | +19 50.2 | 1.984 | 2.871 | 11.2 | 20.8 |
| 10 8 | 2 9.80 | +19 23.1 | 1.929 | 2.876 | 7.7 | 20.6 |
| 10 18 | 2 2.03 | +18 42.7 | 1.899 | 2.882 | 4.0 | 20.4 |
| 10 28 | 1 53.74 | +17 52.2 | 1.898 | 2.888 | 2.1 | 20.2 |
| 11 7 | 1 45.90 | +16 57.0 | 1.925 | 2.893 | 5.1 | 20.5 |
| 11 17 | 1 39.35 | +16 3.0 | 1.980 | 2.899 | 8.7 | 20.7 |
| 11 27 | 1 34.76 | +15 16.0 | 2.060 | 2.904 | 12.0 | 20.9 |

**21999** Disora 10 24.5 98.°14 6.°3/20.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.85 | − 4 39.5 | 1.896 | 2.736 | 13.9 | 17.6 |
| 9 28 | 2 20.00 | − 5 23.8 | 1.846 | 2.752 | 10.9 | 17.4 |
| 10 8 | 2 12.10 | − 6 3.5 | 1.820 | 2.768 | 8.0 | 17.3 |
| 10 18 | 2 2.89 | − 6 32.7 | 1.819 | 2.784 | 6.3 | 17.2 |
| 10 28 | 1 53.33 | − 6 46.1 | 1.846 | 2.799 | 7.1 | 17.3 |
| 11 7 | 1 44.43 | − 6 40.7 | 1.901 | 2.815 | 9.5 | 17.5 |
| 11 17 | 1 37.03 | − 6 16.1 | 1.980 | 2.829 | 12.3 | 17.7 |
| 11 27 | 1 31.73 | − 5 33.5 | 2.082 | 2.844 | 14.8 | 17.9 |

**383090** 2005 $SJ_{90}$ 10 24.6 315.°33 0.°1/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.08 | +14 48.3 | 1.381 | 2.228 | 17.7 | 21.1 |
| 9 28 | 2 16.92 | +14 25.9 | 1.297 | 2.213 | 13.8 | 20.8 |
| 10 8 | 2 10.90 | +13 46.9 | 1.233 | 2.197 | 9.1 | 20.5 |
| 10 18 | 2 2.67 | +12 54.1 | 1.192 | 2.183 | 3.8 | 20.1 |
| 10 28 | 1 53.39 | +11 53.1 | 1.176 | 2.168 | 1.9 | 20.0 |
| 11 7 | 1 44.53 | +10 52.6 | 1.186 | 2.155 | 7.5 | 20.3 |
| 11 17 | 1 37.40 | +10 1.1 | 1.220 | 2.141 | 12.8 | 20.5 |
| 11 27 | 1 33.03 | + 9 25.7 | 1.276 | 2.129 | 17.3 | 20.8 |

**404590** 2013 $ML_1$ 10 24.6 21.°73 1.°6/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.12 | +11 25.0 | 2.003 | 2.841 | 13.3 | 20.5 |
| 9 28 | 2 13.53 | +10 20.9 | 1.930 | 2.844 | 10.1 | 20.3 |
| 10 8 | 2 8.07 | + 9 6.2 | 1.882 | 2.847 | 6.4 | 20.1 |
| 10 18 | 2 1.34 | + 7 45.6 | 1.859 | 2.850 | 2.6 | 19.9 |
| 10 28 | 1 54.16 | + 6 25.7 | 1.866 | 2.854 | 2.7 | 19.9 |
| 11 7 | 1 47.41 | + 5 13.3 | 1.901 | 2.857 | 6.4 | 20.2 |
| 11 17 | 1 41.86 | + 4 14.0 | 1.963 | 2.861 | 10.0 | 20.4 |
| 11 27 | 1 38.13 | + 3 31.6 | 2.049 | 2.865 | 13.1 | 20.6 |

**39463** Phyleus 10 24.6 332.°68 1.°4/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 12.44 | + 6 46.5 | 3.971 | 4.800 | 7.5 | 19.3 |
| 9 28 | 2 9.11 | + 6 17.1 | 3.887 | 4.796 | 5.6 | 19.2 |
| 10 8 | 2 4.86 | + 5 44.9 | 3.829 | 4.792 | 3.6 | 19.1 |
| 10 18 | 1 59.99 | + 5 11.9 | 3.800 | 4.789 | 1.7 | 18.9 |
| 10 28 | 1 54.88 | + 4 40.7 | 3.802 | 4.785 | 1.9 | 18.9 |
| 11 7 | 1 49.93 | + 4 13.5 | 3.833 | 4.782 | 3.8 | 19.1 |
| 11 17 | 1 45.54 | + 3 52.3 | 3.894 | 4.778 | 5.9 | 19.2 |
| 11 27 | 1 42.03 | + 3 38.8 | 3.980 | 4.775 | 7.7 | 19.3 |

**56576** 2000 $JB_{25}$ 10 24.6 74°.75 4°.4/27.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 25.42 | +24 24.7 | 1.547 | 2.346 | 18.4 | 19.0 |
| 9 28 | 2 20.57 | +24 36.6 | 1.482 | 2.360 | 14.8 | 18.8 |
| 10 8 | 2 12.94 | +24 27.3 | 1.437 | 2.374 | 10.8 | 18.6 |
| 10 18 | 2 3.37 | +23 56.1 | 1.415 | 2.388 | 6.7 | 18.4 |
| 10 28 | 1 53.13 | +23 5.7 | 1.419 | 2.402 | 4.4 | 18.4 |
| 11 7 | 1 43.62 | +22 2.9 | 1.450 | 2.417 | 6.7 | 18.5 |
| 11 17 | 1 36.02 | +20 56.6 | 1.507 | 2.431 | 10.6 | 18.8 |
| 11 27 | 1 31.13 | +19 55.7 | 1.587 | 2.444 | 14.2 | 19.1 |

**57062** 2001 $NC_{1}$ 10 24.6 355°.53 5°.2/21.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.29 | + 3 50.3 | 1.057 | 1.941 | 19.1 | 18.3 |
| 9 28 | 2 15.92 | + 3 9.5 | 0.998 | 1.935 | 14.7 | 18.1 |
| 10 8 | 2 10.37 | + 2 23.3 | 0.958 | 1.930 | 9.8 | 17.8 |
| 10 18 | 2 2.45 | + 1 39.9 | 0.939 | 1.927 | 5.7 | 17.5 |
| 10 28 | 1 53.60 | + 1 8.6 | 0.943 | 1.925 | 6.5 | 17.6 |
| 11 7 | 1 45.47 | + 0 57.3 | 0.969 | 1.924 | 11.1 | 17.8 |
| 11 17 | 1 39.44 | + 1 9.7 | 1.016 | 1.926 | 16.0 | 18.1 |
| 11 27 | 1 36.48 | + 1 46.5 | 1.082 | 1.929 | 20.2 | 18.4 |

**177741** 2005 $JM_{42}$ 10 24.6 119°.67 1°.6/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.83 | +11 7.3 | 1.601 | 2.439 | 16.1 | 20.8 |
| 9 28 | 2 19.77 | +10 21.6 | 1.538 | 2.450 | 12.2 | 20.6 |
| 10 8 | 2 12.25 | + 9 24.7 | 1.497 | 2.462 | 7.8 | 20.4 |
| 10 18 | 2 3.06 | + 8 21.4 | 1.481 | 2.472 | 3.1 | 20.1 |
| 10 28 | 1 53.33 | + 7 18.6 | 1.494 | 2.483 | 2.8 | 20.1 |
| 11 7 | 1 44.28 | + 6 23.7 | 1.534 | 2.493 | 7.3 | 20.4 |
| 11 17 | 1 36.92 | + 5 42.4 | 1.599 | 2.502 | 11.6 | 20.7 |
| 11 27 | 1 31.99 | + 5 18.7 | 1.688 | 2.511 | 15.2 | 21.0 |

**192978** 2000 $DO_{41}$ 10 24.6 330°.73 2°.8/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.45 | + 6 57.4 | 1.904 | 2.754 | 13.5 | 19.9 |
| 9 28 | 2 13.99 | + 6 11.1 | 1.823 | 2.743 | 10.2 | 19.7 |
| 10 8 | 2 8.51 | + 5 17.9 | 1.765 | 2.732 | 6.6 | 19.4 |
| 10 18 | 2 1.59 | + 4 22.5 | 1.733 | 2.722 | 3.3 | 19.2 |
| 10 28 | 1 54.07 | + 3 30.8 | 1.729 | 2.712 | 3.8 | 19.2 |
| 11 7 | 1 46.89 | + 2 48.8 | 1.752 | 2.703 | 7.3 | 19.4 |
| 11 17 | 1 40.94 | + 2 21.1 | 1.801 | 2.695 | 11.0 | 19.6 |
| 11 27 | 1 36.90 | + 2 10.4 | 1.873 | 2.687 | 14.3 | 19.8 |

**243073** Freistetter 10 24.6 92°.21 7°.1/19.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.50 | −12 45.4 | 2.451 | 3.263 | 12.0 | 20.1 |
| 9 28 | 2 21.52 | −13 8.4 | 2.403 | 3.282 | 9.8 | 20.0 |
| 10 8 | 2 12.87 | −13 21.7 | 2.380 | 3.300 | 8.0 | 19.9 |
| 10 18 | 2 3.20 | −13 20.9 | 2.384 | 3.317 | 7.1 | 19.9 |
| 10 28 | 1 53.30 | −13 2.6 | 2.416 | 3.335 | 7.6 | 20.0 |
| 11 7 | 1 44.02 | −12 25.9 | 2.477 | 3.352 | 9.2 | 20.1 |
| 11 17 | 1 36.03 | −11 31.9 | 2.564 | 3.369 | 11.2 | 20.3 |
| 11 27 | 1 29.85 | −10 22.9 | 2.675 | 3.386 | 13.0 | 20.4 |

**402315** 2005 $TL_{124}$ 10 24.6 334°.57 1°.2/25.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.38 | +16 11.3 | 1.892 | 2.713 | 14.7 | 21.9 |
| 9 28 | 2 17.09 | +16 13.0 | 1.809 | 2.708 | 11.5 | 21.7 |
| 10 8 | 2 10.58 | +16 2.9 | 1.748 | 2.704 | 7.7 | 21.4 |
| 10 18 | 2 2.45 | +15 42.1 | 1.712 | 2.699 | 3.5 | 21.2 |
| 10 28 | 1 53.63 | +15 13.6 | 1.704 | 2.695 | 1.6 | 21.0 |
| 11 7 | 1 45.19 | +14 42.1 | 1.723 | 2.691 | 5.6 | 21.3 |
| 11 17 | 1 38.10 | +14 12.7 | 1.770 | 2.688 | 9.7 | 21.5 |
| 11 27 | 1 33.13 | +13 50.6 | 1.841 | 2.685 | 13.2 | 21.7 |

**512848** 2016 $UY_{146}$ 10 24.6 77°.29 5°.2/28.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.41 | +27 26.0 | 1.690 | 2.471 | 17.8 | 20.7 |
| 9 28 | 2 19.68 | +27 37.2 | 1.622 | 2.484 | 14.6 | 20.5 |
| 10 8 | 2 12.33 | +27 26.1 | 1.573 | 2.497 | 11.0 | 20.4 |
| 10 18 | 2 3.14 | +26 51.6 | 1.547 | 2.510 | 7.3 | 20.2 |
| 10 28 | 1 53.31 | +25 55.9 | 1.547 | 2.524 | 5.2 | 20.1 |
| 11 7 | 1 44.15 | +24 45.4 | 1.574 | 2.537 | 6.7 | 20.2 |
| 11 17 | 1 36.76 | +23 28.8 | 1.627 | 2.550 | 10.0 | 20.4 |
| 11 27 | 1 31.94 | +22 15.4 | 1.705 | 2.563 | 13.4 | 20.7 |

**352993** 2009 $BR_{108}$ 10 24.6 268°.20 1°.0/23.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.00 | +11 7.0 | 1.885 | 2.719 | 14.2 | 21.5 |
| 9 28 | 2 17.53 | +10 43.4 | 1.800 | 2.710 | 10.9 | 21.2 |
| 10 8 | 2 10.85 | +10 10.5 | 1.738 | 2.702 | 7.0 | 21.0 |
| 10 18 | 2 2.56 | + 9 31.3 | 1.702 | 2.693 | 2.8 | 20.7 |
| 10 28 | 1 53.59 | + 8 50.4 | 1.694 | 2.684 | 2.2 | 20.6 |
| 11 7 | 1 44.97 | + 8 13.3 | 1.714 | 2.675 | 6.4 | 20.9 |
| 11 17 | 1 37.70 | + 7 45.1 | 1.761 | 2.667 | 10.5 | 21.1 |
| 11 27 | 1 32.51 | + 7 29.7 | 1.831 | 2.658 | 14.0 | 21.3 |

**287658** 2003 $MJ_{8}$ 10 24.6 48°.00 7°.5/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.93 | − 6 8.4 | 1.839 | 2.694 | 13.6 | 19.9 |
| 9 28 | 2 14.83 | − 7 39.0 | 1.802 | 2.713 | 10.8 | 19.7 |
| 10 8 | 2 8.84 | − 9 3.9 | 1.788 | 2.732 | 8.5 | 19.6 |
| 10 18 | 2 1.64 | −10 15.1 | 1.800 | 2.752 | 7.5 | 19.6 |
| 10 28 | 1 54.13 | −11 5.8 | 1.838 | 2.772 | 8.5 | 19.7 |
| 11 7 | 1 47.24 | −11 32.0 | 1.901 | 2.793 | 10.8 | 19.9 |
| 11 17 | 1 41.71 | −11 33.1 | 1.987 | 2.813 | 13.2 | 20.1 |
| 11 27 | 1 38.09 | −11 10.6 | 2.094 | 2.834 | 15.4 | 20.3 |

**81441** 2000 $GA_{114}$ 10 24.6 92°.09 1°.1/25.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.78 | +17 48.4 | 1.978 | 2.791 | 14.4 | 19.8 |
| 9 28 | 2 17.09 | +17 22.8 | 1.910 | 2.804 | 11.2 | 19.6 |
| 10 8 | 2 10.38 | +16 43.4 | 1.864 | 2.818 | 7.4 | 19.4 |
| 10 18 | 2 2.31 | +15 52.4 | 1.844 | 2.831 | 3.4 | 19.2 |
| 10 28 | 1 53.78 | +14 54.2 | 1.852 | 2.844 | 1.5 | 19.1 |
| 11 7 | 1 45.78 | +13 54.8 | 1.890 | 2.857 | 5.3 | 19.4 |
| 11 17 | 1 39.17 | +13 0.2 | 1.955 | 2.870 | 9.1 | 19.7 |
| 11 27 | 1 34.56 | +12 15.6 | 2.045 | 2.883 | 12.3 | 19.9 |

**426331** 2012 $UA_{172}$ 10 24.6 48°.08 2°.1/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.77 | +16 46.3 | 1.439 | 2.267 | 18.1 | 19.4 |
| 9 28 | 2 21.61 | +17 10.9 | 1.382 | 2.283 | 14.1 | 19.2 |
| 10 8 | 2 13.63 | +17 21.2 | 1.345 | 2.300 | 9.5 | 19.0 |
| 10 18 | 2 3.68 | +17 17.7 | 1.331 | 2.317 | 4.7 | 18.7 |
| 10 28 | 1 53.09 | +17 2.9 | 1.344 | 2.335 | 2.4 | 18.7 |
| 11 7 | 1 43.28 | +16 42.3 | 1.384 | 2.353 | 6.6 | 19.0 |
| 11 17 | 1 35.45 | +16 22.0 | 1.449 | 2.371 | 11.0 | 19.3 |
| 11 27 | 1 30.40 | +16 7.9 | 1.537 | 2.390 | 14.9 | 19.6 |

**138981** 2001 $CE_{47}$ 10 24.6 321°.64 2°.0/21.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 12.31 | + 3 42.7 | 4.053 | 4.886 | 7.2 | 19.8 |
| 9 28 | 2 9.01 | + 3 7.8 | 3.972 | 4.882 | 5.5 | 19.7 |
| 10 8 | 2 4.81 | + 2 31.3 | 3.918 | 4.879 | 3.6 | 19.5 |
| 10 18 | 2 0.01 | + 1 55.5 | 3.892 | 4.876 | 2.1 | 19.4 |
| 10 28 | 1 54.98 | + 1 23.0 | 3.897 | 4.872 | 2.5 | 19.5 |
| 11 7 | 1 50.12 | + 0 56.1 | 3.931 | 4.869 | 4.2 | 19.6 |
| 11 17 | 1 45.78 | + 0 36.6 | 3.994 | 4.866 | 6.1 | 19.7 |
| 11 27 | 1 42.31 | + 0 25.7 | 4.083 | 4.862 | 7.8 | 19.8 |

**23308** Niyomsatian 10 24.6 8°.05 1°.8/25.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.05 | +17 28.0 | 1.564 | 2.391 | 17.0 | 18.9 |
| 9 28 | 2 18.78 | +17 33.3 | 1.490 | 2.391 | 13.3 | 18.6 |
| 10 8 | 2 11.88 | +17 23.8 | 1.436 | 2.392 | 9.0 | 18.4 |
| 10 18 | 2 3.04 | +17 0.1 | 1.406 | 2.393 | 4.4 | 18.1 |
| 10 28 | 1 53.41 | +16 25.8 | 1.403 | 2.394 | 2.2 | 18.0 |
| 11 7 | 1 44.31 | +15 46.7 | 1.426 | 2.396 | 6.4 | 18.3 |
| 11 17 | 1 36.91 | +15 9.4 | 1.476 | 2.398 | 10.9 | 18.5 |
| 11 27 | 1 32.06 | +14 40.5 | 1.548 | 2.400 | 14.8 | 18.8 |

**64474** 2001 $VS_{43}$ 10 24.6 81°.80 3°.3/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.20 | + 5 24.3 | 1.583 | 2.430 | 15.8 | 18.7 |
| 9 28 | 2 20.05 | + 4 52.0 | 1.524 | 2.441 | 12.0 | 18.5 |
| 10 8 | 2 12.45 | + 4 15.2 | 1.488 | 2.453 | 7.8 | 18.3 |
| 10 18 | 2 3.18 | + 3 38.8 | 1.476 | 2.464 | 3.9 | 18.1 |
| 10 28 | 1 53.38 | + 3 8.8 | 1.492 | 2.475 | 4.3 | 18.1 |
| 11 7 | 1 44.27 | + 2 50.6 | 1.535 | 2.486 | 8.2 | 18.4 |
| 11 17 | 1 36.86 | + 2 47.4 | 1.603 | 2.497 | 12.1 | 18.6 |
| 11 27 | 1 31.87 | + 3 0.8 | 1.694 | 2.508 | 15.5 | 18.9 |

**422443** 2014 $SL_{304}$ 10 24.6 25°.17 0°.2/24.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.01 | +12 51.4 | 2.123 | 2.946 | 13.3 | 20.6 |
| 9 28 | 2 17.23 | +12 54.1 | 2.046 | 2.948 | 10.2 | 20.4 |
| 10 8 | 2 10.50 | +12 48.7 | 1.992 | 2.951 | 6.6 | 20.1 |
| 10 18 | 2 2.40 | +12 36.9 | 1.965 | 2.955 | 2.7 | 19.9 |
| 10 28 | 1 53.77 | +12 21.3 | 1.966 | 2.958 | 1.3 | 19.8 |
| 11 7 | 1 45.52 | +12 5.8 | 1.997 | 2.962 | 5.3 | 20.1 |
| 11 17 | 1 38.50 | +11 54.0 | 2.055 | 2.966 | 8.9 | 20.3 |
| 11 27 | 1 33.37 | +11 49.4 | 2.138 | 2.970 | 12.1 | 20.5 |

**68421** 2001 $QY_{270}$ 10 24.6 306°.41 5°.0/27.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.92 | +23 22.0 | 1.483 | 2.291 | 18.7 | 19.4 |
| 9 28 | 2 20.73 | +23 58.5 | 1.399 | 2.281 | 15.3 | 19.2 |
| 10 8 | 2 13.48 | +24 16.2 | 1.333 | 2.272 | 11.3 | 18.9 |
| 10 18 | 2 3.83 | +24 12.5 | 1.289 | 2.262 | 7.2 | 18.7 |
| 10 28 | 1 53.00 | +23 47.7 | 1.271 | 2.253 | 5.0 | 18.5 |
| 11 7 | 1 42.57 | +23 6.5 | 1.278 | 2.245 | 7.5 | 18.6 |
| 11 17 | 1 33.99 | +22 16.9 | 1.311 | 2.236 | 11.7 | 18.8 |
| 11 27 | 1 28.34 | +21 28.5 | 1.366 | 2.228 | 15.8 | 19.1 |

**43015** 1999 $UD_{52}$ 10 24.6 39°.26 6°.7/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.17 | + 0 27.7 | 1.175 | 2.048 | 18.5 | 18.5 |
| 9 28 | 2 19.10 | − 0 38.3 | 1.131 | 2.059 | 14.2 | 18.2 |
| 10 8 | 2 12.09 | − 1 44.8 | 1.106 | 2.071 | 9.8 | 18.0 |
| 10 18 | 2 3.09 | − 2 42.2 | 1.103 | 2.083 | 6.9 | 17.9 |
| 10 28 | 1 53.51 | − 3 21.1 | 1.125 | 2.096 | 7.9 | 18.0 |
| 11 7 | 1 44.84 | − 3 35.2 | 1.170 | 2.109 | 11.6 | 18.3 |
| 11 17 | 1 38.28 | − 3 22.6 | 1.238 | 2.123 | 15.6 | 18.6 |
| 11 27 | 1 34.58 | − 2 45.0 | 1.324 | 2.137 | 19.2 | 18.8 |

**158235** 2001 $SV_{293}$ 10 24.6 294°.93 0°.2/24.7 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.88 | +13 58.8 | 1.524 | 2.363 | 16.8 | 20.8 |
| 9 28 | 2 18.89 | +13 47.9 | 1.437 | 2.347 | 13.1 | 20.5 |
| 10 8 | 2 12.14 | +13 23.8 | 1.369 | 2.332 | 8.6 | 20.2 |
| 10 18 | 2 3.24 | +12 48.3 | 1.326 | 2.316 | 3.6 | 19.9 |
| 10 28 | 1 53.33 | +12 6.0 | 1.309 | 2.301 | 1.8 | 19.7 |
| 11 7 | 1 43.77 | +11 23.5 | 1.318 | 2.286 | 7.1 | 20.0 |
| 11 17 | 1 35.83 | +10 47.9 | 1.353 | 2.271 | 12.1 | 20.3 |
| 11 27 | 1 30.51 | +10 25.2 | 1.410 | 2.256 | 16.4 | 20.5 |

**46959** 1998 $SW_{129}$ 10 24.6 292°.26 1°.8/25.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 26.35 | +15 42.5 | 1.811 | 2.627 | 15.4 | 18.1 |
| 9 28 | 2 21.23 | +16 11.7 | 1.716 | 2.612 | 12.2 | 17.9 |
| 10 8 | 2 13.52 | +16 31.3 | 1.643 | 2.596 | 8.3 | 17.6 |
| 10 18 | 2 3.78 | +16 40.7 | 1.595 | 2.581 | 4.0 | 17.3 |
| 10 28 | 1 53.04 | +16 41.2 | 1.575 | 2.566 | 2.1 | 17.2 |
| 11 7 | 1 42.54 | +16 36.0 | 1.583 | 2.551 | 6.1 | 17.4 |
| 11 17 | 1 33.47 | +16 29.5 | 1.619 | 2.536 | 10.5 | 17.6 |
| 11 27 | 1 26.79 | +16 26.8 | 1.678 | 2.521 | 14.3 | 17.8 |

**56451** 2000 $GN_{81}$ 10 24.6 24°.62 0°.1/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.88 | +12 37.7 | 1.149 | 2.009 | 19.7 | 17.6 |
| 9 28 | 2 19.17 | +12 39.3 | 1.096 | 2.019 | 15.1 | 17.4 |
| 10 8 | 2 12.32 | +12 27.8 | 1.062 | 2.029 | 9.8 | 17.1 |
| 10 18 | 2 3.24 | +12 6.1 | 1.049 | 2.041 | 3.9 | 16.8 |
| 10 28 | 1 53.41 | +11 39.6 | 1.061 | 2.053 | 2.1 | 16.7 |
| 11 7 | 1 44.45 | +11 15.3 | 1.097 | 2.067 | 7.8 | 17.1 |
| 11 17 | 1 37.67 | +10 59.7 | 1.157 | 2.082 | 13.0 | 17.5 |
| 11 27 | 1 33.94 | +10 57.6 | 1.237 | 2.097 | 17.3 | 17.8 |

**457959** 2009 $VK_{67}$ 10 24.6 218°.97 2°.7/27.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.09 | +23 34.8 | 2.626 | 3.404 | 12.2 | 21.3 |
| 9 28 | 2 14.80 | +23 22.0 | 2.533 | 3.401 | 9.8 | 21.1 |
| 10 8 | 2 8.86 | +22 55.2 | 2.463 | 3.397 | 7.1 | 20.9 |
| 10 18 | 2 1.74 | +22 14.9 | 2.419 | 3.393 | 4.2 | 20.8 |
| 10 28 | 1 54.16 | +21 23.4 | 2.404 | 3.389 | 2.7 | 20.6 |
| 11 7 | 1 46.87 | +20 24.8 | 2.419 | 3.385 | 4.4 | 20.8 |
| 11 17 | 1 40.58 | +19 24.1 | 2.463 | 3.381 | 7.3 | 20.9 |
| 11 27 | 1 35.88 | +18 26.6 | 2.533 | 3.376 | 10.1 | 21.1 |

**91048** 1998 $FO_{31}$ 10 24.6 299°.36 1°.9/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.97 | +10 4.7 | 1.596 | 2.444 | 15.7 | 19.2 |
| 9 28 | 2 17.14 | + 9 24.3 | 1.515 | 2.433 | 12.0 | 19.0 |
| 10 8 | 2 10.82 | + 8 32.8 | 1.456 | 2.422 | 7.7 | 18.7 |
| 10 18 | 2 2.66 | + 7 34.8 | 1.421 | 2.412 | 3.2 | 18.4 |
| 10 28 | 1 53.68 | + 6 36.8 | 1.413 | 2.401 | 3.1 | 18.4 |
| 11 7 | 1 45.13 | + 5 46.3 | 1.431 | 2.391 | 7.7 | 18.6 |
| 11 17 | 1 38.10 | + 5 9.5 | 1.475 | 2.381 | 12.2 | 18.9 |
| 11 27 | 1 33.44 | + 4 50.8 | 1.541 | 2.371 | 16.1 | 19.1 |

**522084** 2015 $XN_{421}$ 10 24.6 321°.33 1°.1/25.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.30 | +17 26.6 | 2.011 | 2.831 | 14.0 | 21.5 |
| 9 28 | 2 14.68 | +17 8.2 | 1.921 | 2.819 | 10.9 | 21.3 |
| 10 8 | 2 9.03 | +16 36.2 | 1.852 | 2.808 | 7.4 | 21.0 |
| 10 18 | 2 1.89 | +15 52.3 | 1.810 | 2.797 | 3.4 | 20.8 |
| 10 28 | 1 54.09 | +15 0.1 | 1.794 | 2.786 | 1.5 | 20.6 |
| 11 7 | 1 46.60 | +14 5.2 | 1.808 | 2.776 | 5.4 | 20.8 |
| 11 17 | 1 40.33 | +13 13.5 | 1.848 | 2.766 | 9.3 | 21.1 |
| 11 27 | 1 35.98 | +12 30.8 | 1.913 | 2.757 | 12.8 | 21.3 |

**135020** 2001 $KA_{50}$ 10 24.6 56°.38 5°.0/29.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.29 | +29 19.5 | 1.668 | 2.445 | 18.2 | 18.9 |
| 9 28 | 2 17.94 | +29 1.0 | 1.609 | 2.468 | 14.9 | 18.7 |
| 10 8 | 2 11.12 | +28 17.0 | 1.569 | 2.491 | 11.1 | 18.6 |
| 10 18 | 2 2.66 | +27 8.0 | 1.552 | 2.515 | 7.4 | 18.4 |
| 10 28 | 1 53.76 | +25 38.4 | 1.561 | 2.539 | 5.1 | 18.3 |
| 11 7 | 1 45.65 | +23 56.5 | 1.597 | 2.562 | 6.4 | 18.5 |
| 11 17 | 1 39.33 | +22 12.4 | 1.661 | 2.586 | 9.7 | 18.7 |
| 11 27 | 1 35.45 | +20 36.1 | 1.750 | 2.610 | 13.0 | 19.0 |

**376598** 2013 $PG_{29}$ 10 24.6 30°.91 2°.6/22.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.32 | +10 40.0 | 1.051 | 1.925 | 20.1 | 20.7 |
| 9 28 | 2 17.32 | + 9 41.8 | 1.004 | 1.935 | 15.2 | 20.5 |
| 10 8 | 2 11.14 | + 8 28.9 | 0.974 | 1.946 | 9.7 | 20.2 |
| 10 18 | 2 2.76 | + 7 9.2 | 0.967 | 1.958 | 4.1 | 20.0 |
| 10 28 | 1 53.70 | + 5 53.5 | 0.983 | 1.971 | 4.1 | 20.0 |
| 11 7 | 1 45.59 | + 4 52.6 | 1.022 | 1.985 | 9.5 | 20.4 |
| 11 17 | 1 39.71 | + 4 13.7 | 1.084 | 1.999 | 14.6 | 20.7 |
| 11 27 | 1 36.86 | + 4 0.1 | 1.165 | 2.015 | 18.9 | 21.0 |

**72470** 2001 $DT_{28}$ 10 24.6 161°.34 3°.4/27.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.44 | +22 52.8 | 2.311 | 3.092 | 13.6 | 19.5 |
| 9 28 | 2 18.37 | +23 17.4 | 2.225 | 3.092 | 11.0 | 19.3 |
| 10 8 | 2 11.31 | +23 28.7 | 2.160 | 3.092 | 8.0 | 19.1 |
| 10 18 | 2 2.78 | +23 26.1 | 2.122 | 3.093 | 5.0 | 18.9 |
| 10 28 | 1 53.63 | +23 10.5 | 2.111 | 3.093 | 3.4 | 18.8 |
| 11 7 | 1 44.80 | +22 45.0 | 2.130 | 3.093 | 5.2 | 18.9 |
| 11 17 | 1 37.17 | +22 14.1 | 2.177 | 3.093 | 8.2 | 19.1 |
| 11 27 | 1 31.43 | +21 43.3 | 2.250 | 3.094 | 11.1 | 19.3 |

**65431** 2002 $TC_{198}$ 10 24.6 91°.84 0°.9/25.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.91 | +18 56.5 | 1.943 | 2.755 | 14.7 | 19.1 |
| 9 28 | 2 16.47 | +18 6.2 | 1.875 | 2.769 | 11.4 | 18.9 |
| 10 8 | 2 10.00 | +16 59.7 | 1.830 | 2.784 | 7.6 | 18.7 |
| 10 18 | 2 2.20 | +15 40.4 | 1.811 | 2.798 | 3.4 | 18.5 |
| 10 28 | 1 53.98 | +14 14.1 | 1.821 | 2.813 | 1.4 | 18.3 |
| 11 7 | 1 46.33 | +12 48.1 | 1.859 | 2.827 | 5.4 | 18.6 |
| 11 17 | 1 40.07 | +11 29.5 | 1.926 | 2.840 | 9.2 | 18.9 |
| 11 27 | 1 35.83 | +10 24.3 | 2.018 | 2.854 | 12.5 | 19.1 |

**432610** 2010 $UV_{11}$ 10 24.6 342°.72 0°.4/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 16.70 | +15 4.3 | 1.061 | 1.930 | 20.3 | 20.2 |
| 9 28 | 2 14.94 | +14 23.9 | 0.992 | 1.920 | 15.7 | 19.9 |
| 10 8 | 2 9.92 | +13 21.4 | 0.941 | 1.911 | 10.3 | 19.5 |
| 10 18 | 2 2.41 | +12 1.3 | 0.911 | 1.903 | 4.1 | 19.2 |
| 10 28 | 1 53.82 | +10 33.1 | 0.904 | 1.896 | 2.5 | 19.0 |
| 11 7 | 1 45.85 | + 9 9.5 | 0.920 | 1.891 | 8.8 | 19.4 |
| 11 17 | 1 39.99 | + 8 1.9 | 0.959 | 1.886 | 14.6 | 19.7 |
| 11 27 | 1 37.28 | + 7 18.5 | 1.016 | 1.883 | 19.6 | 20.0 |

**47483** 2000 $AJ_{17}$ 10 24.6 117°.62 7°.0/18.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.64 | − 7 7.0 | 2.014 | 2.852 | 13.3 | 18.1 |
| 9 28 | 2 19.08 | − 8 3.4 | 1.963 | 2.864 | 10.6 | 17.9 |
| 10 8 | 2 11.58 | − 8 53.7 | 1.935 | 2.876 | 8.2 | 17.8 |
| 10 18 | 2 2.82 | − 9 31.9 | 1.934 | 2.887 | 7.0 | 17.8 |
| 10 28 | 1 53.69 | − 9 52.3 | 1.959 | 2.899 | 7.8 | 17.8 |
| 11 7 | 1 45.14 | − 9 52.0 | 2.012 | 2.909 | 10.0 | 18.0 |
| 11 17 | 1 37.98 | − 9 30.5 | 2.089 | 2.920 | 12.5 | 18.2 |
| 11 27 | 1 32.78 | − 8 49.3 | 2.188 | 2.930 | 14.8 | 18.4 |

**20333** Johannhuth 10 24.6 263°.35 1°.8/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.03 | + 9 43.3 | 1.534 | 2.377 | 16.5 | 18.2 |
| 9 28 | 2 20.43 | + 9 18.6 | 1.450 | 2.365 | 12.7 | 17.9 |
| 10 8 | 2 13.07 | + 8 44.0 | 1.387 | 2.352 | 8.2 | 17.6 |
| 10 18 | 2 3.62 | + 8 3.1 | 1.349 | 2.340 | 3.4 | 17.3 |
| 10 28 | 1 53.20 | + 7 21.7 | 1.338 | 2.327 | 3.0 | 17.3 |
| 11 7 | 1 43.20 | + 6 46.8 | 1.353 | 2.314 | 7.9 | 17.5 |
| 11 17 | 1 34.85 | + 6 24.1 | 1.394 | 2.301 | 12.7 | 17.8 |
| 11 27 | 1 29.12 | + 6 17.9 | 1.457 | 2.287 | 16.8 | 18.0 |

**206099** 2002 $RT_{177}$ 10 24.6 74°.60 1°.6/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.72 | +18 43.9 | 1.782 | 2.595 | 15.8 | 20.1 |
| 9 28 | 2 18.74 | +18 27.5 | 1.722 | 2.616 | 12.3 | 19.9 |
| 10 8 | 2 11.52 | +17 55.9 | 1.685 | 2.637 | 8.3 | 19.7 |
| 10 18 | 2 2.82 | +17 11.0 | 1.672 | 2.657 | 4.0 | 19.5 |
| 10 28 | 1 53.69 | +16 17.2 | 1.687 | 2.678 | 1.9 | 19.4 |
| 11 7 | 1 45.22 | +15 21.0 | 1.731 | 2.699 | 5.6 | 19.7 |
| 11 17 | 1 38.33 | +14 28.6 | 1.801 | 2.719 | 9.5 | 20.0 |
| 11 27 | 1 33.69 | +13 45.9 | 1.896 | 2.740 | 12.9 | 20.2 |

**212399** 2006 $JH_{38}$ 10 24.6 298°.23 2°.1/23.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.21 | + 9 52.8 | 1.291 | 2.146 | 18.2 | 21.0 |
| 9 28 | 2 20.12 | + 9 20.0 | 1.220 | 2.141 | 14.0 | 20.7 |
| 10 8 | 2 12.99 | + 8 35.3 | 1.169 | 2.137 | 9.0 | 20.4 |
| 10 18 | 2 3.59 | + 7 43.6 | 1.141 | 2.132 | 3.8 | 20.1 |
| 10 28 | 1 53.25 | + 6 52.4 | 1.138 | 2.127 | 3.5 | 20.1 |
| 11 7 | 1 43.51 | + 6 10.0 | 1.161 | 2.123 | 8.7 | 20.4 |
| 11 17 | 1 35.73 | + 5 43.3 | 1.208 | 2.118 | 13.8 | 20.6 |
| 11 27 | 1 30.87 | + 5 36.3 | 1.275 | 2.114 | 18.2 | 20.9 |

**435216** 2007 $RK_{245}$ 10 24.6 45°.92 5°.7/19.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.61 | + 4 0.7 | 1.368 | 2.235 | 16.7 | 20.2 |
| 9 28 | 2 15.89 | + 2 9.4 | 1.331 | 2.258 | 12.5 | 20.0 |
| 10 8 | 2 9.76 | + 0 13.9 | 1.316 | 2.282 | 8.4 | 19.9 |
| 10 18 | 2 2.10 | − 1 35.2 | 1.326 | 2.306 | 5.8 | 19.8 |
| 10 28 | 1 54.09 | − 3 7.1 | 1.362 | 2.331 | 7.0 | 19.9 |
| 11 7 | 1 46.93 | − 4 13.9 | 1.423 | 2.356 | 10.5 | 20.2 |
| 11 17 | 1 41.52 | − 4 52.1 | 1.508 | 2.381 | 14.0 | 20.5 |
| 11 27 | 1 38.47 | − 5 2.0 | 1.613 | 2.407 | 17.1 | 20.7 |

**86767** 2000 $GX_{84}$ 10 24.6 278°.84 7°.6/19.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.54 | − 5 3.4 | 1.562 | 2.412 | 15.9 | 19.4 |
| 9 28 | 2 21.44 | − 5 51.2 | 1.487 | 2.398 | 12.7 | 19.2 |
| 10 8 | 2 13.63 | − 6 34.9 | 1.433 | 2.384 | 9.5 | 19.0 |
| 10 18 | 2 3.81 | − 7 6.7 | 1.403 | 2.369 | 7.7 | 18.9 |
| 10 28 | 1 53.13 | − 7 18.9 | 1.400 | 2.355 | 8.6 | 18.9 |
| 11 7 | 1 42.91 | − 7 6.8 | 1.422 | 2.341 | 11.7 | 19.0 |
| 11 17 | 1 34.36 | − 6 29.2 | 1.467 | 2.326 | 15.2 | 19.2 |
| 11 27 | 1 28.38 | − 5 27.7 | 1.533 | 2.312 | 18.5 | 19.4 |

**7528** Huskvarna 10 24.6 60°.11 0°.7/24.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.50 | +12 30.3 | 1.933 | 2.765 | 14.0 | 17.5 |
| 9 28 | 2 16.17 | +11 59.1 | 1.867 | 2.775 | 10.7 | 17.3 |
| 10 8 | 2 9.85 | +11 18.0 | 1.823 | 2.786 | 6.8 | 17.1 |
| 10 18 | 2 2.17 | +10 30.3 | 1.806 | 2.796 | 2.7 | 16.9 |
| 10 28 | 1 54.03 | + 9 40.9 | 1.816 | 2.807 | 1.8 | 16.9 |
| 11 7 | 1 46.40 | + 8 55.4 | 1.856 | 2.818 | 5.9 | 17.2 |
| 11 17 | 1 40.11 | + 8 18.8 | 1.922 | 2.829 | 9.6 | 17.4 |
| 11 27 | 1 35.77 | + 7 54.6 | 2.012 | 2.841 | 12.9 | 17.6 |

**180240** 2003 $UB_{244}$ 10 24.6 353°.69 0°.8/25.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.09 | +14 27.5 | 1.142 | 2.000 | 19.9 | 19.9 |
| 9 28 | 2 18.90 | +14 31.5 | 1.075 | 1.995 | 15.5 | 19.6 |
| 10 8 | 2 12.42 | +14 19.9 | 1.026 | 1.992 | 10.3 | 19.3 |
| 10 18 | 2 3.42 | +13 54.5 | 0.999 | 1.989 | 4.4 | 19.0 |
| 10 28 | 1 53.36 | +13 20.4 | 0.996 | 1.988 | 2.0 | 18.8 |
| 11 7 | 1 43.95 | +12 45.3 | 1.016 | 1.987 | 8.0 | 19.2 |
| 11 17 | 1 36.70 | +12 17.1 | 1.060 | 1.987 | 13.5 | 19.5 |
| 11 27 | 1 32.65 | +12 2.7 | 1.123 | 1.989 | 18.2 | 19.8 |

**518325** 2017 $BN_{100}$ 10 24.6 162.°57 0.°8/23.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.69 | +11 23.8 | 2.575 | 3.396 | 11.2 | 22.3 |
| 9 28 | 2 15.12 | +10 53.9 | 2.496 | 3.399 | 8.5 | 22.1 |
| 10 8 | 2 9.01 | +10 16.8 | 2.441 | 3.402 | 5.5 | 21.9 |
| 10 18 | 2 1.82 | + 9 35.1 | 2.414 | 3.405 | 2.2 | 21.7 |
| 10 28 | 1 54.24 | + 8 52.5 | 2.417 | 3.407 | 1.7 | 21.7 |
| 11 7 | 1 46.99 | + 8 13.0 | 2.450 | 3.409 | 4.9 | 21.9 |
| 11 17 | 1 40.71 | + 7 40.3 | 2.511 | 3.411 | 8.0 | 22.1 |
| 11 27 | 1 35.95 | + 7 17.5 | 2.598 | 3.413 | 10.7 | 22.3 |

**187531** Omorichugakkou 10 24.6 338.°29 1.°8/25.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.50 | +15 39.7 | 1.261 | 2.105 | 19.3 | 20.3 |
| 9 28 | 2 20.64 | +16 2.1 | 1.187 | 2.098 | 15.1 | 20.0 |
| 10 8 | 2 13.53 | +16 10.3 | 1.131 | 2.092 | 10.2 | 19.7 |
| 10 18 | 2 3.91 | +16 4.4 | 1.098 | 2.086 | 4.8 | 19.4 |
| 10 28 | 1 53.15 | +15 47.2 | 1.089 | 2.081 | 2.3 | 19.2 |
| 11 7 | 1 42.92 | +15 24.5 | 1.106 | 2.076 | 7.5 | 19.5 |
| 11 17 | 1 34.73 | +15 3.5 | 1.146 | 2.073 | 12.8 | 19.8 |
| 11 27 | 1 29.67 | +14 51.1 | 1.207 | 2.070 | 17.4 | 20.1 |

**69871** 1998 $SW_{64}$ 10 24.6 41.°66 3.°2/21.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.07 | + 6 9.3 | 1.926 | 2.775 | 13.4 | 19.1 |
| 9 28 | 2 14.27 | + 5 5.6 | 1.867 | 2.786 | 10.1 | 18.9 |
| 10 8 | 2 8.60 | + 3 56.3 | 1.832 | 2.798 | 6.5 | 18.7 |
| 10 18 | 2 1.68 | + 2 47.0 | 1.823 | 2.809 | 3.6 | 18.6 |
| 10 28 | 1 54.36 | + 1 44.3 | 1.842 | 2.821 | 4.2 | 18.7 |
| 11 7 | 1 47.54 | + 0 53.9 | 1.889 | 2.834 | 7.4 | 18.9 |
| 11 17 | 1 41.99 | + 0 19.9 | 1.961 | 2.846 | 10.7 | 19.1 |
| 11 27 | 1 38.28 | + 0 4.3 | 2.057 | 2.859 | 13.6 | 19.3 |

**466277** 2013 $PH$ 10 24.6 48.°80 7.°7/30.6 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.55 | +31 29.6 | 1.099 | 1.898 | 24.4 | 20.2 |
| 9 28 | 2 22.24 | +31 43.1 | 1.059 | 1.927 | 20.2 | 20.1 |
| 10 8 | 2 14.33 | +31 21.1 | 1.034 | 1.957 | 15.5 | 19.9 |
| 10 18 | 2 4.05 | +30 21.7 | 1.029 | 1.988 | 10.9 | 19.7 |
| 10 28 | 1 53.23 | +28 49.7 | 1.045 | 2.019 | 7.9 | 19.7 |
| 11 7 | 1 43.77 | +26 57.6 | 1.086 | 2.050 | 8.8 | 19.8 |
| 11 17 | 1 37.02 | +25 0.5 | 1.151 | 2.081 | 12.4 | 20.1 |
| 11 27 | 1 33.73 | +23 12.8 | 1.237 | 2.113 | 16.1 | 20.5 |

**93791** 2000 $WU_{38}$ 10 24.6 284.°36 0.°6/24.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.35 | +13 54.1 | 2.120 | 2.948 | 13.1 | 19.4 |
| 9 28 | 2 14.53 | +13 4.7 | 2.036 | 2.942 | 10.0 | 19.2 |
| 10 8 | 2 8.83 | +12 3.4 | 1.974 | 2.936 | 6.5 | 19.0 |
| 10 18 | 2 1.82 | +10 53.5 | 1.939 | 2.930 | 2.5 | 18.7 |
| 10 28 | 1 54.28 | + 9 40.4 | 1.933 | 2.924 | 1.7 | 18.7 |
| 11 7 | 1 47.09 | + 8 30.5 | 1.957 | 2.919 | 5.7 | 18.9 |
| 11 17 | 1 41.05 | + 7 29.6 | 2.007 | 2.913 | 9.4 | 19.2 |
| 11 27 | 1 36.79 | + 6 42.4 | 2.083 | 2.907 | 12.6 | 19.4 |

**158720** 2003 $JF_{17}$ 10 24.6 26.°86 10.°4/21.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.03 | − 9 51.7 | 1.002 | 1.873 | 21.1 | 17.8 |
| 9 28 | 2 23.63 | −10 8.0 | 0.976 | 1.894 | 16.9 | 17.6 |
| 10 8 | 2 14.93 | −10 7.6 | 0.968 | 1.918 | 13.0 | 17.5 |
| 10 18 | 2 4.20 | − 9 42.7 | 0.980 | 1.943 | 10.5 | 17.5 |
| 10 28 | 1 53.20 | − 8 49.0 | 1.014 | 1.970 | 11.0 | 17.6 |
| 11 7 | 1 43.61 | − 7 27.6 | 1.072 | 1.998 | 13.8 | 17.8 |
| 11 17 | 1 36.62 | − 5 44.0 | 1.150 | 2.027 | 17.2 | 18.1 |
| 11 27 | 1 32.88 | − 3 44.9 | 1.248 | 2.058 | 20.2 | 18.5 |

**33830** 2000 $EC_{93}$ 10 24.6 47.°31 9.°6/13.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.97 | −16 6.6 | 2.207 | 3.039 | 12.5 | 17.3 |
| 9 28 | 2 14.03 | −17 50.7 | 2.167 | 3.045 | 10.8 | 17.2 |
| 10 8 | 2 8.37 | −19 23.2 | 2.152 | 3.052 | 9.7 | 17.1 |
| 10 18 | 2 1.58 | −20 36.7 | 2.162 | 3.058 | 9.7 | 17.1 |
| 10 28 | 1 54.44 | −21 25.2 | 2.196 | 3.065 | 10.6 | 17.2 |
| 11 7 | 1 47.74 | −21 45.6 | 2.254 | 3.072 | 12.2 | 17.3 |
| 11 17 | 1 42.20 | −21 38.3 | 2.333 | 3.079 | 13.9 | 17.5 |
| 11 27 | 1 38.35 | −21 5.7 | 2.430 | 3.086 | 15.5 | 17.6 |

**115491** 2003 $UT_{21}$ 10 24.6 355.°95 7.°8/30.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.64 | +30 56.4 | 1.778 | 2.541 | 17.7 | 19.0 |
| 9 28 | 2 18.72 | +32 4.4 | 1.696 | 2.537 | 15.1 | 18.8 |
| 10 8 | 2 12.06 | +32 52.7 | 1.632 | 2.533 | 12.2 | 18.6 |
| 10 18 | 2 3.29 | +33 17.0 | 1.591 | 2.530 | 9.5 | 18.5 |
| 10 28 | 1 53.50 | +33 15.2 | 1.574 | 2.529 | 7.9 | 18.4 |
| 11 7 | 1 44.05 | +32 49.8 | 1.582 | 2.528 | 8.5 | 18.4 |
| 11 17 | 1 36.22 | +32 6.9 | 1.616 | 2.528 | 10.8 | 18.5 |
| 11 27 | 1 30.99 | +31 15.3 | 1.672 | 2.529 | 13.7 | 18.7 |

**212450** 2006 $QO$ 10 24.6 79.°61 0.°4/24.9 16 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 31.12 | +13 41.1 | 1.380 | 2.211 | 18.6 | 20.2 |
| 9 28 | 2 24.84 | +13 45.0 | 1.330 | 2.236 | 14.3 | 20.0 |
| 10 8 | 2 15.67 | +13 36.5 | 1.301 | 2.261 | 9.3 | 19.8 |
| 10 18 | 2 4.57 | +13 17.5 | 1.295 | 2.285 | 3.8 | 19.5 |
| 10 28 | 1 52.96 | +12 52.4 | 1.317 | 2.309 | 1.8 | 19.4 |
| 11 7 | 1 42.34 | +12 27.3 | 1.366 | 2.333 | 7.0 | 19.8 |
| 11 17 | 1 33.89 | +12 8.0 | 1.441 | 2.357 | 11.6 | 20.2 |
| 11 27 | 1 28.37 | +11 59.4 | 1.538 | 2.380 | 15.5 | 20.5 |

**492895** 2014 $QA_{416}$ 10 24.6 21.°64 1.°0/23.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 17.56 | +12 18.9 | 2.201 | 3.032 | 12.6 | 21.4 |
| 9 28 | 2 13.79 | +11 27.6 | 2.125 | 3.034 | 9.5 | 21.2 |
| 10 8 | 2 8.28 | +10 26.3 | 2.072 | 3.035 | 6.1 | 21.0 |
| 10 18 | 2 1.58 | + 9 18.8 | 2.046 | 3.037 | 2.4 | 20.7 |
| 10 28 | 1 54.43 | + 8 10.3 | 2.049 | 3.039 | 2.0 | 20.7 |
| 11 7 | 1 47.67 | + 7 6.7 | 2.081 | 3.041 | 5.7 | 21.0 |
| 11 17 | 1 42.00 | + 6 13.1 | 2.141 | 3.043 | 9.1 | 21.2 |
| 11 27 | 1 38.02 | + 5 33.2 | 2.226 | 3.045 | 12.1 | 21.4 |

**156596** 2002 $GQ_{70}$ 10 24.6 83.°17 4.°0/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.69 | + 1 34.1 | 2.299 | 3.141 | 11.7 | 19.9 |
| 9 28 | 2 15.11 | + 0 30.6 | 2.248 | 3.161 | 8.9 | 19.8 |
| 10 8 | 2 8.96 | − 0 33.9 | 2.223 | 3.182 | 6.0 | 19.6 |
| 10 18 | 2 1.80 | − 1 34.2 | 2.224 | 3.202 | 4.1 | 19.5 |
| 10 28 | 1 54.36 | − 2 24.9 | 2.255 | 3.222 | 4.9 | 19.6 |
| 11 7 | 1 47.40 | − 3 2.0 | 2.314 | 3.242 | 7.3 | 19.8 |
| 11 17 | 1 41.56 | − 3 23.1 | 2.400 | 3.261 | 10.0 | 20.0 |
| 11 27 | 1 37.33 | − 3 27.3 | 2.509 | 3.281 | 12.3 | 20.2 |

**22027** 1999 $XS_{120}$ 10 24.6 127.°88 3.°6/27.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.74 | +23 17.4 | 1.635 | 2.434 | 17.6 | 18.1 |
| 9 28 | 2 20.80 | +23 15.8 | 1.562 | 2.442 | 14.1 | 17.9 |
| 10 8 | 2 13.18 | +22 53.9 | 1.509 | 2.450 | 10.1 | 17.7 |
| 10 18 | 2 3.65 | +22 11.6 | 1.480 | 2.457 | 5.9 | 17.5 |
| 10 28 | 1 53.40 | +21 12.3 | 1.477 | 2.464 | 3.6 | 17.3 |
| 11 7 | 1 43.78 | +20 2.8 | 1.502 | 2.470 | 6.3 | 17.5 |
| 11 17 | 1 35.94 | +18 51.9 | 1.554 | 2.476 | 10.4 | 17.8 |
| 11 27 | 1 30.70 | +17 47.9 | 1.629 | 2.482 | 14.2 | 18.0 |

**178801** 2001 $ES_{23}$ 10 24.6 124.°62 0.°9/25.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.65 | +16 52.5 | 1.767 | 2.581 | 15.9 | 21.0 |
| 9 28 | 2 21.07 | +16 29.9 | 1.700 | 2.596 | 12.3 | 20.8 |
| 10 8 | 2 13.12 | +15 53.0 | 1.656 | 2.611 | 8.1 | 20.5 |
| 10 18 | 2 3.56 | +15 4.0 | 1.637 | 2.625 | 3.6 | 20.3 |
| 10 28 | 1 53.49 | +14 7.6 | 1.646 | 2.638 | 1.5 | 20.2 |
| 11 7 | 1 44.06 | +13 10.4 | 1.684 | 2.651 | 5.9 | 20.5 |
| 11 17 | 1 36.27 | +12 19.1 | 1.750 | 2.663 | 10.1 | 20.8 |
| 11 27 | 1 30.83 | +11 39.0 | 1.840 | 2.675 | 13.6 | 21.0 |

**414585** 2009 $UU_{18}$ 10 24.6 349.°54 4.°3/19.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 12.62 | +11 42.3 | 1.506 | 2.368 | 15.7 | 19.0 |
| 9 28 | 2 10.82 | + 8 53.5 | 1.428 | 2.356 | 11.8 | 18.8 |
| 10 8 | 2 6.75 | + 5 41.8 | 1.375 | 2.346 | 7.5 | 18.5 |
| 10 18 | 2 1.07 | + 2 19.3 | 1.350 | 2.337 | 4.4 | 18.3 |
| 10 28 | 1 54.74 | − 0 57.5 | 1.354 | 2.330 | 6.2 | 18.4 |
| 11 7 | 1 48.88 | − 3 52.3 | 1.387 | 2.323 | 10.4 | 18.6 |
| 11 17 | 1 44.45 | − 6 13.4 | 1.446 | 2.318 | 14.6 | 18.8 |
| 11 27 | 1 42.18 | − 7 55.6 | 1.525 | 2.315 | 18.1 | 19.1 |

**189265** 2005 $GN_{179}$ 10 24.6 266.°94 8.°2/31.4 17 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.41 | +35 4.3 | 1.272 | 2.043 | 23.0 | 19.5 |
| 9 28 | 2 20.34 | +34 50.9 | 1.183 | 2.031 | 19.8 | 19.2 |
| 10 8 | 2 13.62 | +33 57.7 | 1.109 | 2.019 | 15.9 | 18.9 |
| 10 18 | 2 4.05 | +32 18.7 | 1.055 | 2.007 | 11.6 | 18.6 |
| 10 28 | 1 53.19 | +29 54.6 | 1.024 | 1.994 | 8.5 | 18.4 |
| 11 7 | 1 43.00 | +26 56.7 | 1.017 | 1.982 | 9.2 | 18.4 |
| 11 17 | 1 35.19 | +23 44.0 | 1.036 | 1.969 | 13.2 | 18.6 |
| 11 27 | 1 30.90 | +20 38.4 | 1.078 | 1.956 | 17.9 | 18.9 |

**161377** 2003 $SX_{292}$ 10 24.6 11.°78 10.°1/31.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.81 | +32 30.5 | 1.332 | 2.111 | 21.8 | 18.9 |
| 9 28 | 2 20.42 | +33 56.9 | 1.266 | 2.114 | 18.8 | 18.7 |
| 10 8 | 2 13.56 | +34 57.2 | 1.217 | 2.119 | 15.4 | 18.5 |
| 10 18 | 2 3.99 | +35 24.6 | 1.187 | 2.125 | 12.2 | 18.3 |
| 10 28 | 1 53.22 | +35 16.1 | 1.180 | 2.132 | 10.3 | 18.3 |
| 11 7 | 1 43.07 | +34 35.4 | 1.195 | 2.140 | 10.7 | 18.3 |
| 11 17 | 1 35.19 | +33 31.8 | 1.232 | 2.149 | 13.0 | 18.5 |
| 11 27 | 1 30.70 | +32 18.3 | 1.292 | 2.160 | 16.1 | 18.7 |

**516623** 2008 $AO_{120}$ 10 24.6 233.°74 5.°1/19.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.04 | − 0 53.5 | 2.140 | 2.984 | 12.4 | 22.0 |
| 9 28 | 2 16.49 | − 1 52.6 | 2.065 | 2.977 | 9.6 | 21.8 |
| 10 8 | 2 10.08 | − 2 52.2 | 2.015 | 2.970 | 6.8 | 21.6 |
| 10 18 | 2 2.35 | − 3 46.5 | 1.991 | 2.963 | 5.1 | 21.5 |
| 10 28 | 1 54.10 | − 4 29.8 | 1.995 | 2.956 | 6.0 | 21.5 |
| 11 7 | 1 46.22 | − 4 57.1 | 2.027 | 2.948 | 8.6 | 21.7 |
| 11 17 | 1 39.48 | − 5 6.0 | 2.085 | 2.940 | 11.5 | 21.8 |
| 11 27 | 1 34.54 | − 4 55.6 | 2.165 | 2.933 | 14.1 | 22.0 |

**217401** 2005 $GY_{223}$ 10 24.6 63.°90 3.°5/22.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.02 | + 6 36.5 | 1.299 | 2.156 | 18.1 | 20.6 |
| 9 28 | 2 21.03 | + 5 53.3 | 1.253 | 2.175 | 13.6 | 20.4 |
| 10 8 | 2 13.24 | + 5 3.5 | 1.228 | 2.195 | 8.8 | 20.1 |
| 10 18 | 2 3.62 | + 4 13.6 | 1.226 | 2.215 | 4.3 | 20.0 |
| 10 28 | 1 53.53 | + 3 31.1 | 1.251 | 2.235 | 4.6 | 20.0 |
| 11 7 | 1 44.37 | + 3 2.8 | 1.301 | 2.255 | 8.9 | 20.3 |
| 11 17 | 1 37.26 | + 2 52.5 | 1.375 | 2.276 | 13.3 | 20.6 |
| 11 27 | 1 32.91 | + 3 1.8 | 1.471 | 2.296 | 16.9 | 20.9 |

**397682** 2008 $BB_{28}$ 10 24.6 354.°89 3.°9/21.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.46 | + 4 55.3 | 1.557 | 2.417 | 15.4 | 20.4 |
| 9 28 | 2 15.92 | + 4 7.2 | 1.490 | 2.413 | 11.8 | 20.2 |
| 10 8 | 2 10.00 | + 3 13.6 | 1.444 | 2.411 | 7.7 | 20.0 |
| 10 18 | 2 2.38 | + 2 20.4 | 1.422 | 2.409 | 4.3 | 19.8 |
| 10 28 | 1 54.11 | + 1 34.9 | 1.427 | 2.408 | 5.0 | 19.8 |
| 11 7 | 1 46.34 | + 1 3.6 | 1.458 | 2.407 | 8.8 | 20.0 |
| 11 17 | 1 40.11 | + 0 50.5 | 1.514 | 2.407 | 12.7 | 20.3 |
| 11 27 | 1 36.17 | + 0 57.7 | 1.590 | 2.408 | 16.2 | 20.5 |

**487101** 2014 $OD_{141}$ 10 24.6 14.°95 6.°0/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.42 | − 2 21.8 | 1.835 | 2.690 | 13.7 | 21.1 |
| 9 28 | 2 15.45 | − 3 22.7 | 1.776 | 2.693 | 10.6 | 20.9 |
| 10 8 | 2 9.46 | − 4 22.1 | 1.740 | 2.696 | 7.7 | 20.7 |
| 10 18 | 2 2.11 | − 5 13.2 | 1.729 | 2.699 | 6.1 | 20.6 |
| 10 28 | 1 54.28 | − 5 49.6 | 1.745 | 2.703 | 7.0 | 20.7 |
| 11 7 | 1 46.94 | − 6 6.7 | 1.788 | 2.707 | 9.6 | 20.9 |
| 11 17 | 1 40.93 | − 6 2.6 | 1.854 | 2.712 | 12.6 | 21.1 |
| 11 27 | 1 36.89 | − 5 37.7 | 1.942 | 2.717 | 15.3 | 21.3 |

**213463** 2002 $CF_{232}$ 10 24.6 113.°99 5.°4/20.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.97 | + 2 1.3 | 1.464 | 2.318 | 16.5 | 20.2 |
| 9 28 | 2 20.83 | + 0 56.2 | 1.410 | 2.329 | 12.6 | 20.0 |
| 10 8 | 2 13.10 | − 0 11.5 | 1.377 | 2.339 | 8.6 | 19.8 |
| 10 18 | 2 3.60 | − 1 14.1 | 1.369 | 2.349 | 5.6 | 19.7 |
| 10 28 | 1 53.55 | − 2 3.3 | 1.387 | 2.359 | 6.5 | 19.8 |
| 11 7 | 1 44.25 | − 2 32.7 | 1.432 | 2.368 | 10.1 | 20.0 |
| 11 17 | 1 36.77 | − 2 39.4 | 1.500 | 2.377 | 13.9 | 20.3 |
| 11 27 | 1 31.87 | − 2 23.1 | 1.590 | 2.386 | 17.2 | 20.5 |

**375207** 2008 $EB_{117}$ 10 24.6 303.°36 0.°3/24.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.06 | +13 59.4 | 1.330 | 2.177 | 18.3 | 21.4 |
| 9 28 | 2 19.52 | +13 53.0 | 1.244 | 2.159 | 14.3 | 21.1 |
| 10 8 | 2 12.87 | +13 32.0 | 1.176 | 2.140 | 9.5 | 20.7 |
| 10 18 | 2 3.74 | +12 58.2 | 1.132 | 2.122 | 4.0 | 20.4 |
| 10 28 | 1 53.37 | +12 16.4 | 1.112 | 2.104 | 1.9 | 20.2 |
| 11 7 | 1 43.33 | +11 34.0 | 1.118 | 2.087 | 7.8 | 20.5 |
| 11 17 | 1 35.12 | +10 58.9 | 1.148 | 2.070 | 13.3 | 20.8 |
| 11 27 | 1 29.87 | +10 38.1 | 1.198 | 2.053 | 18.1 | 21.0 |

**272984** 2006 $DG_{26}$ 10 24.6 44.°94 4.°4/28.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.19 | +26 25.5 | 2.254 | 3.022 | 14.3 | 20.2 |
| 9 28 | 2 17.55 | +26 46.5 | 2.170 | 3.025 | 11.7 | 20.0 |
| 10 8 | 2 10.87 | +26 51.6 | 2.107 | 3.028 | 8.8 | 19.8 |
| 10 18 | 2 2.72 | +26 39.6 | 2.069 | 3.030 | 6.0 | 19.7 |
| 10 28 | 1 53.95 | +26 11.4 | 2.058 | 3.033 | 4.4 | 19.6 |
| 11 7 | 1 45.54 | +25 30.8 | 2.076 | 3.036 | 5.6 | 19.6 |
| 11 17 | 1 38.38 | +24 43.0 | 2.121 | 3.039 | 8.3 | 19.8 |
| 11 27 | 1 33.17 | +23 54.3 | 2.192 | 3.042 | 11.2 | 20.0 |

**175073** 2004 $GO_{37}$ 10 24.6 255.°88 4.°3/28.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.26 | +25 17.0 | 2.078 | 2.855 | 15.0 | 20.2 |
| 9 28 | 2 18.61 | +25 34.6 | 1.986 | 2.849 | 12.3 | 20.0 |
| 10 8 | 2 11.69 | +25 35.6 | 1.915 | 2.842 | 9.2 | 19.8 |
| 10 18 | 2 3.10 | +25 18.8 | 1.869 | 2.836 | 6.0 | 19.6 |
| 10 28 | 1 53.75 | +24 45.1 | 1.850 | 2.829 | 4.3 | 19.5 |
| 11 7 | 1 44.72 | +23 58.6 | 1.860 | 2.822 | 5.9 | 19.6 |
| 11 17 | 1 37.02 | +23 5.3 | 1.897 | 2.816 | 9.0 | 19.7 |
| 11 27 | 1 31.44 | +22 12.2 | 1.959 | 2.809 | 12.3 | 19.9 |

**453107** 2007 $XW_{9}$ 10 24.6 53.°79 19.°3/19.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 42.49 | −26 33.1 | 1.012 | 1.830 | 24.7 | 20.0 |
| 9 28 | 2 34.46 | −27 29.9 | 0.979 | 1.836 | 22.3 | 19.8 |
| 10 8 | 2 22.21 | −27 50.2 | 0.960 | 1.843 | 20.3 | 19.7 |
| 10 18 | 2 7.25 | −27 19.6 | 0.959 | 1.850 | 19.3 | 19.7 |
| 10 28 | 1 51.81 | −25 50.7 | 0.977 | 1.857 | 19.8 | 19.8 |
| 11 7 | 1 38.18 | −23 27.6 | 1.015 | 1.864 | 21.4 | 19.9 |
| 11 17 | 1 27.93 | −20 22.9 | 1.071 | 1.872 | 23.6 | 20.1 |
| 11 27 | 1 21.81 | −16 52.1 | 1.144 | 1.880 | 25.9 | 20.3 |

**389529** 2010 $JZ_{46}$ 10 24.6 188.°10 1.°5/25.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.29 | +17 31.8 | 2.153 | 2.954 | 13.8 | 21.5 |
| 9 28 | 2 19.87 | +17 33.4 | 2.067 | 2.954 | 10.8 | 21.3 |
| 10 8 | 2 12.35 | +17 23.4 | 2.003 | 2.953 | 7.3 | 21.1 |
| 10 18 | 2 3.32 | +17 2.4 | 1.967 | 2.952 | 3.6 | 20.9 |
| 10 28 | 1 53.65 | +16 32.9 | 1.959 | 2.950 | 1.8 | 20.7 |
| 11 7 | 1 44.35 | +15 59.2 | 1.981 | 2.947 | 5.2 | 21.0 |
| 11 17 | 1 36.33 | +15 26.0 | 2.031 | 2.945 | 8.9 | 21.2 |
| 11 27 | 1 30.31 | +14 58.4 | 2.107 | 2.941 | 12.1 | 21.4 |

**229416** 2005 $TT_{3}$ 10 24.6 350.°60 4.°7/22.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.89 | + 3 40.1 | 1.211 | 2.082 | 18.1 | 19.7 |
| 9 28 | 2 18.46 | + 3 8.1 | 1.147 | 2.076 | 14.0 | 19.5 |
| 10 8 | 2 12.00 | + 2 32.0 | 1.103 | 2.071 | 9.3 | 19.2 |
| 10 18 | 2 3.30 | + 1 58.4 | 1.080 | 2.067 | 5.2 | 19.0 |
| 10 28 | 1 53.70 | + 1 35.2 | 1.082 | 2.064 | 5.8 | 19.0 |
| 11 7 | 1 44.73 | + 1 28.9 | 1.109 | 2.062 | 10.2 | 19.3 |
| 11 17 | 1 37.73 | + 1 43.2 | 1.157 | 2.061 | 14.9 | 19.5 |
| 11 27 | 1 33.65 | + 2 18.7 | 1.225 | 2.061 | 19.0 | 19.8 |

**438606** 2007 $VJ_{242}$ 10 24.6 344.°76 5.°7/20.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 14.38 | + 4 10.3 | 1.236 | 2.118 | 17.1 | 20.3 |
| 9 28 | 2 12.67 | + 2 50.3 | 1.168 | 2.103 | 13.1 | 20.0 |
| 10 8 | 2 8.25 | + 1 21.5 | 1.120 | 2.090 | 8.9 | 19.7 |
| 10 18 | 2 1.79 | − 0 7.0 | 1.094 | 2.079 | 5.8 | 19.5 |
| 10 28 | 1 54.46 | − 1 23.4 | 1.093 | 2.069 | 7.1 | 19.6 |
| 11 7 | 1 47.63 | − 2 17.9 | 1.115 | 2.060 | 11.3 | 19.8 |
| 11 17 | 1 42.51 | − 2 44.1 | 1.158 | 2.053 | 15.7 | 20.0 |
| 11 27 | 1 40.00 | − 2 40.4 | 1.221 | 2.048 | 19.6 | 20.3 |

**299165** 2005 $GT_{20}$ 10 24.6 45.°78 0.°1/24.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.19 | +15 42.7 | 1.754 | 2.584 | 15.3 | 20.3 |
| 9 28 | 2 16.25 | +15 4.0 | 1.684 | 2.590 | 11.8 | 20.1 |
| 10 8 | 2 10.10 | +14 10.9 | 1.635 | 2.595 | 7.7 | 19.9 |
| 10 18 | 2 2.41 | +13 6.8 | 1.612 | 2.601 | 3.2 | 19.6 |
| 10 28 | 1 54.17 | +11 57.5 | 1.616 | 2.608 | 1.5 | 19.5 |
| 11 7 | 1 46.45 | +10 50.0 | 1.648 | 2.614 | 6.1 | 19.8 |
| 11 17 | 1 40.19 | + 9 51.4 | 1.706 | 2.621 | 10.2 | 20.1 |
| 11 27 | 1 36.07 | + 9 6.8 | 1.789 | 2.627 | 13.8 | 20.4 |

**353790** 2012 $PE_{32}$ 10 24.6 53.°25 2.°8/22.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.95 | + 7 50.3 | 1.321 | 2.177 | 17.9 | 20.0 |
| 9 28 | 2 20.21 | + 7 15.3 | 1.275 | 2.197 | 13.5 | 19.8 |
| 10 8 | 2 12.74 | + 6 32.6 | 1.249 | 2.216 | 8.6 | 19.6 |
| 10 18 | 2 3.46 | + 5 48.0 | 1.246 | 2.236 | 3.9 | 19.4 |
| 10 28 | 1 53.69 | + 5 8.4 | 1.270 | 2.257 | 3.9 | 19.4 |
| 11 7 | 1 44.82 | + 4 40.5 | 1.320 | 2.278 | 8.4 | 19.8 |
| 11 17 | 1 37.94 | + 4 28.5 | 1.393 | 2.298 | 12.8 | 20.1 |
| 11 27 | 1 33.76 | + 4 34.4 | 1.488 | 2.319 | 16.5 | 20.4 |

**251205** 2006 $UX_{164}$ 10 24.6 78.°58 1.°7/23.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.04 | +10 13.4 | 1.956 | 2.794 | 13.7 | 20.5 |
| 9 28 | 2 15.92 | + 9 25.8 | 1.881 | 2.794 | 10.4 | 20.3 |
| 10 8 | 2 9.80 | + 8 28.9 | 1.829 | 2.794 | 6.6 | 20.0 |
| 10 18 | 2 2.29 | + 7 27.0 | 1.804 | 2.794 | 2.8 | 19.8 |
| 10 28 | 1 54.24 | + 6 25.9 | 1.806 | 2.794 | 2.7 | 19.8 |
| 11 7 | 1 46.62 | + 5 31.8 | 1.838 | 2.794 | 6.5 | 20.0 |
| 11 17 | 1 40.27 | + 4 49.7 | 1.896 | 2.795 | 10.3 | 20.3 |
| 11 27 | 1 35.85 | + 4 23.2 | 1.977 | 2.795 | 13.5 | 20.5 |

**402740** 2006 $WX_{201}$ 10 24.6 208.°76 5.°0/19.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.29 | − 2 30.4 | 2.403 | 3.243 | 11.3 | 21.2 |
| 9 28 | 2 15.71 | − 3 27.3 | 2.332 | 3.240 | 8.8 | 21.0 |
| 10 8 | 2 9.48 | − 4 23.3 | 2.285 | 3.236 | 6.4 | 20.8 |
| 10 18 | 2 2.12 | − 5 13.1 | 2.265 | 3.232 | 5.1 | 20.7 |
| 10 28 | 1 54.33 | − 5 51.7 | 2.274 | 3.228 | 5.9 | 20.8 |
| 11 7 | 1 46.88 | − 6 15.1 | 2.311 | 3.224 | 8.1 | 20.9 |
| 11 17 | 1 40.46 | − 6 21.2 | 2.374 | 3.219 | 10.6 | 21.1 |
| 11 27 | 1 35.62 | − 6 9.6 | 2.460 | 3.214 | 13.0 | 21.3 |

**25791** 2000 $CM_{61}$ 10 24.6 242.°93 3.°7/20.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.26 | + 3 23.8 | 2.441 | 3.283 | 11.1 | 18.0 |
| 9 28 | 2 13.41 | + 2 7.2 | 2.364 | 3.278 | 8.4 | 17.8 |
| 10 8 | 2 8.01 | + 0 46.5 | 2.312 | 3.274 | 5.7 | 17.7 |
| 10 18 | 2 1.53 | − 0 33.0 | 2.289 | 3.269 | 3.8 | 17.5 |
| 10 28 | 1 54.63 | − 1 45.5 | 2.295 | 3.264 | 4.6 | 17.6 |
| 11 7 | 1 48.03 | − 2 45.7 | 2.330 | 3.258 | 7.2 | 17.7 |
| 11 17 | 1 42.39 | − 3 29.7 | 2.391 | 3.253 | 10.0 | 17.9 |
| 11 27 | 1 38.25 | − 3 55.6 | 2.476 | 3.248 | 12.4 | 18.1 |

**481578** 2007 $TM_{111}$ 10 24.6 51.°49 6.°4/28.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 31.99 | +25 46.2 | 1.474 | 2.261 | 19.7 | 20.1 |
| 9 28 | 2 25.78 | +26 54.5 | 1.424 | 2.289 | 16.1 | 19.9 |
| 10 8 | 2 16.48 | +27 41.8 | 1.394 | 2.318 | 12.1 | 19.8 |
| 10 18 | 2 5.03 | +28 4.2 | 1.386 | 2.347 | 8.4 | 19.6 |
| 10 28 | 1 52.90 | +28 1.7 | 1.403 | 2.376 | 6.4 | 19.6 |
| 11 7 | 1 41.70 | +27 38.9 | 1.447 | 2.405 | 7.8 | 19.8 |
| 11 17 | 1 32.74 | +27 3.8 | 1.517 | 2.434 | 11.0 | 20.0 |
| 11 27 | 1 26.86 | +26 25.7 | 1.610 | 2.464 | 14.3 | 20.3 |

**26227** 1998 $HJ_{7}$ 10 24.6 43.°01 9.°8/15.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.85 | + 6 42.9 | 0.885 | 1.778 | 21.2 | 16.8 |
| 9 28 | 2 15.82 | + 2 18.9 | 0.843 | 1.785 | 15.9 | 16.6 |
| 10 8 | 2 10.39 | − 2 24.8 | 0.823 | 1.793 | 11.3 | 16.3 |
| 10 18 | 2 2.61 | − 6 59.0 | 0.828 | 1.802 | 10.0 | 16.3 |
| 10 28 | 1 54.15 | −10 53.0 | 0.859 | 1.811 | 13.0 | 16.5 |
| 11 7 | 1 46.73 | −13 46.7 | 0.911 | 1.820 | 17.6 | 16.8 |
| 11 17 | 1 41.68 | −15 34.6 | 0.983 | 1.830 | 21.9 | 17.1 |
| 11 27 | 1 39.78 | −16 22.1 | 1.069 | 1.841 | 25.3 | 17.4 |

**153646** 2001 $TC_{95}$ 10 24.6 27.°45 3.°0/26.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.76 | +18 19.9 | 1.148 | 1.993 | 20.7 | 19.8 |
| 9 28 | 2 20.03 | +18 45.1 | 1.095 | 2.005 | 16.3 | 19.6 |
| 10 8 | 2 13.04 | +18 51.5 | 1.060 | 2.017 | 11.2 | 19.3 |
| 10 18 | 2 3.70 | +18 39.2 | 1.046 | 2.031 | 5.8 | 19.1 |
| 10 28 | 1 53.56 | +18 11.7 | 1.056 | 2.046 | 3.1 | 19.0 |
| 11 7 | 1 44.31 | +17 36.4 | 1.091 | 2.063 | 7.4 | 19.3 |
| 11 17 | 1 37.34 | +17 1.6 | 1.149 | 2.080 | 12.4 | 19.6 |
| 11 27 | 1 33.53 | +16 35.3 | 1.228 | 2.097 | 16.7 | 19.9 |

**453410** 2009 $GK_2$ 10 24.6 157°.70 3°.5/21.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.80 | + 1 57.9 | 2.366 | 3.198 | 11.8 | 21.2 |
| 9 28 | 2 18.33 | + 1 25.8 | 2.296 | 3.204 | 9.0 | 21.0 |
| 10 8 | 2 11.14 | + 0 52.6 | 2.251 | 3.209 | 6.0 | 20.9 |
| 10 18 | 2 2.78 | + 0 22.3 | 2.233 | 3.214 | 3.7 | 20.7 |
| 10 28 | 1 54.02 | − 0 1.0 | 2.245 | 3.219 | 4.2 | 20.8 |
| 11 7 | 1 45.66 | − 0 13.9 | 2.286 | 3.223 | 6.8 | 20.9 |
| 11 17 | 1 38.43 | − 0 14.1 | 2.355 | 3.227 | 9.7 | 21.1 |
| 11 27 | 1 32.90 | − 0 0.7 | 2.448 | 3.230 | 12.3 | 21.3 |

**30101** 2000 $FA$ 10 24.6 78°.44 1°.0/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.94 | +12 45.6 | 1.254 | 2.103 | 19.1 | 18.5 |
| 9 28 | 2 21.29 | +12 8.8 | 1.199 | 2.116 | 14.6 | 18.2 |
| 10 8 | 2 13.63 | +11 17.3 | 1.164 | 2.130 | 9.3 | 18.0 |
| 10 18 | 2 3.89 | +10 16.1 | 1.152 | 2.143 | 3.7 | 17.7 |
| 10 28 | 1 53.51 | + 9 13.1 | 1.165 | 2.156 | 2.6 | 17.7 |
| 11 7 | 1 44.01 | + 8 17.1 | 1.205 | 2.170 | 8.0 | 18.1 |
| 11 17 | 1 36.63 | + 7 35.6 | 1.269 | 2.183 | 13.0 | 18.4 |
| 11 27 | 1 32.20 | + 7 13.2 | 1.354 | 2.196 | 17.1 | 18.7 |

**515919** 2015 $PQ_{314}$ 10 24.6 358°.05 3°.4/21.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.71 | + 5 49.9 | 1.836 | 2.685 | 13.9 | 21.2 |
| 9 28 | 2 15.77 | + 4 51.9 | 1.766 | 2.684 | 10.6 | 20.9 |
| 10 8 | 2 9.75 | + 3 47.6 | 1.719 | 2.684 | 6.9 | 20.7 |
| 10 18 | 2 2.29 | + 2 42.7 | 1.697 | 2.684 | 3.8 | 20.5 |
| 10 28 | 1 54.29 | + 1 43.9 | 1.704 | 2.684 | 4.4 | 20.6 |
| 11 7 | 1 46.73 | + 0 57.5 | 1.738 | 2.684 | 7.8 | 20.8 |
| 11 17 | 1 40.50 | + 0 27.8 | 1.797 | 2.684 | 11.4 | 21.0 |
| 11 27 | 1 36.27 | + 0 17.2 | 1.880 | 2.684 | 14.6 | 21.2 |

**183850** 2004 $BA_{147}$ 10 24.6 326°.96 1°.5/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.71 | +10 36.4 | 1.756 | 2.598 | 14.8 | 20.5 |
| 9 28 | 2 16.72 | +10 1.3 | 1.679 | 2.593 | 11.3 | 20.3 |
| 10 8 | 2 10.48 | + 9 16.3 | 1.624 | 2.590 | 7.2 | 20.0 |
| 10 18 | 2 2.62 | + 8 25.3 | 1.595 | 2.586 | 3.0 | 19.8 |
| 10 28 | 1 54.11 | + 7 33.9 | 1.593 | 2.582 | 2.6 | 19.8 |
| 11 7 | 1 46.04 | + 6 48.6 | 1.619 | 2.579 | 6.9 | 20.0 |
| 11 17 | 1 39.37 | + 6 14.7 | 1.670 | 2.576 | 11.0 | 20.3 |
| 11 27 | 1 34.85 | + 5 56.1 | 1.745 | 2.573 | 14.5 | 20.5 |

**422083** 2014 $QP_{389}$ 10 24.6 21°.88 5°.9/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.23 | + 0 52.4 | 1.981 | 2.837 | 12.7 | 20.1 |
| 9 28 | 2 12.91 | − 1 20.2 | 1.922 | 2.841 | 9.8 | 19.9 |
| 10 8 | 2 7.80 | − 3 36.4 | 1.889 | 2.846 | 7.1 | 19.8 |
| 10 18 | 2 1.47 | − 5 47.0 | 1.883 | 2.851 | 5.9 | 19.7 |
| 10 28 | 1 54.73 | − 7 42.4 | 1.907 | 2.856 | 7.2 | 19.8 |
| 11 7 | 1 48.41 | − 9 15.1 | 1.958 | 2.862 | 9.9 | 20.0 |
| 11 17 | 1 43.27 | −10 21.1 | 2.034 | 2.868 | 12.6 | 20.2 |
| 11 27 | 1 39.87 | −10 59.4 | 2.132 | 2.875 | 15.1 | 20.4 |

**412779** 2014 $PS_6$ 10 24.6 64°.11 2°.1/22.7 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.03 | + 8 43.2 | 2.003 | 2.840 | 13.4 | 21.6 |
| 9 28 | 2 16.35 | + 7 51.4 | 1.954 | 2.866 | 10.0 | 21.4 |
| 10 8 | 2 9.88 | + 6 53.3 | 1.929 | 2.893 | 6.3 | 21.2 |
| 10 18 | 2 2.26 | + 5 53.3 | 1.930 | 2.920 | 2.9 | 21.1 |
| 10 28 | 1 54.36 | + 4 57.3 | 1.961 | 2.946 | 3.0 | 21.1 |
| 11 7 | 1 47.05 | + 4 10.4 | 2.020 | 2.973 | 6.4 | 21.4 |
| 11 17 | 1 41.05 | + 3 36.4 | 2.106 | 2.999 | 9.7 | 21.6 |
| 11 27 | 1 36.91 | + 3 17.7 | 2.216 | 3.025 | 12.5 | 21.9 |

**485301** 2011 $AH_{50}$ 10 24.6 186°.84 2°.1/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.76 | + 6 5.2 | 2.775 | 3.603 | 10.3 | 22.4 |
| 9 28 | 2 15.11 | + 5 33.3 | 2.695 | 3.603 | 7.8 | 22.2 |
| 10 8 | 2 9.02 | + 4 57.8 | 2.641 | 3.602 | 5.0 | 22.0 |
| 10 18 | 2 1.94 | + 4 21.7 | 2.614 | 3.601 | 2.5 | 21.8 |
| 10 28 | 1 54.48 | + 3 48.5 | 2.617 | 3.600 | 2.8 | 21.9 |
| 11 7 | 1 47.31 | + 3 21.7 | 2.651 | 3.598 | 5.4 | 22.0 |
| 11 17 | 1 41.02 | + 3 4.0 | 2.712 | 3.596 | 8.1 | 22.2 |
| 11 27 | 1 36.12 | + 2 57.4 | 2.799 | 3.594 | 10.6 | 22.4 |

**165625** 2001 $FA_{130}$ 10 24.6 211°.98 1°.7/26.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.43 | +18 21.4 | 2.170 | 2.970 | 13.8 | 20.7 |
| 9 28 | 2 19.27 | +18 20.4 | 2.079 | 2.965 | 10.8 | 20.5 |
| 10 8 | 2 12.03 | +18 7.1 | 2.011 | 2.959 | 7.4 | 20.3 |
| 10 18 | 2 3.25 | +17 42.0 | 1.969 | 2.953 | 3.7 | 20.1 |
| 10 28 | 1 53.80 | +17 7.7 | 1.956 | 2.946 | 1.9 | 19.9 |
| 11 7 | 1 44.68 | +16 28.5 | 1.972 | 2.939 | 5.2 | 20.1 |
| 11 17 | 1 36.80 | +15 49.4 | 2.017 | 2.932 | 8.8 | 20.4 |
| 11 27 | 1 30.88 | +15 15.8 | 2.087 | 2.924 | 12.1 | 20.6 |

**481573** 2007 $TX_{50}$ 10 24.6 50°.45 1°.1/25.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.56 | +15 45.7 | 1.468 | 2.300 | 17.7 | 20.6 |
| 9 28 | 2 20.56 | +15 46.8 | 1.418 | 2.323 | 13.6 | 20.4 |
| 10 8 | 2 12.94 | +15 33.9 | 1.387 | 2.346 | 9.0 | 20.2 |
| 10 18 | 2 3.57 | +15 9.0 | 1.381 | 2.370 | 4.0 | 19.9 |
| 10 28 | 1 53.71 | +14 36.5 | 1.402 | 2.393 | 1.7 | 19.8 |
| 11 7 | 1 44.68 | +14 2.4 | 1.449 | 2.418 | 6.4 | 20.2 |
| 11 17 | 1 37.54 | +13 33.0 | 1.522 | 2.442 | 10.8 | 20.5 |
| 11 27 | 1 33.01 | +13 13.5 | 1.618 | 2.467 | 14.5 | 20.8 |

**482700** 2013 $CT_{137}$ 10 24.6 124°.52 5°.2/29.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 26.36 | +28 41.0 | 2.325 | 3.071 | 14.5 | 21.3 |
| 9 28 | 2 20.72 | +29 16.3 | 2.244 | 3.081 | 12.0 | 21.1 |
| 10 8 | 2 12.93 | +29 35.2 | 2.185 | 3.091 | 9.3 | 21.0 |
| 10 18 | 2 3.60 | +29 35.7 | 2.150 | 3.100 | 6.7 | 20.8 |
| 10 28 | 1 53.65 | +29 17.9 | 2.144 | 3.109 | 5.2 | 20.8 |
| 11 7 | 1 44.09 | +28 45.0 | 2.166 | 3.117 | 6.1 | 20.8 |
| 11 17 | 1 35.86 | +28 2.0 | 2.216 | 3.126 | 8.4 | 21.0 |
| 11 27 | 1 29.68 | +27 15.4 | 2.292 | 3.134 | 11.0 | 21.2 |

**156801** 2003 $BW_{20}$ 10 24.6 273°.75 1°.1/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.11 | +11 8.4 | 1.657 | 2.494 | 15.7 | 20.3 |
| 9 28 | 2 19.67 | +10 47.0 | 1.566 | 2.478 | 12.1 | 20.1 |
| 10 8 | 2 12.63 | +10 15.0 | 1.497 | 2.461 | 7.9 | 19.8 |
| 10 18 | 2 3.60 | + 9 35.3 | 1.453 | 2.444 | 3.2 | 19.5 |
| 10 28 | 1 53.62 | + 8 53.1 | 1.436 | 2.427 | 2.4 | 19.4 |
| 11 7 | 1 43.95 | + 8 14.7 | 1.447 | 2.410 | 7.2 | 19.6 |
| 11 17 | 1 35.77 | + 7 46.1 | 1.483 | 2.392 | 11.9 | 19.9 |
| 11 27 | 1 30.03 | + 7 32.0 | 1.543 | 2.375 | 15.9 | 20.1 |

**9145** Shustov 10 24.6 93°.08 1°.3/23.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.80 | + 8 21.2 | 1.844 | 2.671 | 14.8 | 17.0 |
| 9 28 | 2 22.55 | + 8 24.2 | 1.782 | 2.688 | 11.2 | 16.8 |
| 10 8 | 2 14.04 | + 8 21.9 | 1.743 | 2.704 | 7.2 | 16.6 |
| 10 18 | 2 4.01 | + 8 16.8 | 1.731 | 2.721 | 2.9 | 16.4 |
| 10 28 | 1 53.49 | + 8 12.0 | 1.747 | 2.737 | 2.3 | 16.4 |
| 11 7 | 1 43.60 | + 8 11.2 | 1.793 | 2.753 | 6.4 | 16.7 |
| 11 17 | 1 35.29 | + 8 17.3 | 1.866 | 2.768 | 10.2 | 16.9 |
| 11 27 | 1 29.25 | + 8 32.7 | 1.963 | 2.784 | 13.5 | 17.2 |

**433340** 2013 $RW_{43}$ 10 24.6 8°.42 1°.0/25.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.24 | +14 34.5 | 1.109 | 1.967 | 20.4 | 20.6 |
| 9 28 | 2 19.86 | +14 44.7 | 1.047 | 1.967 | 15.9 | 20.3 |
| 10 8 | 2 13.11 | +14 39.4 | 1.004 | 1.969 | 10.6 | 20.0 |
| 10 18 | 2 3.83 | +14 20.2 | 0.981 | 1.971 | 4.6 | 19.7 |
| 10 28 | 1 53.54 | +13 51.8 | 0.982 | 1.974 | 2.0 | 19.6 |
| 11 7 | 1 43.99 | +13 21.6 | 1.007 | 1.979 | 7.9 | 20.0 |
| 11 17 | 1 36.70 | +12 57.4 | 1.055 | 1.984 | 13.4 | 20.3 |
| 11 27 | 1 32.66 | +12 45.9 | 1.123 | 1.990 | 18.1 | 20.6 |

**455477** 2003 $US_{191}$ 10 24.7 0°.91 3°.4/26.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.11 | +18 56.3 | 1.655 | 2.473 | 16.6 | 20.1 |
| 9 28 | 2 18.91 | +19 44.7 | 1.578 | 2.471 | 13.2 | 19.9 |
| 10 8 | 2 12.12 | +20 20.6 | 1.522 | 2.470 | 9.4 | 19.7 |
| 10 18 | 2 3.38 | +20 42.6 | 1.490 | 2.470 | 5.4 | 19.5 |
| 10 28 | 1 53.76 | +20 51.1 | 1.485 | 2.471 | 3.5 | 19.4 |
| 11 7 | 1 44.56 | +20 49.2 | 1.506 | 2.474 | 6.3 | 19.5 |
| 11 17 | 1 36.94 | +20 41.6 | 1.553 | 2.477 | 10.3 | 19.8 |
| 11 27 | 1 31.80 | +20 34.3 | 1.623 | 2.481 | 13.9 | 20.0 |

**447835** 2007 $TZ_{449}$ 10 24.7 136°.53 3°.5/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.73 | + 2 31.0 | 2.008 | 2.843 | 13.4 | 21.4 |
| 9 28 | 2 20.11 | + 2 9.1 | 1.939 | 2.849 | 10.2 | 21.2 |
| 10 8 | 2 12.45 | + 1 46.0 | 1.894 | 2.855 | 6.8 | 21.0 |
| 10 18 | 2 3.39 | + 1 25.7 | 1.876 | 2.860 | 3.9 | 20.8 |
| 10 28 | 1 53.82 | + 1 12.6 | 1.887 | 2.865 | 4.3 | 20.8 |
| 11 7 | 1 44.75 | + 1 10.3 | 1.926 | 2.870 | 7.4 | 21.0 |
| 11 17 | 1 37.02 | + 1 21.0 | 1.993 | 2.874 | 10.7 | 21.3 |
| 11 27 | 1 31.31 | + 1 45.4 | 2.083 | 2.879 | 13.7 | 21.5 |

**403451** 2009 $SX_{293}$ 10 24.7 3°.08 2°.2/23.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.53 | + 6 34.3 | 1.769 | 2.616 | 14.5 | 20.6 |
| 9 28 | 2 17.28 | + 6 24.5 | 1.699 | 2.615 | 11.0 | 20.4 |
| 10 8 | 2 10.81 | + 6 10.2 | 1.650 | 2.615 | 7.1 | 20.2 |
| 10 18 | 2 2.77 | + 5 54.9 | 1.627 | 2.616 | 3.2 | 20.0 |
| 10 28 | 1 54.12 | + 5 42.9 | 1.631 | 2.618 | 3.2 | 20.0 |
| 11 7 | 1 45.93 | + 5 38.2 | 1.662 | 2.620 | 7.0 | 20.2 |
| 11 17 | 1 39.15 | + 5 44.0 | 1.720 | 2.623 | 10.9 | 20.5 |
| 11 27 | 1 34.50 | + 6 2.3 | 1.800 | 2.626 | 14.3 | 20.7 |

**510218** 2011 $EW_7$ 10 24.7 239°.51 0°.8/25.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.05 | +15 52.4 | 1.763 | 2.583 | 15.6 | 22.5 |
| 9 28 | 2 20.24 | +15 39.7 | 1.674 | 2.573 | 12.2 | 22.3 |
| 10 8 | 2 12.92 | +15 13.3 | 1.606 | 2.562 | 8.2 | 22.0 |
| 10 18 | 2 3.70 | +14 34.8 | 1.563 | 2.552 | 3.6 | 21.7 |
| 10 28 | 1 53.63 | +13 48.1 | 1.548 | 2.540 | 1.6 | 21.6 |
| 11 7 | 1 43.91 | +12 59.3 | 1.561 | 2.529 | 6.2 | 21.9 |
| 11 17 | 1 35.68 | +12 14.8 | 1.602 | 2.516 | 10.7 | 22.1 |
| 11 27 | 1 29.81 | +11 40.8 | 1.666 | 2.504 | 14.6 | 22.3 |

**224607** 2005 $YG_{48}$ 10 24.7 41°.33 0°.9/25.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.48 | +16 18.3 | 2.008 | 2.827 | 14.0 | 20.5 |
| 9 28 | 2 16.25 | +16 4.6 | 1.935 | 2.834 | 10.9 | 20.3 |
| 10 8 | 2 10.03 | +15 38.9 | 1.885 | 2.841 | 7.2 | 20.1 |
| 10 18 | 2 2.43 | +15 3.1 | 1.860 | 2.848 | 3.2 | 19.8 |
| 10 28 | 1 54.31 | +14 21.1 | 1.864 | 2.856 | 1.4 | 19.7 |
| 11 7 | 1 46.64 | +13 37.8 | 1.896 | 2.864 | 5.2 | 20.0 |
| 11 17 | 1 40.26 | +12 58.5 | 1.955 | 2.872 | 9.0 | 20.3 |
| 11 27 | 1 35.81 | +12 27.8 | 2.039 | 2.880 | 12.2 | 20.5 |

**48023** 2001 $DL_7$ 10 24.7 82°.28 1°.2/23.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 25.58 | +10 20.9 | 1.827 | 2.657 | 14.8 | 19.2 |
| 9 28 | 2 20.04 | + 9 57.8 | 1.773 | 2.681 | 11.2 | 19.0 |
| 10 8 | 2 12.38 | + 9 26.8 | 1.741 | 2.704 | 7.1 | 18.8 |
| 10 18 | 2 3.32 | + 8 51.3 | 1.736 | 2.727 | 2.8 | 18.6 |
| 10 28 | 1 53.89 | + 8 16.2 | 1.760 | 2.749 | 2.2 | 18.6 |
| 11 7 | 1 45.14 | + 7 46.5 | 1.811 | 2.772 | 6.3 | 18.9 |
| 11 17 | 1 37.92 | + 7 26.1 | 1.891 | 2.794 | 10.0 | 19.2 |
| 11 27 | 1 32.86 | + 7 18.0 | 1.994 | 2.815 | 13.2 | 19.4 |

**181792** 1998 $FD_{39}$ 10 24.7 223°.02 1°.1/23.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.31 | +11 2.0 | 2.625 | 3.444 | 11.1 | 21.8 |
| 9 28 | 2 15.72 | +10 20.3 | 2.531 | 3.434 | 8.5 | 21.6 |
| 10 8 | 2 9.53 | + 9 30.7 | 2.463 | 3.423 | 5.4 | 21.4 |
| 10 18 | 2 2.21 | + 8 36.1 | 2.422 | 3.412 | 2.2 | 21.1 |
| 10 28 | 1 54.41 | + 7 40.6 | 2.412 | 3.401 | 1.9 | 21.1 |
| 11 7 | 1 46.87 | + 6 48.7 | 2.432 | 3.388 | 5.2 | 21.3 |
| 11 17 | 1 40.25 | + 6 4.7 | 2.480 | 3.376 | 8.3 | 21.5 |
| 11 27 | 1 35.12 | + 5 31.9 | 2.555 | 3.362 | 11.1 | 21.7 |

**36262** 1999 $XO_{117}$ 10 24.7 77°.09 0°.3/24.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.67 | +13 29.4 | 2.224 | 3.041 | 12.9 | 17.9 |
| 9 28 | 2 17.78 | +13 29.5 | 2.142 | 3.041 | 10.0 | 17.7 |
| 10 8 | 2 10.98 | +13 21.3 | 2.084 | 3.041 | 6.5 | 17.5 |
| 10 18 | 2 2.82 | +13 6.2 | 2.052 | 3.041 | 2.7 | 17.3 |
| 10 28 | 1 54.11 | +12 47.0 | 2.049 | 3.042 | 1.3 | 17.2 |
| 11 7 | 1 45.75 | +12 27.3 | 2.076 | 3.042 | 5.1 | 17.4 |
| 11 17 | 1 38.56 | +12 11.0 | 2.131 | 3.042 | 8.7 | 17.7 |
| 11 27 | 1 33.19 | +12 1.6 | 2.211 | 3.042 | 11.8 | 17.9 |

**394505** 2007 $TQ_{239}$ 10 24.7 20°.98 1°.0/25.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.66 | +17 17.5 | 1.669 | 2.496 | 16.1 | 21.3 |
| 9 28 | 2 16.82 | +16 52.5 | 1.596 | 2.498 | 12.5 | 21.0 |
| 10 8 | 2 10.61 | +16 11.7 | 1.544 | 2.501 | 8.3 | 20.8 |
| 10 18 | 2 2.72 | +15 17.4 | 1.516 | 2.504 | 3.7 | 20.5 |
| 10 28 | 1 54.17 | +14 14.9 | 1.515 | 2.507 | 1.6 | 20.4 |
| 11 7 | 1 46.15 | +13 11.2 | 1.542 | 2.511 | 6.1 | 20.7 |
| 11 17 | 1 39.66 | +12 13.7 | 1.595 | 2.515 | 10.4 | 21.0 |
| 11 27 | 1 35.45 | +11 28.4 | 1.672 | 2.519 | 14.2 | 21.2 |

**30971** 1995 $DJ$ 10 24.7 358°.41 8°.5/28.6 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.93 | +23 50.7 | 0.919 | 1.774 | 23.8 | 16.2 |
| 9 28 | 2 15.98 | +25 29.9 | 0.858 | 1.766 | 19.8 | 15.9 |
| 10 8 | 2 11.20 | +26 47.0 | 0.814 | 1.761 | 15.3 | 15.6 |
| 10 18 | 2 3.27 | +27 34.8 | 0.786 | 1.758 | 10.9 | 15.4 |
| 10 28 | 1 53.83 | +27 49.8 | 0.779 | 1.757 | 8.5 | 15.3 |
| 11 7 | 1 45.02 | +27 35.9 | 0.792 | 1.760 | 10.4 | 15.4 |
| 11 17 | 1 38.77 | +27 2.6 | 0.825 | 1.765 | 14.6 | 15.6 |
| 11 27 | 1 36.40 | +26 23.1 | 0.876 | 1.772 | 19.0 | 15.9 |

**226994** 2004 $XZ_{70}$ 10 24.7 299°.28 0°.7/25.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.39 | +15 32.1 | 2.283 | 3.098 | 12.7 | 20.8 |
| 9 28 | 2 16.05 | +15 23.7 | 2.196 | 3.093 | 9.9 | 20.6 |
| 10 8 | 2 9.88 | +15 5.1 | 2.133 | 3.088 | 6.5 | 20.4 |
| 10 18 | 2 2.39 | +14 38.0 | 2.095 | 3.083 | 2.9 | 20.2 |
| 10 28 | 1 54.34 | +14 5.2 | 2.086 | 3.078 | 1.3 | 20.0 |
| 11 7 | 1 46.60 | +13 31.0 | 2.107 | 3.074 | 4.9 | 20.3 |
| 11 17 | 1 39.95 | +12 59.6 | 2.156 | 3.069 | 8.4 | 20.5 |
| 11 27 | 1 35.04 | +12 35.3 | 2.229 | 3.065 | 11.5 | 20.7 |

**218544** 2004 $XS_5$ 10 24.7 328°.36 10°.4/17.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.11 | −13 40.3 | 1.655 | 2.497 | 15.5 | 18.6 |
| 9 28 | 2 19.64 | −14 27.5 | 1.577 | 2.470 | 13.2 | 18.4 |
| 10 8 | 2 12.59 | −15 2.8 | 1.519 | 2.444 | 11.2 | 18.2 |
| 10 18 | 2 3.60 | −15 17.5 | 1.484 | 2.419 | 10.4 | 18.1 |
| 10 28 | 1 53.72 | −15 4.1 | 1.474 | 2.394 | 11.4 | 18.1 |
| 11 7 | 1 44.23 | −14 18.8 | 1.487 | 2.371 | 13.7 | 18.2 |
| 11 17 | 1 36.25 | −13 2.6 | 1.522 | 2.348 | 16.5 | 18.4 |
| 11 27 | 1 30.70 | −11 19.1 | 1.577 | 2.326 | 19.3 | 18.5 |

**387612** 2002 $EP_{77}$ 10 24.7 174°.71 1°.1/25.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.67 | +17 10.9 | 2.192 | 2.995 | 13.5 | 23.1 |
| 9 28 | 2 19.34 | +16 57.8 | 2.109 | 2.998 | 10.6 | 22.9 |
| 10 8 | 2 12.00 | +16 32.7 | 2.049 | 3.000 | 7.1 | 22.7 |
| 10 18 | 2 3.25 | +15 56.9 | 2.015 | 3.001 | 3.3 | 22.4 |
| 10 28 | 1 53.94 | +15 13.8 | 2.011 | 3.002 | 1.5 | 22.3 |
| 11 7 | 1 45.02 | +14 28.0 | 2.036 | 3.003 | 5.1 | 22.6 |
| 11 17 | 1 37.36 | +13 44.7 | 2.090 | 3.003 | 8.7 | 22.8 |
| 11 27 | 1 31.62 | +13 8.9 | 2.170 | 3.002 | 11.9 | 23.0 |

**329727** 2003 $WS_{167}$ 10 24.7 298°.24 3°.3/22.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.70 | + 7 54.0 | 1.367 | 2.224 | 17.3 | 21.0 |
| 9 28 | 2 18.88 | + 7 3.5 | 1.294 | 2.217 | 13.2 | 20.8 |
| 10 8 | 2 12.23 | + 6 2.6 | 1.241 | 2.209 | 8.6 | 20.5 |
| 10 18 | 2 3.47 | + 4 57.2 | 1.213 | 2.202 | 4.1 | 20.2 |
| 10 28 | 1 53.82 | + 3 55.9 | 1.210 | 2.195 | 4.5 | 20.2 |
| 11 7 | 1 44.70 | + 3 7.4 | 1.232 | 2.188 | 9.2 | 20.5 |
| 11 17 | 1 37.37 | + 2 38.0 | 1.279 | 2.181 | 13.9 | 20.7 |
| 11 27 | 1 32.75 | + 2 31.0 | 1.346 | 2.174 | 18.0 | 21.0 |

**482583** 2012 $XM_{48}$ 10 24.7 347°.35 3°.7/26.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 16.63 | +20 0.8 | 1.144 | 1.995 | 20.3 | 20.8 |
| 9 28 | 2 15.00 | +20 25.3 | 1.069 | 1.981 | 16.4 | 20.5 |
| 10 8 | 2 10.16 | +20 29.2 | 1.012 | 1.969 | 11.6 | 20.2 |
| 10 18 | 2 2.78 | +20 11.4 | 0.975 | 1.958 | 6.5 | 19.9 |
| 10 28 | 1 54.18 | +19 34.5 | 0.960 | 1.949 | 3.8 | 19.7 |
| 11 7 | 1 46.05 | +18 45.7 | 0.969 | 1.942 | 7.7 | 19.9 |
| 11 17 | 1 39.94 | +17 54.9 | 1.000 | 1.937 | 13.0 | 20.2 |
| 11 27 | 1 36.98 | +17 12.1 | 1.051 | 1.934 | 17.8 | 20.5 |

**125342** 2001 $VA_{53}$ 10 24.7 317°.17 2°.6/26.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.55 | +17 52.8 | 1.457 | 2.285 | 18.0 | 19.5 |
| 9 28 | 2 20.47 | +18 15.8 | 1.374 | 2.274 | 14.3 | 19.3 |
| 10 8 | 2 13.42 | +18 24.2 | 1.310 | 2.264 | 9.9 | 19.0 |
| 10 18 | 2 4.05 | +18 17.2 | 1.269 | 2.254 | 5.1 | 18.7 |
| 10 28 | 1 53.57 | +17 57.0 | 1.254 | 2.244 | 2.8 | 18.5 |
| 11 7 | 1 43.47 | +17 28.5 | 1.265 | 2.235 | 6.9 | 18.8 |
| 11 17 | 1 35.15 | +16 58.7 | 1.301 | 2.226 | 11.8 | 19.0 |
| 11 27 | 1 29.66 | +16 34.9 | 1.359 | 2.218 | 16.1 | 19.3 |

**342781** 2008 $WO_{109}$ 10 24.7 183°.93 0°.0/24.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.90 | +13 46.4 | 1.878 | 2.702 | 14.7 | 21.2 |
| 9 28 | 2 19.06 | +13 30.1 | 1.800 | 2.702 | 11.3 | 21.0 |
| 10 8 | 2 11.99 | +13 2.9 | 1.743 | 2.702 | 7.4 | 20.8 |
| 10 18 | 2 3.31 | +12 26.9 | 1.712 | 2.702 | 3.0 | 20.5 |
| 10 28 | 1 53.99 | +11 46.4 | 1.710 | 2.702 | 1.5 | 20.4 |
| 11 7 | 1 45.10 | +11 6.8 | 1.736 | 2.701 | 5.9 | 20.7 |
| 11 17 | 1 37.62 | +10 33.4 | 1.789 | 2.700 | 10.0 | 21.0 |
| 11 27 | 1 32.29 | +10 10.7 | 1.866 | 2.699 | 13.5 | 21.2 |

**41440** 2000 $HZ_{23}$ 10 24.7 97°.58 12°.9/22.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 53.64 | −11 16.0 | 0.748 | 1.603 | 27.9 | 21.5 |
| 9 28 | 2 43.20 | −11 44.4 | 0.722 | 1.631 | 22.5 | 21.3 |
| 10 8 | 2 27.87 | −11 50.1 | 0.712 | 1.658 | 17.1 | 21.2 |
| 10 18 | 2 9.56 | −11 20.6 | 0.721 | 1.684 | 13.3 | 21.1 |
| 10 28 | 1 51.16 | −10 10.2 | 0.752 | 1.709 | 13.5 | 21.2 |
| 11 7 | 1 35.39 | − 8 23.5 | 0.805 | 1.733 | 17.0 | 21.5 |
| 11 17 | 1 23.96 | − 6 11.4 | 0.879 | 1.755 | 21.2 | 21.9 |
| 11 27 | 1 17.47 | − 3 44.9 | 0.969 | 1.777 | 24.9 | 22.2 |

**282736** 2006 $DG_{200}$ 10 24.7 85°.42 7°.5/31.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 31.32 | +34 34.8 | 1.991 | 2.709 | 17.4 | 20.8 |
| 9 28 | 2 24.80 | +35 18.6 | 1.931 | 2.739 | 14.8 | 20.6 |
| 10 8 | 2 15.68 | +35 39.1 | 1.891 | 2.769 | 12.0 | 20.5 |
| 10 18 | 2 4.78 | +35 33.3 | 1.873 | 2.798 | 9.3 | 20.4 |
| 10 28 | 1 53.31 | +35 1.1 | 1.882 | 2.827 | 7.6 | 20.4 |
| 11 7 | 1 42.61 | +34 7.0 | 1.917 | 2.855 | 7.9 | 20.4 |
| 11 17 | 1 33.76 | +32 58.4 | 1.980 | 2.882 | 9.7 | 20.6 |
| 11 27 | 1 27.51 | +31 44.6 | 2.068 | 2.909 | 12.1 | 20.8 |

**237597** 2001 $KZ_{49}$ 10 24.7 89°.96 3°.6/28.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.50 | +26 40.6 | 2.148 | 2.913 | 15.0 | 20.5 |
| 9 28 | 2 19.84 | +26 20.7 | 2.088 | 2.943 | 12.1 | 20.4 |
| 10 8 | 2 12.19 | +25 42.1 | 2.049 | 2.974 | 8.8 | 20.2 |
| 10 18 | 2 3.29 | +24 45.5 | 2.036 | 3.003 | 5.5 | 20.1 |
| 10 28 | 1 54.07 | +23 34.6 | 2.051 | 3.032 | 3.6 | 20.0 |
| 11 7 | 1 45.52 | +22 15.4 | 2.096 | 3.061 | 5.2 | 20.2 |
| 11 17 | 1 38.45 | +20 54.9 | 2.170 | 3.088 | 8.1 | 20.4 |
| 11 27 | 1 33.43 | +19 40.1 | 2.271 | 3.115 | 11.0 | 20.6 |

**154960** 2004 $TK_{186}$ 10 24.7 291°.70 0°.5/25.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.95 | +15 18.7 | 3.065 | 3.872 | 10.0 | 20.5 |
| 9 28 | 2 13.03 | +15 5.4 | 2.966 | 3.859 | 7.7 | 20.3 |
| 10 8 | 2 7.76 | +14 44.3 | 2.892 | 3.846 | 5.1 | 20.2 |
| 10 18 | 2 1.54 | +14 16.8 | 2.846 | 3.834 | 2.2 | 19.9 |
| 10 28 | 1 54.89 | +13 45.2 | 2.829 | 3.821 | 1.0 | 19.8 |
| 11 7 | 1 48.43 | +13 12.5 | 2.842 | 3.808 | 3.9 | 20.0 |
| 11 17 | 1 42.71 | +12 42.1 | 2.885 | 3.795 | 6.7 | 20.2 |
| 11 27 | 1 38.24 | +12 16.9 | 2.954 | 3.783 | 9.2 | 20.4 |

**85903** 1999 $CD_{70}$ 10 24.7 262°.56 1°.8/26.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.96 | +20 12.0 | 2.121 | 2.922 | 14.0 | 20.2 |
| 9 28 | 2 16.78 | +19 48.9 | 2.022 | 2.908 | 11.1 | 19.9 |
| 10 8 | 2 10.53 | +19 10.2 | 1.946 | 2.893 | 7.7 | 19.7 |
| 10 18 | 2 2.75 | +18 16.8 | 1.895 | 2.879 | 3.9 | 19.4 |
| 10 28 | 1 54.28 | +17 12.3 | 1.873 | 2.864 | 1.9 | 19.3 |
| 11 7 | 1 46.09 | +16 2.3 | 1.880 | 2.848 | 5.2 | 19.5 |
| 11 17 | 1 39.09 | +14 53.5 | 1.915 | 2.833 | 9.0 | 19.7 |
| 11 27 | 1 34.02 | +13 52.5 | 1.975 | 2.817 | 12.5 | 19.9 |

**55119** 2001 $QM_{167}$ 10 24.7 242°.43 1°.3/23.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.48 | + 9 31.7 | 2.168 | 2.994 | 12.9 | 19.8 |
| 9 28 | 2 18.52 | + 9 14.1 | 2.078 | 2.984 | 9.9 | 19.6 |
| 10 8 | 2 11.56 | + 8 49.7 | 2.012 | 2.973 | 6.4 | 19.4 |
| 10 18 | 2 3.15 | + 8 21.3 | 1.972 | 2.962 | 2.6 | 19.1 |
| 10 28 | 1 54.09 | + 7 52.6 | 1.962 | 2.951 | 2.2 | 19.1 |
| 11 7 | 1 45.32 | + 7 27.9 | 1.981 | 2.939 | 5.9 | 19.3 |
| 11 17 | 1 37.71 | + 7 11.1 | 2.027 | 2.927 | 9.6 | 19.5 |
| 11 27 | 1 31.97 | + 7 5.3 | 2.098 | 2.915 | 12.8 | 19.7 |

**329465** 2002 $QH_{19}$ 10 24.7 30°34 0°1/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.99 | +12 37.9 | 1.022 | 1.889 | 21.1 | 20.4 |
| 9 28 | 2 20.33 | +12 38.9 | 0.978 | 1.903 | 16.2 | 20.1 |
| 10 8 | 2 13.29 | +12 25.7 | 0.951 | 1.919 | 10.5 | 19.9 |
| 10 18 | 2 3.90 | +12 1.6 | 0.945 | 1.937 | 4.2 | 19.6 |
| 10 28 | 1 53.81 | +11 32.8 | 0.963 | 1.955 | 2.1 | 19.5 |
| 11 7 | 1 44.76 | +11 7.2 | 1.004 | 1.975 | 8.2 | 20.0 |
| 11 17 | 1 38.14 | +10 51.4 | 1.068 | 1.995 | 13.5 | 20.3 |
| 11 27 | 1 34.76 | +10 50.2 | 1.152 | 2.016 | 17.9 | 20.7 |

**73710** 1992 $EL_{21}$ 10 24.7 176°01 0°9/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.48 | +11 39.4 | 1.986 | 2.809 | 14.0 | 20.9 |
| 9 28 | 2 20.11 | +11 12.6 | 1.908 | 2.811 | 10.7 | 20.7 |
| 10 8 | 2 12.59 | +10 36.5 | 1.853 | 2.813 | 6.9 | 20.5 |
| 10 18 | 2 3.56 | + 9 54.0 | 1.824 | 2.814 | 2.8 | 20.2 |
| 10 28 | 1 53.93 | + 9 9.6 | 1.824 | 2.815 | 2.0 | 20.2 |
| 11 7 | 1 44.76 | + 8 28.9 | 1.854 | 2.815 | 6.1 | 20.5 |
| 11 17 | 1 36.94 | + 7 56.5 | 1.912 | 2.814 | 10.0 | 20.7 |
| 11 27 | 1 31.20 | + 7 36.3 | 1.993 | 2.813 | 13.3 | 20.9 |

**459941** 2014 $NK_{27}$ 10 24.7 359°43 4°4/21.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.49 | + 4 53.8 | 1.474 | 2.343 | 15.6 | 20.2 |
| 9 28 | 2 13.06 | + 3 48.1 | 1.410 | 2.339 | 11.9 | 20.0 |
| 10 8 | 2 8.29 | + 2 35.7 | 1.368 | 2.337 | 7.8 | 19.8 |
| 10 18 | 2 1.86 | + 1 24.0 | 1.350 | 2.336 | 4.7 | 19.6 |
| 10 28 | 1 54.80 | + 0 21.7 | 1.358 | 2.336 | 5.6 | 19.7 |
| 11 7 | 1 48.24 | − 0 23.7 | 1.391 | 2.338 | 9.3 | 19.9 |
| 11 17 | 1 43.18 | − 0 47.5 | 1.447 | 2.341 | 13.2 | 20.1 |
| 11 27 | 1 40.36 | − 0 48.0 | 1.524 | 2.345 | 16.7 | 20.4 |

**238192** 2003 $SO_{319}$ 10 24.7 177°31 3°9/27.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.44 | +23 32.4 | 2.117 | 2.893 | 14.8 | 21.4 |
| 9 28 | 2 21.76 | +23 58.7 | 2.031 | 2.894 | 12.0 | 21.2 |
| 10 8 | 2 13.77 | +24 10.3 | 1.966 | 2.895 | 8.8 | 21.0 |
| 10 18 | 2 4.09 | +24 5.9 | 1.927 | 2.896 | 5.6 | 20.8 |
| 10 28 | 1 53.68 | +23 46.2 | 1.916 | 2.896 | 3.9 | 20.7 |
| 11 7 | 1 43.64 | +23 14.8 | 1.934 | 2.896 | 5.7 | 20.8 |
| 11 17 | 1 34.97 | +22 36.9 | 1.980 | 2.896 | 8.9 | 21.0 |
| 11 27 | 1 28.47 | +21 59.0 | 2.052 | 2.895 | 12.1 | 21.2 |

**446773** 2015 $PB_{53}$ 10 24.7 55°11 8°2/18.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.28 | − 9 12.0 | 1.814 | 2.657 | 14.3 | 20.3 |
| 9 28 | 2 19.19 | −10 8.0 | 1.762 | 2.662 | 11.6 | 20.2 |
| 10 8 | 2 11.95 | −10 55.9 | 1.731 | 2.668 | 9.3 | 20.0 |
| 10 18 | 2 3.27 | −11 28.5 | 1.726 | 2.674 | 8.2 | 20.0 |
| 10 28 | 1 54.14 | −11 39.9 | 1.746 | 2.680 | 9.0 | 20.1 |
| 11 7 | 1 45.61 | −11 27.1 | 1.793 | 2.686 | 11.2 | 20.2 |
| 11 17 | 1 38.56 | −10 50.3 | 1.862 | 2.692 | 13.8 | 20.4 |
| 11 27 | 1 33.64 | − 9 51.9 | 1.953 | 2.698 | 16.2 | 20.6 |

**5864** Montgolfier 10 24.7 45°11 6°0/20.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.38 | + 3 0.5 | 1.181 | 2.050 | 18.7 | 16.9 |
| 9 28 | 2 19.70 | + 1 32.2 | 1.158 | 2.085 | 14.0 | 16.7 |
| 10 8 | 2 12.33 | + 0 2.8 | 1.155 | 2.121 | 9.4 | 16.6 |
| 10 18 | 2 3.36 | − 1 17.4 | 1.175 | 2.157 | 6.2 | 16.5 |
| 10 28 | 1 54.18 | − 2 18.9 | 1.221 | 2.194 | 7.1 | 16.7 |
| 11 7 | 1 46.16 | − 2 55.5 | 1.291 | 2.230 | 10.7 | 17.0 |
| 11 17 | 1 40.25 | − 3 5.4 | 1.384 | 2.267 | 14.4 | 17.3 |
| 11 27 | 1 37.01 | − 2 50.3 | 1.497 | 2.304 | 17.6 | 17.6 |

**431693** 2008 $DW_{63}$ 10 24.7 18°96 5°2/21.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.64 | + 4 44.2 | 1.086 | 1.964 | 19.2 | 20.6 |
| 9 28 | 2 17.63 | + 3 42.2 | 1.036 | 1.969 | 14.6 | 20.4 |
| 10 8 | 2 11.52 | + 2 33.4 | 1.005 | 1.975 | 9.7 | 20.1 |
| 10 18 | 2 3.22 | + 1 26.8 | 0.995 | 1.982 | 5.6 | 19.9 |
| 10 28 | 1 54.18 | + 0 33.1 | 1.010 | 1.990 | 6.5 | 20.0 |
| 11 7 | 1 45.99 | + 0 0.7 | 1.047 | 1.999 | 10.9 | 20.3 |
| 11 17 | 1 39.92 | − 0 6.0 | 1.106 | 2.009 | 15.6 | 20.6 |
| 11 27 | 1 36.82 | + 0 13.4 | 1.184 | 2.020 | 19.5 | 20.9 |

**218464** 2004 $RF_{319}$ 10 24.7 96°19 3°1/27.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.20 | +24 36.9 | 2.235 | 3.014 | 14.0 | 20.5 |
| 9 28 | 2 16.71 | +24 21.3 | 2.159 | 3.025 | 11.3 | 20.4 |
| 10 8 | 2 10.31 | +23 48.9 | 2.104 | 3.036 | 8.2 | 20.2 |
| 10 18 | 2 2.62 | +23 0.4 | 2.075 | 3.048 | 4.9 | 20.0 |
| 10 28 | 1 54.47 | +21 58.9 | 2.074 | 3.058 | 3.1 | 19.9 |
| 11 7 | 1 46.78 | +20 49.5 | 2.103 | 3.069 | 4.9 | 20.1 |
| 11 17 | 1 40.34 | +19 38.7 | 2.160 | 3.080 | 8.0 | 20.3 |
| 11 27 | 1 35.77 | +18 32.8 | 2.243 | 3.090 | 11.0 | 20.5 |

**161028** 2002 $GS_{7}$ 10 24.7 137°29 3°4/21.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.15 | + 4 2.6 | 2.307 | 3.148 | 11.7 | 20.1 |
| 9 28 | 2 14.94 | + 3 2.0 | 2.238 | 3.152 | 8.9 | 19.9 |
| 10 8 | 2 9.08 | + 1 57.7 | 2.193 | 3.155 | 5.9 | 19.8 |
| 10 18 | 2 2.11 | + 0 54.6 | 2.176 | 3.159 | 3.6 | 19.6 |
| 10 28 | 1 54.73 | − 0 1.9 | 2.188 | 3.162 | 4.3 | 19.7 |
| 11 7 | 1 47.72 | − 0 46.9 | 2.228 | 3.165 | 7.0 | 19.9 |
| 11 17 | 1 41.77 | − 1 17.0 | 2.295 | 3.168 | 9.9 | 20.1 |
| 11 27 | 1 37.43 | − 1 30.5 | 2.386 | 3.171 | 12.5 | 20.2 |

**224086** 2005 $NW_{84}$ 10 24.7 42°22 2°3/26.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.92 | +20 38.0 | 1.313 | 2.144 | 19.4 | 19.2 |
| 9 28 | 2 18.35 | +20 13.1 | 1.252 | 2.154 | 15.3 | 19.0 |
| 10 8 | 2 11.87 | +19 25.6 | 1.210 | 2.165 | 10.4 | 18.8 |
| 10 18 | 2 3.36 | +18 17.7 | 1.191 | 2.176 | 5.3 | 18.5 |
| 10 28 | 1 54.15 | +16 56.2 | 1.197 | 2.188 | 2.4 | 18.4 |
| 11 7 | 1 45.71 | +15 30.8 | 1.229 | 2.200 | 6.8 | 18.7 |
| 11 17 | 1 39.27 | +14 11.9 | 1.286 | 2.213 | 11.7 | 19.0 |
| 11 27 | 1 35.62 | +13 8.2 | 1.365 | 2.226 | 15.9 | 19.3 |

**108428** 2001 $KB_{39}$ 10 24.7 63°86 5°9/20.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.74 | + 2 32.4 | 1.322 | 2.184 | 17.5 | 19.0 |
| 9 28 | 2 19.94 | + 1 6.5 | 1.286 | 2.210 | 13.2 | 18.8 |
| 10 8 | 2 12.54 | − 0 21.4 | 1.271 | 2.235 | 9.0 | 18.7 |
| 10 18 | 2 3.50 | − 1 42.0 | 1.281 | 2.261 | 6.0 | 18.6 |
| 10 28 | 1 54.12 | − 2 45.8 | 1.316 | 2.286 | 7.0 | 18.7 |
| 11 7 | 1 45.70 | − 3 26.1 | 1.376 | 2.312 | 10.5 | 19.0 |
| 11 17 | 1 39.23 | − 3 40.4 | 1.460 | 2.338 | 14.2 | 19.3 |
| 11 27 | 1 35.35 | − 3 29.7 | 1.564 | 2.363 | 17.3 | 19.6 |

**451206** 2009 $VX_{11}$ 10 24.7 138°98 0°4/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.24 | +11 31.7 | 2.529 | 3.345 | 11.6 | 21.4 |
| 9 28 | 2 17.20 | +11 24.4 | 2.451 | 3.350 | 8.8 | 21.3 |
| 10 8 | 2 10.52 | +11 10.7 | 2.397 | 3.355 | 5.7 | 21.1 |
| 10 18 | 2 2.70 | +10 52.5 | 2.370 | 3.360 | 2.3 | 20.9 |
| 10 28 | 1 54.45 | +10 32.4 | 2.373 | 3.364 | 1.3 | 20.8 |
| 11 7 | 1 46.53 | +10 13.7 | 2.406 | 3.369 | 4.8 | 21.1 |
| 11 17 | 1 39.64 | + 9 59.7 | 2.468 | 3.373 | 7.9 | 21.3 |
| 11 27 | 1 34.33 | + 9 53.0 | 2.556 | 3.377 | 10.7 | 21.5 |

**244883** 2003 $UU_{378}$ 10 24.7 218°88 1°5/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.20 | +10 31.2 | 1.951 | 2.784 | 13.9 | 21.7 |
| 9 28 | 2 17.70 | + 9 50.4 | 1.870 | 2.780 | 10.6 | 21.4 |
| 10 8 | 2 11.10 | + 9 0.1 | 1.812 | 2.775 | 6.8 | 21.2 |
| 10 18 | 2 3.00 | + 8 4.1 | 1.780 | 2.771 | 2.8 | 21.0 |
| 10 28 | 1 54.29 | + 7 7.9 | 1.777 | 2.766 | 2.5 | 20.9 |
| 11 7 | 1 45.97 | + 6 17.5 | 1.802 | 2.760 | 6.5 | 21.2 |
| 11 17 | 1 38.94 | + 5 38.2 | 1.855 | 2.755 | 10.4 | 21.4 |
| 11 27 | 1 33.91 | + 5 13.7 | 1.931 | 2.749 | 13.7 | 21.6 |

**279627** 2011 $EA_{46}$ 10 24.7 141°52 1°8/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.42 | + 9 13.8 | 1.850 | 2.682 | 14.5 | 21.5 |
| 9 28 | 2 20.11 | + 8 39.8 | 1.781 | 2.690 | 11.0 | 21.3 |
| 10 8 | 2 12.61 | + 7 57.9 | 1.736 | 2.698 | 7.1 | 21.1 |
| 10 18 | 2 3.59 | + 7 12.2 | 1.716 | 2.706 | 3.0 | 20.8 |
| 10 28 | 1 54.03 | + 6 27.9 | 1.725 | 2.713 | 2.8 | 20.8 |
| 11 7 | 1 45.01 | + 5 50.6 | 1.763 | 2.720 | 6.8 | 21.1 |
| 11 17 | 1 37.46 | + 5 24.9 | 1.828 | 2.726 | 10.6 | 21.4 |
| 11 27 | 1 32.06 | + 5 13.6 | 1.916 | 2.732 | 13.9 | 21.6 |

**284234** 2006 $DE_{112}$ 10 24.7 120°30 0°4/25.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.63 | +15 41.5 | 1.880 | 2.699 | 14.8 | 21.5 |
| 9 28 | 2 18.78 | +15 13.4 | 1.810 | 2.709 | 11.4 | 21.3 |
| 10 8 | 2 11.76 | +14 32.2 | 1.761 | 2.719 | 7.5 | 21.0 |
| 10 18 | 2 3.24 | +13 40.8 | 1.739 | 2.728 | 3.2 | 20.8 |
| 10 28 | 1 54.20 | +12 43.9 | 1.745 | 2.737 | 1.4 | 20.7 |
| 11 7 | 1 45.69 | +11 47.6 | 1.780 | 2.746 | 5.7 | 21.0 |
| 11 17 | 1 38.62 | +10 58.0 | 1.842 | 2.754 | 9.7 | 21.3 |
| 11 27 | 1 33.68 | +10 20.1 | 1.928 | 2.762 | 13.1 | 21.5 |

**123931** 2001 $ED_{8}$ 10 24.7 149°92 1°4/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.06 | +16 54.8 | 2.420 | 3.221 | 12.5 | 19.7 |
| 9 28 | 2 18.00 | +17 2.3 | 2.336 | 3.224 | 9.7 | 19.5 |
| 10 8 | 2 11.13 | +17 0.1 | 2.276 | 3.226 | 6.6 | 19.3 |
| 10 18 | 2 2.99 | +16 48.9 | 2.243 | 3.228 | 3.2 | 19.1 |
| 10 28 | 1 54.31 | +16 30.7 | 2.239 | 3.230 | 1.6 | 19.0 |
| 11 7 | 1 45.96 | +16 9.0 | 2.265 | 3.232 | 4.6 | 19.2 |
| 11 17 | 1 38.71 | +15 47.4 | 2.320 | 3.234 | 7.9 | 19.4 |
| 11 27 | 1 33.17 | +15 29.9 | 2.400 | 3.235 | 10.8 | 19.6 |

**166581** 2002 $RX_{140}$ 10 24.7 68°69 0°3/24.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.97 | +10 50.7 | 1.714 | 2.540 | 15.7 | 19.7 |
| 9 28 | 2 22.88 | +11 3.0 | 1.657 | 2.561 | 12.0 | 19.5 |
| 10 8 | 2 14.39 | +11 7.9 | 1.622 | 2.582 | 7.7 | 19.3 |
| 10 18 | 2 4.29 | +11 7.0 | 1.613 | 2.603 | 3.1 | 19.0 |
| 10 28 | 1 53.71 | +11 3.3 | 1.632 | 2.624 | 1.7 | 19.0 |
| 11 7 | 1 43.83 | +11 0.7 | 1.680 | 2.645 | 6.2 | 19.3 |
| 11 17 | 1 35.66 | +11 2.7 | 1.755 | 2.665 | 10.2 | 19.6 |
| 11 27 | 1 29.89 | +11 12.5 | 1.854 | 2.686 | 13.7 | 19.9 |

**218573** 2005 $JW_{46}$ 10 24.7 35°73 3°3/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.37 | + 5 2.2 | 0.959 | 1.833 | 21.6 | 19.5 |
| 9 28 | 2 24.26 | + 5 9.4 | 0.927 | 1.857 | 16.4 | 19.3 |
| 10 8 | 2 15.67 | + 5 13.1 | 0.913 | 1.883 | 10.5 | 19.0 |
| 10 18 | 2 4.82 | + 5 17.6 | 0.920 | 1.910 | 4.8 | 18.8 |
| 10 28 | 1 53.52 | + 5 28.3 | 0.950 | 1.938 | 4.4 | 18.9 |
| 11 7 | 1 43.60 | + 5 49.3 | 1.004 | 1.967 | 9.5 | 19.3 |
| 11 17 | 1 36.35 | + 6 22.6 | 1.081 | 1.997 | 14.5 | 19.7 |
| 11 27 | 1 32.51 | + 7 8.8 | 1.177 | 2.028 | 18.6 | 20.0 |

**385254** 2001 $FO_{188}$ 10 24.7 207°.81 0°.7/24.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 26.79 | +10 24.2 | 2.258 | 3.073 | 12.8 | 21.3 |
| 9 28 | 2 20.97 | +10 21.6 | 2.169 | 3.068 | 9.8 | 21.1 |
| 10 8 | 2 13.13 | +10 12.8 | 2.104 | 3.062 | 6.4 | 20.8 |
| 10 18 | 2 3.83 | + 9 59.5 | 2.066 | 3.056 | 2.6 | 20.6 |
| 10 28 | 1 53.90 | + 9 44.7 | 2.058 | 3.049 | 1.7 | 20.5 |
| 11 7 | 1 44.27 | + 9 31.8 | 2.081 | 3.042 | 5.5 | 20.8 |
| 11 17 | 1 35.83 | + 9 24.1 | 2.132 | 3.034 | 9.1 | 21.0 |
| 11 27 | 1 29.27 | + 9 24.8 | 2.209 | 3.025 | 12.3 | 21.2 |

**264838** 2002 $QB_{58}$ 10 24.7 113°.11 1°.9/26.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.51 | +20 43.1 | 2.599 | 3.387 | 12.1 | 20.8 |
| 9 28 | 2 15.90 | +20 31.8 | 2.521 | 3.398 | 9.5 | 20.6 |
| 10 8 | 2 9.68 | +20 8.4 | 2.466 | 3.408 | 6.6 | 20.4 |
| 10 18 | 2 2.36 | +19 33.9 | 2.438 | 3.418 | 3.6 | 20.2 |
| 10 28 | 1 54.65 | +18 50.9 | 2.439 | 3.428 | 2.0 | 20.1 |
| 11 7 | 1 47.30 | +18 3.3 | 2.471 | 3.438 | 4.2 | 20.3 |
| 11 17 | 1 40.98 | +17 15.7 | 2.531 | 3.447 | 7.2 | 20.5 |
| 11 27 | 1 36.23 | +16 32.6 | 2.617 | 3.457 | 9.9 | 20.7 |

**303176** 2004 $FJ_{26}$ 10 24.7 262°.52 2°.6/26.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.78 | +19 36.7 | 2.002 | 2.802 | 14.7 | 20.9 |
| 9 28 | 2 19.84 | +19 55.4 | 1.914 | 2.797 | 11.7 | 20.7 |
| 10 8 | 2 12.61 | +20 1.2 | 1.847 | 2.792 | 8.2 | 20.4 |
| 10 18 | 2 3.67 | +19 53.8 | 1.806 | 2.786 | 4.6 | 20.2 |
| 10 28 | 1 53.97 | +19 34.8 | 1.793 | 2.781 | 2.7 | 20.1 |
| 11 7 | 1 44.59 | +19 7.9 | 1.808 | 2.775 | 5.5 | 20.2 |
| 11 17 | 1 36.55 | +18 38.3 | 1.851 | 2.770 | 9.3 | 20.5 |
| 11 27 | 1 30.65 | +18 11.6 | 1.919 | 2.764 | 12.7 | 20.7 |

**24092** 1999 $UU_{13}$ 10 24.7 262°.78 1°.3/25.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.57 | +18 10.2 | 1.592 | 2.415 | 16.9 | 18.1 |
| 9 28 | 2 19.48 | +17 45.9 | 1.501 | 2.401 | 13.4 | 17.9 |
| 10 8 | 2 12.67 | +17 3.2 | 1.431 | 2.387 | 9.1 | 17.6 |
| 10 18 | 2 3.79 | +16 3.8 | 1.385 | 2.373 | 4.2 | 17.3 |
| 10 28 | 1 53.93 | +14 52.2 | 1.366 | 2.358 | 1.8 | 17.1 |
| 11 7 | 1 44.43 | +13 36.6 | 1.374 | 2.343 | 6.6 | 17.3 |
| 11 17 | 1 36.53 | +12 25.7 | 1.408 | 2.328 | 11.5 | 17.6 |
| 11 27 | 1 31.20 | +11 27.8 | 1.466 | 2.313 | 15.8 | 17.8 |

**381375** 2008 $FE_{39}$ 10 24.7 62°.88 2°.3/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 30.89 | + 6 47.6 | 1.341 | 2.187 | 18.2 | 20.3 |
| 9 28 | 2 24.75 | + 6 46.2 | 1.295 | 2.210 | 13.8 | 20.1 |
| 10 8 | 2 15.75 | + 6 39.7 | 1.269 | 2.234 | 8.9 | 19.9 |
| 10 18 | 2 4.87 | + 6 31.7 | 1.268 | 2.258 | 3.8 | 19.6 |
| 10 28 | 1 53.52 | + 6 26.9 | 1.294 | 2.282 | 3.4 | 19.7 |
| 11 7 | 1 43.16 | + 6 29.8 | 1.346 | 2.306 | 8.0 | 20.0 |
| 11 17 | 1 34.95 | + 6 43.3 | 1.423 | 2.330 | 12.4 | 20.3 |
| 11 27 | 1 29.61 | + 7 9.2 | 1.523 | 2.354 | 16.2 | 20.6 |

**298217** 2002 $TF_{382}$ 10 24.7 11°.89 2°.7/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.99 | + 5 30.4 | 1.453 | 2.306 | 16.7 | 19.5 |
| 9 28 | 2 20.39 | + 5 31.2 | 1.389 | 2.309 | 12.8 | 19.3 |
| 10 8 | 2 13.11 | + 5 28.5 | 1.346 | 2.312 | 8.3 | 19.0 |
| 10 18 | 2 3.90 | + 5 26.1 | 1.326 | 2.316 | 3.8 | 18.8 |
| 10 28 | 1 53.95 | + 5 28.3 | 1.333 | 2.321 | 3.7 | 18.8 |
| 11 7 | 1 44.63 | + 5 39.1 | 1.367 | 2.326 | 8.0 | 19.1 |
| 11 17 | 1 37.07 | + 6 1.3 | 1.425 | 2.333 | 12.4 | 19.3 |
| 11 27 | 1 32.13 | + 6 36.2 | 1.506 | 2.340 | 16.1 | 19.6 |

**358817** 2008 $ES_{123}$ 10 24.7 193°.89 2°.6/22.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.12 | + 6 59.9 | 2.043 | 2.882 | 13.1 | 21.6 |
| 9 28 | 2 16.72 | + 6 16.7 | 1.969 | 2.882 | 9.9 | 21.4 |
| 10 8 | 2 10.40 | + 5 27.5 | 1.917 | 2.881 | 6.4 | 21.2 |
| 10 18 | 2 2.73 | + 4 36.6 | 1.893 | 2.881 | 3.1 | 21.0 |
| 10 28 | 1 54.53 | + 3 49.3 | 1.897 | 2.880 | 3.4 | 21.0 |
| 11 7 | 1 46.73 | + 3 10.9 | 1.929 | 2.879 | 6.8 | 21.2 |
| 11 17 | 1 40.15 | + 2 45.4 | 1.988 | 2.879 | 10.3 | 21.4 |
| 11 27 | 1 35.42 | + 2 35.3 | 2.071 | 2.878 | 13.3 | 21.7 |

**79364** 1997 $EU_{4}$ 10 24.7 300°.57 1°.6/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.75 | +11 20.2 | 1.377 | 2.230 | 17.5 | 20.2 |
| 9 28 | 2 18.44 | +10 44.1 | 1.289 | 2.209 | 13.5 | 19.9 |
| 10 8 | 2 12.21 | + 9 53.8 | 1.221 | 2.189 | 8.8 | 19.5 |
| 10 18 | 2 3.68 | + 8 53.1 | 1.177 | 2.168 | 3.6 | 19.2 |
| 10 28 | 1 54.00 | + 7 49.5 | 1.158 | 2.148 | 3.0 | 19.1 |
| 11 7 | 1 44.64 | + 6 51.8 | 1.165 | 2.129 | 8.4 | 19.4 |
| 11 17 | 1 36.98 | + 6 8.2 | 1.196 | 2.109 | 13.7 | 19.6 |
| 11 27 | 1 32.09 | + 5 44.9 | 1.247 | 2.090 | 18.3 | 19.8 |

**220473** 2004 $BN_{110}$ 10 24.7 183°.64 0°.0/24.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.41 | +12 54.3 | 1.928 | 2.744 | 14.7 | 20.9 |
| 9 28 | 2 22.51 | +12 50.2 | 1.847 | 2.745 | 11.3 | 20.7 |
| 10 8 | 2 14.28 | +12 36.7 | 1.788 | 2.745 | 7.4 | 20.5 |
| 10 18 | 2 4.35 | +12 15.4 | 1.755 | 2.744 | 3.0 | 20.2 |
| 10 28 | 1 53.72 | +11 49.8 | 1.751 | 2.743 | 1.5 | 20.1 |
| 11 7 | 1 43.53 | +11 24.4 | 1.777 | 2.741 | 5.9 | 20.4 |
| 11 17 | 1 34.78 | +11 3.9 | 1.831 | 2.739 | 10.0 | 20.6 |
| 11 27 | 1 28.26 | +10 52.5 | 1.909 | 2.736 | 13.5 | 20.9 |

**302751** 2002 $VJ_{8}$ 10 24.7 346°.49 4°.0/27.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.39 | +21 1.6 | 1.547 | 2.363 | 17.7 | 20.0 |
| 9 28 | 2 19.47 | +21 39.7 | 1.467 | 2.356 | 14.3 | 19.8 |
| 10 8 | 2 12.74 | +22 2.0 | 1.406 | 2.350 | 10.3 | 19.6 |
| 10 18 | 2 3.84 | +22 6.7 | 1.368 | 2.345 | 6.2 | 19.3 |
| 10 28 | 1 53.95 | +21 54.7 | 1.355 | 2.341 | 4.1 | 19.2 |
| 11 7 | 1 44.45 | +21 30.2 | 1.369 | 2.337 | 6.8 | 19.3 |
| 11 17 | 1 36.64 | +20 59.5 | 1.408 | 2.334 | 10.9 | 19.6 |
| 11 27 | 1 31.51 | +20 30.5 | 1.470 | 2.332 | 14.9 | 19.8 |

**280569** 2004 $TH_{33}$ 10 24.7 120°.38 0°.2/24.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.73 | +16 21.5 | 1.816 | 2.637 | 15.2 | 20.9 |
| 9 28 | 2 18.17 | +15 34.1 | 1.746 | 2.646 | 11.7 | 20.7 |
| 10 8 | 2 11.41 | +14 31.8 | 1.697 | 2.656 | 7.7 | 20.5 |
| 10 18 | 2 3.14 | +13 18.1 | 1.675 | 2.664 | 3.2 | 20.3 |
| 10 28 | 1 54.35 | +11 58.9 | 1.681 | 2.673 | 1.5 | 20.2 |
| 11 7 | 1 46.12 | +10 41.9 | 1.716 | 2.681 | 6.0 | 20.5 |
| 11 17 | 1 39.36 | + 9 34.1 | 1.778 | 2.689 | 10.0 | 20.7 |
| 11 27 | 1 34.75 | + 8 40.9 | 1.864 | 2.697 | 13.5 | 21.0 |

**280137** 2002 $OE_{10}$ 10 24.7 32°.68 6°.3/29.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.53 | +29 1.3 | 1.380 | 2.176 | 20.4 | 19.9 |
| 9 28 | 2 18.11 | +29 15.2 | 1.324 | 2.192 | 16.9 | 19.7 |
| 10 8 | 2 11.75 | +29 1.6 | 1.285 | 2.210 | 12.8 | 19.5 |
| 10 18 | 2 3.34 | +28 19.1 | 1.267 | 2.229 | 8.8 | 19.4 |
| 10 28 | 1 54.27 | +27 10.9 | 1.273 | 2.249 | 6.4 | 19.3 |
| 11 7 | 1 46.02 | +25 45.4 | 1.304 | 2.269 | 7.5 | 19.4 |
| 11 17 | 1 39.80 | +24 13.6 | 1.360 | 2.290 | 10.9 | 19.7 |
| 11 27 | 1 36.40 | +22 46.7 | 1.439 | 2.312 | 14.5 | 19.9 |

**54084** 2000 $GF_{163}$ 10 24.7 70°.87 4°.7/21.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.12 | + 3 37.9 | 1.471 | 2.327 | 16.4 | 18.2 |
| 9 28 | 2 19.47 | + 2 37.2 | 1.420 | 2.340 | 12.4 | 17.9 |
| 10 8 | 2 12.33 | + 1 32.6 | 1.390 | 2.354 | 8.3 | 17.7 |
| 10 18 | 2 3.51 | + 0 31.3 | 1.385 | 2.368 | 5.0 | 17.6 |
| 10 28 | 1 54.19 | − 0 18.6 | 1.406 | 2.382 | 5.8 | 17.7 |
| 11 7 | 1 45.62 | − 0 50.8 | 1.453 | 2.396 | 9.4 | 17.9 |
| 11 17 | 1 38.80 | − 1 2.1 | 1.525 | 2.410 | 13.2 | 18.2 |
| 11 27 | 1 34.44 | − 0 51.9 | 1.618 | 2.424 | 16.5 | 18.5 |

**409656** 2005 $YH_{63}$ 10 24.7 124°.71 4°.0/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.08 | + 0 43.4 | 2.370 | 3.208 | 11.5 | 21.2 |
| 9 28 | 2 16.35 | + 0 0.4 | 2.304 | 3.215 | 8.8 | 21.0 |
| 10 8 | 2 9.98 | − 0 43.2 | 2.263 | 3.221 | 6.1 | 20.9 |
| 10 18 | 2 2.51 | − 1 22.8 | 2.250 | 3.227 | 4.1 | 20.8 |
| 10 28 | 1 54.66 | − 1 53.9 | 2.265 | 3.233 | 4.7 | 20.8 |
| 11 7 | 1 47.20 | − 2 13.0 | 2.309 | 3.239 | 7.1 | 21.0 |
| 11 17 | 1 40.81 | − 2 17.7 | 2.379 | 3.245 | 9.9 | 21.2 |
| 11 27 | 1 36.04 | − 2 7.3 | 2.474 | 3.250 | 12.3 | 21.4 |

**219104** 1998 $SN_{41}$ 10 24.7 336°.93 4°.1/27.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.58 | +23 20.2 | 2.121 | 2.903 | 14.6 | 20.1 |
| 9 28 | 2 19.65 | +23 58.0 | 2.033 | 2.900 | 11.9 | 19.9 |
| 10 8 | 2 12.49 | +24 22.2 | 1.967 | 2.897 | 8.8 | 19.7 |
| 10 18 | 2 3.66 | +24 31.3 | 1.925 | 2.894 | 5.7 | 19.5 |
| 10 28 | 1 54.07 | +24 25.4 | 1.912 | 2.891 | 4.1 | 19.4 |
| 11 7 | 1 44.76 | +24 7.5 | 1.926 | 2.888 | 5.8 | 19.5 |
| 11 17 | 1 36.74 | +23 42.0 | 1.968 | 2.886 | 8.9 | 19.7 |
| 11 27 | 1 30.80 | +23 15.0 | 2.036 | 2.884 | 11.9 | 19.9 |

**207310** 2005 $GZ_{77}$ 10 24.7 190°.91 5°.0/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.31 | − 1 9.6 | 2.357 | 3.195 | 11.6 | 20.6 |
| 9 28 | 2 16.59 | − 2 24.9 | 2.286 | 3.194 | 9.0 | 20.4 |
| 10 8 | 2 10.19 | − 3 40.7 | 2.240 | 3.192 | 6.5 | 20.3 |
| 10 18 | 2 2.62 | − 4 51.5 | 2.221 | 3.190 | 5.0 | 20.2 |
| 10 28 | 1 54.61 | − 5 51.0 | 2.232 | 3.187 | 5.9 | 20.2 |
| 11 7 | 1 46.96 | − 6 34.6 | 2.271 | 3.183 | 8.3 | 20.4 |
| 11 17 | 1 40.36 | − 6 59.4 | 2.337 | 3.179 | 10.9 | 20.5 |
| 11 27 | 1 35.39 | − 7 4.7 | 2.425 | 3.175 | 13.3 | 20.7 |

**376965** 2002 $JY_{54}$ 10 24.7 97°.64 1°.9/23.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.70 | + 9 4.8 | 1.532 | 2.368 | 16.8 | 21.1 |
| 9 28 | 2 23.62 | + 8 41.2 | 1.479 | 2.390 | 12.8 | 20.9 |
| 10 8 | 2 14.95 | + 8 9.7 | 1.448 | 2.411 | 8.2 | 20.7 |
| 10 18 | 2 4.57 | + 7 34.3 | 1.441 | 2.431 | 3.4 | 20.5 |
| 10 28 | 1 53.71 | + 7 0.8 | 1.463 | 2.452 | 2.9 | 20.5 |
| 11 7 | 1 43.69 | + 6 34.8 | 1.512 | 2.471 | 7.4 | 20.8 |
| 11 17 | 1 35.56 | + 6 20.6 | 1.588 | 2.490 | 11.6 | 21.1 |
| 11 27 | 1 30.03 | + 6 21.1 | 1.686 | 2.509 | 15.2 | 21.4 |

**172424** 2003 $OU_{17}$ 10 24.7 85°.50 1°.2/23.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.95 | +10 52.7 | 1.365 | 2.205 | 18.3 | 20.9 |
| 9 28 | 2 24.08 | +10 32.9 | 1.315 | 2.228 | 13.9 | 20.7 |
| 10 8 | 2 15.36 | +10 2.6 | 1.286 | 2.250 | 8.9 | 20.5 |
| 10 18 | 2 4.75 | + 9 25.8 | 1.281 | 2.271 | 3.6 | 20.3 |
| 10 28 | 1 53.63 | + 8 48.6 | 1.302 | 2.293 | 2.5 | 20.3 |
| 11 7 | 1 43.46 | + 8 17.6 | 1.351 | 2.314 | 7.6 | 20.6 |
| 11 17 | 1 35.38 | + 7 58.0 | 1.424 | 2.334 | 12.2 | 20.9 |
| 11 27 | 1 30.15 | + 7 53.3 | 1.520 | 2.355 | 16.0 | 21.2 |

**364125** 2006 $BM_{84}$ 10 24.7 64°.45 10°.1/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.23 | −18 5.3 | 2.172 | 2.996 | 12.9 | 20.0 |
| 9 28 | 2 15.87 | −19 38.4 | 2.135 | 3.004 | 11.3 | 19.9 |
| 10 8 | 2 9.72 | −20 58.2 | 2.121 | 3.012 | 10.3 | 19.9 |
| 10 18 | 2 2.41 | −21 57.3 | 2.131 | 3.020 | 10.2 | 19.9 |
| 10 28 | 1 54.75 | −22 30.1 | 2.166 | 3.028 | 11.1 | 20.0 |
| 11 7 | 1 47.59 | −22 34.5 | 2.224 | 3.037 | 12.5 | 20.1 |
| 11 17 | 1 41.65 | −22 11.1 | 2.302 | 3.045 | 14.2 | 20.2 |
| 11 27 | 1 37.48 | −21 22.9 | 2.399 | 3.053 | 15.7 | 20.4 |

**249744** 2000 $SR_{233}$ 10 24.7 57°.23 7°.2/20.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.95 | + 1 21.0 | 1.107 | 1.980 | 19.3 | 19.4 |
| 9 28 | 2 20.52 | − 0 16.9 | 1.075 | 2.003 | 14.7 | 19.2 |
| 10 8 | 2 13.12 | − 1 55.4 | 1.063 | 2.027 | 10.2 | 19.0 |
| 10 18 | 2 3.82 | − 3 22.9 | 1.073 | 2.051 | 7.3 | 18.9 |
| 10 28 | 1 54.13 | − 4 28.1 | 1.108 | 2.076 | 8.5 | 19.1 |
| 11 7 | 1 45.56 | − 5 4.0 | 1.167 | 2.100 | 12.2 | 19.4 |
| 11 17 | 1 39.23 | − 5 8.9 | 1.247 | 2.125 | 16.0 | 19.7 |
| 11 27 | 1 35.80 | − 4 45.3 | 1.345 | 2.150 | 19.3 | 20.0 |

**152357** 2005 $UE_{125}$ 10 24.7 142°.87 0°.3/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.24 | +14 46.6 | 1.943 | 2.758 | 14.6 | 21.2 |
| 9 28 | 2 20.73 | +14 28.4 | 1.871 | 2.768 | 11.3 | 21.0 |
| 10 8 | 2 13.03 | +13 58.8 | 1.821 | 2.777 | 7.4 | 20.8 |
| 10 18 | 2 3.82 | +13 19.8 | 1.797 | 2.786 | 3.1 | 20.5 |
| 10 28 | 1 54.07 | +12 35.8 | 1.802 | 2.794 | 1.4 | 20.4 |
| 11 7 | 1 44.83 | +11 52.0 | 1.837 | 2.802 | 5.7 | 20.7 |
| 11 17 | 1 37.03 | +11 13.9 | 1.899 | 2.809 | 9.6 | 21.0 |
| 11 27 | 1 31.38 | +10 45.9 | 1.986 | 2.816 | 13.0 | 21.2 |

**129724** 1998 $VV_{33}$ 10 24.7 304°.67 0°.7/24.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.32 | +11 28.3 | 2.128 | 2.957 | 13.0 | 20.3 |
| 9 28 | 2 16.23 | +11 11.3 | 2.036 | 2.943 | 10.0 | 20.0 |
| 10 8 | 2 10.20 | +10 45.9 | 1.967 | 2.929 | 6.5 | 19.8 |
| 10 18 | 2 2.71 | +10 14.7 | 1.925 | 2.915 | 2.6 | 19.5 |
| 10 28 | 1 54.58 | + 9 41.3 | 1.910 | 2.901 | 1.7 | 19.4 |
| 11 7 | 1 46.71 | + 9 10.3 | 1.925 | 2.888 | 5.7 | 19.7 |
| 11 17 | 1 39.95 | + 8 46.2 | 1.967 | 2.875 | 9.4 | 19.9 |
| 11 27 | 1 35.01 | + 8 32.5 | 2.033 | 2.862 | 12.8 | 20.1 |

**329865** 2004 $XT_{61}$ 10 24.7 312°.51 4°.7/21.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.79 | − 0 25.8 | 2.031 | 2.876 | 12.9 | 20.3 |
| 9 28 | 2 17.34 | − 0 58.0 | 1.950 | 2.863 | 10.0 | 20.1 |
| 10 8 | 2 10.89 | − 1 29.8 | 1.893 | 2.850 | 7.0 | 19.9 |
| 10 18 | 2 2.99 | − 1 56.6 | 1.861 | 2.838 | 4.8 | 19.7 |
| 10 28 | 1 54.46 | − 2 13.2 | 1.857 | 2.826 | 5.5 | 19.7 |
| 11 7 | 1 46.26 | − 2 15.5 | 1.881 | 2.814 | 8.3 | 19.9 |
| 11 17 | 1 39.25 | − 2 1.5 | 1.930 | 2.803 | 11.5 | 20.1 |
| 11 27 | 1 34.13 | − 1 30.7 | 2.002 | 2.791 | 14.4 | 20.2 |

**398118** 2009 $WZ_{107}$ 10 24.7 183°.69 1°.9/21.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.72 | + 2 31.7 | 4.359 | 5.185 | 6.9 | 21.2 |
| 9 28 | 2 10.90 | + 2 14.5 | 4.280 | 5.185 | 5.2 | 21.1 |
| 10 8 | 2 6.22 | + 1 56.8 | 4.227 | 5.185 | 3.5 | 20.9 |
| 10 18 | 2 0.96 | + 1 40.4 | 4.203 | 5.185 | 2.1 | 20.8 |
| 10 28 | 1 55.49 | + 1 27.2 | 4.210 | 5.185 | 2.3 | 20.9 |
| 11 7 | 1 50.17 | + 1 18.9 | 4.247 | 5.185 | 3.9 | 21.0 |
| 11 17 | 1 45.37 | + 1 16.9 | 4.313 | 5.185 | 5.7 | 21.1 |
| 11 27 | 1 41.39 | + 1 22.2 | 4.406 | 5.185 | 7.3 | 21.2 |

**352359** 2007 $VP_{190}$ 10 24.7 256°.14 5°.2/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.46 | − 1 38.5 | 1.958 | 2.798 | 13.5 | 21.2 |
| 9 28 | 2 20.17 | − 2 9.8 | 1.881 | 2.790 | 10.6 | 21.0 |
| 10 8 | 2 12.73 | − 2 39.6 | 1.827 | 2.782 | 7.5 | 20.8 |
| 10 18 | 2 3.74 | − 3 2.9 | 1.799 | 2.773 | 5.3 | 20.6 |
| 10 28 | 1 54.12 | − 3 14.3 | 1.799 | 2.765 | 6.0 | 20.7 |
| 11 7 | 1 44.89 | − 3 10.1 | 1.827 | 2.756 | 8.8 | 20.8 |
| 11 17 | 1 36.98 | − 2 48.5 | 1.880 | 2.748 | 12.0 | 21.0 |
| 11 27 | 1 31.12 | − 2 9.8 | 1.957 | 2.739 | 14.9 | 21.2 |

**344938** 2004 $TG_{285}$ 10 24.7 333°.92 0°.1/24.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.19 | +13 0.3 | 2.547 | 3.370 | 11.3 | 21.4 |
| 9 28 | 2 13.52 | +12 46.7 | 2.456 | 3.359 | 8.7 | 21.2 |
| 10 8 | 2 8.27 | +12 25.3 | 2.388 | 3.348 | 5.7 | 21.0 |
| 10 18 | 2 1.89 | +11 58.0 | 2.347 | 3.337 | 2.3 | 20.7 |
| 10 28 | 1 55.02 | +11 27.9 | 2.335 | 3.327 | 1.2 | 20.6 |
| 11 7 | 1 48.37 | +10 58.5 | 2.353 | 3.318 | 4.6 | 20.9 |
| 11 17 | 1 42.63 | +10 33.5 | 2.398 | 3.309 | 7.9 | 21.1 |
| 11 27 | 1 38.36 | +10 16.2 | 2.469 | 3.300 | 10.7 | 21.2 |

**468696** 2009 $VF_{12}$ 10 24.7 23°.85 2°.4/26.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.29 | +19 55.9 | 0.973 | 1.834 | 22.4 | 19.9 |
| 9 28 | 2 16.25 | +19 38.2 | 0.929 | 1.848 | 17.5 | 19.7 |
| 10 8 | 2 10.82 | +18 54.4 | 0.901 | 1.863 | 11.9 | 19.4 |
| 10 18 | 2 3.03 | +17 47.8 | 0.893 | 1.881 | 5.9 | 19.2 |
| 10 28 | 1 54.53 | +16 27.1 | 0.908 | 1.900 | 2.6 | 19.1 |
| 11 7 | 1 47.04 | +15 4.5 | 0.946 | 1.920 | 7.7 | 19.4 |
| 11 17 | 1 41.90 | +13 51.7 | 1.005 | 1.942 | 13.1 | 19.8 |
| 11 27 | 1 39.92 | +12 57.7 | 1.085 | 1.965 | 17.6 | 20.2 |

**57201** 2001 $QL_{52}$ 10 24.7 356°.80 3°.2/27.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.83 | +21 22.2 | 1.784 | 2.589 | 16.1 | 18.6 |
| 9 28 | 2 18.60 | +21 36.6 | 1.703 | 2.588 | 12.9 | 18.4 |
| 10 8 | 2 11.94 | +21 35.0 | 1.644 | 2.587 | 9.2 | 18.2 |
| 10 18 | 2 3.48 | +21 17.1 | 1.608 | 2.586 | 5.3 | 17.9 |
| 10 28 | 1 54.26 | +20 44.8 | 1.599 | 2.586 | 3.3 | 17.8 |
| 11 7 | 1 45.46 | +20 3.2 | 1.617 | 2.586 | 5.9 | 18.0 |
| 11 17 | 1 38.15 | +19 18.5 | 1.663 | 2.586 | 9.8 | 18.2 |
| 11 27 | 1 33.16 | +18 37.8 | 1.732 | 2.587 | 13.4 | 18.4 |

**103738** 2000 $CA_{110}$ 10 24.7 109°.07 1°.7/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.11 | + 9 57.6 | 1.916 | 2.751 | 14.0 | 20.5 |
| 9 28 | 2 17.59 | + 9 17.5 | 1.846 | 2.757 | 10.6 | 20.3 |
| 10 8 | 2 11.01 | + 8 28.8 | 1.799 | 2.763 | 6.8 | 20.1 |
| 10 18 | 2 3.02 | + 7 35.8 | 1.779 | 2.769 | 2.9 | 19.9 |
| 10 28 | 1 54.52 | + 6 43.7 | 1.787 | 2.775 | 2.6 | 19.9 |
| 11 7 | 1 46.50 | + 5 58.4 | 1.823 | 2.780 | 6.5 | 20.1 |
| 11 17 | 1 39.81 | + 5 24.7 | 1.886 | 2.786 | 10.2 | 20.4 |
| 11 27 | 1 35.12 | + 5 5.6 | 1.973 | 2.792 | 13.5 | 20.6 |

**266603** 2008 $JC_{37}$ 10 24.7 128°.08 1°.2/23.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.29 | +11 10.1 | 1.776 | 2.605 | 15.2 | 21.6 |
| 9 28 | 2 20.88 | +10 38.3 | 1.710 | 2.617 | 11.6 | 21.4 |
| 10 8 | 2 13.18 | + 9 56.9 | 1.667 | 2.629 | 7.4 | 21.1 |
| 10 18 | 2 3.91 | + 9 9.5 | 1.650 | 2.640 | 3.0 | 20.9 |
| 10 28 | 1 54.11 | + 8 21.5 | 1.661 | 2.651 | 2.3 | 20.9 |
| 11 7 | 1 44.91 | + 7 39.0 | 1.701 | 2.661 | 6.6 | 21.2 |
| 11 17 | 1 37.27 | + 7 6.9 | 1.767 | 2.671 | 10.6 | 21.4 |
| 11 27 | 1 31.88 | + 6 48.9 | 1.858 | 2.680 | 14.0 | 21.7 |

**338856** 2003 $YJ_{25}$ 10 24.7 328°.49 4°.7/27.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.88 | +23 23.5 | 1.410 | 2.231 | 18.8 | 19.9 |
| 9 28 | 2 16.45 | +23 43.9 | 1.318 | 2.209 | 15.4 | 19.7 |
| 10 8 | 2 11.08 | +23 43.4 | 1.244 | 2.188 | 11.4 | 19.4 |
| 10 18 | 2 3.32 | +23 19.6 | 1.192 | 2.168 | 7.1 | 19.1 |
| 10 28 | 1 54.32 | +22 33.9 | 1.163 | 2.148 | 4.7 | 18.9 |
| 11 7 | 1 45.59 | +21 32.1 | 1.160 | 2.130 | 7.3 | 19.0 |
| 11 17 | 1 38.56 | +20 23.6 | 1.180 | 2.113 | 11.9 | 19.2 |
| 11 27 | 1 34.38 | +19 18.9 | 1.222 | 2.097 | 16.4 | 19.4 |

**45118** 1999 $XZ_{85}$ 10 24.7 199°.18 3°.4/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.07 | + 2 14.5 | 2.525 | 3.361 | 11.0 | 19.0 |
| 9 28 | 2 15.58 | + 1 31.0 | 2.450 | 3.360 | 8.4 | 18.9 |
| 10 8 | 2 9.53 | + 0 45.8 | 2.399 | 3.358 | 5.7 | 18.7 |
| 10 18 | 2 2.39 | + 0 2.8 | 2.375 | 3.356 | 3.6 | 18.6 |
| 10 28 | 1 54.85 | − 0 33.6 | 2.381 | 3.353 | 4.2 | 18.6 |
| 11 7 | 1 47.61 | − 0 59.5 | 2.416 | 3.351 | 6.6 | 18.7 |
| 11 17 | 1 41.33 | − 1 12.4 | 2.479 | 3.348 | 9.4 | 18.9 |
| 11 27 | 1 36.56 | − 1 10.9 | 2.565 | 3.345 | 11.8 | 19.1 |

**22865** Amymoffett 10 24.7 114°.33 1°.6/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.24 | + 8 30.1 | 2.324 | 3.151 | 12.1 | 19.1 |
| 9 28 | 2 17.28 | + 8 2.0 | 2.256 | 3.163 | 9.2 | 18.9 |
| 10 8 | 2 10.63 | + 7 28.4 | 2.212 | 3.174 | 5.8 | 18.7 |
| 10 18 | 2 2.83 | + 6 52.5 | 2.196 | 3.185 | 2.5 | 18.5 |
| 10 28 | 1 54.65 | + 6 18.2 | 2.209 | 3.197 | 2.4 | 18.5 |
| 11 7 | 1 46.88 | + 5 49.6 | 2.252 | 3.207 | 5.6 | 18.7 |
| 11 17 | 1 40.24 | + 5 29.9 | 2.323 | 3.218 | 8.8 | 19.0 |
| 11 27 | 1 35.28 | + 5 21.6 | 2.418 | 3.228 | 11.6 | 19.2 |

**377005** 2002 $QO_{87}$ 10 24.7 336°.40 0°.7/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.47 | +14 42.2 | 1.158 | 2.017 | 19.6 | 20.9 |
| 9 28 | 2 17.91 | +14 40.8 | 1.083 | 2.004 | 15.4 | 20.6 |
| 10 8 | 2 12.10 | +14 23.0 | 1.027 | 1.993 | 10.3 | 20.3 |
| 10 18 | 2 3.73 | +13 50.6 | 0.991 | 1.982 | 4.5 | 20.0 |
| 10 28 | 1 54.15 | +13 8.9 | 0.979 | 1.972 | 1.9 | 19.8 |
| 11 7 | 1 45.06 | +12 25.9 | 0.991 | 1.963 | 8.0 | 20.1 |
| 11 17 | 1 37.99 | +11 50.5 | 1.026 | 1.956 | 13.7 | 20.4 |
| 11 27 | 1 34.06 | +11 30.0 | 1.081 | 1.949 | 18.6 | 20.7 |

**102852** 1999 $VG_{213}$ 10 24.7 206°.43 0°.6/25.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.02 | +16 37.3 | 1.871 | 2.685 | 15.1 | 21.2 |
| 9 28 | 2 20.08 | +16 6.6 | 1.784 | 2.680 | 11.8 | 21.0 |
| 10 8 | 2 12.81 | +15 21.1 | 1.720 | 2.675 | 7.8 | 20.8 |
| 10 18 | 2 3.84 | +14 23.0 | 1.681 | 2.669 | 3.4 | 20.5 |
| 10 28 | 1 54.15 | +13 17.2 | 1.670 | 2.663 | 1.4 | 20.3 |
| 11 7 | 1 44.86 | +12 10.2 | 1.689 | 2.656 | 5.9 | 20.6 |
| 11 17 | 1 37.00 | +11 9.2 | 1.735 | 2.648 | 10.2 | 20.9 |
| 11 27 | 1 31.35 | +10 20.2 | 1.806 | 2.639 | 13.9 | 21.1 |

**235818** 2004 $XB_{89}$ 10 24.7 117°.42 4°.3/28.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.60 | +26 14.7 | 1.956 | 2.729 | 16.0 | 20.5 |
| 9 28 | 2 20.45 | +26 20.6 | 1.881 | 2.741 | 13.0 | 20.3 |
| 10 8 | 2 12.97 | +26 7.5 | 1.828 | 2.753 | 9.7 | 20.1 |
| 10 18 | 2 3.87 | +25 34.7 | 1.798 | 2.764 | 6.3 | 20.0 |
| 10 28 | 1 54.16 | +24 44.2 | 1.796 | 2.775 | 4.3 | 19.9 |
| 11 7 | 1 45.00 | +23 41.5 | 1.822 | 2.786 | 5.9 | 20.0 |
| 11 17 | 1 37.37 | +22 33.7 | 1.876 | 2.796 | 9.1 | 20.2 |
| 11 27 | 1 32.00 | +21 28.6 | 1.955 | 2.806 | 12.3 | 20.4 |

**318389** 2004 $XM_{36}$ 10 24.7 201°.60 2°.2/27.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.84 | +22 11.4 | 2.507 | 3.292 | 12.5 | 20.7 |
| 9 28 | 2 15.59 | +21 53.4 | 2.417 | 3.291 | 10.0 | 20.5 |
| 10 8 | 2 9.64 | +21 21.5 | 2.350 | 3.289 | 7.1 | 20.4 |
| 10 18 | 2 2.48 | +20 36.5 | 2.310 | 3.288 | 4.0 | 20.2 |
| 10 28 | 1 54.84 | +19 41.2 | 2.298 | 3.286 | 2.3 | 20.0 |
| 11 7 | 1 47.51 | +18 39.9 | 2.316 | 3.284 | 4.4 | 20.2 |
| 11 17 | 1 41.22 | +17 38.1 | 2.363 | 3.282 | 7.5 | 20.4 |
| 11 27 | 1 36.55 | +16 41.0 | 2.436 | 3.279 | 10.4 | 20.6 |

**224231** 2005 $SM_{72}$ 10 24.7 31°.22 1°.7/23.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.61 | +10 42.7 | 1.151 | 2.015 | 19.4 | 20.2 |
| 9 28 | 2 19.04 | +10 15.3 | 1.101 | 2.027 | 14.8 | 20.0 |
| 10 8 | 2 12.42 | + 9 35.7 | 1.071 | 2.040 | 9.4 | 19.7 |
| 10 18 | 2 3.69 | + 8 49.2 | 1.063 | 2.054 | 3.8 | 19.5 |
| 10 28 | 1 54.29 | + 8 3.5 | 1.079 | 2.069 | 3.0 | 19.5 |
| 11 7 | 1 45.78 | + 7 26.7 | 1.119 | 2.085 | 8.4 | 19.8 |
| 11 17 | 1 39.39 | + 7 4.9 | 1.183 | 2.102 | 13.3 | 20.2 |
| 11 27 | 1 35.93 | + 7 1.6 | 1.267 | 2.119 | 17.5 | 20.5 |

**451606** 2012 $DR_{13}$ 10 24.7 180°.38 2°.0/26.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.28 | +20 4.6 | 2.668 | 3.454 | 11.8 | 21.8 |
| 9 28 | 2 17.34 | +20 8.7 | 2.579 | 3.454 | 9.4 | 21.7 |
| 10 8 | 2 10.72 | +20 2.0 | 2.514 | 3.455 | 6.6 | 21.5 |
| 10 18 | 2 2.92 | +19 44.7 | 2.476 | 3.455 | 3.6 | 21.3 |
| 10 28 | 1 54.63 | +19 18.8 | 2.467 | 3.455 | 2.1 | 21.2 |
| 11 7 | 1 46.61 | +18 47.3 | 2.488 | 3.454 | 4.3 | 21.4 |
| 11 17 | 1 39.59 | +18 14.3 | 2.538 | 3.454 | 7.2 | 21.5 |
| 11 27 | 1 34.14 | +17 43.9 | 2.615 | 3.453 | 10.0 | 21.7 |

**518270** 2016 $WY_{56}$ 10 24.7 262°.49 5°.1/20.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.47 | + 1 44.9 | 1.852 | 2.703 | 13.7 | 21.4 |
| 9 28 | 2 16.48 | + 0 26.7 | 1.779 | 2.697 | 10.6 | 21.2 |
| 10 8 | 2 10.40 | − 0 55.3 | 1.730 | 2.691 | 7.3 | 21.0 |
| 10 18 | 2 2.84 | − 2 14.3 | 1.707 | 2.684 | 5.2 | 20.8 |
| 10 28 | 1 54.68 | − 3 22.2 | 1.712 | 2.678 | 6.2 | 20.9 |
| 11 7 | 1 46.93 | − 4 12.6 | 1.744 | 2.672 | 9.2 | 21.1 |
| 11 17 | 1 40.47 | − 4 41.5 | 1.800 | 2.665 | 12.5 | 21.3 |
| 11 27 | 1 36.01 | − 4 47.4 | 1.878 | 2.659 | 15.5 | 21.4 |

**487962** 2015 $TH_{296}$ 10 24.7 303°.56 1°.0/25.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.85 | +14 52.1 | 1.984 | 2.800 | 14.3 | 21.5 |
| 9 28 | 2 19.87 | +15 6.0 | 1.899 | 2.795 | 11.2 | 21.3 |
| 10 8 | 2 12.65 | +15 10.4 | 1.836 | 2.791 | 7.5 | 21.1 |
| 10 18 | 2 3.79 | +15 6.0 | 1.800 | 2.787 | 3.4 | 20.8 |
| 10 28 | 1 54.21 | +14 54.9 | 1.791 | 2.783 | 1.5 | 20.7 |
| 11 7 | 1 44.96 | +14 40.9 | 1.811 | 2.779 | 5.5 | 21.0 |
| 11 17 | 1 37.03 | +14 28.2 | 1.859 | 2.775 | 9.4 | 21.2 |
| 11 27 | 1 31.19 | +14 20.9 | 1.932 | 2.771 | 12.9 | 21.4 |

**513552** 2010 $NN_{66}$ 10 24.7 90°.64 4°.7/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.23 | + 0 20.5 | 2.013 | 2.855 | 13.1 | 21.3 |
| 9 28 | 2 18.14 | − 0 36.7 | 1.963 | 2.875 | 10.0 | 21.1 |
| 10 8 | 2 11.21 | − 1 33.8 | 1.937 | 2.894 | 6.9 | 21.0 |
| 10 18 | 2 3.07 | − 2 25.2 | 1.937 | 2.913 | 4.9 | 20.9 |
| 10 28 | 1 54.61 | − 3 5.2 | 1.966 | 2.932 | 5.6 | 21.0 |
| 11 7 | 1 46.72 | − 3 29.6 | 2.023 | 2.951 | 8.2 | 21.2 |
| 11 17 | 1 40.15 | − 3 36.5 | 2.106 | 2.969 | 11.1 | 21.4 |
| 11 27 | 1 35.46 | − 3 25.5 | 2.211 | 2.987 | 13.6 | 21.6 |

**351453** 2005 $KY_{10}$ 10 24.7 102°.05 5°.3/30.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.81 | +30 38.5 | 2.090 | 2.839 | 15.8 | 20.8 |
| 9 28 | 2 19.00 | +30 38.0 | 2.014 | 2.852 | 13.2 | 20.7 |
| 10 8 | 2 11.99 | +30 16.3 | 1.958 | 2.865 | 10.2 | 20.5 |
| 10 18 | 2 3.47 | +29 32.3 | 1.926 | 2.878 | 7.2 | 20.3 |
| 10 28 | 1 54.41 | +28 28.1 | 1.922 | 2.890 | 5.4 | 20.3 |
| 11 7 | 1 45.89 | +27 9.1 | 1.945 | 2.903 | 6.1 | 20.3 |
| 11 17 | 1 38.85 | +25 42.8 | 1.996 | 2.915 | 8.7 | 20.5 |
| 11 27 | 1 33.95 | +24 17.6 | 2.073 | 2.926 | 11.6 | 20.7 |

**190196** 2005 $XE_{27}$ 10 24.7 35°.96 1°.8/23.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.21 | + 9 37.6 | 1.190 | 2.051 | 19.1 | 19.1 |
| 9 28 | 2 20.11 | + 9 18.4 | 1.143 | 2.067 | 14.5 | 18.9 |
| 10 8 | 2 13.03 | + 8 49.2 | 1.116 | 2.085 | 9.3 | 18.7 |
| 10 18 | 2 3.93 | + 8 15.0 | 1.112 | 2.103 | 3.8 | 18.4 |
| 10 28 | 1 54.23 | + 7 42.5 | 1.132 | 2.122 | 3.1 | 18.4 |
| 11 7 | 1 45.46 | + 7 18.6 | 1.177 | 2.141 | 8.2 | 18.8 |
| 11 17 | 1 38.80 | + 7 8.2 | 1.246 | 2.162 | 13.0 | 19.1 |
| 11 27 | 1 35.03 | + 7 14.3 | 1.335 | 2.183 | 17.0 | 19.4 |

**315224** 2007 $RR_{154}$ 10 24.7 330°.72 1°.0/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 13.20 | + 8 38.1 | 4.077 | 4.899 | 7.4 | 20.9 |
| 9 28 | 2 9.87 | + 8 11.5 | 3.992 | 4.896 | 5.6 | 20.8 |
| 10 8 | 2 5.64 | + 7 41.4 | 3.932 | 4.894 | 3.6 | 20.7 |
| 10 18 | 2 0.80 | + 7 9.8 | 3.901 | 4.891 | 1.5 | 20.5 |
| 10 28 | 1 55.71 | + 6 38.9 | 3.901 | 4.888 | 1.5 | 20.5 |
| 11 7 | 1 50.77 | + 6 11.0 | 3.931 | 4.886 | 3.5 | 20.7 |
| 11 17 | 1 46.37 | + 5 48.0 | 3.991 | 4.883 | 5.5 | 20.8 |
| 11 27 | 1 42.83 | + 5 31.9 | 4.077 | 4.881 | 7.4 | 20.9 |

**132355** 2002 $GH_{57}$ 10 24.7 131°.23 3°.0/27.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 24.38 | +23 31.1 | 2.027 | 2.812 | 15.1 | 20.2 |
| 9 28 | 2 19.37 | +23 15.6 | 1.951 | 2.823 | 12.1 | 20.0 |
| 10 8 | 2 12.21 | +22 42.5 | 1.897 | 2.833 | 8.6 | 19.8 |
| 10 18 | 2 3.56 | +21 52.4 | 1.868 | 2.843 | 5.0 | 19.6 |
| 10 28 | 1 54.38 | +20 48.7 | 1.867 | 2.853 | 3.0 | 19.5 |
| 11 7 | 1 45.72 | +19 37.4 | 1.895 | 2.862 | 5.3 | 19.7 |
| 11 17 | 1 38.48 | +18 25.4 | 1.951 | 2.871 | 8.8 | 19.9 |
| 11 27 | 1 33.34 | +17 19.8 | 2.033 | 2.879 | 12.0 | 20.2 |

**405743** 2005 $YV_{67}$ 10 24.7 221°.88 3°.9/28.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.84 | +26 9.7 | 2.382 | 3.148 | 13.6 | 21.1 |
| 9 28 | 2 17.33 | +26 17.1 | 2.291 | 3.146 | 11.2 | 20.9 |
| 10 8 | 2 10.89 | +26 8.6 | 2.221 | 3.143 | 8.4 | 20.7 |
| 10 18 | 2 3.05 | +25 43.8 | 2.177 | 3.141 | 5.5 | 20.5 |
| 10 28 | 1 54.61 | +25 4.0 | 2.160 | 3.138 | 3.9 | 20.4 |
| 11 7 | 1 46.48 | +24 12.9 | 2.173 | 3.135 | 5.2 | 20.5 |
| 11 17 | 1 39.50 | +23 16.1 | 2.213 | 3.132 | 8.0 | 20.7 |
| 11 27 | 1 34.35 | +22 19.7 | 2.280 | 3.129 | 10.8 | 20.8 |

**73478** 2002 $PX_{14}$ 10 24.7 68°.99 2°.7/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.88 | + 5 38.5 | 2.231 | 3.070 | 12.1 | 19.9 |
| 9 28 | 2 15.57 | + 4 55.2 | 2.167 | 3.080 | 9.2 | 19.7 |
| 10 8 | 2 9.58 | + 4 7.9 | 2.128 | 3.091 | 5.9 | 19.6 |
| 10 18 | 2 2.45 | + 3 20.7 | 2.115 | 3.101 | 3.1 | 19.4 |
| 10 28 | 1 54.94 | + 2 38.5 | 2.131 | 3.112 | 3.5 | 19.4 |
| 11 7 | 1 47.84 | + 2 5.6 | 2.175 | 3.122 | 6.4 | 19.7 |
| 11 17 | 1 41.86 | + 1 45.2 | 2.247 | 3.133 | 9.5 | 19.9 |
| 11 27 | 1 37.55 | + 1 39.1 | 2.343 | 3.143 | 12.2 | 20.1 |

**94989** 2001 $YJ_{120}$ 10 24.7 0°.97 1°.9/23.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.18 | +10 30.8 | 1.056 | 1.927 | 20.3 | 19.2 |
| 9 28 | 2 19.23 | +10 5.2 | 0.996 | 1.925 | 15.6 | 18.9 |
| 10 8 | 2 12.89 | + 9 25.9 | 0.953 | 1.924 | 10.1 | 18.6 |
| 10 18 | 2 4.04 | + 8 38.4 | 0.932 | 1.924 | 4.1 | 18.2 |
| 10 28 | 1 54.16 | + 7 50.7 | 0.934 | 1.924 | 3.4 | 18.2 |
| 11 7 | 1 45.03 | + 7 12.1 | 0.959 | 1.926 | 9.2 | 18.5 |
| 11 17 | 1 38.14 | + 6 50.1 | 1.007 | 1.929 | 14.7 | 18.9 |
| 11 27 | 1 34.49 | + 6 49.0 | 1.073 | 1.932 | 19.4 | 19.2 |

**254527** 2005 $ES_{120}$ 10 24.8 263°.65 3°.8/27.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.73 | +22 15.3 | 1.510 | 2.319 | 18.3 | 20.8 |
| 9 28 | 2 21.46 | +22 25.8 | 1.422 | 2.308 | 14.8 | 20.5 |
| 10 8 | 2 14.20 | +22 16.5 | 1.353 | 2.297 | 10.7 | 20.2 |
| 10 18 | 2 4.59 | +21 46.2 | 1.308 | 2.286 | 6.3 | 20.0 |
| 10 28 | 1 53.86 | +20 56.7 | 1.287 | 2.275 | 3.8 | 19.8 |
| 11 7 | 1 43.51 | +19 54.5 | 1.294 | 2.263 | 6.9 | 19.9 |
| 11 17 | 1 34.94 | +18 48.6 | 1.326 | 2.251 | 11.6 | 20.2 |
| 11 27 | 1 29.22 | +17 48.6 | 1.381 | 2.240 | 15.9 | 20.4 |

**494558** 2017 $BQ_{8}$ 10 24.8 163°.08 1°.6/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.41 | + 7 28.3 | 2.505 | 3.330 | 11.4 | 20.7 |
| 9 28 | 2 17.40 | + 7 13.4 | 2.427 | 3.332 | 8.7 | 20.5 |
| 10 8 | 2 10.74 | + 6 54.4 | 2.373 | 3.334 | 5.6 | 20.3 |
| 10 18 | 2 2.94 | + 6 33.8 | 2.347 | 3.336 | 2.5 | 20.1 |
| 10 28 | 1 54.71 | + 6 14.8 | 2.350 | 3.337 | 2.3 | 20.1 |
| 11 7 | 1 46.79 | + 6 0.7 | 2.384 | 3.339 | 5.4 | 20.3 |
| 11 17 | 1 39.90 | + 5 54.1 | 2.446 | 3.340 | 8.5 | 20.5 |
| 11 27 | 1 34.58 | + 5 57.3 | 2.533 | 3.341 | 11.2 | 20.7 |

**139733** 2001 $QG_{257}$ 10 24.8 34°.34 6°.0/20.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.02 | + 0 58.3 | 1.431 | 2.298 | 16.1 | 19.5 |
| 9 28 | 2 16.39 | − 0 19.8 | 1.389 | 2.314 | 12.3 | 19.3 |
| 10 8 | 2 10.38 | − 1 38.6 | 1.369 | 2.332 | 8.5 | 19.1 |
| 10 18 | 2 2.81 | − 2 49.6 | 1.373 | 2.351 | 6.1 | 19.0 |
| 10 28 | 1 54.82 | − 3 44.1 | 1.403 | 2.370 | 7.1 | 19.1 |
| 11 7 | 1 47.56 | − 4 16.4 | 1.457 | 2.390 | 10.3 | 19.4 |
| 11 17 | 1 41.98 | − 4 23.9 | 1.535 | 2.410 | 13.7 | 19.6 |
| 11 27 | 1 38.71 | − 4 7.5 | 1.633 | 2.431 | 16.7 | 19.9 |

**222051** 1998 $VW_{3}$ 10 24.8 357°.50 1°.0/24.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.34 | +11 10.7 | 1.097 | 1.967 | 19.7 | 20.0 |
| 9 28 | 2 17.76 | +11 3.3 | 1.034 | 1.962 | 15.2 | 19.7 |
| 10 8 | 2 11.94 | +10 43.3 | 0.989 | 1.958 | 9.9 | 19.4 |
| 10 18 | 2 3.66 | +10 14.3 | 0.965 | 1.956 | 4.0 | 19.0 |
| 10 28 | 1 54.36 | + 9 42.9 | 0.964 | 1.956 | 2.6 | 19.0 |
| 11 7 | 1 45.72 | + 9 16.8 | 0.987 | 1.957 | 8.5 | 19.3 |
| 11 17 | 1 39.18 | + 9 2.8 | 1.033 | 1.959 | 14.0 | 19.6 |
| 11 27 | 1 35.77 | + 9 5.6 | 1.097 | 1.962 | 18.6 | 19.9 |

**100949** 1998 $OJ_{14}$ 10 24.8 46°.43 2°.4/23.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.11 | + 9 30.3 | 1.114 | 1.976 | 20.0 | 19.8 |
| 9 28 | 2 21.53 | + 8 54.8 | 1.077 | 2.002 | 15.1 | 19.6 |
| 10 8 | 2 13.88 | + 8 9.1 | 1.059 | 2.028 | 9.6 | 19.4 |
| 10 18 | 2 4.25 | + 7 19.4 | 1.064 | 2.055 | 4.0 | 19.2 |
| 10 28 | 1 54.19 | + 6 33.8 | 1.094 | 2.083 | 3.6 | 19.2 |
| 11 7 | 1 45.25 | + 6 0.1 | 1.148 | 2.111 | 8.7 | 19.6 |
| 11 17 | 1 38.62 | + 5 43.3 | 1.225 | 2.139 | 13.4 | 20.0 |
| 11 27 | 1 34.96 | + 5 45.6 | 1.323 | 2.167 | 17.4 | 20.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **296710** 2009 $SX_{323}$ | | | 10 24.8 357.°55 | | 4.°0/21.7 18 | |
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 17.67 | + 4 39.6 | 1.571 | 2.434 | 15.2 | 19.8 |
| 9 28 | 2 14.69 | + 3 50.9 | 1.504 | 2.430 | 11.6 | 19.5 |
| 10 8 | 2 9.41 | + 2 56.9 | 1.459 | 2.427 | 7.6 | 19.3 |
| 10 18 | 2 2.50 | + 2 3.7 | 1.439 | 2.425 | 4.4 | 19.1 |
| 10 28 | 1 54.95 | + 1 18.5 | 1.444 | 2.424 | 5.0 | 19.1 |
| 11 7 | 1 47.87 | + 0 47.7 | 1.475 | 2.424 | 8.7 | 19.4 |
| 11 17 | 1 42.25 | + 0 35.3 | 1.530 | 2.425 | 12.5 | 19.6 |
| 11 27 | 1 38.81 | + 0 43.0 | 1.607 | 2.427 | 15.9 | 19.8 |
| **298588** 2003 $YF_{56}$ | | | 10 24.8 339.°94 | | 6.°2/30.4 18 | |
| 9 18 | 2 20.32 | +30 54.6 | 1.667 | 2.440 | 18.3 | 20.0 |
| 9 28 | 2 17.08 | +30 53.4 | 1.582 | 2.435 | 15.4 | 19.8 |
| 10 8 | 2 11.17 | +30 25.6 | 1.515 | 2.430 | 12.0 | 19.6 |
| 10 18 | 2 3.28 | +29 29.3 | 1.470 | 2.425 | 8.5 | 19.3 |
| 10 28 | 1 54.56 | +28 6.4 | 1.449 | 2.422 | 6.3 | 19.2 |
| 11 7 | 1 46.33 | +26 23.9 | 1.455 | 2.418 | 7.2 | 19.3 |
| 11 17 | 1 39.77 | +24 32.2 | 1.488 | 2.415 | 10.4 | 19.4 |
| 11 27 | 1 35.76 | +22 42.9 | 1.544 | 2.413 | 14.0 | 19.7 |
| **189151** 2002 $JE_{12}$ | | | 10 24.8 126.°01 | | 7.°3/17.9 18 | |
| 9 18 | 2 25.53 | −13 58.7 | 2.619 | 3.432 | 11.3 | 20.6 |
| 9 28 | 2 19.52 | −14 39.6 | 2.569 | 3.444 | 9.4 | 20.5 |
| 10 8 | 2 11.96 | −15 11.2 | 2.544 | 3.455 | 7.9 | 20.4 |
| 10 18 | 2 3.40 | −15 28.6 | 2.545 | 3.466 | 7.3 | 20.4 |
| 10 28 | 1 54.56 | −15 28.1 | 2.573 | 3.477 | 7.9 | 20.4 |
| 11 7 | 1 46.20 | −15 8.2 | 2.629 | 3.487 | 9.4 | 20.5 |
| 11 17 | 1 38.96 | −14 29.4 | 2.710 | 3.497 | 11.2 | 20.7 |
| 11 27 | 1 33.34 | −13 33.4 | 2.814 | 3.507 | 12.8 | 20.8 |
| **320686** 2008 $CR_{213}$ | | | 10 24.8 174.°20 | | 2.°5/26.8 18 | |
| 9 18 | 2 25.14 | +21 17.2 | 1.636 | 2.443 | 17.2 | 20.8 |
| 9 28 | 2 20.54 | +21 0.8 | 1.557 | 2.445 | 13.7 | 20.6 |
| 10 8 | 2 13.29 | +20 24.8 | 1.499 | 2.446 | 9.6 | 20.3 |
| 10 18 | 2 4.12 | +19 30.1 | 1.465 | 2.447 | 5.1 | 20.1 |
| 10 28 | 1 54.18 | +18 20.8 | 1.457 | 2.447 | 2.6 | 19.9 |
| 11 7 | 1 44.78 | +17 4.6 | 1.478 | 2.447 | 6.2 | 20.2 |
| 11 17 | 1 37.06 | +15 50.1 | 1.525 | 2.447 | 10.6 | 20.4 |
| 11 27 | 1 31.88 | +14 45.7 | 1.596 | 2.447 | 14.5 | 20.7 |
| **86184** 1999 $RL_{230}$ | | | 10 24.8 48.°48 | | 2.°9/26.9 18 | |
| 9 18 | 2 24.70 | +20 15.3 | 1.943 | 2.743 | 15.1 | 19.1 |
| 9 28 | 2 19.76 | +20 38.6 | 1.870 | 2.752 | 12.0 | 18.9 |
| 10 8 | 2 12.58 | +20 48.4 | 1.819 | 2.761 | 8.5 | 18.7 |
| 10 18 | 2 3.79 | +20 44.4 | 1.792 | 2.771 | 4.8 | 18.5 |
| 10 28 | 1 54.37 | +20 28.1 | 1.793 | 2.780 | 2.9 | 18.4 |
| 11 7 | 1 45.41 | +20 3.5 | 1.823 | 2.790 | 5.5 | 18.6 |
| 11 17 | 1 37.88 | +19 35.8 | 1.880 | 2.800 | 9.0 | 18.8 |
| 11 27 | 1 32.52 | +19 10.5 | 1.961 | 2.810 | 12.3 | 19.0 |
| **102812** 1999 $VO_{176}$ | | | 10 24.8 317.°77 | | 0.°4/25.1 18 | |
| 9 18 | 2 21.55 | +15 4.0 | 1.594 | 2.429 | 16.3 | 20.1 |
| 9 28 | 2 17.89 | +14 49.2 | 1.510 | 2.419 | 12.7 | 19.9 |
| 10 8 | 2 11.67 | +14 20.5 | 1.447 | 2.408 | 8.4 | 19.6 |
| 10 18 | 2 3.51 | +13 39.7 | 1.408 | 2.398 | 3.6 | 19.3 |
| 10 28 | 1 54.48 | +12 51.7 | 1.396 | 2.388 | 1.6 | 19.1 |
| 11 7 | 1 45.83 | +12 3.0 | 1.410 | 2.379 | 6.6 | 19.4 |
| 11 17 | 1 38.72 | +11 20.6 | 1.450 | 2.370 | 11.2 | 19.7 |
| 11 27 | 1 34.03 | +10 50.5 | 1.513 | 2.361 | 15.3 | 19.9 |
| **84268** 2002 $TU_{7}$ | | | 10 24.8 230.°25 | | 0.°8/25.4 18 | |
| 9 18 | 2 26.41 | +16 2.2 | 1.839 | 2.653 | 15.3 | 20.2 |
| 9 28 | 2 21.33 | +15 50.7 | 1.747 | 2.643 | 12.0 | 19.9 |
| 10 8 | 2 13.78 | +15 25.9 | 1.677 | 2.632 | 8.0 | 19.7 |
| 10 18 | 2 4.36 | +14 49.3 | 1.633 | 2.620 | 3.6 | 19.4 |
| 10 28 | 1 54.08 | +14 4.3 | 1.616 | 2.608 | 1.5 | 19.2 |
| 11 7 | 1 44.12 | +13 16.8 | 1.628 | 2.595 | 6.0 | 19.5 |
| 11 17 | 1 35.60 | +12 33.0 | 1.668 | 2.582 | 10.4 | 19.7 |
| 11 27 | 1 29.38 | +11 58.8 | 1.732 | 2.568 | 14.3 | 19.9 |
| **98465** 2000 $UN_{84}$ | | | 10 24.8 43.°70 | | 1.°5/23.9 18 | |
| 9 18 | 2 25.12 | +11 4.6 | 1.125 | 1.986 | 20.0 | 19.3 |
| 9 28 | 2 21.07 | +10 39.3 | 1.075 | 1.999 | 15.2 | 19.1 |
| 10 8 | 2 13.82 | +10 1.1 | 1.044 | 2.012 | 9.8 | 18.8 |
| 10 18 | 2 4.35 | + 9 15.2 | 1.035 | 2.026 | 3.9 | 18.6 |
| 10 28 | 1 54.16 | + 8 29.2 | 1.050 | 2.040 | 2.9 | 18.6 |
| 11 7 | 1 44.91 | + 7 51.4 | 1.089 | 2.055 | 8.5 | 18.9 |
| 11 17 | 1 37.91 | + 7 28.4 | 1.152 | 2.070 | 13.6 | 19.3 |
| 11 27 | 1 33.99 | + 7 23.9 | 1.235 | 2.086 | 17.9 | 19.6 |
| **21564** Widmanstätten | | | 10 24.8 5.°34 | | 7.°1/17.8 18 | |
| 9 18 | 2 15.75 | − 1 32.4 | 1.669 | 2.536 | 14.2 | 16.5 |
| 9 28 | 2 13.02 | − 3 24.7 | 1.614 | 2.536 | 11.1 | 16.3 |
| 10 8 | 2 8.23 | − 5 17.8 | 1.581 | 2.537 | 8.3 | 16.2 |
| 10 18 | 2 2.00 | − 7 2.3 | 1.574 | 2.540 | 7.1 | 16.1 |
| 10 28 | 1 55.26 | − 8 28.3 | 1.593 | 2.542 | 8.4 | 16.2 |
| 11 7 | 1 48.99 | − 9 28.9 | 1.638 | 2.546 | 11.1 | 16.4 |
| 11 17 | 1 44.05 | −10 0.8 | 1.705 | 2.551 | 14.1 | 16.6 |
| 11 27 | 1 41.10 | −10 4.2 | 1.792 | 2.556 | 16.8 | 16.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **402814** 2007 $EW_{1}$ | | | 10 24.8 62.°46 | | 6.°9/30.7 18 | |
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 27.99 | +31 38.8 | 2.116 | 2.852 | 16.0 | 20.2 |
| 9 28 | 2 22.41 | +32 37.8 | 2.044 | 2.866 | 13.6 | 20.0 |
| 10 8 | 2 14.39 | +33 18.0 | 1.991 | 2.880 | 10.9 | 19.9 |
| 10 18 | 2 4.58 | +33 36.3 | 1.962 | 2.895 | 8.4 | 19.8 |
| 10 28 | 1 54.03 | +33 31.5 | 1.959 | 2.910 | 6.9 | 19.7 |
| 11 7 | 1 43.92 | +33 6.4 | 1.983 | 2.924 | 7.4 | 19.8 |
| 11 17 | 1 35.34 | +32 26.4 | 2.035 | 2.939 | 9.4 | 19.9 |
| 11 27 | 1 29.10 | +31 39.2 | 2.111 | 2.954 | 11.8 | 20.1 |
| **453008** 2007 $LX_{5}$ | | | 10 24.8 59.°76 | | 7.°1/17.2 17 | |
| 9 18 | 2 18.95 | − 7 52.9 | 2.210 | 3.054 | 12.1 | 21.5 |
| 9 28 | 2 14.90 | − 9 15.2 | 2.159 | 3.061 | 9.7 | 21.3 |
| 10 8 | 2 9.18 | −10 32.2 | 2.133 | 3.069 | 7.8 | 21.2 |
| 10 18 | 2 2.34 | −11 37.2 | 2.132 | 3.077 | 7.1 | 21.2 |
| 10 28 | 1 55.13 | −12 24.2 | 2.159 | 3.084 | 8.0 | 21.3 |
| 11 7 | 1 48.35 | −12 49.5 | 2.212 | 3.092 | 10.0 | 21.4 |
| 11 17 | 1 42.68 | −12 52.1 | 2.288 | 3.100 | 12.2 | 21.6 |
| 11 27 | 1 38.66 | −12 32.8 | 2.386 | 3.108 | 14.2 | 21.8 |
| **522018** 2015 $XJ_{394}$ | | | 10 24.8 316.°81 | | 2.°0/26.8 18 | |
| 9 18 | 2 18.70 | +21 6.9 | 2.082 | 2.885 | 14.1 | 21.0 |
| 9 28 | 2 15.15 | +20 41.4 | 1.990 | 2.876 | 11.2 | 20.8 |
| 10 8 | 2 9.60 | +19 59.4 | 1.921 | 2.867 | 7.8 | 20.6 |
| 10 18 | 2 2.60 | +19 2.2 | 1.876 | 2.859 | 4.2 | 20.3 |
| 10 28 | 1 54.98 | +17 53.6 | 1.860 | 2.850 | 2.1 | 20.2 |
| 11 7 | 1 47.69 | +16 39.5 | 1.872 | 2.842 | 5.1 | 20.4 |
| 11 17 | 1 41.58 | +15 26.7 | 1.913 | 2.834 | 8.8 | 20.6 |
| 11 27 | 1 37.36 | +14 21.9 | 1.978 | 2.827 | 12.2 | 20.8 |
| **261889** 2006 $HP_{23}$ | | | 10 24.8 244.°48 | | 1.°3/23.4 17 | |
| 9 18 | 2 19.50 | + 9 53.7 | 2.586 | 3.411 | 11.1 | 21.4 |
| 9 28 | 2 15.26 | + 9 20.3 | 2.496 | 3.402 | 8.5 | 21.2 |
| 10 8 | 2 9.43 | + 8 40.1 | 2.431 | 3.392 | 5.4 | 21.0 |
| 10 18 | 2 2.48 | + 7 56.0 | 2.393 | 3.383 | 2.3 | 20.8 |
| 10 28 | 1 55.06 | + 7 11.9 | 2.385 | 3.374 | 2.0 | 20.8 |
| 11 7 | 1 47.88 | + 6 31.9 | 2.407 | 3.364 | 5.2 | 21.0 |
| 11 17 | 1 41.62 | + 5 59.8 | 2.457 | 3.354 | 8.3 | 21.2 |
| 11 27 | 1 36.84 | + 5 38.5 | 2.532 | 3.344 | 11.1 | 21.3 |
| **9277** Togashi | | | 10 24.8 353.°45 | | 3.°5/26.6 18 | |
| 9 18 | 2 25.46 | +18 31.6 | 1.255 | 2.091 | 19.8 | 17.2 |
| 9 28 | 2 21.64 | +19 12.1 | 1.184 | 2.087 | 15.9 | 16.9 |
| 10 8 | 2 14.51 | +19 36.9 | 1.130 | 2.084 | 11.1 | 16.7 |
| 10 18 | 2 4.80 | +19 44.0 | 1.098 | 2.081 | 6.1 | 16.4 |
| 10 28 | 1 53.92 | +19 34.6 | 1.091 | 2.080 | 3.6 | 16.2 |
| 11 7 | 1 43.58 | +19 14.0 | 1.108 | 2.079 | 7.5 | 16.5 |
| 11 17 | 1 35.32 | +18 49.4 | 1.149 | 2.079 | 12.5 | 16.7 |
| 11 27 | 1 30.26 | +18 29.1 | 1.212 | 2.080 | 17.0 | 17.0 |
| **134904** 2000 $XR_{17}$ | | | 10 24.8 0.°59 | | 0.°7/24.5 18 | |
| 9 18 | 2 26.84 | + 9 37.7 | 1.105 | 1.967 | 20.2 | 18.7 |
| 9 28 | 2 22.83 | +10 2.3 | 1.041 | 1.965 | 15.6 | 18.4 |
| 10 8 | 2 15.32 | +10 19.2 | 0.996 | 1.963 | 10.2 | 18.1 |
| 10 18 | 2 5.13 | +10 30.2 | 0.972 | 1.963 | 4.2 | 17.8 |
| 10 28 | 1 53.81 | +10 38.9 | 0.972 | 1.964 | 2.3 | 17.7 |
| 11 7 | 1 43.17 | +10 49.9 | 0.996 | 1.965 | 8.4 | 18.0 |
| 11 17 | 1 34.83 | +11 7.7 | 1.043 | 1.968 | 14.0 | 18.4 |
| 11 27 | 1 29.88 | +11 36.3 | 1.110 | 1.972 | 18.7 | 18.7 |
| **133298** 2003 $SU_{37}$ | | | 10 24.8 134.°74 | | 5.°4/18.7 18 | |
| 9 18 | 2 21.01 | + 4 55.0 | 1.836 | 2.683 | 14.0 | 20.2 |
| 9 28 | 2 16.83 | + 2 22.6 | 1.770 | 2.688 | 10.6 | 20.0 |
| 10 8 | 2 10.61 | − 0 19.0 | 1.731 | 2.692 | 7.3 | 19.8 |
| 10 18 | 2 2.98 | − 2 59.2 | 1.721 | 2.696 | 5.4 | 19.7 |
| 10 28 | 1 54.87 | − 5 26.2 | 1.741 | 2.700 | 6.8 | 19.8 |
| 11 7 | 1 47.26 | − 7 29.7 | 1.790 | 2.704 | 10.0 | 20.0 |
| 11 17 | 1 41.00 | − 9 3.7 | 1.865 | 2.708 | 13.2 | 20.2 |
| 11 27 | 1 36.72 | −10 6.2 | 1.962 | 2.711 | 16.0 | 20.4 |
| **213174** 2000 $SF_{104}$ | | | 10 24.8 16.°02 | | 1.°5/23.8 17 | |
| 9 18 | 2 17.06 | +13 46.8 | 0.938 | 1.817 | 21.4 | 18.9 |
| 9 28 | 2 15.46 | +12 48.8 | 0.888 | 1.822 | 16.4 | 18.6 |
| 10 8 | 2 10.48 | +11 29.6 | 0.856 | 1.829 | 10.5 | 18.3 |
| 10 18 | 2 3.08 | + 9 56.9 | 0.844 | 1.837 | 4.2 | 18.0 |
| 10 28 | 1 54.84 | + 8 22.9 | 0.855 | 1.846 | 3.2 | 18.0 |
| 11 7 | 1 47.51 | + 7 1.2 | 0.888 | 1.857 | 9.3 | 18.4 |
| 11 17 | 1 42.45 | + 6 1.9 | 0.943 | 1.869 | 14.9 | 18.8 |
| 11 27 | 1 40.55 | + 5 30.6 | 1.016 | 1.883 | 19.6 | 19.1 |
| **511928** 2015 $HG_{155}$ | | | 10 24.8 129.°04 | | 3.°7/27.6 18 | |
| 9 18 | 2 26.23 | +23 18.8 | 1.693 | 2.488 | 17.2 | 21.5 |
| 9 28 | 2 21.33 | +23 22.8 | 1.618 | 2.495 | 13.9 | 21.3 |
| 10 8 | 2 13.79 | +23 7.5 | 1.563 | 2.501 | 10.0 | 21.1 |
| 10 18 | 2 4.37 | +22 32.6 | 1.532 | 2.507 | 5.9 | 20.9 |
| 10 28 | 1 54.21 | +21 40.8 | 1.528 | 2.513 | 3.7 | 20.8 |
| 11 7 | 1 44.60 | +20 38.4 | 1.551 | 2.519 | 6.2 | 20.9 |
| 11 17 | 1 36.70 | +19 33.2 | 1.601 | 2.524 | 10.1 | 21.2 |
| 11 27 | 1 31.33 | +18 33.7 | 1.676 | 2.529 | 13.8 | 21.4 |

**438307** 2006 $FG_{11}$ 10 24.8 162.°50 1.°5/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 24.38 | + 9 50.0 | 2.049 | 2.876 | 13.5 | 21.6 |
| 9 28 | 2 19.27 | + 9 18.5 | 1.974 | 2.880 | 10.3 | 21.4 |
| 10 8 | 2 12.15 | + 8 39.3 | 1.922 | 2.884 | 6.6 | 21.2 |
| 10 18 | 2 3.63 | + 7 55.8 | 1.897 | 2.887 | 2.8 | 21.0 |
| 10 28 | 1 54.57 | + 7 12.7 | 1.902 | 2.890 | 2.4 | 21.0 |
| 11 7 | 1 45.95 | + 6 35.1 | 1.935 | 2.893 | 6.2 | 21.2 |
| 11 17 | 1 38.61 | + 6 7.3 | 1.996 | 2.895 | 9.8 | 21.4 |
| 11 27 | 1 33.22 | + 5 52.5 | 2.081 | 2.897 | 13.0 | 21.7 |

**243591** Ignacostantino 10 24.8 12.°75 2.°7/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 9.13 | +22 42.8 | 0.893 | 1.765 | 23.0 | 18.0 |
| 9 28 | 2 9.54 | +21 59.9 | 0.851 | 1.775 | 18.2 | 17.7 |
| 10 8 | 2 6.68 | +20 43.5 | 0.825 | 1.788 | 12.6 | 17.5 |
| 10 18 | 2 1.52 | +18 59.0 | 0.818 | 1.805 | 6.5 | 17.2 |
| 10 28 | 1 55.62 | +16 58.4 | 0.833 | 1.824 | 2.8 | 17.1 |
| 11 7 | 1 50.61 | +14 57.9 | 0.869 | 1.846 | 7.5 | 17.5 |
| 11 17 | 1 47.74 | +13 12.2 | 0.928 | 1.870 | 13.0 | 17.9 |
| 11 27 | 1 47.75 | +11 51.6 | 1.006 | 1.897 | 17.7 | 18.2 |

**477498** 2010 $CQ_{79}$ 10 24.8 119.°44 0.°4/24.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.99 | +13 16.0 | 1.868 | 2.693 | 14.7 | 22.1 |
| 9 28 | 2 19.15 | +12 46.4 | 1.798 | 2.702 | 11.2 | 21.9 |
| 10 8 | 2 12.14 | +12 5.9 | 1.751 | 2.711 | 7.3 | 21.7 |
| 10 18 | 2 3.63 | +11 17.4 | 1.729 | 2.719 | 2.9 | 21.5 |
| 10 28 | 1 54.59 | +10 26.0 | 1.736 | 2.728 | 1.7 | 21.4 |
| 11 7 | 1 46.07 | + 9 37.6 | 1.772 | 2.736 | 6.0 | 21.7 |
| 11 17 | 1 38.97 | + 8 57.6 | 1.834 | 2.743 | 9.9 | 22.0 |
| 11 27 | 1 33.97 | + 8 30.2 | 1.921 | 2.751 | 13.3 | 22.2 |

**128264** 2003 $SZ_{303}$ 10 24.8 148.°15 2.°2/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.16 | +19 59.4 | 2.495 | 3.283 | 12.5 | 19.1 |
| 9 28 | 2 18.17 | +20 11.3 | 2.410 | 3.286 | 9.9 | 18.9 |
| 10 8 | 2 11.38 | +20 12.1 | 2.348 | 3.289 | 7.0 | 18.8 |
| 10 18 | 2 3.32 | +20 2.0 | 2.312 | 3.291 | 3.9 | 18.6 |
| 10 28 | 1 54.72 | +19 42.5 | 2.306 | 3.293 | 2.3 | 18.5 |
| 11 7 | 1 46.43 | +19 16.8 | 2.329 | 3.296 | 4.5 | 18.6 |
| 11 17 | 1 39.21 | +18 49.0 | 2.381 | 3.298 | 7.6 | 18.8 |
| 11 27 | 1 33.68 | +18 23.4 | 2.459 | 3.300 | 10.4 | 19.0 |

**102380** 1999 $TE_{150}$ 10 24.8 74.°67 1.°5/23.9 17 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.36 | + 9 30.1 | 1.367 | 2.210 | 18.1 | 19.2 |
| 9 28 | 2 23.82 | + 9 22.2 | 1.312 | 2.226 | 13.8 | 19.0 |
| 10 8 | 2 15.41 | + 9 5.8 | 1.278 | 2.243 | 8.9 | 18.8 |
| 10 18 | 2 5.01 | + 8 44.5 | 1.268 | 2.259 | 3.6 | 18.5 |
| 10 28 | 1 53.99 | + 8 23.3 | 1.284 | 2.275 | 2.7 | 18.5 |
| 11 7 | 1 43.81 | + 8 7.9 | 1.328 | 2.291 | 7.6 | 18.9 |
| 11 17 | 1 35.68 | + 8 3.0 | 1.396 | 2.307 | 12.3 | 19.2 |
| 11 27 | 1 30.38 | + 8 11.5 | 1.486 | 2.323 | 16.2 | 19.5 |

**42719** 1998 $QL_{66}$ 10 24.8 93.°39 3.°7/28.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.64 | +26 15.4 | 1.901 | 2.680 | 16.2 | 18.4 |
| 9 28 | 2 18.95 | +25 52.2 | 1.831 | 2.696 | 13.1 | 18.2 |
| 10 8 | 2 12.03 | +25 8.1 | 1.782 | 2.712 | 9.5 | 18.0 |
| 10 18 | 2 3.58 | +24 3.7 | 1.757 | 2.727 | 5.9 | 17.9 |
| 10 28 | 1 54.65 | +22 43.1 | 1.760 | 2.743 | 3.7 | 17.8 |
| 11 7 | 1 46.33 | +21 13.3 | 1.791 | 2.758 | 5.6 | 17.9 |
| 11 17 | 1 39.55 | +19 42.6 | 1.851 | 2.773 | 9.0 | 18.2 |
| 11 27 | 1 34.97 | +18 19.3 | 1.936 | 2.788 | 12.3 | 18.4 |

**452916** 2006 $VM_{83}$ 10 24.8 24.°18 0.°8/24.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.90 | +10 30.3 | 1.492 | 2.338 | 16.7 | 20.3 |
| 9 28 | 2 19.56 | +10 33.2 | 1.431 | 2.346 | 12.8 | 20.1 |
| 10 8 | 2 12.64 | +10 27.7 | 1.391 | 2.356 | 8.3 | 19.9 |
| 10 18 | 2 3.90 | +10 16.4 | 1.376 | 2.366 | 3.3 | 19.6 |
| 10 28 | 1 54.50 | +10 3.4 | 1.386 | 2.378 | 2.0 | 19.5 |
| 11 7 | 1 45.74 | + 9 53.7 | 1.423 | 2.390 | 6.8 | 19.9 |
| 11 17 | 1 38.70 | + 9 51.3 | 1.486 | 2.402 | 11.3 | 20.2 |
| 11 27 | 1 34.17 | + 9 59.8 | 1.571 | 2.416 | 15.0 | 20.4 |

**445643** 2011 $UB_{10}$ 10 24.8 1.°71 1.°9/26.0 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.33 | +17 31.4 | 1.350 | 2.193 | 18.3 | 20.9 |
| 9 28 | 2 16.55 | +17 34.8 | 1.281 | 2.191 | 14.4 | 20.7 |
| 10 8 | 2 10.96 | +17 21.2 | 1.231 | 2.190 | 9.8 | 20.4 |
| 10 18 | 2 3.30 | +16 51.8 | 1.204 | 2.191 | 4.8 | 20.1 |
| 10 28 | 1 54.77 | +16 10.9 | 1.201 | 2.192 | 2.2 | 20.0 |
| 11 7 | 1 46.79 | +15 25.5 | 1.223 | 2.195 | 6.7 | 20.2 |
| 11 17 | 1 40.59 | +14 43.5 | 1.270 | 2.199 | 11.5 | 20.5 |
| 11 27 | 1 37.08 | +14 11.8 | 1.338 | 2.205 | 15.8 | 20.8 |

**199698** 2006 $HG_{35}$ 10 24.8 233.°95 0.°0/24.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.80 | +13 51.2 | 2.711 | 3.522 | 11.0 | 21.2 |
| 9 28 | 2 15.45 | +13 27.8 | 2.618 | 3.514 | 8.5 | 21.0 |
| 10 8 | 2 9.56 | +12 56.1 | 2.549 | 3.506 | 5.5 | 20.8 |
| 10 18 | 2 2.58 | +12 17.9 | 2.507 | 3.497 | 2.3 | 20.6 |
| 10 28 | 1 55.12 | +11 36.4 | 2.496 | 3.488 | 1.1 | 20.5 |
| 11 7 | 1 47.90 | +10 55.4 | 2.515 | 3.479 | 4.4 | 20.7 |
| 11 17 | 1 41.56 | +10 18.8 | 2.562 | 3.469 | 7.6 | 20.9 |
| 11 27 | 1 36.66 | + 9 50.0 | 2.636 | 3.459 | 10.3 | 21.1 |

**426079** 2012 $DR_{23}$ 10 24.8 243.°14 2.°8/26.6 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 28.13 | +19 47.9 | 1.604 | 2.412 | 17.4 | 22.6 |
| 9 28 | 2 23.19 | +19 57.9 | 1.512 | 2.400 | 14.0 | 22.3 |
| 10 8 | 2 15.32 | +19 51.5 | 1.440 | 2.388 | 9.8 | 22.0 |
| 10 18 | 2 5.16 | +19 27.7 | 1.393 | 2.375 | 5.3 | 21.7 |
| 10 28 | 1 53.86 | +18 48.6 | 1.372 | 2.361 | 2.9 | 21.6 |
| 11 7 | 1 42.88 | +18 0.0 | 1.378 | 2.347 | 6.7 | 21.8 |
| 11 17 | 1 33.58 | +17 9.4 | 1.411 | 2.332 | 11.3 | 22.0 |
| 11 27 | 1 27.02 | +16 25.1 | 1.467 | 2.317 | 15.6 | 22.2 |

**159795** 2003 $QN_{105}$ 10 24.8 349.°74 8.°2/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.97 | − 5 50.0 | 1.768 | 2.631 | 13.7 | 18.1 |
| 9 28 | 2 13.17 | − 7 40.9 | 1.709 | 2.624 | 11.1 | 17.9 |
| 10 8 | 2 8.36 | − 9 29.1 | 1.674 | 2.619 | 8.9 | 17.8 |
| 10 18 | 2 2.13 | −11 5.3 | 1.663 | 2.614 | 8.2 | 17.8 |
| 10 28 | 1 55.35 | −12 20.4 | 1.678 | 2.610 | 9.5 | 17.8 |
| 11 7 | 1 48.98 | −13 8.2 | 1.718 | 2.606 | 11.9 | 18.0 |
| 11 17 | 1 43.87 | −13 26.4 | 1.780 | 2.604 | 14.6 | 18.1 |
| 11 27 | 1 40.69 | −13 15.9 | 1.861 | 2.602 | 17.0 | 18.3 |

**225229** 2008 $TB_{149}$ 10 24.8 245.°65 0.°6/23.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 13.98 | +10 7.9 | 4.341 | 5.155 | 7.1 | 20.8 |
| 9 28 | 2 10.45 | + 9 50.7 | 4.254 | 5.154 | 5.4 | 20.6 |
| 10 8 | 2 6.06 | + 9 30.0 | 4.194 | 5.153 | 3.4 | 20.5 |
| 10 18 | 2 1.08 | + 9 7.2 | 4.162 | 5.152 | 1.4 | 20.3 |
| 10 28 | 1 55.86 | + 8 44.2 | 4.161 | 5.151 | 1.1 | 20.3 |
| 11 7 | 1 50.79 | + 8 22.9 | 4.191 | 5.150 | 3.1 | 20.5 |
| 11 17 | 1 46.23 | + 8 5.3 | 4.251 | 5.149 | 5.1 | 20.6 |
| 11 27 | 1 42.49 | + 7 53.0 | 4.338 | 5.148 | 6.8 | 20.8 |

**508971** 2004 $VH_{105}$ 10 24.8 203.°16 0.°7/24.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.63 | +11 46.5 | 1.531 | 2.363 | 17.0 | 22.5 |
| 9 28 | 2 23.36 | +11 34.9 | 1.453 | 2.361 | 13.1 | 22.2 |
| 10 8 | 2 15.27 | +11 12.5 | 1.397 | 2.358 | 8.6 | 22.0 |
| 10 18 | 2 5.07 | +10 41.9 | 1.365 | 2.355 | 3.5 | 21.7 |
| 10 28 | 1 53.96 | +10 7.9 | 1.360 | 2.352 | 2.1 | 21.6 |
| 11 7 | 1 43.36 | + 9 36.6 | 1.383 | 2.348 | 7.2 | 21.9 |
| 11 17 | 1 34.53 | + 9 14.1 | 1.432 | 2.343 | 12.0 | 22.2 |
| 11 27 | 1 28.40 | + 9 4.8 | 1.503 | 2.338 | 16.1 | 22.4 |

**285031** 2011 $EO_{14}$ 10 24.8 262.°33 0.°1/24.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.16 | +14 14.6 | 2.543 | 3.356 | 11.6 | 21.7 |
| 9 28 | 2 15.88 | +13 56.0 | 2.447 | 3.344 | 9.0 | 21.5 |
| 10 8 | 2 9.92 | +13 28.4 | 2.375 | 3.331 | 5.9 | 21.3 |
| 10 18 | 2 2.76 | +12 53.7 | 2.330 | 3.319 | 2.5 | 21.0 |
| 10 28 | 1 55.06 | +12 14.8 | 2.314 | 3.306 | 1.1 | 20.9 |
| 11 7 | 1 47.58 | +11 35.9 | 2.328 | 3.294 | 4.7 | 21.1 |
| 11 17 | 1 41.03 | +11 1.0 | 2.371 | 3.281 | 8.0 | 21.3 |
| 11 27 | 1 36.03 | +10 33.8 | 2.440 | 3.268 | 10.9 | 21.5 |

**11397** 1998 $XX_{93}$ 10 24.8 344.°37 3.°6/31.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.76 | +33 9.5 | 4.243 | 4.948 | 9.0 | 17.4 |
| 9 28 | 2 11.23 | +33 4.4 | 4.144 | 4.946 | 7.6 | 17.3 |
| 10 8 | 2 6.64 | +32 47.5 | 4.067 | 4.945 | 6.1 | 17.2 |
| 10 18 | 2 1.34 | +32 18.6 | 4.015 | 4.943 | 4.6 | 17.1 |
| 10 28 | 1 55.75 | +31 38.5 | 3.991 | 4.942 | 3.7 | 17.0 |
| 11 7 | 1 50.35 | +30 49.3 | 3.997 | 4.941 | 3.9 | 17.0 |
| 11 17 | 1 45.56 | +29 53.9 | 4.032 | 4.939 | 5.0 | 17.1 |
| 11 27 | 1 41.79 | +28 55.7 | 4.095 | 4.938 | 6.5 | 17.2 |

**386318** 2008 $SH_{86}$ 10 24.8 89.°75 4.°0/27.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.43 | +24 1.5 | 1.701 | 2.493 | 17.3 | 21.1 |
| 9 28 | 2 21.40 | +24 10.5 | 1.633 | 2.507 | 13.9 | 21.0 |
| 10 8 | 2 13.80 | +24 0.2 | 1.586 | 2.521 | 10.1 | 20.8 |
| 10 18 | 2 4.39 | +23 29.9 | 1.562 | 2.535 | 6.2 | 20.6 |
| 10 28 | 1 54.33 | +22 42.5 | 1.564 | 2.548 | 4.0 | 20.5 |
| 11 7 | 1 44.91 | +21 43.9 | 1.595 | 2.562 | 6.2 | 20.6 |
| 11 17 | 1 37.21 | +20 41.9 | 1.652 | 2.575 | 9.9 | 20.9 |
| 11 27 | 1 32.02 | +19 44.5 | 1.734 | 2.588 | 13.4 | 21.1 |

**228110** Eudorus 10 24.8 355.°35 0.°2/24.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 13.46 | +12 5.4 | 4.331 | 5.141 | 7.2 | 20.8 |
| 9 28 | 2 10.08 | +11 47.4 | 4.244 | 5.141 | 5.5 | 20.6 |
| 10 8 | 2 5.83 | +11 25.1 | 4.183 | 5.141 | 3.5 | 20.5 |
| 10 18 | 2 1.00 | +10 59.9 | 4.151 | 5.141 | 1.4 | 20.3 |
| 10 28 | 1 55.93 | +10 33.6 | 4.149 | 5.140 | 0.8 | 20.3 |
| 11 7 | 1 51.01 | +10 8.3 | 4.178 | 5.140 | 2.9 | 20.5 |
| 11 17 | 1 46.59 | + 9 46.0 | 4.237 | 5.140 | 4.9 | 20.6 |
| 11 27 | 1 43.00 | + 9 28.5 | 4.323 | 5.140 | 6.7 | 20.7 |

**381111** 2007 $DH_{14}$ 10 24.8 220.°91 1.°7/23.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.38 | + 9 45.2 | 1.812 | 2.644 | 14.8 | 21.7 |
| 9 28 | 2 20.45 | + 9 15.0 | 1.729 | 2.638 | 11.3 | 21.5 |
| 10 8 | 2 13.17 | + 8 35.9 | 1.669 | 2.631 | 7.3 | 21.2 |
| 10 18 | 2 4.17 | + 7 51.5 | 1.634 | 2.625 | 3.1 | 21.0 |
| 10 28 | 1 54.42 | + 7 7.2 | 1.628 | 2.617 | 2.7 | 20.9 |
| 11 7 | 1 45.07 | + 6 28.7 | 1.651 | 2.609 | 6.9 | 21.2 |
| 11 17 | 1 37.14 | + 6 1.2 | 1.699 | 2.601 | 11.1 | 21.4 |
| 11 27 | 1 31.42 | + 5 48.5 | 1.772 | 2.593 | 14.7 | 21.6 |

**230307** 2002 $AV_{144}$ 10 24.8 305°.51 2°.8/22.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.44 | + 8 32.1 | 1.499 | 2.353 | 16.3 | 20.6 |
| 9 28 | 2 17.96 | + 7 47.3 | 1.416 | 2.337 | 12.5 | 20.3 |
| 10 8 | 2 11.83 | + 6 51.8 | 1.355 | 2.322 | 8.1 | 20.1 |
| 10 18 | 2 3.70 | + 5 51.0 | 1.317 | 2.306 | 3.8 | 19.8 |
| 10 28 | 1 54.63 | + 4 52.1 | 1.305 | 2.292 | 3.9 | 19.7 |
| 11 7 | 1 45.92 | + 4 3.2 | 1.320 | 2.277 | 8.5 | 20.0 |
| 11 17 | 1 38.78 | + 3 30.8 | 1.358 | 2.263 | 13.1 | 20.2 |
| 11 27 | 1 34.13 | + 3 18.9 | 1.419 | 2.249 | 17.2 | 20.4 |

**310358** 2011 $UH_{270}$ 10 24.8 55°.09 3°.8/21.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.50 | + 4 52.1 | 1.641 | 2.492 | 15.2 | 20.4 |
| 9 28 | 2 18.13 | + 3 59.8 | 1.587 | 2.506 | 11.5 | 20.2 |
| 10 8 | 2 11.51 | + 3 3.1 | 1.556 | 2.521 | 7.5 | 20.0 |
| 10 18 | 2 3.40 | + 2 8.0 | 1.551 | 2.536 | 4.2 | 19.9 |
| 10 28 | 1 54.83 | + 1 21.2 | 1.572 | 2.551 | 4.8 | 19.9 |
| 11 7 | 1 46.90 | + 0 48.6 | 1.620 | 2.567 | 8.2 | 20.2 |
| 11 17 | 1 40.51 | + 0 33.5 | 1.693 | 2.582 | 11.9 | 20.4 |
| 11 27 | 1 36.33 | + 0 37.2 | 1.789 | 2.598 | 15.0 | 20.7 |

**183913** 2004 $CT_{100}$ 10 24.8 153°.47 3°.4/22.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.37 | + 6 1.2 | 1.751 | 2.592 | 14.9 | 20.2 |
| 9 28 | 2 20.31 | + 5 8.8 | 1.684 | 2.597 | 11.3 | 20.0 |
| 10 8 | 2 12.97 | + 4 10.2 | 1.640 | 2.603 | 7.4 | 19.8 |
| 10 18 | 2 4.03 | + 3 11.0 | 1.621 | 2.608 | 3.9 | 19.6 |
| 10 28 | 1 54.53 | + 2 17.8 | 1.631 | 2.612 | 4.3 | 19.6 |
| 11 7 | 1 45.56 | + 1 36.9 | 1.668 | 2.616 | 8.0 | 19.9 |
| 11 17 | 1 38.10 | + 1 12.5 | 1.732 | 2.620 | 11.7 | 20.1 |
| 11 27 | 1 32.87 | + 1 6.7 | 1.818 | 2.623 | 15.0 | 20.3 |

**134351** 1993 $RC_{8}$ 10 24.8 354°.40 5°.1/27.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.24 | +20 13.5 | 1.237 | 2.074 | 20.0 | 18.5 |
| 9 28 | 2 19.34 | +21 20.9 | 1.164 | 2.065 | 16.2 | 18.3 |
| 10 8 | 2 13.16 | +22 12.9 | 1.109 | 2.058 | 11.8 | 18.0 |
| 10 18 | 2 4.37 | +22 46.1 | 1.075 | 2.053 | 7.4 | 17.8 |
| 10 28 | 1 54.30 | +22 59.4 | 1.064 | 2.049 | 5.1 | 17.6 |
| 11 7 | 1 44.67 | +22 56.2 | 1.078 | 2.047 | 7.9 | 17.8 |
| 11 17 | 1 37.06 | +22 42.9 | 1.115 | 2.047 | 12.5 | 18.0 |
| 11 27 | 1 32.63 | +22 28.1 | 1.172 | 2.049 | 16.8 | 18.3 |

**351846** 2006 $QN_{180}$ 10 24.8 359°.07 2°.4/26.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.79 | +19 32.9 | 1.839 | 2.647 | 15.6 | 20.8 |
| 9 28 | 2 19.31 | +19 41.0 | 1.759 | 2.647 | 12.4 | 20.6 |
| 10 8 | 2 12.46 | +19 34.7 | 1.699 | 2.646 | 8.6 | 20.4 |
| 10 18 | 2 3.89 | +19 14.1 | 1.664 | 2.646 | 4.6 | 20.1 |
| 10 28 | 1 54.58 | +18 41.7 | 1.657 | 2.646 | 2.5 | 20.0 |
| 11 7 | 1 45.68 | +18 2.4 | 1.678 | 2.646 | 5.7 | 20.2 |
| 11 17 | 1 38.23 | +17 22.1 | 1.725 | 2.647 | 9.6 | 20.4 |
| 11 27 | 1 33.02 | +16 47.2 | 1.797 | 2.647 | 13.2 | 20.7 |

**358240** 2006 $SK_{337}$ 10 24.8 15°.30 3°.3/22.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.00 | + 6 46.4 | 1.567 | 2.423 | 15.5 | 20.2 |
| 9 28 | 2 16.47 | + 5 55.2 | 1.504 | 2.426 | 11.8 | 20.0 |
| 10 8 | 2 10.60 | + 4 56.8 | 1.463 | 2.430 | 7.6 | 19.8 |
| 10 18 | 2 3.09 | + 3 57.0 | 1.446 | 2.434 | 3.9 | 19.6 |
| 10 28 | 1 54.98 | + 3 3.2 | 1.456 | 2.439 | 4.3 | 19.6 |
| 11 7 | 1 47.41 | + 2 22.1 | 1.492 | 2.444 | 8.2 | 19.9 |
| 11 17 | 1 41.37 | + 1 58.3 | 1.553 | 2.451 | 12.2 | 20.1 |
| 11 27 | 1 37.57 | + 1 54.2 | 1.635 | 2.457 | 15.6 | 20.4 |

**229866** 2009 $TV_{27}$ 10 24.8 73°.56 3°.9/21.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.34 | + 0 7.0 | 2.235 | 3.070 | 12.3 | 19.9 |
| 9 28 | 2 19.00 | − 0 11.9 | 2.170 | 3.078 | 9.4 | 19.7 |
| 10 8 | 2 11.87 | − 0 30.0 | 2.129 | 3.086 | 6.4 | 19.6 |
| 10 18 | 2 3.53 | − 0 43.5 | 2.115 | 3.094 | 4.2 | 19.5 |
| 10 28 | 1 54.78 | − 0 48.5 | 2.130 | 3.102 | 4.6 | 19.5 |
| 11 7 | 1 46.46 | − 0 42.4 | 2.173 | 3.110 | 7.1 | 19.7 |
| 11 17 | 1 39.33 | − 0 23.6 | 2.244 | 3.118 | 10.0 | 19.9 |
| 11 27 | 1 33.97 | + 0 8.2 | 2.339 | 3.126 | 12.6 | 20.1 |

**34980** 2307 $T\text{-}_{3}$ 10 24.8 180°.62 3°.2/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.93 | +21 6.7 | 1.470 | 2.283 | 18.6 | 18.6 |
| 9 28 | 2 22.32 | +21 13.7 | 1.394 | 2.283 | 14.9 | 18.3 |
| 10 8 | 2 14.72 | +21 1.4 | 1.337 | 2.283 | 10.5 | 18.1 |
| 10 18 | 2 4.89 | +20 29.2 | 1.303 | 2.283 | 5.8 | 17.8 |
| 10 28 | 1 54.11 | +19 40.3 | 1.295 | 2.283 | 3.3 | 17.7 |
| 11 7 | 1 43.88 | +18 41.4 | 1.313 | 2.283 | 6.8 | 17.9 |
| 11 17 | 1 35.55 | +17 41.4 | 1.358 | 2.283 | 11.4 | 18.2 |
| 11 27 | 1 30.06 | +16 49.1 | 1.425 | 2.282 | 15.6 | 18.4 |

**350436** 2012 $VT_{96}$ 10 24.8 243°.52 2°.7/27.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.49 | +23 57.4 | 1.860 | 2.655 | 15.9 | 20.8 |
| 9 28 | 2 17.54 | +23 19.7 | 1.773 | 2.651 | 12.8 | 20.6 |
| 10 8 | 2 11.30 | +22 20.6 | 1.706 | 2.647 | 9.1 | 20.4 |
| 10 18 | 2 3.40 | +21 1.2 | 1.664 | 2.642 | 5.1 | 20.1 |
| 10 28 | 1 54.83 | +19 26.1 | 1.649 | 2.638 | 2.7 | 20.0 |
| 11 7 | 1 46.70 | +17 43.3 | 1.664 | 2.634 | 5.6 | 20.2 |
| 11 17 | 1 40.00 | +16 1.9 | 1.706 | 2.629 | 9.6 | 20.4 |
| 11 27 | 1 35.50 | +14 30.8 | 1.773 | 2.624 | 13.3 | 20.6 |

**251358** 2007 $TM_{179}$ 10 24.8 49°.33 6°.1/21.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 28.44 | + 1 51.0 | 1.012 | 1.886 | 20.7 | 19.4 |
| 9 28 | 2 23.51 | + 1 1.7 | 0.981 | 1.909 | 15.8 | 19.2 |
| 10 8 | 2 15.29 | + 0 11.9 | 0.967 | 1.934 | 10.6 | 19.0 |
| 10 18 | 2 4.96 | − 0 29.4 | 0.976 | 1.959 | 6.6 | 18.9 |
| 10 28 | 1 54.21 | − 0 53.4 | 1.007 | 1.985 | 7.2 | 19.0 |
| 11 7 | 1 44.73 | − 0 55.0 | 1.063 | 2.011 | 11.3 | 19.3 |
| 11 17 | 1 37.75 | − 0 32.8 | 1.140 | 2.038 | 15.6 | 19.7 |
| 11 27 | 1 33.97 | + 0 11.1 | 1.236 | 2.064 | 19.3 | 20.0 |

**123988** 2001 $FF_{62}$ 10 24.8 300°.87 4°.3/20.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.58 | + 2 26.4 | 2.126 | 2.974 | 12.3 | 19.6 |
| 9 28 | 2 14.87 | + 1 18.2 | 2.049 | 2.965 | 9.5 | 19.4 |
| 10 8 | 2 9.35 | + 0 6.3 | 1.996 | 2.957 | 6.5 | 19.2 |
| 10 18 | 2 2.55 | − 1 3.6 | 1.970 | 2.949 | 4.4 | 19.1 |
| 10 28 | 1 55.23 | − 2 5.1 | 1.972 | 2.941 | 5.2 | 19.1 |
| 11 7 | 1 48.24 | − 2 52.5 | 2.002 | 2.933 | 8.0 | 19.3 |
| 11 17 | 1 42.32 | − 3 22.1 | 2.058 | 2.926 | 11.1 | 19.5 |
| 11 27 | 1 38.12 | − 3 32.2 | 2.136 | 2.918 | 13.8 | 19.7 |

**265213** 2004 $CJ_{18}$ 10 24.8 263°.17 2°.0/23.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.17 | + 9 30.9 | 1.625 | 2.465 | 15.8 | 21.9 |
| 9 28 | 2 20.69 | + 8 57.6 | 1.536 | 2.449 | 12.2 | 21.6 |
| 10 8 | 2 13.57 | + 8 14.1 | 1.468 | 2.433 | 8.0 | 21.3 |
| 10 18 | 2 4.43 | + 7 24.4 | 1.426 | 2.416 | 3.4 | 21.0 |
| 10 28 | 1 54.32 | + 6 34.4 | 1.410 | 2.399 | 3.1 | 21.0 |
| 11 7 | 1 44.52 | + 5 51.4 | 1.423 | 2.382 | 7.8 | 21.2 |
| 11 17 | 1 36.25 | + 5 21.3 | 1.460 | 2.364 | 12.4 | 21.4 |
| 11 27 | 1 30.43 | + 5 8.4 | 1.520 | 2.346 | 16.4 | 21.6 |

**41907** 2000 $WF_{137}$ 10 24.8 331°.40 11°.4/16.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.08 | −13 5.3 | 1.489 | 2.340 | 16.4 | 18.3 |
| 9 28 | 2 19.02 | −14 34.4 | 1.435 | 2.333 | 13.9 | 18.1 |
| 10 8 | 2 12.37 | −15 51.8 | 1.401 | 2.326 | 12.0 | 18.0 |
| 10 18 | 2 3.86 | −16 46.9 | 1.390 | 2.319 | 11.5 | 17.9 |
| 10 28 | 1 54.65 | −17 10.9 | 1.402 | 2.313 | 12.6 | 18.0 |
| 11 7 | 1 46.04 | −16 59.4 | 1.436 | 2.308 | 14.9 | 18.1 |
| 11 17 | 1 39.12 | −16 13.3 | 1.490 | 2.302 | 17.5 | 18.3 |
| 11 27 | 1 34.70 | −14 56.9 | 1.563 | 2.298 | 20.0 | 18.5 |

**79267** 1995 $OE_{6}$ 10 24.8 286°.80 2°.8/22.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.37 | + 8 29.3 | 1.451 | 2.303 | 16.8 | 20.2 |
| 9 28 | 2 19.54 | + 7 45.3 | 1.369 | 2.289 | 12.9 | 19.9 |
| 10 8 | 2 12.93 | + 6 50.4 | 1.308 | 2.274 | 8.4 | 19.6 |
| 10 18 | 2 4.19 | + 5 50.0 | 1.270 | 2.260 | 3.9 | 19.3 |
| 10 28 | 1 54.46 | + 4 51.6 | 1.259 | 2.246 | 4.0 | 19.3 |
| 11 7 | 1 45.11 | + 4 3.5 | 1.274 | 2.231 | 8.7 | 19.6 |
| 11 17 | 1 37.42 | + 3 32.4 | 1.313 | 2.217 | 13.5 | 19.8 |
| 11 27 | 1 32.36 | + 3 22.2 | 1.373 | 2.203 | 17.7 | 20.0 |

**285034** 2011 $EJ_{42}$ 10 24.8 122°.65 1°.1/23.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.40 | +11 19.2 | 1.836 | 2.662 | 14.9 | 21.5 |
| 9 28 | 2 20.98 | +10 50.1 | 1.770 | 2.676 | 11.3 | 21.3 |
| 10 8 | 2 13.34 | +10 11.6 | 1.728 | 2.689 | 7.3 | 21.1 |
| 10 18 | 2 4.18 | + 9 27.3 | 1.711 | 2.702 | 2.9 | 20.8 |
| 10 28 | 1 54.52 | + 8 42.2 | 1.724 | 2.714 | 2.1 | 20.8 |
| 11 7 | 1 45.44 | + 8 1.9 | 1.765 | 2.726 | 6.3 | 21.1 |
| 11 17 | 1 37.86 | + 7 31.3 | 1.833 | 2.737 | 10.2 | 21.4 |
| 11 27 | 1 32.48 | + 7 13.9 | 1.925 | 2.748 | 13.6 | 21.6 |

**219474** 2001 $CH_{24}$ 10 24.8 249°.41 1°.1/23.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.19 | +11 3.1 | 2.424 | 3.248 | 11.8 | 21.0 |
| 9 28 | 2 15.95 | +10 26.8 | 2.332 | 3.237 | 9.0 | 20.8 |
| 10 8 | 2 10.00 | + 9 42.4 | 2.265 | 3.226 | 5.8 | 20.6 |
| 10 18 | 2 2.83 | + 8 52.7 | 2.224 | 3.214 | 2.4 | 20.3 |
| 10 28 | 1 55.12 | + 8 1.9 | 2.213 | 3.203 | 1.9 | 20.3 |
| 11 7 | 1 47.67 | + 7 14.8 | 2.232 | 3.191 | 5.4 | 20.5 |
| 11 17 | 1 41.20 | + 6 35.6 | 2.279 | 3.179 | 8.7 | 20.7 |
| 11 27 | 1 36.31 | + 6 7.9 | 2.351 | 3.166 | 11.7 | 20.9 |

**521440** 2015 $NE_{28}$ 10 24.8 119°.12 7°.6/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.34 | − 6 29.3 | 1.915 | 2.761 | 13.6 | 21.4 |
| 9 28 | 2 17.76 | − 7 57.0 | 1.863 | 2.768 | 10.9 | 21.2 |
| 10 8 | 2 11.19 | − 9 20.1 | 1.835 | 2.776 | 8.5 | 21.1 |
| 10 18 | 2 3.29 | −10 30.8 | 1.833 | 2.783 | 7.6 | 21.1 |
| 10 28 | 1 54.95 | −11 21.8 | 1.857 | 2.790 | 8.6 | 21.2 |
| 11 7 | 1 47.13 | −11 48.7 | 1.907 | 2.797 | 10.8 | 21.3 |
| 11 17 | 1 40.65 | −11 50.2 | 1.981 | 2.804 | 13.3 | 21.5 |
| 11 27 | 1 36.12 | −11 27.7 | 2.075 | 2.811 | 15.7 | 21.7 |

**312574** 2009 $HR_{65}$ 10 24.8 149°.52 3°.7/21.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.42 | + 1 49.4 | 2.183 | 3.017 | 12.5 | 21.4 |
| 9 28 | 2 19.16 | + 1 18.5 | 2.113 | 3.022 | 9.6 | 21.3 |
| 10 8 | 2 12.04 | + 0 46.7 | 2.068 | 3.026 | 6.5 | 21.1 |
| 10 18 | 2 3.64 | + 0 18.1 | 2.049 | 3.030 | 4.0 | 20.9 |
| 10 28 | 1 54.78 | − 0 2.9 | 2.060 | 3.034 | 4.4 | 21.0 |
| 11 7 | 1 46.34 | − 0 12.7 | 2.099 | 3.038 | 7.2 | 21.2 |
| 11 17 | 1 39.09 | − 0 8.9 | 2.165 | 3.041 | 10.3 | 21.4 |
| 11 27 | 1 33.66 | + 0 9.2 | 2.256 | 3.044 | 13.0 | 21.5 |

**379203** 2009 $SF_{66}$ 10 24.8 333°.03 2°.3/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.00 | + 8 56.2 | 1.185 | 2.052 | 18.7 | 20.0 |
| 9 28 | 2 18.29 | + 8 37.7 | 1.109 | 2.037 | 14.5 | 19.7 |
| 10 8 | 2 12.41 | + 8 8.8 | 1.053 | 2.023 | 9.4 | 19.4 |
| 10 18 | 2 4.07 | + 7 33.9 | 1.018 | 2.009 | 4.1 | 19.0 |
| 10 28 | 1 54.54 | + 7 0.0 | 1.007 | 1.997 | 3.6 | 19.0 |
| 11 7 | 1 45.45 | + 6 35.0 | 1.020 | 1.985 | 9.0 | 19.2 |
| 11 17 | 1 38.28 | + 6 25.3 | 1.055 | 1.975 | 14.4 | 19.5 |
| 11 27 | 1 34.14 | + 6 35.1 | 1.110 | 1.966 | 19.1 | 19.8 |

**383010** 2005 $MY_{12}$ 10 24.8 67°.91 15°.1/11.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 34.68 | +51 42.9 | 1.582 | 2.207 | 24.3 | 19.8 |
| 9 28 | 2 29.53 | +53 6.6 | 1.527 | 2.229 | 22.4 | 19.7 |
| 10 8 | 2 20.00 | +53 53.9 | 1.484 | 2.251 | 20.2 | 19.6 |
| 10 18 | 2 7.18 | +53 55.5 | 1.455 | 2.273 | 18.0 | 19.5 |
| 10 28 | 1 53.15 | +53 6.6 | 1.444 | 2.295 | 16.2 | 19.5 |
| 11 7 | 1 40.37 | +51 30.4 | 1.453 | 2.317 | 15.2 | 19.5 |
| 11 17 | 1 30.76 | +49 17.8 | 1.483 | 2.338 | 15.3 | 19.5 |
| 11 27 | 1 25.37 | +46 44.7 | 1.535 | 2.360 | 16.3 | 19.7 |

**376663** 2013 $QS_9$ 10 24.8 127°.00 0°.5/25.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.25 | +16 9.7 | 1.656 | 2.473 | 16.6 | 22.2 |
| 9 28 | 2 22.67 | +15 42.7 | 1.590 | 2.488 | 12.8 | 22.0 |
| 10 8 | 2 14.56 | +15 0.9 | 1.546 | 2.502 | 8.5 | 21.8 |
| 10 18 | 2 4.73 | +14 7.1 | 1.528 | 2.516 | 3.6 | 21.6 |
| 10 28 | 1 54.31 | +13 6.6 | 1.537 | 2.529 | 1.5 | 21.4 |
| 11 7 | 1 44.58 | +12 6.5 | 1.575 | 2.541 | 6.2 | 21.8 |
| 11 17 | 1 36.58 | +11 13.9 | 1.639 | 2.553 | 10.6 | 22.1 |
| 11 27 | 1 31.06 | +10 34.3 | 1.728 | 2.564 | 14.3 | 22.3 |

**185087** 2006 $RA_{93}$ 10 24.8 74°.67 2°.8/26.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.00 | +19 8.8 | 1.384 | 2.204 | 19.1 | 20.7 |
| 9 28 | 2 23.80 | +19 25.1 | 1.324 | 2.219 | 15.1 | 20.5 |
| 10 8 | 2 15.57 | +19 24.0 | 1.284 | 2.235 | 10.4 | 20.3 |
| 10 18 | 2 5.21 | +19 5.2 | 1.267 | 2.250 | 5.5 | 20.0 |
| 10 28 | 1 54.09 | +18 32.2 | 1.275 | 2.265 | 2.9 | 19.9 |
| 11 7 | 1 43.77 | +17 51.4 | 1.310 | 2.280 | 6.8 | 20.2 |
| 11 17 | 1 35.54 | +17 10.6 | 1.371 | 2.295 | 11.4 | 20.5 |
| 11 27 | 1 30.25 | +16 37.4 | 1.454 | 2.310 | 15.4 | 20.8 |

**78604** 2002 $SS_{37}$ 10 24.8 56°.34 0°.5/25.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.50 | +14 27.8 | 1.793 | 2.616 | 15.3 | 19.3 |
| 9 28 | 2 19.75 | +14 26.0 | 1.720 | 2.622 | 11.8 | 19.1 |
| 10 8 | 2 12.70 | +14 13.3 | 1.670 | 2.627 | 7.8 | 18.9 |
| 10 18 | 2 3.99 | +13 51.2 | 1.644 | 2.633 | 3.4 | 18.6 |
| 10 28 | 1 54.64 | +13 23.4 | 1.646 | 2.639 | 1.4 | 18.5 |
| 11 7 | 1 45.78 | +12 54.7 | 1.677 | 2.645 | 5.8 | 18.8 |
| 11 17 | 1 38.39 | +12 30.2 | 1.734 | 2.650 | 9.9 | 19.1 |
| 11 27 | 1 33.23 | +12 14.5 | 1.815 | 2.657 | 13.5 | 19.3 |

**6327** Tijn 10 24.8 129°.03 6°.0/18.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.72 | − 5 2.6 | 2.346 | 3.181 | 11.7 | 18.1 |
| 9 28 | 2 17.64 | − 6 16.8 | 2.294 | 3.196 | 9.3 | 17.9 |
| 10 8 | 2 10.94 | − 7 27.7 | 2.268 | 3.210 | 7.0 | 17.8 |
| 10 18 | 2 3.16 | − 8 29.3 | 2.269 | 3.224 | 6.0 | 17.8 |
| 10 28 | 1 55.07 | − 9 16.1 | 2.298 | 3.238 | 6.8 | 17.9 |
| 11 7 | 1 47.43 | − 9 44.4 | 2.355 | 3.250 | 8.8 | 18.0 |
| 11 17 | 1 40.92 | − 9 52.8 | 2.438 | 3.263 | 11.1 | 18.2 |
| 11 27 | 1 36.06 | − 9 41.7 | 2.542 | 3.274 | 13.2 | 18.4 |

**411506** 2011 $BY_8$ 10 24.8 298°.86 3°.3/21.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.39 | + 4 9.8 | 2.149 | 2.990 | 12.4 | 21.3 |
| 9 28 | 2 16.29 | + 3 30.5 | 2.066 | 2.980 | 9.5 | 21.1 |
| 10 8 | 2 10.32 | + 2 47.5 | 2.007 | 2.969 | 6.3 | 20.9 |
| 10 18 | 2 3.01 | + 2 5.1 | 1.974 | 2.958 | 3.6 | 20.7 |
| 10 28 | 1 55.12 | + 1 28.3 | 1.969 | 2.948 | 4.1 | 20.7 |
| 11 7 | 1 47.53 | + 1 1.8 | 1.993 | 2.938 | 7.1 | 20.9 |
| 11 17 | 1 41.03 | + 0 49.0 | 2.043 | 2.928 | 10.4 | 21.0 |
| 11 27 | 1 36.28 | + 0 51.7 | 2.117 | 2.918 | 13.3 | 21.2 |

**215383** 2002 $CF_{37}$ 10 24.8 150°.09 4°.3/21.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.64 | + 4 24.7 | 1.592 | 2.437 | 15.8 | 20.5 |
| 9 28 | 2 21.49 | + 3 23.5 | 1.528 | 2.444 | 12.1 | 20.3 |
| 10 8 | 2 13.85 | + 2 16.9 | 1.487 | 2.450 | 8.0 | 20.1 |
| 10 18 | 2 4.47 | + 1 11.7 | 1.472 | 2.456 | 4.7 | 19.9 |
| 10 28 | 1 54.48 | + 0 15.6 | 1.484 | 2.461 | 5.4 | 20.0 |
| 11 7 | 1 45.10 | − 0 24.6 | 1.523 | 2.466 | 9.0 | 20.2 |
| 11 17 | 1 37.41 | − 0 44.7 | 1.587 | 2.470 | 12.9 | 20.4 |
| 11 27 | 1 32.13 | − 0 43.5 | 1.673 | 2.474 | 16.3 | 20.7 |

**407008** 2009 $RD_{74}$ 10 24.8 314°.80 1°.5/23.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.89 | +11 49.5 | 2.105 | 2.938 | 13.0 | 20.8 |
| 9 28 | 2 14.43 | +10 47.7 | 2.020 | 2.931 | 9.9 | 20.6 |
| 10 8 | 2 9.13 | + 9 34.7 | 1.960 | 2.924 | 6.3 | 20.4 |
| 10 18 | 2 2.51 | + 8 14.8 | 1.926 | 2.916 | 2.6 | 20.1 |
| 10 28 | 1 55.36 | + 6 54.2 | 1.921 | 2.909 | 2.4 | 20.1 |
| 11 7 | 1 48.54 | + 5 39.5 | 1.945 | 2.903 | 6.1 | 20.3 |
| 11 17 | 1 42.82 | + 4 36.6 | 1.996 | 2.896 | 9.8 | 20.5 |
| 11 27 | 1 38.85 | + 3 49.8 | 2.071 | 2.890 | 12.9 | 20.7 |

**37987** 1998 $HO_{145}$ 10 24.8 200°.98 2°.1/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.29 | + 8 59.5 | 1.956 | 2.789 | 13.8 | 19.6 |
| 9 28 | 2 18.64 | + 8 16.0 | 1.877 | 2.787 | 10.5 | 19.4 |
| 10 8 | 2 11.90 | + 7 24.3 | 1.822 | 2.785 | 6.8 | 19.1 |
| 10 18 | 2 3.67 | + 6 28.5 | 1.792 | 2.782 | 3.0 | 18.9 |
| 10 28 | 1 54.84 | + 5 34.3 | 1.792 | 2.779 | 3.0 | 18.9 |
| 11 7 | 1 46.40 | + 4 47.6 | 1.820 | 2.775 | 6.7 | 19.1 |
| 11 17 | 1 39.26 | + 4 13.1 | 1.875 | 2.771 | 10.5 | 19.3 |
| 11 27 | 1 34.11 | + 3 54.3 | 1.954 | 2.767 | 13.8 | 19.6 |

**24655** 1987 $QH$ 10 24.8 38°.80 8°.0/30.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.63 | +28 21.5 | 1.043 | 1.856 | 24.5 | 16.8 |
| 9 28 | 2 24.30 | +29 17.9 | 1.006 | 1.884 | 20.2 | 16.6 |
| 10 8 | 2 16.18 | +29 42.9 | 0.984 | 1.913 | 15.4 | 16.4 |
| 10 18 | 2 5.47 | +29 32.7 | 0.982 | 1.944 | 10.8 | 16.3 |
| 10 28 | 1 54.07 | +28 49.5 | 1.001 | 1.975 | 8.0 | 16.2 |
| 11 7 | 1 43.99 | +27 42.7 | 1.043 | 2.007 | 9.2 | 16.4 |
| 11 17 | 1 36.70 | +26 25.6 | 1.109 | 2.039 | 12.7 | 16.7 |
| 11 27 | 1 33.03 | +25 11.4 | 1.195 | 2.072 | 16.5 | 17.1 |

**143615** 2003 $GK_4$ 10 24.8 267°.99 0°.1/24.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.20 | +14 27.5 | 1.721 | 2.548 | 15.7 | 20.9 |
| 9 28 | 2 19.88 | +14 7.2 | 1.628 | 2.532 | 12.2 | 20.6 |
| 10 8 | 2 13.04 | +13 33.6 | 1.557 | 2.516 | 8.1 | 20.3 |
| 10 18 | 2 4.26 | +12 48.7 | 1.510 | 2.500 | 3.4 | 20.0 |
| 10 28 | 1 54.54 | +11 57.2 | 1.491 | 2.483 | 1.6 | 19.8 |
| 11 7 | 1 45.11 | +11 5.5 | 1.500 | 2.467 | 6.5 | 20.1 |
| 11 17 | 1 37.12 | +10 20.4 | 1.535 | 2.450 | 11.1 | 20.4 |
| 11 27 | 1 31.48 | + 9 47.8 | 1.594 | 2.433 | 15.2 | 20.6 |

**382300** 2012 $VP_{77}$ 10 24.8 273°.27 3°.7/21.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.98 | + 5 32.3 | 1.783 | 2.629 | 14.4 | 20.6 |
| 9 28 | 2 17.93 | + 4 34.9 | 1.699 | 2.616 | 11.0 | 20.3 |
| 10 8 | 2 11.61 | + 3 30.4 | 1.639 | 2.603 | 7.3 | 20.1 |
| 10 18 | 2 3.61 | + 2 24.5 | 1.604 | 2.590 | 4.1 | 19.9 |
| 10 28 | 1 54.87 | + 1 24.2 | 1.597 | 2.576 | 4.7 | 19.9 |
| 11 7 | 1 46.47 | + 0 36.5 | 1.617 | 2.563 | 8.3 | 20.1 |
| 11 17 | 1 39.41 | + 0 6.3 | 1.662 | 2.549 | 12.2 | 20.3 |
| 11 27 | 1 34.46 | − 0 3.5 | 1.730 | 2.536 | 15.6 | 20.5 |

**514634** 2004 $TD_{233}$ 10 24.8 52°.47 0°.6/25.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.47 | +12 5.1 | 2.079 | 2.890 | 13.9 | 20.8 |
| 9 28 | 2 23.26 | +12 39.6 | 2.002 | 2.897 | 10.8 | 20.6 |
| 10 8 | 2 14.86 | +13 8.1 | 1.949 | 2.904 | 7.1 | 20.4 |
| 10 18 | 2 4.90 | +13 30.8 | 1.923 | 2.911 | 3.1 | 20.2 |
| 10 28 | 1 54.30 | +13 48.7 | 1.927 | 2.919 | 1.3 | 20.0 |
| 11 7 | 1 44.11 | +14 4.2 | 1.961 | 2.926 | 5.3 | 20.3 |
| 11 17 | 1 35.29 | +14 19.8 | 2.023 | 2.934 | 9.0 | 20.6 |
| 11 27 | 1 28.56 | +14 38.6 | 2.111 | 2.942 | 12.3 | 20.8 |

**10960** Gran Sasso 10 24.8 161°.08 1°.7/23.7 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.91 | + 9 57.1 | 1.589 | 2.424 | 16.4 | 18.1 |
| 9 28 | 2 22.60 | + 9 28.9 | 1.518 | 2.429 | 12.5 | 17.9 |
| 10 8 | 2 14.67 | + 8 51.1 | 1.469 | 2.432 | 8.1 | 17.6 |
| 10 18 | 2 4.86 | + 8 7.7 | 1.446 | 2.436 | 3.4 | 17.4 |
| 10 28 | 1 54.33 | + 7 24.6 | 1.449 | 2.439 | 2.8 | 17.3 |
| 11 7 | 1 44.37 | + 6 48.1 | 1.481 | 2.441 | 7.4 | 17.6 |
| 11 17 | 1 36.13 | + 6 23.6 | 1.538 | 2.443 | 11.8 | 17.9 |
| 11 27 | 1 30.41 | + 6 14.7 | 1.618 | 2.444 | 15.6 | 18.1 |

**223580** 2004 $FD_{83}$ 10 24.8 160°.11 0°.2/24.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.56 | +14 36.7 | 1.880 | 2.696 | 15.0 | 21.1 |
| 9 28 | 2 21.23 | +14 16.0 | 1.804 | 2.702 | 11.6 | 20.8 |
| 10 8 | 2 13.62 | +13 43.3 | 1.750 | 2.707 | 7.6 | 20.6 |
| 10 18 | 2 4.40 | +13 1.1 | 1.723 | 2.712 | 3.2 | 20.4 |
| 10 28 | 1 54.55 | +12 13.7 | 1.723 | 2.716 | 1.4 | 20.2 |
| 11 7 | 1 45.19 | +11 26.8 | 1.753 | 2.719 | 5.9 | 20.6 |
| 11 17 | 1 37.30 | +10 46.2 | 1.811 | 2.722 | 9.9 | 20.8 |
| 11 27 | 1 31.60 | +10 16.5 | 1.893 | 2.724 | 13.4 | 21.0 |

**101544** 1998 $YS_{21}$ 10 24.8 299°.48 2°.3/27.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.30 | +20 47.8 | 2.269 | 3.066 | 13.3 | 19.7 |
| 9 28 | 2 16.34 | +20 44.2 | 2.172 | 3.053 | 10.7 | 19.5 |
| 10 8 | 2 10.44 | +20 27.0 | 2.097 | 3.039 | 7.5 | 19.3 |
| 10 18 | 2 3.11 | +19 56.5 | 2.047 | 3.026 | 4.2 | 19.0 |
| 10 28 | 1 55.12 | +19 15.1 | 2.025 | 3.014 | 2.3 | 18.9 |
| 11 7 | 1 47.37 | +18 27.1 | 2.032 | 3.001 | 4.9 | 19.0 |
| 11 17 | 1 40.70 | +17 37.6 | 2.068 | 2.988 | 8.3 | 19.2 |
| 11 27 | 1 35.82 | +16 52.4 | 2.128 | 2.976 | 11.5 | 19.4 |

**133964** 2004 $TB_{153}$ 10 24.8 36°.09 0°.2/24.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.75 | +14 25.9 | 1.244 | 2.092 | 19.2 | 20.9 |
| 9 28 | 2 20.87 | +13 57.8 | 1.179 | 2.095 | 14.9 | 20.6 |
| 10 8 | 2 13.88 | +13 12.7 | 1.133 | 2.097 | 9.7 | 20.3 |
| 10 18 | 2 4.62 | +12 14.4 | 1.109 | 2.100 | 4.0 | 20.0 |
| 10 28 | 1 54.46 | +11 10.0 | 1.111 | 2.103 | 2.0 | 19.9 |
| 11 7 | 1 44.99 | +10 8.9 | 1.137 | 2.106 | 7.8 | 20.3 |
| 11 17 | 1 37.57 | + 9 19.7 | 1.188 | 2.109 | 13.1 | 20.6 |
| 11 27 | 1 33.14 | + 8 48.7 | 1.260 | 2.112 | 17.5 | 20.8 |

**24739** 1992 $EB_{15}$ 10 24.8 87°.75 1°.6/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 21.80 | +10 51.4 | 1.810 | 2.647 | 14.6 | 18.9 |
| 9 28 | 2 17.62 | +10 4.7 | 1.738 | 2.649 | 11.1 | 18.7 |
| 10 8 | 2 11.29 | + 9 7.6 | 1.688 | 2.652 | 7.1 | 18.5 |
| 10 18 | 2 3.44 | + 8 4.8 | 1.665 | 2.655 | 3.0 | 18.2 |
| 10 28 | 1 55.01 | + 7 2.2 | 1.669 | 2.658 | 2.6 | 18.2 |
| 11 7 | 1 47.06 | + 6 6.5 | 1.702 | 2.661 | 6.7 | 18.5 |
| 11 17 | 1 40.48 | + 5 23.4 | 1.761 | 2.664 | 10.7 | 18.7 |
| 11 27 | 1 35.99 | + 4 56.5 | 1.843 | 2.667 | 14.1 | 19.0 |

**103817** 2000 $DW_{20}$ 10 24.8 263°.43 0°.7/24.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.07 | +12 50.0 | 1.873 | 2.703 | 14.5 | 20.2 |
| 9 28 | 2 17.86 | +12 18.0 | 1.793 | 2.700 | 11.1 | 20.0 |
| 10 8 | 2 11.47 | +11 34.9 | 1.736 | 2.698 | 7.2 | 19.8 |
| 10 18 | 2 3.53 | +10 43.7 | 1.705 | 2.695 | 2.9 | 19.5 |
| 10 28 | 1 54.96 | + 9 49.7 | 1.702 | 2.693 | 1.8 | 19.4 |
| 11 7 | 1 46.78 | + 8 58.9 | 1.726 | 2.690 | 6.1 | 19.7 |
| 11 17 | 1 39.94 | + 8 17.0 | 1.778 | 2.688 | 10.2 | 20.0 |
| 11 27 | 1 35.16 | + 7 48.3 | 1.854 | 2.685 | 13.7 | 20.2 |

**322834** 2001 $TG_{48}$ 10 24.8 331°.12 1°.0/24.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.20 | +13 26.8 | 1.134 | 1.996 | 19.8 | 21.2 |
| 9 28 | 2 18.52 | +12 48.7 | 1.063 | 1.987 | 15.3 | 20.9 |
| 10 8 | 2 12.60 | +11 52.1 | 1.011 | 1.979 | 10.0 | 20.6 |
| 10 18 | 2 4.17 | +10 41.5 | 0.980 | 1.972 | 4.0 | 20.2 |
| 10 28 | 1 54.64 | + 9 25.6 | 0.974 | 1.965 | 2.6 | 20.1 |
| 11 7 | 1 45.69 | + 8 15.5 | 0.991 | 1.959 | 8.7 | 20.4 |
| 11 17 | 1 38.80 | + 7 21.3 | 1.031 | 1.954 | 14.4 | 20.7 |
| 11 27 | 1 35.03 | + 6 49.6 | 1.090 | 1.949 | 19.2 | 21.0 |

**471514** 2012 $DO_{53}$ 10 24.8 109°.19 0°.9/24.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.10 | +11 36.2 | 1.588 | 2.418 | 16.6 | 21.7 |
| 9 28 | 2 23.35 | +11 16.7 | 1.528 | 2.434 | 12.7 | 21.5 |
| 10 8 | 2 15.04 | +10 47.0 | 1.489 | 2.450 | 8.2 | 21.3 |
| 10 18 | 2 4.97 | +10 10.3 | 1.476 | 2.466 | 3.3 | 21.0 |
| 10 28 | 1 54.34 | + 9 31.9 | 1.490 | 2.481 | 2.1 | 21.0 |
| 11 7 | 1 44.42 | + 8 57.9 | 1.532 | 2.496 | 6.8 | 21.3 |
| 11 17 | 1 36.30 | + 8 33.3 | 1.601 | 2.510 | 11.2 | 21.6 |
| 11 27 | 1 30.72 | + 8 22.1 | 1.693 | 2.524 | 14.8 | 21.9 |

**482798** 2013 $QK_{48}$ 10 24.8 269°.22 11°.3/15.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 47.55 | − 9 24.4 | 1.760 | 2.557 | 16.6 | 22.6 |
| 9 28 | 2 38.80 | −11 57.7 | 1.638 | 2.508 | 14.1 | 22.3 |
| 10 8 | 2 26.20 | −14 38.5 | 1.542 | 2.455 | 11.9 | 22.0 |
| 10 18 | 2 10.12 | −17 12.4 | 1.475 | 2.398 | 11.4 | 21.8 |
| 10 28 | 1 51.69 | −19 22.1 | 1.439 | 2.337 | 13.3 | 21.8 |
| 11 7 | 1 32.68 | −20 52.7 | 1.434 | 2.272 | 16.8 | 21.9 |
| 11 17 | 1 15.04 | −21 37.1 | 1.454 | 2.202 | 20.8 | 22.0 |
| 11 27 | 1 0.42 | −21 36.3 | 1.493 | 2.128 | 24.5 | 22.0 |

**185237** 2006 $TP_{121}$ 10 24.8 336°.99 0°.3/25.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.26 | +15 4.8 | 1.862 | 2.688 | 14.7 | 20.7 |
| 9 28 | 2 17.29 | +14 42.4 | 1.782 | 2.685 | 11.4 | 20.5 |
| 10 8 | 2 11.14 | +14 7.5 | 1.724 | 2.682 | 7.5 | 20.3 |
| 10 18 | 2 3.41 | +13 22.4 | 1.691 | 2.680 | 3.2 | 20.0 |
| 10 28 | 1 55.03 | +12 31.7 | 1.685 | 2.678 | 1.4 | 19.9 |
| 11 7 | 1 47.05 | +11 41.2 | 1.708 | 2.676 | 5.8 | 20.2 |
| 11 17 | 1 40.40 | +10 56.9 | 1.758 | 2.674 | 9.9 | 20.4 |
| 11 27 | 1 35.82 | +10 23.9 | 1.832 | 2.672 | 13.4 | 20.6 |

**327749** 2006 $TA_{69}$ 10 24.8 38°.33 2°.5/23.5 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.79 | + 7 38.1 | 1.175 | 2.036 | 19.3 | 19.9 |
| 9 28 | 2 22.34 | + 7 25.2 | 1.123 | 2.046 | 14.7 | 19.6 |
| 10 8 | 2 14.74 | + 7 4.8 | 1.089 | 2.057 | 9.5 | 19.4 |
| 10 18 | 2 4.93 | + 6 41.8 | 1.079 | 2.069 | 4.2 | 19.1 |
| 10 28 | 1 54.38 | + 6 22.4 | 1.093 | 2.082 | 3.7 | 19.1 |
| 11 7 | 1 44.70 | + 6 12.7 | 1.132 | 2.095 | 8.7 | 19.5 |
| 11 17 | 1 37.20 | + 6 17.1 | 1.194 | 2.108 | 13.6 | 19.8 |
| 11 27 | 1 32.76 | + 6 37.7 | 1.277 | 2.122 | 17.8 | 20.1 |

**476711** 2008 $TN_{172}$ 10 24.8 337°.56 5°.1/22.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.25 | + 1 41.3 | 1.238 | 2.107 | 18.0 | 20.4 |
| 9 28 | 2 19.88 | + 1 26.2 | 1.164 | 2.091 | 14.0 | 20.1 |
| 10 8 | 2 13.40 | + 1 10.5 | 1.109 | 2.076 | 9.5 | 19.8 |
| 10 18 | 2 4.51 | + 1 0.2 | 1.077 | 2.062 | 5.7 | 19.6 |
| 10 28 | 1 54.50 | + 1 2.2 | 1.068 | 2.049 | 6.1 | 19.6 |
| 11 7 | 1 44.94 | + 1 21.7 | 1.084 | 2.038 | 10.4 | 19.8 |
| 11 17 | 1 37.25 | + 2 1.1 | 1.123 | 2.028 | 15.1 | 20.0 |
| 11 27 | 1 32.52 | + 3 0.1 | 1.181 | 2.020 | 19.4 | 20.3 |

**298645** 2004 $BT_{90}$ 10 24.8 206°.25 1°.0/25.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.00 | +17 17.8 | 2.271 | 3.075 | 13.1 | 21.0 |
| 9 28 | 2 18.26 | +17 0.4 | 2.182 | 3.071 | 10.2 | 20.8 |
| 10 8 | 2 11.61 | +16 31.1 | 2.116 | 3.067 | 6.9 | 20.6 |
| 10 18 | 2 3.58 | +15 51.3 | 2.076 | 3.063 | 3.2 | 20.3 |
| 10 28 | 1 54.97 | +15 4.2 | 2.066 | 3.058 | 1.3 | 20.2 |
| 11 7 | 1 46.67 | +14 14.6 | 2.085 | 3.052 | 4.9 | 20.4 |
| 11 17 | 1 39.51 | +13 27.6 | 2.133 | 3.047 | 8.5 | 20.6 |
| 11 27 | 1 34.15 | +12 48.1 | 2.206 | 3.041 | 11.7 | 20.8 |

**523210** 2016 $VU_{20}$ 10 24.8 335°.48 5°.9/20.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.84 | − 2 58.7 | 1.883 | 2.730 | 13.7 | 21.1 |
| 9 28 | 2 18.32 | − 3 43.6 | 1.815 | 2.727 | 10.7 | 20.9 |
| 10 8 | 2 11.71 | − 4 26.4 | 1.770 | 2.723 | 7.8 | 20.8 |
| 10 18 | 2 3.63 | − 5 0.8 | 1.750 | 2.720 | 6.0 | 20.7 |
| 10 28 | 1 54.97 | − 5 21.2 | 1.757 | 2.717 | 6.8 | 20.7 |
| 11 7 | 1 46.74 | − 5 23.4 | 1.791 | 2.714 | 9.4 | 20.9 |
| 11 17 | 1 39.84 | − 5 5.7 | 1.850 | 2.711 | 12.4 | 21.0 |
| 11 27 | 1 34.94 | − 4 28.7 | 1.931 | 2.709 | 15.2 | 21.2 |

**353090** 2009 $DR_{134}$ 10 24.8 287°.02 1°.6/26.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.66 | +17 48.7 | 1.877 | 2.690 | 15.1 | 21.4 |
| 9 28 | 2 19.19 | +17 47.6 | 1.794 | 2.687 | 11.9 | 21.1 |
| 10 8 | 2 12.43 | +17 33.1 | 1.732 | 2.684 | 8.1 | 20.9 |
| 10 18 | 2 3.98 | +17 6.0 | 1.695 | 2.681 | 4.0 | 20.7 |
| 10 28 | 1 54.81 | +16 29.4 | 1.686 | 2.678 | 1.8 | 20.5 |
| 11 7 | 1 46.01 | +15 48.3 | 1.705 | 2.675 | 5.6 | 20.7 |
| 11 17 | 1 38.59 | +15 8.5 | 1.752 | 2.672 | 9.6 | 21.0 |
| 11 27 | 1 33.34 | +14 35.8 | 1.822 | 2.669 | 13.2 | 21.2 |

**69294** 1991 $PU_{9}$ 10 24.8 92°.73 8°.2/14.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.30 | −15 24.6 | 2.582 | 3.402 | 11.3 | 18.5 |
| 9 28 | 2 16.42 | −17 3.0 | 2.557 | 3.428 | 9.6 | 18.4 |
| 10 8 | 2 10.09 | −18 30.7 | 2.557 | 3.454 | 8.5 | 18.4 |
| 10 18 | 2 2.85 | −19 41.4 | 2.583 | 3.480 | 8.3 | 18.4 |
| 10 28 | 1 55.38 | −20 30.4 | 2.636 | 3.505 | 9.1 | 18.5 |
| 11 7 | 1 48.38 | −20 55.5 | 2.714 | 3.530 | 10.4 | 18.7 |
| 11 17 | 1 42.45 | −20 56.9 | 2.814 | 3.555 | 11.9 | 18.8 |
| 11 27 | 1 38.03 | −20 36.7 | 2.934 | 3.579 | 13.2 | 19.0 |

**220902** 2004 $YH_{33}$ 10 24.8 354°.00 4°.1/21.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 14.34 | + 6 12.2 | 1.345 | 2.219 | 16.5 | 19.1 |
| 9 28 | 2 12.64 | + 5 13.5 | 1.277 | 2.209 | 12.6 | 18.8 |
| 10 8 | 2 8.44 | + 4 6.0 | 1.230 | 2.201 | 8.2 | 18.5 |
| 10 18 | 2 2.39 | + 2 56.9 | 1.206 | 2.194 | 4.6 | 18.3 |
| 10 28 | 1 55.56 | + 1 55.3 | 1.207 | 2.189 | 5.3 | 18.3 |
| 11 7 | 1 49.21 | + 1 9.6 | 1.232 | 2.186 | 9.4 | 18.6 |
| 11 17 | 1 44.42 | + 0 45.6 | 1.280 | 2.185 | 13.7 | 18.8 |
| 11 27 | 1 42.01 | + 0 45.5 | 1.348 | 2.185 | 17.5 | 19.1 |

**377245** 2004 $BN_{88}$ 10 24.8 191°.67 2°.3/22.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.10 | + 9 4.1 | 1.912 | 2.743 | 14.2 | 22.0 |
| 9 28 | 2 20.09 | + 8 10.2 | 1.833 | 2.742 | 10.8 | 21.8 |
| 10 8 | 2 12.89 | + 7 7.3 | 1.777 | 2.740 | 7.0 | 21.6 |
| 10 18 | 2 4.14 | + 5 59.8 | 1.748 | 2.737 | 3.2 | 21.3 |
| 10 28 | 1 54.77 | + 4 54.3 | 1.748 | 2.734 | 3.3 | 21.3 |
| 11 7 | 1 45.83 | + 3 57.3 | 1.777 | 2.730 | 7.1 | 21.6 |
| 11 17 | 1 38.24 | + 3 14.1 | 1.833 | 2.725 | 10.9 | 21.8 |
| 11 27 | 1 32.73 | + 2 48.2 | 1.912 | 2.720 | 14.3 | 22.0 |

**293387** 2007 $EC_{44}$ 10 24.8 131°.39 0°.6/25.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.44 | +16 5.2 | 2.412 | 3.219 | 12.3 | 21.5 |
| 9 28 | 2 16.88 | +15 46.9 | 2.333 | 3.225 | 9.5 | 21.3 |
| 10 8 | 2 10.61 | +15 18.4 | 2.277 | 3.230 | 6.3 | 21.1 |
| 10 18 | 2 3.16 | +14 41.4 | 2.248 | 3.236 | 2.8 | 20.9 |
| 10 28 | 1 55.26 | +13 59.1 | 2.249 | 3.241 | 1.1 | 20.8 |
| 11 7 | 1 47.70 | +13 15.9 | 2.279 | 3.246 | 4.6 | 21.0 |
| 11 17 | 1 41.21 | +12 36.1 | 2.338 | 3.251 | 7.9 | 21.3 |
| 11 27 | 1 36.37 | +12 3.9 | 2.423 | 3.256 | 10.8 | 21.5 |

**386431** 2008 $VM_{34}$ 10 24.8 177°.00 3°.9/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.44 | + 2 41.4 | 1.945 | 2.783 | 13.7 | 21.0 |
| 9 28 | 2 20.24 | + 2 3.2 | 1.873 | 2.784 | 10.5 | 20.8 |
| 10 8 | 2 12.94 | + 1 22.6 | 1.825 | 2.785 | 7.0 | 20.6 |
| 10 18 | 2 4.15 | + 0 44.5 | 1.803 | 2.786 | 4.3 | 20.4 |
| 10 28 | 1 54.80 | + 0 14.4 | 1.810 | 2.786 | 4.7 | 20.4 |
| 11 7 | 1 45.89 | − 0 3.2 | 1.845 | 2.786 | 7.8 | 20.6 |
| 11 17 | 1 38.33 | − 0 5.4 | 1.906 | 2.785 | 11.2 | 20.8 |
| 11 27 | 1 32.79 | + 0 8.8 | 1.990 | 2.785 | 14.3 | 21.0 |

**514445** 2016 $UR_{51}$ 10 24.8 351°.96 1°.3/24.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.30 | +10 36.3 | 1.412 | 2.264 | 17.2 | 20.8 |
| 9 28 | 2 18.71 | +10 21.3 | 1.341 | 2.259 | 13.2 | 20.6 |
| 10 8 | 2 12.39 | + 9 56.1 | 1.289 | 2.256 | 8.6 | 20.3 |
| 10 18 | 2 4.04 | + 9 24.1 | 1.262 | 2.253 | 3.5 | 20.0 |
| 10 28 | 1 54.83 | + 8 50.8 | 1.260 | 2.251 | 2.5 | 19.9 |
| 11 7 | 1 46.13 | + 8 22.9 | 1.284 | 2.249 | 7.5 | 20.2 |
| 11 17 | 1 39.15 | + 8 5.9 | 1.332 | 2.249 | 12.3 | 20.5 |
| 11 27 | 1 34.78 | + 8 4.0 | 1.402 | 2.249 | 16.4 | 20.8 |

**458021** 2009 $WB_{148}$ 10 24.8 3°.65 4°.8/20.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.23 | − 0 53.5 | 2.089 | 2.934 | 12.6 | 21.0 |
| 9 28 | 2 16.89 | − 1 34.4 | 2.021 | 2.934 | 9.8 | 20.8 |
| 10 8 | 2 10.69 | − 2 14.5 | 1.977 | 2.934 | 6.9 | 20.6 |
| 10 18 | 2 3.21 | − 2 48.9 | 1.959 | 2.934 | 4.9 | 20.5 |
| 10 28 | 1 55.24 | − 3 12.6 | 1.969 | 2.935 | 5.6 | 20.6 |
| 11 7 | 1 47.67 | − 3 21.6 | 2.007 | 2.936 | 8.1 | 20.7 |
| 11 17 | 1 41.28 | − 3 14.1 | 2.070 | 2.937 | 11.1 | 20.9 |
| 11 27 | 1 36.67 | − 2 49.6 | 2.156 | 2.938 | 13.7 | 21.1 |

**36181** 1999 $TT_{10}$ 10 24.8 78°.66 0°.0/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 24.82 | +12 28.8 | 2.150 | 2.967 | 13.3 | 17.6 |
| 9 28 | 2 19.62 | +12 32.4 | 2.077 | 2.976 | 10.2 | 17.4 |
| 10 8 | 2 12.46 | +12 28.3 | 2.028 | 2.985 | 6.7 | 17.2 |
| 10 18 | 2 3.95 | +12 18.2 | 2.005 | 2.994 | 2.8 | 17.0 |
| 10 28 | 1 54.91 | +12 4.8 | 2.011 | 3.003 | 1.3 | 16.9 |
| 11 7 | 1 46.29 | +11 51.5 | 2.046 | 3.012 | 5.2 | 17.2 |
| 11 17 | 1 38.92 | +11 41.9 | 2.110 | 3.021 | 8.7 | 17.4 |
| 11 27 | 1 33.43 | +11 39.3 | 2.199 | 3.029 | 11.8 | 17.6 |

**173440** 2000 $KD_{39}$ 10 24.8 103°.65 3°.1/22.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.05 | + 5 4.0 | 1.954 | 2.794 | 13.6 | 20.4 |
| 9 28 | 2 18.40 | + 4 26.9 | 1.884 | 2.797 | 10.3 | 20.2 |
| 10 8 | 2 11.73 | + 3 45.7 | 1.838 | 2.800 | 6.8 | 20.0 |
| 10 18 | 2 3.66 | + 3 4.8 | 1.817 | 2.804 | 3.6 | 19.8 |
| 10 28 | 1 55.05 | + 2 29.6 | 1.826 | 2.807 | 4.0 | 19.8 |
| 11 7 | 1 46.88 | + 2 4.8 | 1.862 | 2.810 | 7.2 | 20.0 |
| 11 17 | 1 40.01 | + 1 53.6 | 1.924 | 2.813 | 10.7 | 20.2 |
| 11 27 | 1 35.09 | + 1 58.0 | 2.010 | 2.816 | 13.7 | 20.5 |

**219251** 1999 $XS_{161}$ 10 24.9 296°.02 3°.2/26.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.69 | +20 4.3 | 1.446 | 2.268 | 18.4 | 20.5 |
| 9 28 | 2 21.04 | +20 19.8 | 1.351 | 2.246 | 14.9 | 20.2 |
| 10 8 | 2 14.29 | +20 17.5 | 1.274 | 2.224 | 10.6 | 19.9 |
| 10 18 | 2 5.01 | +19 56.2 | 1.219 | 2.201 | 5.9 | 19.6 |
| 10 28 | 1 54.35 | +19 17.5 | 1.190 | 2.179 | 3.3 | 19.4 |
| 11 7 | 1 43.87 | +18 27.1 | 1.187 | 2.157 | 7.2 | 19.6 |
| 11 17 | 1 35.09 | +17 33.5 | 1.208 | 2.135 | 12.2 | 19.8 |
| 11 27 | 1 29.22 | +16 46.2 | 1.251 | 2.114 | 16.9 | 20.0 |

**300801** 2007 $VC_{332}$ 10 24.9 318°.80 0°.9/25.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.14 | +13 44.6 | 1.538 | 2.374 | 16.8 | 20.8 |
| 9 28 | 2 20.31 | +14 4.0 | 1.443 | 2.351 | 13.2 | 20.5 |
| 10 8 | 2 13.64 | +14 13.6 | 1.369 | 2.329 | 8.9 | 20.2 |
| 10 18 | 2 4.68 | +14 13.7 | 1.318 | 2.307 | 4.0 | 19.9 |
| 10 28 | 1 54.51 | +14 6.6 | 1.294 | 2.286 | 1.7 | 19.7 |
| 11 7 | 1 44.51 | +13 56.7 | 1.296 | 2.266 | 6.8 | 19.9 |
| 11 17 | 1 36.04 | +13 49.1 | 1.323 | 2.246 | 11.8 | 20.2 |
| 11 27 | 1 30.21 | +13 49.4 | 1.373 | 2.227 | 16.2 | 20.4 |

**415596** 2014 $QW_{320}$ 10 24.9 88°.66 4°.2/28.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.00 | +25 27.3 | 2.413 | 3.174 | 13.6 | 21.1 |
| 9 28 | 2 20.53 | +26 1.7 | 2.335 | 3.186 | 11.1 | 20.9 |
| 10 8 | 2 13.08 | +26 22.2 | 2.279 | 3.197 | 8.4 | 20.8 |
| 10 18 | 2 4.23 | +26 27.5 | 2.248 | 3.209 | 5.7 | 20.6 |
| 10 28 | 1 54.79 | +26 17.9 | 2.246 | 3.220 | 4.2 | 20.6 |
| 11 7 | 1 45.71 | +25 56.4 | 2.273 | 3.231 | 5.3 | 20.7 |
| 11 17 | 1 37.85 | +25 27.2 | 2.328 | 3.242 | 7.9 | 20.8 |
| 11 27 | 1 31.86 | +24 55.7 | 2.410 | 3.253 | 10.5 | 21.0 |

**454145** 2013 $EB_{33}$ 10 24.9 220°.15 1°.2/23.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.94 | +11 41.2 | 2.405 | 3.226 | 11.9 | 21.9 |
| 9 28 | 2 16.56 | +10 46.5 | 2.315 | 3.218 | 9.1 | 21.7 |
| 10 8 | 2 10.46 | + 9 42.2 | 2.249 | 3.209 | 5.9 | 21.5 |
| 10 18 | 2 3.13 | + 8 31.7 | 2.211 | 3.201 | 2.4 | 21.2 |
| 10 28 | 1 55.30 | + 7 20.0 | 2.202 | 3.191 | 2.1 | 21.2 |
| 11 7 | 1 47.75 | + 6 12.9 | 2.224 | 3.181 | 5.5 | 21.4 |
| 11 17 | 1 41.21 | + 5 15.4 | 2.275 | 3.171 | 8.9 | 21.6 |
| 11 27 | 1 36.28 | + 4 31.3 | 2.351 | 3.160 | 11.9 | 21.8 |

**472885** 2015 $FA_{318}$ 10 24.9 59°.38 4°.6/21.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.78 | + 4 21.6 | 1.439 | 2.296 | 16.6 | 21.0 |
| 9 28 | 2 19.53 | + 3 20.2 | 1.383 | 2.304 | 12.7 | 20.8 |
| 10 8 | 2 12.71 | + 2 13.6 | 1.347 | 2.313 | 8.4 | 20.5 |
| 10 18 | 2 4.10 | + 1 9.0 | 1.336 | 2.321 | 5.0 | 20.4 |
| 10 28 | 1 54.89 | + 0 14.8 | 1.352 | 2.330 | 5.7 | 20.4 |
| 11 7 | 1 46.35 | − 0 22.1 | 1.393 | 2.338 | 9.4 | 20.7 |
| 11 17 | 1 39.55 | − 0 37.6 | 1.458 | 2.347 | 13.4 | 20.9 |
| 11 27 | 1 35.25 | − 0 30.7 | 1.544 | 2.356 | 16.9 | 21.2 |

**132339** 2002 $GR_{41}$ 10 24.9 296°.23 0°.4/24.5 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.74 | +14 11.0 | 1.640 | 2.475 | 15.9 | 20.2 |
| 9 28 | 2 18.03 | +13 35.5 | 1.557 | 2.466 | 12.3 | 20.0 |
| 10 8 | 2 11.84 | +12 45.6 | 1.494 | 2.457 | 8.1 | 19.7 |
| 10 18 | 2 3.82 | +11 44.5 | 1.457 | 2.447 | 3.3 | 19.4 |
| 10 28 | 1 54.98 | +10 38.0 | 1.446 | 2.438 | 1.8 | 19.3 |
| 11 7 | 1 46.52 | + 9 33.8 | 1.463 | 2.429 | 6.7 | 19.6 |
| 11 17 | 1 39.56 | + 8 39.3 | 1.506 | 2.420 | 11.3 | 19.8 |
| 11 27 | 1 34.92 | + 8 0.3 | 1.571 | 2.412 | 15.3 | 20.0 |

**229783** 2008 $PG_{17}$ 10 24.9 27°.39 4°.6/20.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.18 | + 0 58.6 | 2.105 | 2.953 | 12.4 | 20.1 |
| 9 28 | 2 15.30 | − 0 3.4 | 2.041 | 2.956 | 9.5 | 19.9 |
| 10 8 | 2 9.65 | − 1 6.9 | 2.001 | 2.960 | 6.6 | 19.8 |
| 10 18 | 2 2.79 | − 2 6.1 | 1.987 | 2.963 | 4.7 | 19.7 |
| 10 28 | 1 55.49 | − 2 55.2 | 2.001 | 2.967 | 5.4 | 19.7 |
| 11 7 | 1 48.58 | − 3 29.5 | 2.043 | 2.972 | 8.0 | 19.9 |
| 11 17 | 1 42.81 | − 3 46.0 | 2.110 | 2.976 | 10.9 | 20.1 |
| 11 27 | 1 38.75 | − 3 44.0 | 2.200 | 2.981 | 13.5 | 20.3 |

**109580** 2001 $QN_{273}$ 10 24.9 78°.59 1°.4/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 27.31 | +16 42.7 | 1.910 | 2.718 | 15.1 | 19.8 |
| 9 28 | 2 21.65 | +16 48.1 | 1.850 | 2.741 | 11.7 | 19.6 |
| 10 8 | 2 13.81 | +16 41.7 | 1.813 | 2.764 | 7.8 | 19.5 |
| 10 18 | 2 4.50 | +16 24.5 | 1.801 | 2.786 | 3.7 | 19.3 |
| 10 28 | 1 54.73 | +15 59.5 | 1.817 | 2.809 | 1.6 | 19.2 |
| 11 7 | 1 45.58 | +15 31.3 | 1.863 | 2.831 | 5.3 | 19.4 |
| 11 17 | 1 37.94 | +15 4.7 | 1.937 | 2.853 | 9.1 | 19.7 |
| 11 27 | 1 32.48 | +14 44.5 | 2.035 | 2.875 | 12.3 | 20.0 |

**195272** 2002 $EP_{63}$ 10 24.9 318°.45 2°.9/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.63 | +20 8.6 | 1.628 | 2.441 | 17.0 | 20.1 |
| 9 28 | 2 20.39 | +20 20.4 | 1.547 | 2.437 | 13.6 | 19.9 |
| 10 8 | 2 13.47 | +20 15.9 | 1.485 | 2.432 | 9.6 | 19.6 |
| 10 18 | 2 4.52 | +19 54.8 | 1.447 | 2.428 | 5.3 | 19.4 |
| 10 28 | 1 54.67 | +19 19.3 | 1.435 | 2.424 | 2.9 | 19.2 |
| 11 7 | 1 45.24 | +18 35.0 | 1.451 | 2.421 | 6.2 | 19.4 |
| 11 17 | 1 37.43 | +17 49.0 | 1.492 | 2.417 | 10.6 | 19.7 |
| 11 27 | 1 32.15 | +17 8.8 | 1.557 | 2.414 | 14.5 | 19.9 |

**175919** 2000 $CL_{112}$ 10 24.9 231°.46 2°.2/26.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.80 | +21 33.2 | 2.247 | 3.036 | 13.7 | 20.9 |
| 9 28 | 2 18.26 | +21 14.0 | 2.149 | 3.026 | 10.9 | 20.6 |
| 10 8 | 2 11.72 | +20 39.3 | 2.074 | 3.016 | 7.7 | 20.4 |
| 10 18 | 2 3.72 | +19 49.8 | 2.025 | 3.005 | 4.2 | 20.2 |
| 10 28 | 1 55.05 | +18 48.6 | 2.005 | 2.994 | 2.2 | 20.0 |
| 11 7 | 1 46.68 | +17 40.8 | 2.014 | 2.982 | 4.9 | 20.2 |
| 11 17 | 1 39.46 | +16 32.7 | 2.052 | 2.970 | 8.5 | 20.4 |
| 11 27 | 1 34.11 | +15 30.6 | 2.116 | 2.958 | 11.8 | 20.6 |

**484099** 2006 $RR_{80}$ 10 24.9 343°.65 1°.5/25.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.97 | +16 9.2 | 1.522 | 2.356 | 17.0 | 21.0 |
| 9 28 | 2 18.47 | +16 21.1 | 1.442 | 2.347 | 13.4 | 20.7 |
| 10 8 | 2 12.29 | +16 19.7 | 1.381 | 2.339 | 9.1 | 20.5 |
| 10 18 | 2 4.06 | +16 5.5 | 1.345 | 2.332 | 4.3 | 20.2 |
| 10 28 | 1 54.89 | +15 41.8 | 1.334 | 2.326 | 1.9 | 20.0 |
| 11 7 | 1 46.11 | +15 13.6 | 1.349 | 2.320 | 6.4 | 20.3 |
| 11 17 | 1 38.93 | +14 47.4 | 1.390 | 2.315 | 11.1 | 20.5 |
| 11 27 | 1 34.30 | +14 29.1 | 1.453 | 2.312 | 15.2 | 20.8 |

**267727** 2003 $EX_{58}$ 10 24.9 161°.28 0°.6/25.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 30.02 | +14 2.3 | 2.043 | 2.849 | 14.3 | 20.8 |
| 9 28 | 2 23.78 | +14 12.3 | 1.963 | 2.855 | 11.1 | 20.6 |
| 10 8 | 2 15.28 | +14 13.4 | 1.907 | 2.860 | 7.3 | 20.4 |
| 10 18 | 2 5.17 | +14 6.3 | 1.877 | 2.865 | 3.2 | 20.2 |
| 10 28 | 1 54.41 | +13 53.4 | 1.877 | 2.869 | 1.3 | 20.0 |
| 11 7 | 1 44.07 | +13 38.4 | 1.907 | 2.872 | 5.4 | 20.3 |
| 11 17 | 1 35.14 | +13 25.5 | 1.965 | 2.875 | 9.3 | 20.6 |
| 11 27 | 1 28.36 | +13 18.5 | 2.049 | 2.878 | 12.7 | 20.8 |

**356872** 2011 $WX_{106}$ 10 24.9 235°.03 6°.1/19.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.90 | − 3 52.4 | 1.972 | 2.814 | 13.4 | 20.7 |
| 9 28 | 2 19.05 | − 4 41.5 | 1.905 | 2.813 | 10.5 | 20.5 |
| 10 8 | 2 12.16 | − 5 27.9 | 1.861 | 2.811 | 7.8 | 20.3 |
| 10 18 | 2 3.86 | − 6 5.4 | 1.844 | 2.809 | 6.2 | 20.2 |
| 10 28 | 1 55.02 | − 6 28.4 | 1.853 | 2.808 | 6.9 | 20.3 |
| 11 7 | 1 46.62 | − 6 32.8 | 1.890 | 2.806 | 9.4 | 20.4 |
| 11 17 | 1 39.51 | − 6 17.2 | 1.951 | 2.804 | 12.3 | 20.6 |
| 11 27 | 1 34.36 | − 5 42.2 | 2.035 | 2.802 | 14.9 | 20.8 |

**24869** 1996 $FZ$ 10 24.9 61°.57 0°.6/25.4 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.35 | +15 46.4 | 1.760 | 2.584 | 15.5 | 18.4 |
| 9 28 | 2 18.94 | +15 30.6 | 1.690 | 2.592 | 12.0 | 18.2 |
| 10 8 | 2 12.24 | +15 1.8 | 1.642 | 2.600 | 8.0 | 18.0 |
| 10 18 | 2 3.92 | +14 22.2 | 1.619 | 2.608 | 3.5 | 17.8 |
| 10 28 | 1 55.01 | +13 36.1 | 1.624 | 2.616 | 1.4 | 17.6 |
| 11 7 | 1 46.61 | +12 49.6 | 1.656 | 2.625 | 5.8 | 18.0 |
| 11 17 | 1 39.70 | +12 8.5 | 1.716 | 2.633 | 9.9 | 18.2 |
| 11 27 | 1 35.00 | +11 38.0 | 1.799 | 2.642 | 13.5 | 18.5 |

**449415** 2013 $HE_{32}$ 10 24.9 41°.11 3°.5/28.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.86 | +24 4.4 | 1.942 | 2.732 | 15.5 | 20.8 |
| 9 28 | 2 17.76 | +24 4.3 | 1.866 | 2.739 | 12.5 | 20.6 |
| 10 8 | 2 11.47 | +23 46.6 | 1.811 | 2.745 | 9.1 | 20.4 |
| 10 18 | 2 3.61 | +23 11.2 | 1.780 | 2.752 | 5.6 | 20.2 |
| 10 28 | 1 55.15 | +22 20.8 | 1.776 | 2.760 | 3.5 | 20.1 |
| 11 7 | 1 47.15 | +21 20.8 | 1.799 | 2.767 | 5.5 | 20.2 |
| 11 17 | 1 40.53 | +20 18.0 | 1.851 | 2.775 | 8.9 | 20.5 |
| 11 27 | 1 36.02 | +19 19.3 | 1.927 | 2.783 | 12.2 | 20.7 |

**511851** 2015 $FZ_{336}$ 10 24.9 107°.61 7°.3/19.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.87 | − 6 58.1 | 1.801 | 2.637 | 14.7 | 21.3 |
| 9 28 | 2 22.82 | − 7 43.6 | 1.750 | 2.650 | 11.7 | 21.1 |
| 10 8 | 2 14.54 | − 8 22.5 | 1.721 | 2.663 | 8.9 | 21.0 |
| 10 18 | 2 4.81 | − 8 48.0 | 1.719 | 2.676 | 7.4 | 20.9 |
| 10 28 | 1 54.65 | − 8 54.7 | 1.743 | 2.689 | 8.1 | 21.0 |
| 11 7 | 1 45.17 | − 8 39.8 | 1.794 | 2.701 | 10.4 | 21.2 |
| 11 17 | 1 37.27 | − 8 3.5 | 1.870 | 2.713 | 13.2 | 21.4 |
| 11 27 | 1 31.62 | − 7 7.8 | 1.967 | 2.724 | 15.7 | 21.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **487448** 2014 $SF_2$ | | 10 24.9 67°.39 3°.2/28.2 17 | | | | |
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.77 | +24 41.9 | 2.202 | 2.983 | 14.2 | 20.8 |
| 9 28 | 2 16.65 | +24 26.7 | 2.123 | 2.990 | 11.4 | 20.6 |
| 10 8 | 2 10.61 | +23 54.5 | 2.066 | 2.998 | 8.3 | 20.4 |
| 10 18 | 2 3.22 | +23 5.8 | 2.033 | 3.005 | 5.1 | 20.3 |
| 10 28 | 1 55.34 | +22 3.7 | 2.028 | 3.013 | 3.2 | 20.1 |
| 11 7 | 1 47.87 | +20 53.4 | 2.053 | 3.020 | 4.9 | 20.3 |
| 11 17 | 1 41.63 | +19 41.4 | 2.105 | 3.028 | 8.1 | 20.5 |
| 11 27 | 1 37.24 | +18 34.1 | 2.184 | 3.035 | 11.1 | 20.7 |
| **480899** 2002 $QG_{76}$ | | 10 24.9 18°.07 7°.1/19.1 17 | | | | |
| 9 18 | 2 17.08 | + 1 20.6 | 1.289 | 2.166 | 16.9 | 20.2 |
| 9 28 | 2 14.63 | − 0 31.1 | 1.243 | 2.173 | 13.0 | 20.0 |
| 10 8 | 2 9.63 | − 2 26.1 | 1.217 | 2.181 | 9.2 | 19.8 |
| 10 18 | 2 2.87 | − 4 13.0 | 1.215 | 2.191 | 7.1 | 19.7 |
| 10 28 | 1 55.54 | − 5 39.9 | 1.238 | 2.201 | 8.5 | 19.9 |
| 11 7 | 1 48.88 | − 6 38.5 | 1.285 | 2.212 | 11.9 | 20.1 |
| 11 17 | 1 43.92 | − 7 5.1 | 1.353 | 2.225 | 15.5 | 20.3 |
| 11 27 | 1 41.37 | − 7 0.6 | 1.440 | 2.238 | 18.6 | 20.6 |
| **443175** 2014 $DT_{18}$ | | 10 24.9 154°.47 2°.2/26.7 18 | | | | |
| 9 18 | 2 25.34 | +20 7.8 | 1.978 | 2.776 | 15.0 | 21.6 |
| 9 28 | 2 20.34 | +20 2.0 | 1.898 | 2.780 | 11.9 | 21.4 |
| 10 8 | 2 13.12 | +19 41.4 | 1.840 | 2.785 | 8.2 | 21.2 |
| 10 18 | 2 4.30 | +19 6.6 | 1.807 | 2.789 | 4.4 | 21.0 |
| 10 28 | 1 54.85 | +18 20.5 | 1.803 | 2.793 | 2.3 | 20.9 |
| 11 7 | 1 45.84 | +17 28.5 | 1.828 | 2.796 | 5.3 | 21.1 |
| 11 17 | 1 38.23 | +16 36.7 | 1.880 | 2.799 | 9.1 | 21.3 |
| 11 27 | 1 32.75 | +15 51.4 | 1.957 | 2.802 | 12.5 | 21.5 |
| **25478** Shrock | | 10 24.9 151°.33 1°.9/26.3 18 | | | | |
| 9 18 | 2 26.89 | +19 26.2 | 1.765 | 2.570 | 16.2 | 19.6 |
| 9 28 | 2 21.73 | +19 11.6 | 1.689 | 2.577 | 12.8 | 19.3 |
| 10 8 | 2 14.11 | +18 40.5 | 1.635 | 2.584 | 8.8 | 19.1 |
| 10 18 | 2 4.73 | +17 54.2 | 1.605 | 2.589 | 4.4 | 18.9 |
| 10 28 | 1 54.67 | +16 56.6 | 1.604 | 2.595 | 2.0 | 18.7 |
| 11 7 | 1 45.14 | +15 54.4 | 1.631 | 2.599 | 5.8 | 19.0 |
| 11 17 | 1 37.21 | +14 54.7 | 1.685 | 2.604 | 10.0 | 19.3 |
| 11 27 | 1 31.66 | +14 4.3 | 1.763 | 2.607 | 13.7 | 19.5 |
| **59619** 1999 $JG_{71}$ | | 10 24.9 65°.75 3°.5/22.3 18 | | | | |
| 9 18 | 2 25.10 | + 6 53.6 | 1.490 | 2.339 | 16.5 | 19.1 |
| 9 28 | 2 20.24 | + 5 51.0 | 1.447 | 2.365 | 12.5 | 18.9 |
| 10 8 | 2 12.97 | + 4 42.1 | 1.425 | 2.391 | 8.0 | 18.7 |
| 10 18 | 2 4.16 | + 3 33.4 | 1.429 | 2.416 | 4.1 | 18.6 |
| 10 28 | 1 54.98 | + 2 33.0 | 1.459 | 2.442 | 4.5 | 18.7 |
| 11 7 | 1 46.62 | + 1 47.5 | 1.517 | 2.467 | 8.3 | 18.9 |
| 11 17 | 1 40.02 | + 1 20.9 | 1.599 | 2.492 | 12.2 | 19.2 |
| 11 27 | 1 35.82 | + 1 14.7 | 1.704 | 2.518 | 15.5 | 19.5 |
| **429446** 2010 $VU_{114}$ | | 10 24.9 351°.88 4°.4/27.7 18 | | | | |
| 9 18 | 2 20.30 | +23 3.7 | 1.131 | 1.968 | 21.5 | 20.8 |
| 9 28 | 2 18.07 | +23 11.2 | 1.061 | 1.963 | 17.4 | 20.5 |
| 10 8 | 2 12.46 | +22 52.5 | 1.008 | 1.958 | 12.6 | 20.2 |
| 10 18 | 2 4.24 | +22 6.4 | 0.975 | 1.955 | 7.4 | 19.9 |
| 10 28 | 1 54.86 | +20 56.8 | 0.965 | 1.953 | 4.4 | 19.8 |
| 11 7 | 1 46.10 | +19 33.4 | 0.978 | 1.951 | 7.7 | 20.0 |
| 11 17 | 1 39.50 | +18 8.7 | 1.014 | 1.951 | 12.9 | 20.2 |
| 11 27 | 1 36.15 | +16 55.0 | 1.071 | 1.952 | 17.7 | 20.5 |
| **119923** 2002 $EP_{121}$ | | 10 24.9 352°.23 1°.7/26.1 18 | | | | |
| 9 18 | 2 24.51 | +16 25.3 | 1.860 | 2.676 | 15.1 | 19.1 |
| 9 28 | 2 19.91 | +16 47.3 | 1.779 | 2.673 | 11.9 | 18.9 |
| 10 8 | 2 12.97 | +16 58.6 | 1.719 | 2.671 | 8.1 | 18.7 |
| 10 18 | 2 4.29 | +16 59.2 | 1.684 | 2.669 | 4.0 | 18.4 |
| 10 28 | 1 54.85 | +16 51.1 | 1.677 | 2.668 | 1.9 | 18.3 |
| 11 7 | 1 45.76 | +16 37.8 | 1.698 | 2.667 | 5.6 | 18.5 |
| 11 17 | 1 38.06 | +16 23.9 | 1.746 | 2.666 | 9.6 | 18.8 |
| 11 27 | 1 32.57 | +16 14.4 | 1.818 | 2.666 | 13.2 | 19.0 |
| **13800** 1998 $VR_{36}$ | | 10 24.9 314°.16 3°.8/28.3 18 | | | | |
| 9 18 | 2 19.82 | +25 34.6 | 1.700 | 2.497 | 17.1 | 16.8 |
| 9 28 | 2 16.70 | +25 13.2 | 1.608 | 2.484 | 14.0 | 16.6 |
| 10 8 | 2 11.08 | +24 28.2 | 1.535 | 2.471 | 10.2 | 16.4 |
| 10 18 | 2 3.56 | +23 19.5 | 1.485 | 2.459 | 6.3 | 16.1 |
| 10 28 | 1 55.18 | +21 50.5 | 1.462 | 2.447 | 3.8 | 15.9 |
| 11 7 | 1 47.18 | +20 9.0 | 1.466 | 2.436 | 6.1 | 16.0 |
| 11 17 | 1 40.68 | +18 25.0 | 1.496 | 2.425 | 10.2 | 16.3 |
| 11 27 | 1 36.55 | +16 48.9 | 1.551 | 2.414 | 14.2 | 16.5 |
| **429407** 2010 $TQ_{105}$ | | 10 24.9 7°.08 2°.4/26.1 17 | | | | |
| 9 18 | 2 21.60 | +17 24.1 | 1.000 | 1.862 | 21.9 | 20.7 |
| 9 28 | 2 19.21 | +17 39.8 | 0.942 | 1.861 | 17.3 | 20.4 |
| 10 8 | 2 13.24 | +17 35.4 | 0.900 | 1.863 | 11.8 | 20.1 |
| 10 18 | 2 4.56 | +17 11.3 | 0.877 | 1.865 | 5.8 | 19.8 |
| 10 28 | 1 54.75 | +16 32.2 | 0.877 | 1.869 | 2.7 | 19.7 |
| 11 7 | 1 45.70 | +15 47.0 | 0.900 | 1.874 | 8.0 | 20.0 |
| 11 17 | 1 39.03 | +15 5.5 | 0.945 | 1.881 | 13.7 | 20.3 |
| 11 27 | 1 35.79 | +14 36.5 | 1.009 | 1.889 | 18.6 | 20.7 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **319209** 2005 $YK_{205}$ | | 10 24.9 203°.08 4°.7/19.9 18 | | | | |
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.43 | − 1 17.8 | 2.438 | 3.277 | 11.2 | 20.6 |
| 9 28 | 2 16.06 | − 2 14.0 | 2.366 | 3.275 | 8.7 | 20.4 |
| 10 8 | 2 10.08 | − 3 10.0 | 2.320 | 3.273 | 6.2 | 20.3 |
| 10 18 | 2 2.99 | − 4 0.9 | 2.300 | 3.270 | 4.7 | 20.2 |
| 10 28 | 1 55.48 | − 4 41.7 | 2.309 | 3.268 | 5.4 | 20.2 |
| 11 7 | 1 48.29 | − 5 8.3 | 2.347 | 3.266 | 7.7 | 20.4 |
| 11 17 | 1 42.08 | − 5 18.6 | 2.410 | 3.263 | 10.3 | 20.5 |
| 11 27 | 1 37.42 | − 5 11.7 | 2.497 | 3.260 | 12.6 | 20.7 |
| **210649** 2000 $HG_{80}$ | | 10 24.9 218°.54 7°.8/18.3 18 | | | | |
| 9 18 | 2 23.92 | − 8 52.5 | 1.978 | 2.817 | 13.5 | 19.7 |
| 9 28 | 2 19.05 | − 9 55.9 | 1.917 | 2.816 | 11.0 | 19.5 |
| 10 8 | 2 12.17 | −10 52.8 | 1.879 | 2.814 | 8.8 | 19.4 |
| 10 18 | 2 3.89 | −11 36.2 | 1.867 | 2.813 | 7.8 | 19.4 |
| 10 28 | 1 55.09 | −11 59.8 | 1.881 | 2.811 | 8.7 | 19.4 |
| 11 7 | 1 46.75 | −12 0.1 | 1.921 | 2.809 | 10.8 | 19.5 |
| 11 17 | 1 39.73 | −11 36.5 | 1.984 | 2.807 | 13.3 | 19.7 |
| 11 27 | 1 34.67 | −10 50.7 | 2.069 | 2.806 | 15.7 | 19.9 |
| **73268** 2002 $JN_{50}$ | | 10 24.9 118°.00 1°.7/26.2 18 | | | | |
| 9 18 | 2 25.59 | +19 42.9 | 1.519 | 2.336 | 17.8 | 19.3 |
| 9 28 | 2 21.06 | +19 15.1 | 1.449 | 2.344 | 14.0 | 19.1 |
| 10 8 | 2 13.82 | +18 27.5 | 1.399 | 2.352 | 9.6 | 18.8 |
| 10 18 | 2 4.64 | +17 22.2 | 1.374 | 2.359 | 4.7 | 18.6 |
| 10 28 | 1 54.76 | +16 5.0 | 1.375 | 2.366 | 2.0 | 18.4 |
| 11 7 | 1 45.52 | +14 44.4 | 1.403 | 2.373 | 6.4 | 18.7 |
| 11 17 | 1 38.09 | +13 29.7 | 1.458 | 2.380 | 11.0 | 19.0 |
| 11 27 | 1 33.27 | +12 28.4 | 1.536 | 2.387 | 15.0 | 19.3 |
| **45090** 1999 $XA_{49}$ | | 10 24.9 183°.34 3°.0/28.2 18 | | | | |
| 9 18 | 2 24.08 | +25 8.8 | 2.536 | 3.299 | 13.0 | 19.0 |
| 9 28 | 2 18.98 | +24 50.1 | 2.443 | 3.299 | 10.5 | 18.8 |
| 10 8 | 2 12.05 | +24 15.6 | 2.373 | 3.300 | 7.7 | 18.6 |
| 10 18 | 2 3.85 | +23 25.5 | 2.329 | 3.299 | 4.7 | 18.4 |
| 10 28 | 1 55.13 | +22 22.3 | 2.314 | 3.298 | 3.0 | 18.3 |
| 11 7 | 1 46.75 | +21 10.6 | 2.330 | 3.296 | 4.6 | 18.4 |
| 11 17 | 1 39.49 | +19 56.3 | 2.376 | 3.293 | 7.6 | 18.6 |
| 11 27 | 1 33.97 | +18 45.6 | 2.448 | 3.290 | 10.4 | 18.8 |
| **178377** 1997 $GL_{20}$ | | 10 24.9 82°.29 0°.9/25.4 17 | | | | |
| 9 18 | 2 30.33 | +15 6.5 | 1.521 | 2.343 | 17.6 | 20.1 |
| 9 28 | 2 24.44 | +15 9.3 | 1.466 | 2.366 | 13.6 | 19.9 |
| 10 8 | 2 15.85 | +14 59.2 | 1.432 | 2.388 | 9.0 | 19.7 |
| 10 18 | 2 5.43 | +14 37.8 | 1.422 | 2.410 | 4.0 | 19.4 |
| 10 28 | 1 54.46 | +14 9.0 | 1.440 | 2.432 | 1.6 | 19.3 |
| 11 7 | 1 44.30 | +13 38.7 | 1.486 | 2.454 | 6.3 | 19.7 |
| 11 17 | 1 36.08 | +13 12.8 | 1.558 | 2.475 | 10.8 | 20.0 |
| 11 27 | 1 30.53 | +12 56.4 | 1.653 | 2.496 | 14.5 | 20.3 |
| **185757** 1999 $TK_{15}$ | | 10 24.9 53°.51 0°.9/24.0 18 | | | | |
| 9 18 | 2 20.08 | +12 36.6 | 2.039 | 2.868 | 13.5 | 20.2 |
| 9 28 | 2 16.12 | +11 53.4 | 1.967 | 2.874 | 10.3 | 20.0 |
| 10 8 | 2 10.27 | +10 59.9 | 1.919 | 2.881 | 6.6 | 19.8 |
| 10 18 | 2 3.11 | + 9 59.8 | 1.897 | 2.887 | 2.7 | 19.6 |
| 10 28 | 1 55.48 | + 8 58.4 | 1.903 | 2.894 | 1.9 | 19.5 |
| 11 7 | 1 48.26 | + 8 1.4 | 1.938 | 2.900 | 5.7 | 19.8 |
| 11 17 | 1 42.26 | + 7 14.0 | 2.000 | 2.907 | 9.4 | 20.0 |
| 11 27 | 1 38.08 | + 6 40.3 | 2.087 | 2.914 | 12.5 | 20.3 |
| **516899** 2011 $SG_{71}$ | | 10 24.9 185°.24 2°.8/22.1 18 | | | | |
| 9 18 | 2 20.37 | + 9 22.5 | 1.873 | 2.714 | 14.0 | 21.5 |
| 9 28 | 2 16.52 | + 7 59.9 | 1.799 | 2.714 | 10.6 | 21.3 |
| 10 8 | 2 10.62 | + 6 26.6 | 1.749 | 2.714 | 6.8 | 21.1 |
| 10 18 | 2 3.30 | + 4 48.6 | 1.725 | 2.714 | 3.3 | 20.9 |
| 10 28 | 1 55.42 | + 3 14.0 | 1.730 | 2.713 | 3.8 | 20.9 |
| 11 7 | 1 47.98 | + 1 50.9 | 1.764 | 2.713 | 7.5 | 21.1 |
| 11 17 | 1 41.83 | + 0 45.3 | 1.824 | 2.713 | 11.2 | 21.4 |
| 11 27 | 1 37.63 | + 0 0.9 | 1.907 | 2.712 | 14.4 | 21.6 |
| **25208** 1998 $SK_{146}$ | | 10 24.9 325°.74 1°.5/23.5 18 | | | | |
| 9 18 | 2 18.31 | +11 3.7 | 1.922 | 2.762 | 13.8 | 17.7 |
| 9 28 | 2 15.05 | +10 18.9 | 1.836 | 2.749 | 10.5 | 17.5 |
| 10 8 | 2 9.76 | + 9 23.6 | 1.772 | 2.737 | 6.8 | 17.2 |
| 10 18 | 2 2.98 | + 8 21.6 | 1.735 | 2.725 | 2.8 | 17.0 |
| 10 28 | 1 55.55 | + 7 18.8 | 1.725 | 2.714 | 2.5 | 16.9 |
| 11 7 | 1 48.42 | + 6 21.5 | 1.742 | 2.703 | 6.5 | 17.2 |
| 11 17 | 1 42.48 | + 5 35.4 | 1.787 | 2.692 | 10.4 | 17.4 |
| 11 27 | 1 38.44 | + 5 4.9 | 1.854 | 2.682 | 13.8 | 17.6 |
| **128180** 2003 $RY_{13}$ | | 10 24.9 136°.75 5°.1/31.2 18 | | | | |
| 9 18 | 2 22.04 | +32 45.3 | 2.579 | 3.304 | 13.7 | 19.7 |
| 9 28 | 2 17.51 | +32 41.3 | 2.491 | 3.309 | 11.6 | 19.6 |
| 10 8 | 2 11.14 | +32 18.5 | 2.424 | 3.315 | 9.2 | 19.4 |
| 10 18 | 2 3.49 | +31 35.7 | 2.381 | 3.320 | 6.8 | 19.3 |
| 10 28 | 1 55.35 | +30 34.5 | 2.365 | 3.325 | 5.2 | 19.2 |
| 11 7 | 1 47.60 | +29 18.9 | 2.378 | 3.330 | 5.6 | 19.2 |
| 11 17 | 1 41.01 | +27 54.8 | 2.420 | 3.334 | 7.6 | 19.4 |
| 11 27 | 1 36.19 | +26 29.3 | 2.489 | 3.339 | 10.0 | 19.5 |

**273087** 2006 $EC_{23}$ 10 24.9 216°.83 0°.2/24.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.97 | +13 18.2 | 2.648 | 3.459 | 11.2 | 22.0 |
| 9 28 | 2 16.47 | +12 57.3 | 2.558 | 3.454 | 8.6 | 21.8 |
| 10 8 | 2 10.39 | +12 28.3 | 2.492 | 3.449 | 5.6 | 21.6 |
| 10 18 | 2 3.17 | +11 53.2 | 2.454 | 3.443 | 2.3 | 21.4 |
| 10 28 | 1 55.49 | +11 15.1 | 2.445 | 3.437 | 1.1 | 21.3 |
| 11 7 | 1 48.05 | +10 38.0 | 2.467 | 3.431 | 4.5 | 21.5 |
| 11 17 | 1 41.53 | +10 5.4 | 2.517 | 3.424 | 7.7 | 21.7 |
| 11 27 | 1 36.49 | + 9 40.9 | 2.594 | 3.418 | 10.5 | 21.9 |

**428616** 2008 $FN_{5}$ 10 24.9 114°.40 1°.2/25.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 37.73 | +13 36.0 | 1.830 | 2.629 | 16.0 | 20.9 |
| 9 28 | 2 29.83 | +14 16.4 | 1.762 | 2.648 | 12.4 | 20.7 |
| 10 8 | 2 19.28 | +14 48.6 | 1.717 | 2.667 | 8.3 | 20.5 |
| 10 18 | 2 6.89 | +15 11.8 | 1.699 | 2.686 | 3.8 | 20.2 |
| 10 28 | 1 53.84 | +15 27.1 | 1.712 | 2.703 | 1.7 | 20.1 |
| 11 7 | 1 41.44 | +15 37.1 | 1.755 | 2.720 | 5.9 | 20.5 |
| 11 17 | 1 30.85 | +15 45.3 | 1.827 | 2.737 | 9.9 | 20.7 |
| 11 27 | 1 22.86 | +15 56.1 | 1.925 | 2.753 | 13.4 | 21.0 |

**411043** 2009 $UB_{153}$ 10 24.9 11°.44 2°.2/23.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.04 | + 7 19.1 | 2.016 | 2.855 | 13.2 | 20.8 |
| 9 28 | 2 16.90 | + 6 52.3 | 1.944 | 2.857 | 10.1 | 20.6 |
| 10 8 | 2 10.82 | + 6 20.1 | 1.895 | 2.858 | 6.5 | 20.4 |
| 10 18 | 2 3.38 | + 5 46.1 | 1.871 | 2.860 | 3.0 | 20.2 |
| 10 28 | 1 55.41 | + 5 15.0 | 1.876 | 2.863 | 3.0 | 20.2 |
| 11 7 | 1 47.84 | + 4 51.2 | 1.910 | 2.865 | 6.4 | 20.4 |
| 11 17 | 1 41.47 | + 4 38.3 | 1.969 | 2.868 | 9.9 | 20.6 |
| 11 27 | 1 36.95 | + 4 38.6 | 2.053 | 2.871 | 13.0 | 20.8 |

**247786** 2003 $SR_{8}$ 10 24.9 223°.70 0°.9/24.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.61 | +12 37.1 | 1.937 | 2.764 | 14.2 | 21.1 |
| 9 28 | 2 18.28 | +11 55.8 | 1.854 | 2.760 | 10.9 | 20.9 |
| 10 8 | 2 11.82 | +11 3.0 | 1.794 | 2.755 | 7.0 | 20.7 |
| 10 18 | 2 3.83 | +10 2.4 | 1.760 | 2.750 | 2.9 | 20.4 |
| 10 28 | 1 55.20 | + 8 59.2 | 1.754 | 2.745 | 2.0 | 20.3 |
| 11 7 | 1 46.94 | + 8 0.0 | 1.777 | 2.739 | 6.2 | 20.6 |
| 11 17 | 1 39.97 | + 7 10.6 | 1.827 | 2.734 | 10.2 | 20.8 |
| 11 27 | 1 35.01 | + 6 35.5 | 1.902 | 2.728 | 13.6 | 21.1 |

**480416** 2015 $KW_{97}$ 10 24.9 52°.25 8°.5/20.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.31 | − 7 35.0 | 1.462 | 2.311 | 16.8 | 20.3 |
| 9 28 | 2 22.73 | − 8 22.0 | 1.423 | 2.331 | 13.4 | 20.2 |
| 10 8 | 2 14.63 | − 8 59.8 | 1.406 | 2.351 | 10.3 | 20.1 |
| 10 18 | 2 4.90 | − 9 20.7 | 1.412 | 2.371 | 8.5 | 20.0 |
| 10 28 | 1 54.80 | − 9 18.8 | 1.444 | 2.392 | 9.2 | 20.1 |
| 11 7 | 1 45.60 | − 8 51.9 | 1.501 | 2.413 | 11.7 | 20.3 |
| 11 17 | 1 38.28 | − 8 1.2 | 1.581 | 2.434 | 14.7 | 20.5 |
| 11 27 | 1 33.50 | − 6 50.3 | 1.681 | 2.455 | 17.3 | 20.8 |

**176798** 2002 $TF_{3}$ 10 24.9 59°.42 0°.2/25.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.85 | +14 36.7 | 1.353 | 2.193 | 18.4 | 19.8 |
| 9 28 | 2 21.42 | +14 19.8 | 1.294 | 2.205 | 14.2 | 19.6 |
| 10 8 | 2 14.13 | +13 48.0 | 1.255 | 2.217 | 9.3 | 19.3 |
| 10 18 | 2 4.82 | +13 4.4 | 1.240 | 2.229 | 3.9 | 19.1 |
| 10 28 | 1 54.81 | +12 14.9 | 1.250 | 2.242 | 1.7 | 18.9 |
| 11 7 | 1 45.55 | +11 27.2 | 1.286 | 2.255 | 7.0 | 19.3 |
| 11 17 | 1 38.24 | +10 48.3 | 1.347 | 2.268 | 11.9 | 19.6 |
| 11 27 | 1 33.71 | +10 23.9 | 1.431 | 2.281 | 15.9 | 19.9 |

**449046** 2012 $DZ_{23}$ 10 24.9 224°.14 1°.2/26.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.55 | +17 38.2 | 2.766 | 3.558 | 11.3 | 22.1 |
| 9 28 | 2 17.70 | +17 32.3 | 2.667 | 3.549 | 8.9 | 21.9 |
| 10 8 | 2 11.21 | +17 16.6 | 2.592 | 3.539 | 6.0 | 21.7 |
| 10 18 | 2 3.54 | +16 52.1 | 2.544 | 3.529 | 3.0 | 21.5 |
| 10 28 | 1 55.35 | +16 21.0 | 2.527 | 3.518 | 1.3 | 21.3 |
| 11 7 | 1 47.36 | +15 46.4 | 2.540 | 3.507 | 4.2 | 21.5 |
| 11 17 | 1 40.26 | +15 12.3 | 2.582 | 3.495 | 7.2 | 21.7 |
| 11 27 | 1 34.65 | +14 42.5 | 2.651 | 3.483 | 10.0 | 21.9 |

**117643** 2005 $ED_{138}$ 10 24.9 176°.79 1°.7/26.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.68 | +16 20.8 | 2.001 | 2.805 | 14.6 | 19.5 |
| 9 28 | 2 22.96 | +16 44.9 | 1.918 | 2.806 | 11.5 | 19.3 |
| 10 8 | 2 14.91 | +16 58.9 | 1.857 | 2.806 | 7.8 | 19.0 |
| 10 18 | 2 5.15 | +17 2.9 | 1.822 | 2.806 | 3.9 | 18.8 |
| 10 28 | 1 54.64 | +16 58.2 | 1.816 | 2.807 | 1.9 | 18.7 |
| 11 7 | 1 44.49 | +16 48.1 | 1.839 | 2.807 | 5.4 | 18.9 |
| 11 17 | 1 35.72 | +16 36.8 | 1.891 | 2.806 | 9.3 | 19.1 |
| 11 27 | 1 29.13 | +16 29.0 | 1.967 | 2.806 | 12.7 | 19.4 |

**240653** 2005 $CJ_{23}$ 10 24.9 315°.94 3°.9/22.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.46 | + 4 26.4 | 1.483 | 2.339 | 16.3 | 19.8 |
| 9 28 | 2 19.70 | + 4 0.1 | 1.398 | 2.319 | 12.6 | 19.5 |
| 10 8 | 2 13.19 | + 3 29.1 | 1.335 | 2.300 | 8.4 | 19.2 |
| 10 18 | 2 4.56 | + 2 58.6 | 1.295 | 2.282 | 4.6 | 18.9 |
| 10 28 | 1 54.89 | + 2 35.0 | 1.281 | 2.264 | 4.9 | 18.9 |
| 11 7 | 1 45.53 | + 2 24.5 | 1.293 | 2.247 | 9.1 | 19.1 |
| 11 17 | 1 37.74 | + 2 31.1 | 1.329 | 2.230 | 13.6 | 19.3 |
| 11 27 | 1 32.51 | + 2 57.0 | 1.386 | 2.214 | 17.6 | 19.6 |

**57317** 2001 $QF_{235}$ 10 24.9 357°.79 0°.6/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 18.62 | +13 12.5 | 1.100 | 1.968 | 19.8 | 18.6 |
| 9 28 | 2 16.60 | +12 52.9 | 1.036 | 1.963 | 15.3 | 18.3 |
| 10 8 | 2 11.41 | +12 16.9 | 0.991 | 1.960 | 10.0 | 18.0 |
| 10 18 | 2 3.84 | +11 28.5 | 0.966 | 1.958 | 4.1 | 17.7 |
| 10 28 | 1 55.26 | +10 35.2 | 0.965 | 1.957 | 2.2 | 17.5 |
| 11 7 | 1 47.31 | + 9 46.3 | 0.987 | 1.958 | 8.2 | 17.9 |
| 11 17 | 1 41.39 | + 9 10.3 | 1.032 | 1.961 | 13.7 | 18.2 |
| 11 27 | 1 38.49 | + 8 53.2 | 1.096 | 1.964 | 18.4 | 18.5 |

**476460** 2008 $EB_{126}$ 10 24.9 259°.40 1°.6/23.7 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.33 | +12 21.4 | 1.552 | 2.393 | 16.4 | 22.0 |
| 9 28 | 2 19.42 | +11 27.6 | 1.469 | 2.382 | 12.7 | 21.8 |
| 10 8 | 2 12.89 | +10 18.8 | 1.408 | 2.372 | 8.2 | 21.5 |
| 10 18 | 2 4.39 | + 8 59.7 | 1.371 | 2.362 | 3.4 | 21.2 |
| 10 28 | 1 55.01 | + 7 38.0 | 1.361 | 2.351 | 2.8 | 21.1 |
| 11 7 | 1 46.05 | + 6 22.5 | 1.378 | 2.340 | 7.7 | 21.4 |
| 11 17 | 1 38.66 | + 5 21.6 | 1.421 | 2.329 | 12.4 | 21.6 |
| 11 27 | 1 33.74 | + 4 40.7 | 1.486 | 2.317 | 16.5 | 21.9 |

**259454** 2003 $ST_{77}$ 10 24.9 30°.22 4°.7/27.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.23 | +23 37.9 | 1.001 | 1.843 | 23.3 | 19.6 |
| 9 28 | 2 19.59 | +23 46.0 | 0.953 | 1.856 | 18.7 | 19.4 |
| 10 8 | 2 13.38 | +23 25.3 | 0.921 | 1.871 | 13.4 | 19.2 |
| 10 18 | 2 4.61 | +22 35.6 | 0.908 | 1.887 | 7.9 | 18.9 |
| 10 28 | 1 54.98 | +21 22.7 | 0.917 | 1.905 | 4.7 | 18.8 |
| 11 7 | 1 46.37 | +19 58.0 | 0.950 | 1.923 | 7.8 | 19.1 |
| 11 17 | 1 40.26 | +18 34.9 | 1.005 | 1.943 | 12.8 | 19.4 |
| 11 27 | 1 37.51 | +17 24.8 | 1.080 | 1.963 | 17.4 | 19.7 |

**406760** 2008 $KD_{1}$ 10 24.9 35°.39 6°.6/20.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.54 | − 4 14.6 | 1.732 | 2.584 | 14.5 | 20.1 |
| 9 28 | 2 18.11 | − 5 5.7 | 1.686 | 2.599 | 11.4 | 19.9 |
| 10 8 | 2 11.59 | − 5 52.3 | 1.663 | 2.614 | 8.4 | 19.8 |
| 10 18 | 2 3.69 | − 6 27.9 | 1.664 | 2.630 | 6.7 | 19.7 |
| 10 28 | 1 55.39 | − 6 46.5 | 1.692 | 2.647 | 7.4 | 19.8 |
| 11 7 | 1 47.71 | − 6 44.8 | 1.746 | 2.664 | 9.9 | 20.0 |
| 11 17 | 1 41.50 | − 6 22.2 | 1.824 | 2.681 | 12.8 | 20.2 |
| 11 27 | 1 37.36 | − 5 40.0 | 1.923 | 2.699 | 15.3 | 20.4 |

**208127** 2000 $DU_{57}$ 10 24.9 203°.30 4°.4/20.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.05 | + 2 58.3 | 2.107 | 2.950 | 12.6 | 20.6 |
| 9 28 | 2 16.83 | + 1 38.6 | 2.034 | 2.947 | 9.7 | 20.4 |
| 10 8 | 2 10.76 | + 0 14.5 | 1.985 | 2.944 | 6.6 | 20.2 |
| 10 18 | 2 3.39 | − 1 7.9 | 1.963 | 2.941 | 4.5 | 20.1 |
| 10 28 | 1 55.50 | − 2 21.6 | 1.970 | 2.938 | 5.3 | 20.1 |
| 11 7 | 1 47.98 | − 3 20.3 | 2.005 | 2.934 | 8.1 | 20.3 |
| 11 17 | 1 41.60 | − 4 0.2 | 2.066 | 2.930 | 11.2 | 20.5 |
| 11 27 | 1 36.99 | − 4 19.4 | 2.150 | 2.926 | 14.0 | 20.7 |

**323629** 2004 $VW_{80}$ 10 24.9 242°.97 1°.4/23.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.64 | + 8 12.3 | 2.342 | 3.166 | 12.1 | 20.3 |
| 9 28 | 2 18.70 | + 8 2.8 | 2.258 | 3.162 | 9.3 | 20.1 |
| 10 8 | 2 11.94 | + 7 48.5 | 2.197 | 3.158 | 6.0 | 19.9 |
| 10 18 | 2 3.89 | + 7 31.9 | 2.164 | 3.154 | 2.6 | 19.6 |
| 10 28 | 1 55.29 | + 7 16.1 | 2.161 | 3.149 | 2.2 | 19.6 |
| 11 7 | 1 46.99 | + 7 4.6 | 2.186 | 3.145 | 5.5 | 19.8 |
| 11 17 | 1 39.75 | + 7 0.3 | 2.241 | 3.140 | 8.9 | 20.0 |
| 11 27 | 1 34.20 | + 7 5.5 | 2.320 | 3.136 | 11.8 | 20.2 |

**371376** 2006 $QB_{99}$ 10 24.9 31°.68 1°.0/24.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.19 | +11 52.7 | 0.934 | 1.807 | 22.0 | 20.3 |
| 9 28 | 2 20.89 | +11 39.2 | 0.896 | 1.825 | 16.8 | 20.1 |
| 10 8 | 2 14.07 | +11 11.2 | 0.875 | 1.845 | 10.8 | 19.8 |
| 10 18 | 2 4.85 | +10 33.6 | 0.874 | 1.866 | 4.4 | 19.5 |
| 10 28 | 1 54.97 | + 9 54.4 | 0.896 | 1.888 | 2.6 | 19.5 |
| 11 7 | 1 46.24 | + 9 22.4 | 0.941 | 1.912 | 8.6 | 20.0 |
| 11 17 | 1 40.03 | + 9 4.3 | 1.008 | 1.936 | 14.0 | 20.4 |
| 11 27 | 1 37.13 | + 9 4.2 | 1.095 | 1.961 | 18.5 | 20.7 |

**301180** 2008 $YE_{129}$ 10 24.9 142°.05 1°.8/23.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.70 | + 8 45.3 | 2.033 | 2.862 | 13.5 | 21.8 |
| 9 28 | 2 19.66 | + 8 15.0 | 1.961 | 2.868 | 10.3 | 21.6 |
| 10 8 | 2 12.62 | + 7 37.9 | 1.913 | 2.875 | 6.6 | 21.4 |
| 10 18 | 2 4.18 | + 6 57.7 | 1.892 | 2.881 | 2.9 | 21.2 |
| 10 28 | 1 55.23 | + 6 19.0 | 1.899 | 2.887 | 2.6 | 21.2 |
| 11 7 | 1 46.72 | + 5 46.8 | 1.935 | 2.892 | 6.3 | 21.4 |
| 11 17 | 1 39.50 | + 5 24.9 | 1.999 | 2.897 | 9.9 | 21.7 |
| 11 27 | 1 34.21 | + 5 16.1 | 2.087 | 2.902 | 13.0 | 21.9 |

**306197** 2011 $PQ_{8}$ 10 24.9 308°.23 8°.1/29.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.63 | +30 3.4 | 1.680 | 2.445 | 18.5 | 20.6 |
| 9 28 | 2 22.59 | +31 12.8 | 1.579 | 2.424 | 15.9 | 20.4 |
| 10 8 | 2 15.45 | +32 3.9 | 1.498 | 2.403 | 12.8 | 20.1 |
| 10 18 | 2 5.69 | +32 30.9 | 1.438 | 2.382 | 9.9 | 19.9 |
| 10 28 | 1 54.44 | +32 30.3 | 1.402 | 2.361 | 8.2 | 19.8 |
| 11 7 | 1 43.24 | +32 3.4 | 1.391 | 2.341 | 9.0 | 19.8 |
| 11 17 | 1 33.65 | +31 16.2 | 1.406 | 2.321 | 11.9 | 19.9 |
| 11 27 | 1 26.94 | +30 18.8 | 1.443 | 2.302 | 15.3 | 20.1 |

**518349** 2017 $DB_5$ 10 24.9 202°.41 4°.8/19.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.72 | − 2 18.8 | 2.603 | 3.440 | 10.7 | 21.8 |
| 9 28 | 2 15.47 | − 3 22.0 | 2.531 | 3.437 | 8.3 | 21.7 |
| 10 8 | 2 9.73 | − 4 24.6 | 2.485 | 3.435 | 6.1 | 21.5 |
| 10 18 | 2 2.96 | − 5 21.7 | 2.466 | 3.432 | 4.8 | 21.4 |
| 10 28 | 1 55.78 | − 6 8.3 | 2.476 | 3.429 | 5.6 | 21.5 |
| 11 7 | 1 48.89 | − 6 40.5 | 2.515 | 3.425 | 7.6 | 21.6 |
| 11 17 | 1 42.91 | − 6 56.1 | 2.580 | 3.422 | 10.0 | 21.8 |
| 11 27 | 1 38.37 | − 6 54.4 | 2.668 | 3.418 | 12.2 | 21.9 |

**82189** 2001 $HN_{28}$ 10 24.9 33°.15 1°.9/26.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.38 | +20 51.4 | 1.279 | 2.114 | 19.6 | 17.5 |
| 9 28 | 2 17.26 | +20 9.2 | 1.233 | 2.138 | 15.3 | 17.3 |
| 10 8 | 2 11.38 | +19 4.1 | 1.206 | 2.162 | 10.3 | 17.1 |
| 10 18 | 2 3.69 | +17 40.3 | 1.202 | 2.188 | 5.1 | 16.9 |
| 10 28 | 1 55.51 | +16 5.9 | 1.223 | 2.215 | 2.1 | 16.8 |
| 11 7 | 1 48.21 | +14 31.9 | 1.269 | 2.242 | 6.5 | 17.2 |
| 11 17 | 1 42.84 | +13 8.1 | 1.341 | 2.270 | 11.1 | 17.5 |
| 11 27 | 1 40.08 | +12 2.2 | 1.435 | 2.299 | 15.1 | 17.8 |

**114047** 2002 $VT_{16}$ 10 24.9 75°.87 2°.7/27.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.88 | +22 13.8 | 1.881 | 2.679 | 15.6 | 19.4 |
| 9 28 | 2 18.61 | +22 0.7 | 1.806 | 2.686 | 12.5 | 19.2 |
| 10 8 | 2 12.10 | +21 30.0 | 1.752 | 2.693 | 8.8 | 19.0 |
| 10 18 | 2 4.01 | +20 42.7 | 1.722 | 2.701 | 5.0 | 18.8 |
| 10 28 | 1 55.32 | +19 42.2 | 1.720 | 2.708 | 2.7 | 18.6 |
| 11 7 | 1 47.12 | +18 34.7 | 1.746 | 2.715 | 5.4 | 18.8 |
| 11 17 | 1 40.35 | +17 27.5 | 1.800 | 2.723 | 9.2 | 19.1 |
| 11 27 | 1 35.73 | +16 27.5 | 1.878 | 2.730 | 12.6 | 19.3 |

**435121** 2007 $EQ_{10}$ 10 24.9 84°.82 5°.0/28.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.15 | +25 17.4 | 1.608 | 2.396 | 18.3 | 20.8 |
| 9 28 | 2 23.14 | +25 45.2 | 1.539 | 2.407 | 14.9 | 20.6 |
| 10 8 | 2 15.30 | +25 52.8 | 1.489 | 2.418 | 11.1 | 20.4 |
| 10 18 | 2 5.40 | +25 38.2 | 1.462 | 2.429 | 7.2 | 20.2 |
| 10 28 | 1 54.70 | +25 2.9 | 1.461 | 2.440 | 5.0 | 20.1 |
| 11 7 | 1 44.61 | +24 12.3 | 1.486 | 2.451 | 6.8 | 20.2 |
| 11 17 | 1 36.37 | +23 14.4 | 1.538 | 2.462 | 10.4 | 20.5 |
| 11 27 | 1 30.84 | +22 18.3 | 1.614 | 2.472 | 14.0 | 20.7 |

**303680** 2005 $NP_6$ 10 24.9 130°.45 2°.8/27.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.79 | +23 9.8 | 2.235 | 3.016 | 14.0 | 20.9 |
| 9 28 | 2 18.96 | +23 2.1 | 2.156 | 3.025 | 11.2 | 20.8 |
| 10 8 | 2 12.18 | +22 39.0 | 2.099 | 3.033 | 8.0 | 20.6 |
| 10 18 | 2 4.02 | +22 0.8 | 2.067 | 3.042 | 4.7 | 20.4 |
| 10 28 | 1 55.33 | +21 10.2 | 2.064 | 3.050 | 2.9 | 20.3 |
| 11 7 | 1 47.07 | +20 12.1 | 2.090 | 3.057 | 4.9 | 20.4 |
| 11 17 | 1 40.05 | +19 12.2 | 2.145 | 3.065 | 8.1 | 20.7 |
| 11 27 | 1 34.92 | +18 16.6 | 2.226 | 3.072 | 11.1 | 20.9 |

**443404** 2014 $HU_{38}$ 10 24.9 24°.73 4°.2/21.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.35 | + 3 5.0 | 1.745 | 2.593 | 14.6 | 21.2 |
| 9 28 | 2 18.95 | + 2 22.9 | 1.679 | 2.595 | 11.2 | 21.0 |
| 10 8 | 2 12.31 | + 1 37.8 | 1.634 | 2.597 | 7.5 | 20.8 |
| 10 18 | 2 4.10 | + 0 55.2 | 1.615 | 2.599 | 4.5 | 20.6 |
| 10 28 | 1 55.30 | + 0 21.3 | 1.624 | 2.601 | 5.0 | 20.6 |
| 11 7 | 1 46.98 | + 0 1.2 | 1.659 | 2.603 | 8.3 | 20.9 |
| 11 17 | 1 40.09 | − 0 2.0 | 1.720 | 2.606 | 11.9 | 21.1 |
| 11 27 | 1 35.34 | + 0 12.8 | 1.803 | 2.608 | 15.1 | 21.3 |

**520627** 2014 $OW_{414}$ 10 24.9 61°.41 4°.3/20.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.41 | + 1 17.5 | 2.163 | 3.006 | 12.3 | 20.8 |
| 9 28 | 2 16.19 | + 0 22.1 | 2.104 | 3.017 | 9.4 | 20.6 |
| 10 8 | 2 10.26 | − 0 34.3 | 2.070 | 3.029 | 6.4 | 20.5 |
| 10 18 | 2 3.18 | − 1 26.6 | 2.063 | 3.041 | 4.4 | 20.4 |
| 10 28 | 1 55.73 | − 2 9.4 | 2.084 | 3.052 | 5.0 | 20.4 |
| 11 7 | 1 48.70 | − 2 38.4 | 2.133 | 3.064 | 7.6 | 20.6 |
| 11 17 | 1 42.81 | − 2 51.2 | 2.208 | 3.076 | 10.4 | 20.8 |
| 11 27 | 1 38.61 | − 2 46.9 | 2.306 | 3.088 | 12.9 | 21.0 |

**364467** 2007 $CD_{28}$ 10 24.9 162°.40 4°.5/19.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.60 | − 0 35.8 | 2.528 | 3.365 | 11.0 | 21.9 |
| 9 28 | 2 16.15 | − 1 39.8 | 2.461 | 3.369 | 8.5 | 21.8 |
| 10 8 | 2 10.16 | − 2 44.1 | 2.419 | 3.372 | 6.0 | 21.6 |
| 10 18 | 2 3.14 | − 3 43.9 | 2.405 | 3.376 | 4.5 | 21.5 |
| 10 28 | 1 55.74 | − 4 33.9 | 2.420 | 3.379 | 5.2 | 21.6 |
| 11 7 | 1 48.67 | − 5 10.1 | 2.463 | 3.381 | 7.4 | 21.7 |
| 11 17 | 1 42.56 | − 5 30.0 | 2.533 | 3.383 | 9.9 | 21.9 |
| 11 27 | 1 37.94 | − 5 32.9 | 2.627 | 3.385 | 12.1 | 22.1 |

**358848** 2008 $FW_{63}$ 10 24.9 112°.50 1°.4/26.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.41 | +17 20.9 | 2.768 | 3.551 | 11.5 | 21.4 |
| 9 28 | 2 21.17 | +17 31.0 | 2.698 | 3.574 | 9.0 | 21.2 |
| 10 8 | 2 13.34 | +17 32.2 | 2.652 | 3.596 | 6.1 | 21.1 |
| 10 18 | 2 4.44 | +17 25.1 | 2.635 | 3.618 | 3.0 | 20.9 |
| 10 28 | 1 55.18 | +17 11.5 | 2.649 | 3.639 | 1.5 | 20.8 |
| 11 7 | 1 46.31 | +16 54.0 | 2.694 | 3.660 | 4.0 | 21.0 |
| 11 17 | 1 38.51 | +16 36.0 | 2.769 | 3.680 | 6.9 | 21.3 |
| 11 27 | 1 32.31 | +16 20.8 | 2.871 | 3.699 | 9.4 | 21.5 |

**82132** 2001 $FF_{111}$ 10 24.9 42°.47 2°.8/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.36 | +10 25.9 | 1.226 | 2.086 | 18.7 | 18.7 |
| 9 28 | 2 18.90 | + 9 20.0 | 1.173 | 2.097 | 14.2 | 18.5 |
| 10 8 | 2 12.57 | + 8 0.7 | 1.140 | 2.109 | 9.1 | 18.2 |
| 10 18 | 2 4.25 | + 6 35.5 | 1.131 | 2.121 | 4.0 | 18.0 |
| 10 28 | 1 55.29 | + 5 14.5 | 1.147 | 2.134 | 4.0 | 18.0 |
| 11 7 | 1 47.11 | + 4 7.7 | 1.187 | 2.147 | 8.8 | 18.3 |
| 11 17 | 1 40.90 | + 3 21.9 | 1.252 | 2.161 | 13.6 | 18.6 |
| 11 27 | 1 37.44 | + 3 0.6 | 1.337 | 2.175 | 17.6 | 18.9 |

**297308** 1998 $TH_{21}$ 10 24.9 7°.66 0°.6/25.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.11 | +14 17.9 | 1.479 | 2.318 | 17.2 | 20.5 |
| 9 28 | 2 19.32 | +14 19.7 | 1.409 | 2.319 | 13.3 | 20.2 |
| 10 8 | 2 12.85 | +14 9.0 | 1.360 | 2.321 | 8.8 | 20.0 |
| 10 18 | 2 4.42 | +13 47.6 | 1.333 | 2.323 | 3.9 | 19.7 |
| 10 28 | 1 55.18 | +13 19.6 | 1.333 | 2.326 | 1.5 | 19.6 |
| 11 7 | 1 46.46 | +12 50.8 | 1.359 | 2.329 | 6.5 | 19.9 |
| 11 17 | 1 39.43 | +12 27.2 | 1.411 | 2.334 | 11.2 | 20.2 |
| 11 27 | 1 34.95 | +12 14.0 | 1.484 | 2.339 | 15.2 | 20.4 |

**472583** 2015 $DL_{120}$ 10 24.9 331°.65 6°.0/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.22 | + 1 39.0 | 1.277 | 2.142 | 17.8 | 20.5 |
| 9 28 | 2 20.46 | + 0 42.8 | 1.212 | 2.136 | 13.8 | 20.3 |
| 10 8 | 2 13.74 | − 0 16.8 | 1.167 | 2.131 | 9.5 | 20.0 |
| 10 18 | 2 4.83 | − 1 11.5 | 1.145 | 2.126 | 6.3 | 19.8 |
| 10 28 | 1 55.01 | − 1 52.0 | 1.147 | 2.121 | 7.2 | 19.9 |
| 11 7 | 1 45.77 | − 2 11.0 | 1.174 | 2.117 | 11.1 | 20.1 |
| 11 17 | 1 38.42 | − 2 4.8 | 1.223 | 2.114 | 15.4 | 20.3 |
| 11 27 | 1 33.88 | − 1 33.5 | 1.292 | 2.110 | 19.2 | 20.6 |

**239799** 1993 $OU_9$ 10 24.9 41°.30 6°.2/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.05 | − 0 25.2 | 1.486 | 2.345 | 16.0 | 19.6 |
| 9 28 | 2 18.87 | − 1 27.8 | 1.439 | 2.359 | 12.4 | 19.4 |
| 10 8 | 2 12.28 | − 2 29.6 | 1.413 | 2.373 | 8.7 | 19.2 |
| 10 18 | 2 4.08 | − 3 23.0 | 1.412 | 2.387 | 6.3 | 19.1 |
| 10 28 | 1 55.39 | − 4 0.4 | 1.436 | 2.403 | 7.1 | 19.2 |
| 11 7 | 1 47.40 | − 4 16.7 | 1.486 | 2.418 | 10.2 | 19.4 |
| 11 17 | 1 41.08 | − 4 10.1 | 1.560 | 2.434 | 13.6 | 19.7 |
| 11 27 | 1 37.11 | − 3 41.4 | 1.654 | 2.451 | 16.6 | 19.9 |

**404969** 1999 $TL_{58}$ 10 24.9 7°.95 2°.4/23.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.10 | + 5 31.8 | 2.034 | 2.869 | 13.3 | 20.8 |
| 9 28 | 2 19.26 | + 5 19.9 | 1.959 | 2.869 | 10.1 | 20.6 |
| 10 8 | 2 12.42 | + 5 4.7 | 1.908 | 2.870 | 6.6 | 20.4 |
| 10 18 | 2 4.15 | + 4 49.5 | 1.883 | 2.871 | 3.2 | 20.2 |
| 10 28 | 1 55.32 | + 4 38.1 | 1.886 | 2.872 | 3.2 | 20.2 |
| 11 7 | 1 46.87 | + 4 34.2 | 1.919 | 2.873 | 6.5 | 20.4 |
| 11 17 | 1 39.67 | + 4 40.3 | 1.978 | 2.874 | 10.0 | 20.6 |
| 11 27 | 1 34.38 | + 4 58.2 | 2.061 | 2.876 | 13.1 | 20.8 |

**508998** 2005 $GO_7$ 10 24.9 149°.66 1°.3/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.65 | + 9 20.6 | 2.571 | 3.387 | 11.4 | 22.4 |
| 9 28 | 2 19.19 | + 8 52.2 | 2.498 | 3.398 | 8.7 | 22.2 |
| 10 8 | 2 12.12 | + 8 18.2 | 2.449 | 3.408 | 5.6 | 22.1 |
| 10 18 | 2 3.96 | + 7 41.1 | 2.429 | 3.418 | 2.4 | 21.9 |
| 10 28 | 1 55.42 | + 7 4.8 | 2.438 | 3.427 | 2.0 | 21.8 |
| 11 7 | 1 47.24 | + 6 32.9 | 2.479 | 3.435 | 5.1 | 22.1 |
| 11 17 | 1 40.10 | + 6 8.7 | 2.548 | 3.443 | 8.2 | 22.3 |
| 11 27 | 1 34.53 | + 5 54.7 | 2.644 | 3.450 | 10.8 | 22.5 |

**228930** 2003 $SC_{310}$ 10 24.9 0°.86 1°.6/23.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.14 | + 9 55.3 | 1.696 | 2.544 | 14.9 | 20.1 |
| 9 28 | 2 15.89 | + 9 28.3 | 1.625 | 2.542 | 11.4 | 19.9 |
| 10 8 | 2 10.42 | + 8 52.5 | 1.575 | 2.541 | 7.3 | 19.6 |
| 10 18 | 2 3.37 | + 8 11.9 | 1.550 | 2.541 | 3.1 | 19.4 |
| 10 28 | 1 55.67 | + 7 31.7 | 1.552 | 2.542 | 2.6 | 19.4 |
| 11 7 | 1 48.41 | + 6 57.8 | 1.581 | 2.544 | 6.7 | 19.6 |
| 11 17 | 1 42.51 | + 6 35.1 | 1.635 | 2.546 | 10.8 | 19.9 |
| 11 27 | 1 38.72 | + 6 27.0 | 1.712 | 2.550 | 14.3 | 20.1 |

**217317** 2004 $PR_{57}$ 10 24.9 10°.26 5°.6/20.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.77 | + 1 52.0 | 1.543 | 2.409 | 15.2 | 19.5 |
| 9 28 | 2 14.90 | + 0 33.6 | 1.487 | 2.412 | 11.7 | 19.3 |
| 10 8 | 2 9.78 | − 0 48.0 | 1.452 | 2.416 | 8.1 | 19.1 |
| 10 18 | 2 3.08 | − 2 4.6 | 1.442 | 2.421 | 5.7 | 19.0 |
| 10 28 | 1 55.83 | − 3 7.5 | 1.458 | 2.427 | 6.7 | 19.0 |
| 11 7 | 1 49.10 | − 3 50.0 | 1.499 | 2.433 | 9.9 | 19.3 |
| 11 17 | 1 43.83 | − 4 8.5 | 1.563 | 2.441 | 13.4 | 19.5 |
| 11 27 | 1 40.70 | − 4 2.6 | 1.649 | 2.450 | 16.5 | 19.7 |

**134535** 1999 $RZ_{70}$ 10 24.9 73°.12 2°.7/22.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.77 | + 9 54.6 | 1.329 | 2.180 | 18.1 | 19.8 |
| 9 28 | 2 21.20 | + 8 50.8 | 1.280 | 2.199 | 13.7 | 19.6 |
| 10 8 | 2 13.90 | + 7 35.7 | 1.252 | 2.219 | 8.7 | 19.4 |
| 10 18 | 2 4.76 | + 6 16.3 | 1.248 | 2.238 | 3.9 | 19.2 |
| 10 28 | 1 55.12 | + 5 1.8 | 1.270 | 2.257 | 3.9 | 19.2 |
| 11 7 | 1 46.33 | + 4 1.0 | 1.319 | 2.276 | 8.4 | 19.6 |
| 11 17 | 1 39.50 | + 3 19.6 | 1.392 | 2.295 | 12.9 | 19.9 |
| 11 27 | 1 35.33 | + 3 0.7 | 1.486 | 2.314 | 16.6 | 20.2 |

**117799** 2005 $GW_{151}$ 10 24.9 81°.47 0°.1/24.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.58 | +14 57.4 | 1.863 | 2.687 | 14.8 | 19.9 |
| 9 28 | 2 18.25 | +14 21.7 | 1.795 | 2.697 | 11.4 | 19.7 |
| 10 8 | 2 11.81 | +13 33.4 | 1.749 | 2.707 | 7.4 | 19.5 |
| 10 18 | 2 3.90 | +12 35.5 | 1.728 | 2.718 | 3.1 | 19.3 |
| 10 28 | 1 55.47 | +11 33.6 | 1.736 | 2.728 | 1.4 | 19.2 |
| 11 7 | 1 47.55 | +10 33.8 | 1.772 | 2.738 | 5.7 | 19.5 |
| 11 17 | 1 41.02 | + 9 42.3 | 1.835 | 2.748 | 9.7 | 19.7 |
| 11 27 | 1 36.54 | + 9 3.8 | 1.923 | 2.758 | 13.1 | 20.0 |

**514075** 2014 $QL_{421}$ 10 24.9 55°.47 6°.1/19.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.48 | − 2 32.5 | 1.926 | 2.775 | 13.4 | 20.2 |
| 9 28 | 2 17.03 | − 3 56.3 | 1.892 | 2.803 | 10.4 | 20.1 |
| 10 8 | 2 10.77 | − 5 17.1 | 1.881 | 2.832 | 7.6 | 20.0 |
| 10 18 | 2 3.38 | − 6 27.9 | 1.896 | 2.861 | 6.1 | 19.9 |
| 10 28 | 1 55.73 | − 7 22.1 | 1.939 | 2.890 | 7.0 | 20.1 |
| 11 7 | 1 48.69 | − 7 55.7 | 2.009 | 2.919 | 9.3 | 20.3 |
| 11 17 | 1 42.98 | − 8 7.3 | 2.103 | 2.948 | 11.9 | 20.5 |
| 11 27 | 1 39.10 | − 7 57.6 | 2.219 | 2.976 | 14.1 | 20.7 |

**362955** 2013 $AB_{78}$ 10 24.9 167°.17 3°.8/28.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.03 | +24 42.3 | 2.129 | 2.904 | 14.8 | 20.9 |
| 9 28 | 2 20.16 | +24 52.1 | 2.043 | 2.906 | 12.0 | 20.7 |
| 10 8 | 2 13.11 | +24 45.6 | 1.980 | 2.907 | 8.9 | 20.5 |
| 10 18 | 2 4.49 | +24 22.2 | 1.940 | 2.909 | 5.6 | 20.3 |
| 10 28 | 1 55.19 | +23 43.3 | 1.929 | 2.910 | 3.8 | 20.2 |
| 11 7 | 1 46.27 | +22 53.3 | 1.947 | 2.911 | 5.5 | 20.3 |
| 11 17 | 1 38.66 | +21 58.2 | 1.992 | 2.912 | 8.6 | 20.5 |
| 11 27 | 1 33.10 | +21 4.7 | 2.063 | 2.913 | 11.7 | 20.7 |

**91448** 1999 $RY_{21}$ 10 24.9 286°.67 3°.0/26.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.44 | +19 2.9 | 1.754 | 2.560 | 16.3 | 18.3 |
| 9 28 | 2 22.60 | +19 34.2 | 1.662 | 2.548 | 13.0 | 18.1 |
| 10 8 | 2 15.07 | +19 52.8 | 1.591 | 2.536 | 9.2 | 17.8 |
| 10 18 | 2 5.43 | +19 57.5 | 1.544 | 2.524 | 5.2 | 17.6 |
| 10 28 | 1 54.74 | +19 49.0 | 1.524 | 2.512 | 3.0 | 17.4 |
| 11 7 | 1 44.29 | +19 30.9 | 1.532 | 2.500 | 6.2 | 17.6 |
| 11 17 | 1 35.33 | +19 8.6 | 1.567 | 2.489 | 10.4 | 17.8 |
| 11 27 | 1 28.84 | +18 48.5 | 1.626 | 2.477 | 14.3 | 18.0 |

**164683** 1997 $LH_{3}$ 10 24.9 108°.79 1°.8/23.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.16 | + 9 55.4 | 1.874 | 2.708 | 14.3 | 20.7 |
| 9 28 | 2 18.67 | + 9 13.9 | 1.805 | 2.715 | 10.9 | 20.5 |
| 10 8 | 2 12.08 | + 8 23.7 | 1.758 | 2.721 | 7.0 | 20.3 |
| 10 18 | 2 4.03 | + 7 29.0 | 1.737 | 2.727 | 3.0 | 20.1 |
| 10 28 | 1 55.44 | + 6 35.4 | 1.745 | 2.733 | 2.7 | 20.1 |
| 11 7 | 1 47.32 | + 5 48.9 | 1.781 | 2.739 | 6.6 | 20.3 |
| 11 17 | 1 40.55 | + 5 14.3 | 1.844 | 2.745 | 10.4 | 20.6 |
| 11 27 | 1 35.82 | + 4 55.0 | 1.930 | 2.751 | 13.7 | 20.8 |

**518066** 2015 $XY_{376}$ 10 24.9 9°.59 2°.6/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.05 | + 5 23.9 | 1.930 | 2.770 | 13.7 | 20.6 |
| 9 28 | 2 18.56 | + 5 9.0 | 1.858 | 2.771 | 10.5 | 20.4 |
| 10 8 | 2 12.02 | + 4 50.8 | 1.810 | 2.773 | 6.8 | 20.2 |
| 10 18 | 2 4.02 | + 4 32.6 | 1.787 | 2.775 | 3.4 | 20.0 |
| 10 28 | 1 55.45 | + 4 18.9 | 1.793 | 2.777 | 3.4 | 20.0 |
| 11 7 | 1 47.29 | + 4 13.3 | 1.826 | 2.780 | 6.8 | 20.2 |
| 11 17 | 1 40.42 | + 4 18.7 | 1.886 | 2.784 | 10.4 | 20.5 |
| 11 27 | 1 35.52 | + 4 36.7 | 1.969 | 2.787 | 13.5 | 20.7 |

**384750** 2011 $QK_{26}$ 10 24.9 122°.86 4°.8/29.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 29.04 | +28 35.1 | 2.261 | 3.006 | 14.9 | 21.9 |
| 9 28 | 2 23.02 | +28 52.6 | 2.188 | 3.025 | 12.3 | 21.7 |
| 10 8 | 2 14.85 | +28 52.3 | 2.135 | 3.043 | 9.4 | 21.6 |
| 10 18 | 2 5.18 | +28 32.9 | 2.107 | 3.061 | 6.5 | 21.4 |
| 10 28 | 1 54.97 | +27 55.5 | 2.108 | 3.078 | 4.9 | 21.4 |
| 11 7 | 1 45.27 | +27 4.2 | 2.137 | 3.094 | 5.8 | 21.5 |
| 11 17 | 1 36.99 | +26 5.0 | 2.196 | 3.109 | 8.3 | 21.6 |
| 11 27 | 1 30.82 | +25 4.9 | 2.280 | 3.124 | 11.0 | 21.8 |

**28979** 2001 $LW$ 10 24.9 242°.94 3°.5/29.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.25 | +27 24.0 | 2.529 | 3.288 | 13.1 | 18.9 |
| 9 28 | 2 16.21 | +27 0.9 | 2.432 | 3.283 | 10.8 | 18.7 |
| 10 8 | 2 10.40 | +26 20.4 | 2.358 | 3.278 | 8.0 | 18.5 |
| 10 18 | 2 3.35 | +25 22.7 | 2.309 | 3.273 | 5.2 | 18.3 |
| 10 28 | 1 55.78 | +24 10.2 | 2.288 | 3.268 | 3.5 | 18.2 |
| 11 7 | 1 48.52 | +22 47.7 | 2.297 | 3.262 | 4.7 | 18.3 |
| 11 17 | 1 42.32 | +21 21.4 | 2.336 | 3.257 | 7.5 | 18.4 |
| 11 27 | 1 37.78 | +19 58.1 | 2.401 | 3.252 | 10.3 | 18.6 |

**473412** 2015 $VR_{117}$ 10 24.9 249°.00 5°.4/19.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.64 | − 2 55.1 | 2.273 | 3.113 | 11.9 | 20.9 |
| 9 28 | 2 17.21 | − 3 49.4 | 2.200 | 3.107 | 9.3 | 20.7 |
| 10 8 | 2 11.02 | − 4 42.4 | 2.151 | 3.101 | 6.9 | 20.5 |
| 10 18 | 2 3.60 | − 5 28.8 | 2.129 | 3.095 | 5.4 | 20.4 |
| 10 28 | 1 55.68 | − 6 3.0 | 2.135 | 3.089 | 6.2 | 20.5 |
| 11 7 | 1 48.09 | − 6 21.2 | 2.168 | 3.083 | 8.4 | 20.6 |
| 11 17 | 1 41.55 | − 6 21.3 | 2.227 | 3.077 | 11.1 | 20.8 |
| 11 27 | 1 36.69 | − 6 3.0 | 2.309 | 3.070 | 13.5 | 20.9 |

**336788** 2011 $CV_{32}$ 10 24.9 115°.52 3°.2/27.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 28.45 | +21 31.9 | 1.686 | 2.484 | 17.2 | 21.5 |
| 9 28 | 2 23.15 | +21 40.0 | 1.615 | 2.495 | 13.7 | 21.3 |
| 10 8 | 2 15.22 | +21 30.8 | 1.565 | 2.507 | 9.7 | 21.1 |
| 10 18 | 2 5.41 | +21 3.9 | 1.539 | 2.518 | 5.5 | 20.9 |
| 10 28 | 1 54.89 | +20 22.1 | 1.541 | 2.528 | 3.2 | 20.8 |
| 11 7 | 1 44.96 | +19 31.3 | 1.570 | 2.538 | 6.0 | 21.0 |
| 11 17 | 1 36.76 | +18 38.8 | 1.626 | 2.548 | 10.1 | 21.2 |
| 11 27 | 1 31.09 | +17 52.0 | 1.706 | 2.558 | 13.7 | 21.5 |

**86076** 1999 $RD_{65}$ 10 24.9 67°.56 4°.4/28.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.34 | +25 32.2 | 2.084 | 2.857 | 15.1 | 19.9 |
| 9 28 | 2 20.43 | +25 59.5 | 2.008 | 2.866 | 12.4 | 19.7 |
| 10 8 | 2 13.32 | +26 10.6 | 1.952 | 2.875 | 9.3 | 19.6 |
| 10 18 | 2 4.60 | +26 4.2 | 1.921 | 2.884 | 6.2 | 19.4 |
| 10 28 | 1 55.24 | +25 41.2 | 1.917 | 2.893 | 4.4 | 19.3 |
| 11 7 | 1 46.29 | +25 5.4 | 1.941 | 2.903 | 5.8 | 19.4 |
| 11 17 | 1 38.71 | +24 22.4 | 1.993 | 2.912 | 8.7 | 19.6 |
| 11 27 | 1 33.23 | +23 38.6 | 2.070 | 2.921 | 11.6 | 19.8 |

**490942** 2011 $CJ_{90}$ 10 24.9 326°.93 4°.0/28.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.11 | +25 20.0 | 2.238 | 3.012 | 14.2 | 21.7 |
| 9 28 | 2 17.91 | +25 34.7 | 2.147 | 3.008 | 11.6 | 21.6 |
| 10 8 | 2 11.68 | +25 33.8 | 2.078 | 3.003 | 8.7 | 21.4 |
| 10 18 | 2 3.94 | +25 16.5 | 2.034 | 3.000 | 5.7 | 21.2 |
| 10 28 | 1 55.52 | +24 44.0 | 2.017 | 2.996 | 4.0 | 21.1 |
| 11 7 | 1 47.40 | +24 0.0 | 2.028 | 2.992 | 5.4 | 21.2 |
| 11 17 | 1 40.45 | +23 9.7 | 2.068 | 2.989 | 8.3 | 21.3 |
| 11 27 | 1 35.40 | +22 19.7 | 2.132 | 2.986 | 11.3 | 21.5 |

**425517** 2010 $KK_{54}$ 10 24.9 21°.59 1°.4/25.7 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.17 | +16 4.5 | 0.926 | 1.795 | 22.6 | 20.3 |
| 9 28 | 2 19.73 | +16 8.4 | 0.878 | 1.803 | 17.6 | 20.0 |
| 10 8 | 2 13.63 | +15 52.2 | 0.847 | 1.813 | 11.8 | 19.7 |
| 10 18 | 2 4.88 | +15 18.0 | 0.835 | 1.825 | 5.4 | 19.5 |
| 10 28 | 1 55.17 | +14 32.5 | 0.845 | 1.838 | 2.1 | 19.3 |
| 11 7 | 1 46.45 | +13 45.6 | 0.878 | 1.852 | 8.1 | 19.7 |
| 11 17 | 1 40.22 | +13 6.9 | 0.932 | 1.867 | 13.9 | 20.1 |
| 11 27 | 1 37.45 | +12 44.1 | 1.005 | 1.884 | 18.7 | 20.4 |

**400189** 2006 $WJ_{205}$ 10 24.9 261°.68 2°.2/23.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.58 | + 7 11.5 | 2.053 | 2.887 | 13.2 | 21.1 |
| 9 28 | 2 18.94 | + 6 48.3 | 1.973 | 2.882 | 10.1 | 20.9 |
| 10 8 | 2 12.28 | + 6 19.8 | 1.916 | 2.878 | 6.6 | 20.7 |
| 10 18 | 2 4.17 | + 5 49.5 | 1.885 | 2.873 | 3.1 | 20.5 |
| 10 28 | 1 55.45 | + 5 21.6 | 1.882 | 2.869 | 2.9 | 20.5 |
| 11 7 | 1 47.07 | + 5 0.7 | 1.909 | 2.864 | 6.4 | 20.7 |
| 11 17 | 1 39.90 | + 4 50.2 | 1.962 | 2.860 | 10.0 | 20.9 |
| 11 27 | 1 34.62 | + 4 52.6 | 2.040 | 2.855 | 13.2 | 21.1 |

**340432** 2006 $FP_{38}$ 10 24.9 42°.18 0°.8/24.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.20 | +11 24.3 | 1.577 | 2.415 | 16.3 | 20.7 |
| 9 28 | 2 20.68 | +11 12.2 | 1.510 | 2.421 | 12.5 | 20.5 |
| 10 8 | 2 13.63 | +10 50.2 | 1.464 | 2.426 | 8.1 | 20.2 |
| 10 18 | 2 4.76 | +10 21.3 | 1.442 | 2.432 | 3.3 | 20.0 |
| 10 28 | 1 55.20 | + 9 50.4 | 1.447 | 2.439 | 2.0 | 19.9 |
| 11 7 | 1 46.19 | + 9 23.1 | 1.480 | 2.445 | 6.7 | 20.2 |
| 11 17 | 1 38.82 | + 9 4.5 | 1.538 | 2.452 | 11.1 | 20.5 |
| 11 27 | 1 33.88 | + 8 58.5 | 1.619 | 2.459 | 14.9 | 20.7 |

**18349** Dafydd 10 24.9 27°.04 10°.0/ 3.9 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.48 | +39 14.2 | 1.573 | 2.301 | 21.0 | 17.4 |
| 9 28 | 2 19.27 | +39 53.6 | 1.510 | 2.315 | 18.4 | 17.3 |
| 10 8 | 2 13.02 | +40 1.8 | 1.463 | 2.330 | 15.5 | 17.1 |
| 10 18 | 2 4.57 | +39 34.4 | 1.434 | 2.345 | 12.6 | 17.0 |
| 10 28 | 1 55.30 | +38 31.0 | 1.427 | 2.362 | 10.5 | 16.9 |
| 11 7 | 1 46.78 | +36 57.4 | 1.443 | 2.379 | 10.1 | 16.9 |
| 11 17 | 1 40.29 | +35 4.2 | 1.485 | 2.397 | 11.6 | 17.1 |
| 11 27 | 1 36.70 | +33 4.4 | 1.550 | 2.416 | 14.0 | 17.3 |

**407547** 2010 $WD_{52}$ 10 24.9 356°.46 3°.4/22.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.93 | + 3 20.3 | 1.932 | 2.773 | 13.7 | 19.9 |
| 9 28 | 2 19.26 | + 3 1.5 | 1.859 | 2.772 | 10.5 | 19.7 |
| 10 8 | 2 12.50 | + 2 40.7 | 1.809 | 2.771 | 7.0 | 19.5 |
| 10 18 | 2 4.26 | + 2 22.0 | 1.785 | 2.770 | 3.9 | 19.3 |
| 10 28 | 1 55.43 | + 2 9.9 | 1.789 | 2.770 | 4.1 | 19.3 |
| 11 7 | 1 47.00 | + 2 8.0 | 1.821 | 2.769 | 7.3 | 19.5 |
| 11 17 | 1 39.86 | + 2 18.8 | 1.879 | 2.770 | 10.8 | 19.8 |
| 11 27 | 1 34.71 | + 2 43.6 | 1.961 | 2.770 | 13.9 | 20.0 |

**292704** 2006 $UW_{123}$ 10 24.9 185°.08 0°.6/24.5 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.99 | +13 23.8 | 1.657 | 2.486 | 16.1 | 21.8 |
| 9 28 | 2 21.26 | +12 50.6 | 1.581 | 2.486 | 12.4 | 21.6 |
| 10 8 | 2 14.02 | +12 4.5 | 1.526 | 2.486 | 8.1 | 21.4 |
| 10 18 | 2 4.95 | +11 8.6 | 1.496 | 2.486 | 3.3 | 21.1 |
| 10 28 | 1 55.13 | +10 8.9 | 1.493 | 2.485 | 1.9 | 21.0 |
| 11 7 | 1 45.79 | + 9 12.3 | 1.519 | 2.484 | 6.7 | 21.3 |
| 11 17 | 1 38.04 | + 8 25.7 | 1.571 | 2.482 | 11.2 | 21.5 |
| 11 27 | 1 32.68 | + 7 54.1 | 1.646 | 2.480 | 15.0 | 21.8 |

**45088** 1999 $XX_{46}$ 10 24.9 327.°82 1.°5/26.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 19.77 | +18 11.3 | 1.863 | 2.682 | 15.0 | 18.6 |
| 9 28 | 2 16.43 | +17 57.7 | 1.773 | 2.669 | 11.8 | 18.4 |
| 10 8 | 2 10.87 | +17 29.3 | 1.704 | 2.657 | 8.1 | 18.1 |
| 10 18 | 2 3.66 | +16 47.4 | 1.660 | 2.646 | 4.0 | 17.9 |
| 10 28 | 1 55.68 | +15 55.6 | 1.643 | 2.635 | 1.7 | 17.7 |
| 11 7 | 1 48.00 | +14 59.8 | 1.654 | 2.624 | 5.5 | 17.9 |
| 11 17 | 1 41.59 | +14 6.5 | 1.691 | 2.614 | 9.7 | 18.2 |
| 11 27 | 1 37.25 | +13 21.9 | 1.752 | 2.605 | 13.4 | 18.4 |

**96255** 1995 $ES_{6}$ 10 24.9 246.°54 0.°2/25.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.28 | +14 39.0 | 2.536 | 3.345 | 11.7 | 20.7 |
| 9 28 | 2 16.91 | +14 20.3 | 2.441 | 3.335 | 9.1 | 20.5 |
| 10 8 | 2 10.85 | +13 52.3 | 2.370 | 3.325 | 6.0 | 20.3 |
| 10 18 | 2 3.56 | +13 16.9 | 2.326 | 3.315 | 2.6 | 20.0 |
| 10 28 | 1 55.74 | +12 37.1 | 2.312 | 3.304 | 1.0 | 19.9 |
| 11 7 | 1 48.14 | +11 56.9 | 2.327 | 3.293 | 4.6 | 20.1 |
| 11 17 | 1 41.48 | +11 20.4 | 2.371 | 3.282 | 7.9 | 20.3 |
| 11 27 | 1 36.38 | +10 51.6 | 2.441 | 3.271 | 10.9 | 20.5 |

**327597** 2006 $DH_{196}$ 10 24.9 308.°76 7.°4/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 17.84 | − 3 48.7 | 1.927 | 2.782 | 13.1 | 20.4 |
| 9 28 | 2 14.79 | − 5 41.7 | 1.845 | 2.758 | 10.5 | 20.2 |
| 10 8 | 2 9.73 | − 7 36.8 | 1.787 | 2.735 | 8.2 | 20.0 |
| 10 18 | 2 3.17 | − 9 25.1 | 1.756 | 2.711 | 7.4 | 19.9 |
| 10 28 | 1 55.91 | −10 57.0 | 1.751 | 2.688 | 8.7 | 20.0 |
| 11 7 | 1 48.89 | −12 5.0 | 1.773 | 2.665 | 11.4 | 20.1 |
| 11 17 | 1 42.98 | −12 44.7 | 1.818 | 2.643 | 14.3 | 20.2 |
| 11 27 | 1 38.93 | −12 55.4 | 1.882 | 2.621 | 16.9 | 20.4 |

**238994** 2006 $BF_{266}$ 10 24.9 261.°30 0.°5/24.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.63 | +12 10.2 | 1.883 | 2.707 | 14.6 | 21.0 |
| 9 28 | 2 20.90 | +11 58.5 | 1.790 | 2.693 | 11.3 | 20.7 |
| 10 8 | 2 13.80 | +11 37.2 | 1.719 | 2.678 | 7.4 | 20.5 |
| 10 18 | 2 4.90 | +11 8.4 | 1.673 | 2.663 | 3.1 | 20.2 |
| 10 28 | 1 55.15 | +10 35.9 | 1.656 | 2.648 | 1.6 | 20.0 |
| 11 7 | 1 45.64 | +10 4.9 | 1.667 | 2.632 | 6.2 | 20.3 |
| 11 17 | 1 37.45 | + 9 40.4 | 1.706 | 2.617 | 10.5 | 20.5 |
| 11 27 | 1 31.42 | + 9 26.8 | 1.768 | 2.601 | 14.2 | 20.7 |

**304222** 2006 $QA_{160}$ 10 24.9 149.°27 3.°1/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.93 | + 6 24.5 | 2.038 | 2.876 | 13.2 | 21.3 |
| 9 28 | 2 17.59 | + 5 24.6 | 1.967 | 2.879 | 10.0 | 21.1 |
| 10 8 | 2 11.34 | + 4 18.6 | 1.920 | 2.883 | 6.5 | 20.9 |
| 10 18 | 2 3.76 | + 3 11.6 | 1.900 | 2.886 | 3.5 | 20.7 |
| 10 28 | 1 55.69 | + 2 9.7 | 1.908 | 2.889 | 3.9 | 20.8 |
| 11 7 | 1 48.02 | + 1 18.8 | 1.945 | 2.891 | 7.1 | 21.0 |
| 11 17 | 1 41.57 | + 0 43.1 | 2.009 | 2.894 | 10.5 | 21.2 |
| 11 27 | 1 36.95 | + 0 24.9 | 2.096 | 2.896 | 13.5 | 21.4 |

**51434** 2001 $FG_{19}$ 10 24.9 64.°52 3.°1/21.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 18.90 | + 8 2.8 | 2.153 | 2.992 | 12.5 | 18.4 |
| 9 28 | 2 15.11 | + 6 23.9 | 2.091 | 3.005 | 9.4 | 18.2 |
| 10 8 | 2 9.63 | + 4 37.1 | 2.054 | 3.018 | 6.1 | 18.0 |
| 10 18 | 2 3.03 | + 2 49.0 | 2.045 | 3.031 | 3.4 | 17.9 |
| 10 28 | 1 56.06 | + 1 7.1 | 2.066 | 3.044 | 4.0 | 18.0 |
| 11 7 | 1 49.53 | − 0 21.8 | 2.117 | 3.057 | 7.0 | 18.2 |
| 11 17 | 1 44.11 | − 1 32.4 | 2.194 | 3.071 | 10.1 | 18.4 |
| 11 27 | 1 40.35 | − 2 22.3 | 2.296 | 3.084 | 12.8 | 18.6 |

**328133** 2008 $BD_{19}$ 10 24.9 162.°06 6.°9/20.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.53 | − 2 6.0 | 1.525 | 2.375 | 16.2 | 20.9 |
| 9 28 | 2 22.46 | − 3 9.0 | 1.464 | 2.377 | 12.7 | 20.7 |
| 10 8 | 2 14.79 | − 4 10.7 | 1.425 | 2.379 | 9.2 | 20.5 |
| 10 18 | 2 5.27 | − 5 3.2 | 1.410 | 2.381 | 7.0 | 20.3 |
| 10 28 | 1 55.08 | − 5 38.4 | 1.422 | 2.383 | 7.8 | 20.4 |
| 11 7 | 1 45.50 | − 5 50.8 | 1.459 | 2.384 | 10.9 | 20.6 |
| 11 17 | 1 37.64 | − 5 38.5 | 1.520 | 2.385 | 14.4 | 20.8 |
| 11 27 | 1 32.29 | − 5 2.5 | 1.602 | 2.386 | 17.6 | 21.0 |

**402371** 2005 $WN_{210}$ 10 24.9 31.°89 2.°1/23.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.46 | + 7 43.4 | 1.916 | 2.754 | 13.9 | 20.9 |
| 9 28 | 2 18.14 | + 7 18.1 | 1.847 | 2.759 | 10.5 | 20.7 |
| 10 8 | 2 11.77 | + 6 46.9 | 1.800 | 2.764 | 6.8 | 20.5 |
| 10 18 | 2 3.98 | + 6 13.6 | 1.780 | 2.769 | 3.1 | 20.3 |
| 10 28 | 1 55.64 | + 5 42.9 | 1.788 | 2.775 | 2.9 | 20.3 |
| 11 7 | 1 47.74 | + 5 19.5 | 1.824 | 2.781 | 6.5 | 20.5 |
| 11 17 | 1 41.14 | + 5 7.0 | 1.886 | 2.787 | 10.2 | 20.8 |
| 11 27 | 1 36.50 | + 5 7.8 | 1.972 | 2.793 | 13.4 | 21.0 |

**269393** 2009 $QS_{44}$ 10 24.9 40.°70 9.°7/19.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.29 | − 4 25.9 | 1.071 | 1.948 | 19.5 | 19.2 |
| 9 28 | 2 20.39 | − 6 3.5 | 1.045 | 1.970 | 15.4 | 19.0 |
| 10 8 | 2 13.49 | − 7 33.3 | 1.037 | 1.993 | 11.7 | 18.9 |
| 10 18 | 2 4.66 | − 8 43.1 | 1.051 | 2.017 | 9.8 | 18.9 |
| 10 28 | 1 55.43 | − 9 22.9 | 1.088 | 2.041 | 10.9 | 19.0 |
| 11 7 | 1 47.30 | − 9 28.4 | 1.148 | 2.066 | 13.8 | 19.3 |
| 11 17 | 1 41.37 | − 9 0.8 | 1.227 | 2.092 | 17.2 | 19.6 |
| 11 27 | 1 38.30 | − 8 4.7 | 1.325 | 2.119 | 20.1 | 19.8 |

**285491** 2000 $CK_{114}$ 10 24.9 193.°57 3.°1/28.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 22.43 | +25 6.0 | 2.830 | 3.589 | 11.8 | 21.4 |
| 9 28 | 2 17.69 | +25 8.9 | 2.735 | 3.588 | 9.6 | 21.2 |
| 10 8 | 2 11.32 | +24 58.8 | 2.663 | 3.586 | 7.1 | 21.0 |
| 10 18 | 2 3.78 | +24 35.4 | 2.618 | 3.583 | 4.6 | 20.9 |
| 10 28 | 1 55.73 | +24 0.0 | 2.601 | 3.581 | 3.1 | 20.8 |
| 11 7 | 1 47.93 | +23 16.0 | 2.615 | 3.578 | 4.4 | 20.8 |
| 11 17 | 1 41.07 | +22 27.4 | 2.657 | 3.574 | 6.9 | 21.0 |
| 11 27 | 1 35.73 | +21 39.2 | 2.727 | 3.571 | 9.4 | 21.2 |

**112207** 2002 $JQ_{127}$ 10 24.9 9.°30 2.°7/22.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.69 | + 8 43.1 | 1.560 | 2.410 | 15.9 | 19.2 |
| 9 28 | 2 18.02 | + 7 49.6 | 1.492 | 2.411 | 12.1 | 19.0 |
| 10 8 | 2 11.93 | + 6 46.3 | 1.445 | 2.412 | 7.8 | 18.8 |
| 10 18 | 2 4.11 | + 5 38.9 | 1.423 | 2.413 | 3.7 | 18.5 |
| 10 28 | 1 55.61 | + 4 34.9 | 1.428 | 2.414 | 3.8 | 18.5 |
| 11 7 | 1 47.61 | + 3 42.0 | 1.460 | 2.416 | 7.9 | 18.8 |
| 11 17 | 1 41.16 | + 3 5.7 | 1.516 | 2.418 | 12.1 | 19.1 |
| 11 27 | 1 37.02 | + 2 49.4 | 1.594 | 2.421 | 15.8 | 19.3 |

**288456** 2004 $EX_{74}$ 10 24.9 242.°66 4.°7/20.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.82 | + 1 34.4 | 2.016 | 2.860 | 13.0 | 20.4 |
| 9 28 | 2 17.61 | + 0 28.8 | 1.941 | 2.854 | 10.0 | 20.2 |
| 10 8 | 2 11.44 | − 0 39.7 | 1.890 | 2.848 | 7.0 | 20.0 |
| 10 18 | 2 3.87 | − 1 45.1 | 1.865 | 2.842 | 4.8 | 19.8 |
| 10 28 | 1 55.72 | − 2 40.8 | 1.868 | 2.836 | 5.6 | 19.9 |
| 11 7 | 1 47.93 | − 3 21.2 | 1.899 | 2.829 | 8.4 | 20.0 |
| 11 17 | 1 41.32 | − 3 42.8 | 1.955 | 2.822 | 11.6 | 20.2 |
| 11 27 | 1 36.56 | − 3 44.3 | 2.034 | 2.816 | 14.5 | 20.4 |

**345400** 2006 $BJ_{221}$ 10 24.9 158.°65 1.°3/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.32 | +10 36.7 | 2.008 | 2.833 | 13.8 | 21.6 |
| 9 28 | 2 20.26 | +10 4.1 | 1.934 | 2.838 | 10.6 | 21.4 |
| 10 8 | 2 13.13 | + 9 23.1 | 1.882 | 2.843 | 6.8 | 21.2 |
| 10 18 | 2 4.56 | + 8 36.9 | 1.858 | 2.847 | 2.8 | 20.9 |
| 10 28 | 1 55.44 | + 7 50.4 | 1.862 | 2.851 | 2.2 | 20.9 |
| 11 7 | 1 46.74 | + 7 9.0 | 1.895 | 2.855 | 6.1 | 21.1 |
| 11 17 | 1 39.36 | + 6 37.2 | 1.955 | 2.857 | 9.8 | 21.4 |
| 11 27 | 1 33.95 | + 6 18.5 | 2.041 | 2.860 | 13.1 | 21.6 |

**464837** 2005 $CT_{46}$ 10 24.9 337.°84 9.°3/ 1.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.39 | +35 57.2 | 1.964 | 2.685 | 17.5 | 20.7 |
| 9 28 | 2 21.33 | +37 14.0 | 1.871 | 2.674 | 15.4 | 20.5 |
| 10 8 | 2 14.47 | +38 10.8 | 1.797 | 2.664 | 13.1 | 20.4 |
| 10 18 | 2 5.34 | +38 42.1 | 1.744 | 2.654 | 10.8 | 20.2 |
| 10 28 | 1 55.02 | +38 44.7 | 1.715 | 2.644 | 9.4 | 20.1 |
| 11 7 | 1 44.86 | +38 19.4 | 1.710 | 2.636 | 9.6 | 20.1 |
| 11 17 | 1 36.21 | +37 31.6 | 1.730 | 2.628 | 11.2 | 20.2 |
| 11 27 | 1 30.16 | +36 30.0 | 1.774 | 2.621 | 13.5 | 20.3 |

**221679** 2007 $DH_{11}$ 10 24.9 190.°99 2.°0/26.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.11 | +20 18.1 | 2.674 | 3.457 | 11.9 | 21.5 |
| 9 28 | 2 18.24 | +20 16.3 | 2.583 | 3.456 | 9.4 | 21.3 |
| 10 8 | 2 11.70 | +20 3.2 | 2.515 | 3.455 | 6.6 | 21.1 |
| 10 18 | 2 3.95 | +19 39.4 | 2.474 | 3.453 | 3.6 | 20.9 |
| 10 28 | 1 55.69 | +19 6.8 | 2.462 | 3.450 | 2.0 | 20.8 |
| 11 7 | 1 47.69 | +18 28.7 | 2.480 | 3.448 | 4.2 | 20.9 |
| 11 17 | 1 40.66 | +17 49.4 | 2.528 | 3.445 | 7.2 | 21.1 |
| 11 27 | 1 35.20 | +17 13.2 | 2.603 | 3.441 | 10.0 | 21.3 |

**435116** 2007 $DK_{86}$ 10 24.9 150.°75 0.°3/25.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.64 | +15 11.0 | 1.893 | 2.707 | 14.9 | 22.1 |
| 9 28 | 2 21.44 | +14 50.1 | 1.818 | 2.714 | 11.6 | 21.9 |
| 10 8 | 2 13.99 | +14 17.0 | 1.765 | 2.721 | 7.6 | 21.7 |
| 10 18 | 2 4.95 | +13 33.9 | 1.738 | 2.727 | 3.3 | 21.4 |
| 10 28 | 1 55.29 | +12 45.1 | 1.740 | 2.732 | 1.3 | 21.3 |
| 11 7 | 1 46.12 | +11 56.4 | 1.771 | 2.738 | 5.7 | 21.6 |
| 11 17 | 1 38.39 | +11 13.6 | 1.829 | 2.742 | 9.7 | 21.8 |
| 11 27 | 1 32.82 | +10 41.4 | 1.912 | 2.746 | 13.2 | 22.1 |

**275291** 2010 $FS_{87}$ 10 24.9 117.°30 0.°3/24.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.97 | +14 20.3 | 1.972 | 2.791 | 14.2 | 21.2 |
| 9 28 | 2 19.24 | +13 43.9 | 1.902 | 2.802 | 10.9 | 21.0 |
| 10 8 | 2 12.46 | +12 55.8 | 1.855 | 2.813 | 7.1 | 20.8 |
| 10 18 | 2 4.27 | +11 59.2 | 1.834 | 2.824 | 2.9 | 20.6 |
| 10 28 | 1 55.59 | +10 59.2 | 1.843 | 2.834 | 1.4 | 20.5 |
| 11 7 | 1 47.40 | +10 1.9 | 1.880 | 2.845 | 5.6 | 20.8 |
| 11 17 | 1 40.55 | + 9 12.6 | 1.944 | 2.854 | 9.4 | 21.0 |
| 11 27 | 1 35.69 | + 8 35.9 | 2.034 | 2.864 | 12.7 | 21.3 |

**177524** 2004 $EA_{100}$ 10 24.9 121.°35 0.°6/25.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.35 | +15 53.6 | 2.018 | 2.832 | 14.1 | 21.5 |
| 9 28 | 2 18.84 | +15 36.0 | 1.940 | 2.836 | 11.0 | 21.3 |
| 10 8 | 2 12.26 | +15 6.6 | 1.885 | 2.840 | 7.3 | 21.1 |
| 10 18 | 2 4.23 | +14 27.2 | 1.855 | 2.843 | 3.2 | 20.8 |
| 10 28 | 1 55.61 | +13 41.7 | 1.854 | 2.847 | 1.2 | 20.7 |
| 11 7 | 1 47.39 | +12 55.3 | 1.882 | 2.850 | 5.3 | 21.0 |
| 11 17 | 1 40.46 | +12 13.5 | 1.938 | 2.853 | 9.1 | 21.2 |
| 11 27 | 1 35.49 | +11 40.9 | 2.018 | 2.857 | 12.4 | 21.4 |

**11956** Tamarakate 10 24.9 12°.85 4°.9/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 23.61 | + 4 26.6 | 1.173 | 2.043 | 18.7 | 17.4 |
| 9 28 | 2 20.15 | + 3 38.8 | 1.116 | 2.045 | 14.4 | 17.1 |
| 10 8 | 2 13.64 | + 2 45.1 | 1.079 | 2.047 | 9.6 | 16.8 |
| 10 18 | 2 4.91 | + 1 53.3 | 1.064 | 2.050 | 5.4 | 16.6 |
| 10 28 | 1 55.34 | + 1 12.4 | 1.073 | 2.054 | 6.0 | 16.7 |
| 11 7 | 1 46.49 | + 0 50.1 | 1.106 | 2.059 | 10.3 | 16.9 |
| 11 17 | 1 39.66 | + 0 50.2 | 1.161 | 2.064 | 14.9 | 17.2 |
| 11 27 | 1 35.75 | + 1 13.9 | 1.236 | 2.070 | 18.9 | 17.5 |

**518035** 2015 $XP_{14}$ 10 24.9 99°.12 3°.3/22.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.40 | + 3 7.5 | 2.190 | 3.025 | 12.5 | 21.3 |
| 9 28 | 2 18.62 | + 2 40.2 | 2.117 | 3.026 | 9.5 | 21.2 |
| 10 8 | 2 12.00 | + 2 10.9 | 2.067 | 3.027 | 6.4 | 21.0 |
| 10 18 | 2 4.09 | + 1 43.7 | 2.045 | 3.028 | 3.7 | 20.8 |
| 10 28 | 1 55.68 | + 1 22.7 | 2.051 | 3.029 | 4.0 | 20.8 |
| 11 7 | 1 47.64 | + 1 11.7 | 2.086 | 3.030 | 6.8 | 21.0 |
| 11 17 | 1 40.74 | + 1 13.1 | 2.148 | 3.031 | 10.0 | 21.2 |
| 11 27 | 1 35.60 | + 1 28.3 | 2.234 | 3.032 | 12.8 | 21.4 |

**82171** 2001 $HO_9$ 10 24.9 130°.20 1°.8/23.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.60 | +10 44.7 | 1.821 | 2.649 | 14.9 | 20.4 |
| 9 28 | 2 21.31 | + 9 52.4 | 1.757 | 2.663 | 11.3 | 20.3 |
| 10 8 | 2 13.83 | + 8 50.2 | 1.716 | 2.677 | 7.3 | 20.0 |
| 10 18 | 2 4.85 | + 7 42.8 | 1.701 | 2.690 | 3.1 | 19.8 |
| 10 28 | 1 55.38 | + 6 36.5 | 1.715 | 2.703 | 2.7 | 19.8 |
| 11 7 | 1 46.49 | + 5 38.1 | 1.757 | 2.715 | 6.7 | 20.1 |
| 11 17 | 1 39.09 | + 4 53.0 | 1.827 | 2.726 | 10.6 | 20.4 |
| 11 27 | 1 33.86 | + 4 24.5 | 1.921 | 2.737 | 13.9 | 20.6 |

**24764** 1993 $DX_2$ 10 24.9 47°.08 6°.1/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.18 | + 1 59.0 | 1.262 | 2.128 | 17.9 | 17.7 |
| 9 28 | 2 20.20 | + 0 46.1 | 1.215 | 2.140 | 13.7 | 17.5 |
| 10 8 | 2 13.42 | − 0 29.3 | 1.188 | 2.152 | 9.4 | 17.3 |
| 10 18 | 2 4.73 | − 1 38.3 | 1.185 | 2.165 | 6.3 | 17.1 |
| 10 28 | 1 55.45 | − 2 31.1 | 1.206 | 2.179 | 7.2 | 17.2 |
| 11 7 | 1 46.97 | − 3 0.8 | 1.252 | 2.192 | 10.9 | 17.5 |
| 11 17 | 1 40.43 | − 3 4.6 | 1.321 | 2.206 | 14.8 | 17.7 |
| 11 27 | 1 36.58 | − 2 42.9 | 1.409 | 2.221 | 18.3 | 18.0 |

**88781** 2001 $ST_{104}$ 10 24.9 54°.59 2°.7/27.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.23 | +21 35.0 | 1.404 | 2.223 | 18.9 | 19.3 |
| 9 28 | 2 20.29 | +21 16.3 | 1.343 | 2.237 | 15.0 | 19.1 |
| 10 8 | 2 13.54 | +20 35.7 | 1.301 | 2.251 | 10.4 | 18.9 |
| 10 18 | 2 4.81 | +19 34.9 | 1.282 | 2.265 | 5.6 | 18.7 |
| 10 28 | 1 55.41 | +18 19.5 | 1.289 | 2.279 | 2.7 | 18.5 |
| 11 7 | 1 46.75 | +16 58.4 | 1.322 | 2.294 | 6.4 | 18.8 |
| 11 17 | 1 39.99 | +15 41.5 | 1.381 | 2.309 | 11.0 | 19.1 |
| 11 27 | 1 35.93 | +14 37.1 | 1.463 | 2.324 | 15.0 | 19.4 |

**392220** 2009 $UP_{82}$ 10 24.9 24°.65 1°.9/21.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 15.05 | + 3 10.6 | 4.250 | 5.076 | 7.1 | 20.8 |
| 9 28 | 2 11.46 | + 2 49.2 | 4.172 | 5.077 | 5.4 | 20.7 |
| 10 8 | 2 6.99 | + 2 26.9 | 4.119 | 5.078 | 3.5 | 20.5 |
| 10 18 | 2 1.93 | + 2 5.6 | 4.096 | 5.078 | 2.1 | 20.4 |
| 10 28 | 1 56.64 | + 1 47.5 | 4.103 | 5.079 | 2.3 | 20.5 |
| 11 7 | 1 51.51 | + 1 34.3 | 4.140 | 5.080 | 3.9 | 20.6 |
| 11 17 | 1 46.89 | + 1 27.5 | 4.206 | 5.081 | 5.7 | 20.7 |
| 11 27 | 1 43.10 | + 1 28.3 | 4.299 | 5.082 | 7.4 | 20.8 |

**426171** 2012 $JK_3$ 10 24.9 152°.94 0°.1/25.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.80 | +15 16.6 | 1.839 | 2.653 | 15.3 | 22.1 |
| 9 28 | 2 22.36 | +14 45.5 | 1.766 | 2.662 | 11.9 | 21.9 |
| 10 8 | 2 14.61 | +14 1.2 | 1.714 | 2.670 | 7.8 | 21.7 |
| 10 18 | 2 5.22 | +13 6.5 | 1.689 | 2.678 | 3.3 | 21.4 |
| 10 28 | 1 55.23 | +12 6.2 | 1.692 | 2.685 | 1.4 | 21.3 |
| 11 7 | 1 45.77 | +11 7.1 | 1.725 | 2.691 | 5.9 | 21.6 |
| 11 17 | 1 37.82 | +10 15.3 | 1.785 | 2.696 | 10.1 | 21.9 |
| 11 27 | 1 32.12 | + 9 36.1 | 1.869 | 2.700 | 13.6 | 22.1 |

**191269** 2003 $DB_2$ 10 24.9 120°.03 3°.7/22.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.80 | + 5 44.2 | 1.711 | 2.555 | 15.0 | 20.7 |
| 9 28 | 2 20.09 | + 4 43.8 | 1.649 | 2.564 | 11.4 | 20.5 |
| 10 8 | 2 13.13 | + 3 37.3 | 1.609 | 2.572 | 7.5 | 20.3 |
| 10 18 | 2 4.60 | + 2 30.8 | 1.595 | 2.581 | 4.1 | 20.1 |
| 10 28 | 1 55.52 | + 1 31.6 | 1.609 | 2.589 | 4.6 | 20.2 |
| 11 7 | 1 47.00 | + 0 46.0 | 1.650 | 2.597 | 8.1 | 20.4 |
| 11 17 | 1 39.99 | + 0 18.4 | 1.717 | 2.604 | 11.9 | 20.7 |
| 11 27 | 1 35.17 | + 0 10.6 | 1.807 | 2.611 | 15.1 | 20.9 |

**275629** 2000 $DF_{101}$ 10 24.9 221°.25 0°.8/24.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.19 | +11 55.2 | 2.141 | 2.955 | 13.4 | 22.1 |
| 9 28 | 2 21.79 | +11 29.0 | 2.046 | 2.944 | 10.4 | 21.9 |
| 10 8 | 2 14.25 | +10 53.3 | 1.974 | 2.932 | 6.8 | 21.6 |
| 10 18 | 2 5.12 | +10 10.8 | 1.929 | 2.919 | 2.8 | 21.3 |
| 10 28 | 1 55.26 | + 9 25.4 | 1.914 | 2.905 | 1.8 | 21.2 |
| 11 7 | 1 45.65 | + 8 42.4 | 1.929 | 2.890 | 5.8 | 21.5 |
| 11 17 | 1 37.24 | + 8 6.6 | 1.972 | 2.874 | 9.7 | 21.7 |
| 11 27 | 1 30.78 | + 7 42.3 | 2.040 | 2.858 | 13.1 | 21.9 |

**255321** 2005 $WJ_{29}$ 10 24.9 22°.86 3°.3/28.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 20.70 | +24 11.3 | 1.859 | 2.654 | 15.9 | 19.6 |
| 9 28 | 2 17.10 | +23 57.9 | 1.782 | 2.658 | 12.8 | 19.4 |
| 10 8 | 2 11.28 | +23 25.1 | 1.726 | 2.663 | 9.3 | 19.2 |
| 10 18 | 2 3.86 | +22 33.6 | 1.694 | 2.668 | 5.6 | 19.0 |
| 10 28 | 1 55.83 | +21 26.8 | 1.688 | 2.674 | 3.3 | 18.9 |
| 11 7 | 1 48.25 | +20 11.2 | 1.710 | 2.680 | 5.5 | 19.1 |
| 11 17 | 1 42.07 | +18 54.4 | 1.759 | 2.686 | 9.1 | 19.3 |
| 11 27 | 1 38.02 | +17 44.2 | 1.834 | 2.693 | 12.5 | 19.5 |

**159523** 2001 $FS_{82}$ 10 24.9 92°.61 7°.8/ 2.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 32.35 | +39 34.7 | 2.694 | 3.352 | 14.5 | 20.0 |
| 9 28 | 2 25.71 | +40 39.8 | 2.623 | 3.375 | 12.8 | 19.9 |
| 10 8 | 2 16.77 | +41 25.9 | 2.570 | 3.397 | 10.9 | 19.8 |
| 10 18 | 2 6.16 | +41 49.2 | 2.541 | 3.419 | 9.2 | 19.7 |
| 10 28 | 1 54.83 | +41 48.2 | 2.538 | 3.441 | 8.0 | 19.7 |
| 11 7 | 1 43.90 | +41 24.5 | 2.561 | 3.463 | 7.9 | 19.7 |
| 11 17 | 1 34.36 | +40 42.7 | 2.612 | 3.484 | 8.9 | 19.8 |
| 11 27 | 1 26.98 | +39 49.4 | 2.688 | 3.505 | 10.4 | 19.9 |

**208888** 2002 $TT_{98}$ 10 24.9 76°.61 0°.0/25.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.83 | +14 59.0 | 1.835 | 2.659 | 15.0 | 20.5 |
| 9 28 | 2 18.58 | +14 27.6 | 1.764 | 2.666 | 11.5 | 20.3 |
| 10 8 | 2 12.16 | +13 43.4 | 1.715 | 2.673 | 7.6 | 20.0 |
| 10 18 | 2 4.21 | +12 49.4 | 1.691 | 2.680 | 3.2 | 19.8 |
| 10 28 | 1 55.70 | +11 50.7 | 1.695 | 2.688 | 1.4 | 19.7 |
| 11 7 | 1 47.66 | +10 53.7 | 1.728 | 2.695 | 5.8 | 20.0 |
| 11 17 | 1 41.02 | +10 4.4 | 1.787 | 2.702 | 9.8 | 20.3 |
| 11 27 | 1 36.46 | + 9 27.7 | 1.871 | 2.709 | 13.3 | 20.5 |

**387641** 2002 $QS_{67}$ 10 24.9 164°.26 2°.6/27.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 26.93 | +20 47.1 | 2.154 | 2.941 | 14.3 | 21.4 |
| 9 28 | 2 21.58 | +20 58.3 | 2.071 | 2.945 | 11.4 | 21.2 |
| 10 8 | 2 14.09 | +20 56.2 | 2.009 | 2.948 | 8.1 | 21.0 |
| 10 18 | 2 5.04 | +20 40.6 | 1.973 | 2.951 | 4.6 | 20.8 |
| 10 28 | 1 55.34 | +20 13.3 | 1.966 | 2.953 | 2.7 | 20.7 |
| 11 7 | 1 45.99 | +19 38.2 | 1.988 | 2.955 | 5.1 | 20.9 |
| 11 17 | 1 37.94 | +19 0.4 | 2.039 | 2.957 | 8.6 | 21.1 |
| 11 27 | 1 31.91 | +18 25.7 | 2.115 | 2.958 | 11.7 | 21.3 |

**138496** 2000 $KE_{38}$ 10 24.9 98°.02 2°.4/22.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.93 | + 7 38.6 | 1.964 | 2.800 | 13.6 | 20.8 |
| 9 28 | 2 18.46 | + 6 58.1 | 1.895 | 2.806 | 10.4 | 20.6 |
| 10 8 | 2 11.99 | + 6 11.3 | 1.849 | 2.812 | 6.7 | 20.4 |
| 10 18 | 2 4.13 | + 5 22.4 | 1.830 | 2.818 | 3.2 | 20.2 |
| 10 28 | 1 55.76 | + 4 36.8 | 1.838 | 2.824 | 3.2 | 20.2 |
| 11 7 | 1 47.82 | + 3 59.8 | 1.875 | 2.829 | 6.7 | 20.4 |
| 11 17 | 1 41.17 | + 3 35.3 | 1.939 | 2.835 | 10.2 | 20.7 |
| 11 27 | 1 36.43 | + 3 25.9 | 2.027 | 2.840 | 13.4 | 20.9 |

**409176** 2003 $UM_{250}$ 10 24.9 15°.10 3°.0/28.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 19.58 | +24 39.2 | 2.133 | 2.918 | 14.4 | 20.2 |
| 9 28 | 2 15.99 | +24 16.2 | 2.050 | 2.920 | 11.7 | 20.0 |
| 10 8 | 2 10.44 | +23 35.1 | 1.988 | 2.922 | 8.4 | 19.8 |
| 10 18 | 2 3.50 | +22 36.8 | 1.951 | 2.925 | 5.1 | 19.6 |
| 10 28 | 1 56.03 | +21 24.6 | 1.942 | 2.927 | 3.0 | 19.5 |
| 11 7 | 1 48.94 | +20 4.5 | 1.961 | 2.930 | 5.0 | 19.6 |
| 11 17 | 1 43.06 | +18 43.4 | 2.009 | 2.934 | 8.3 | 19.8 |
| 11 27 | 1 39.04 | +17 28.4 | 2.083 | 2.937 | 11.4 | 20.0 |

**169900** 2002 $RH_{204}$ 10 24.9 13°.26 1°.3/23.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.29 | +12 18.7 | 1.696 | 2.534 | 15.3 | 19.7 |
| 9 28 | 2 17.60 | +11 30.6 | 1.623 | 2.535 | 11.8 | 19.5 |
| 10 8 | 2 11.63 | +10 30.1 | 1.573 | 2.536 | 7.6 | 19.2 |
| 10 18 | 2 4.03 | + 9 21.6 | 1.547 | 2.538 | 3.1 | 19.0 |
| 10 28 | 1 55.80 | + 8 11.8 | 1.549 | 2.539 | 2.3 | 18.9 |
| 11 7 | 1 48.03 | + 7 8.2 | 1.578 | 2.541 | 6.7 | 19.2 |
| 11 17 | 1 41.70 | + 6 17.0 | 1.634 | 2.543 | 10.9 | 19.5 |
| 11 27 | 1 37.53 | + 5 42.9 | 1.712 | 2.545 | 14.6 | 19.7 |

**283443** 2000 $WO_{105}$ 10 24.9 189°.81 2°.0/26.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 24.33 | +20 42.0 | 1.985 | 2.782 | 14.9 | 21.0 |
| 9 28 | 2 19.75 | +20 21.6 | 1.900 | 2.782 | 11.9 | 20.8 |
| 10 8 | 2 12.97 | +19 44.8 | 1.836 | 2.781 | 8.2 | 20.6 |
| 10 18 | 2 4.60 | +18 52.8 | 1.798 | 2.780 | 4.3 | 20.4 |
| 10 28 | 1 55.57 | +17 49.3 | 1.788 | 2.778 | 2.1 | 20.2 |
| 11 7 | 1 46.93 | +16 40.2 | 1.807 | 2.776 | 5.3 | 20.4 |
| 11 17 | 1 39.63 | +15 32.5 | 1.854 | 2.774 | 9.2 | 20.7 |
| 11 27 | 1 34.41 | +14 33.0 | 1.926 | 2.771 | 12.6 | 20.9 |

**353838** 2012 $UE_{167}$ 10 24.9 299°.15 6°.1/30.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.72 | +30 14.0 | 1.685 | 2.456 | 18.2 | 20.3 |
| 9 28 | 2 19.27 | +30 19.3 | 1.592 | 2.445 | 15.4 | 20.1 |
| 10 8 | 2 13.08 | +29 59.3 | 1.518 | 2.433 | 12.0 | 19.9 |
| 10 18 | 2 4.77 | +29 11.5 | 1.465 | 2.422 | 8.5 | 19.6 |
| 10 28 | 1 55.47 | +27 56.9 | 1.438 | 2.410 | 6.2 | 19.5 |
| 11 7 | 1 46.53 | +26 21.6 | 1.436 | 2.399 | 7.2 | 19.5 |
| 11 17 | 1 39.23 | +24 35.6 | 1.461 | 2.389 | 10.5 | 19.7 |
| 11 27 | 1 34.52 | +22 50.5 | 1.511 | 2.378 | 14.3 | 19.9 |

**78661** Castelfranco 10 24.9 193°.26 1°.6/26.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 25.83 | +18 25.9 | 1.597 | 2.414 | 17.1 | 19.6 |
| 9 28 | 2 21.40 | +18 12.5 | 1.519 | 2.414 | 13.5 | 19.4 |
| 10 8 | 2 14.30 | +17 42.2 | 1.461 | 2.413 | 9.2 | 19.2 |
| 10 18 | 2 5.22 | +16 56.2 | 1.427 | 2.413 | 4.5 | 18.9 |
| 10 28 | 1 55.31 | +15 58.8 | 1.420 | 2.412 | 1.9 | 18.7 |
| 11 7 | 1 45.88 | +14 57.2 | 1.441 | 2.411 | 6.2 | 19.0 |
| 11 17 | 1 38.11 | +13 59.2 | 1.487 | 2.410 | 10.8 | 19.3 |
| 11 27 | 1 32.87 | +13 11.9 | 1.558 | 2.408 | 14.8 | 19.5 |

**512197** 2015 $SC_{14}$ 10 24.9 81°.91 1°.2/26.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.60 | +18 59.9 | 1.943 | 2.749 | 14.9 | 21.7 |
| 9 28 | 2 18.98 | +18 26.7 | 1.879 | 2.769 | 11.6 | 21.5 |
| 10 8 | 2 12.30 | +17 38.5 | 1.838 | 2.788 | 7.8 | 21.3 |
| 10 18 | 2 4.25 | +16 37.7 | 1.822 | 2.807 | 3.7 | 21.1 |
| 10 28 | 1 55.77 | +15 29.2 | 1.835 | 2.826 | 1.5 | 21.0 |
| 11 7 | 1 47.85 | +14 19.5 | 1.876 | 2.845 | 5.1 | 21.3 |
| 11 17 | 1 41.33 | +13 15.0 | 1.946 | 2.864 | 8.9 | 21.5 |
| 11 27 | 1 36.83 | +12 21.4 | 2.041 | 2.883 | 12.2 | 21.8 |

**1165** Imprinetta 10 24.9 65°.62 0°.8/24.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 20.64 | +13 53.8 | 2.095 | 2.919 | 13.4 | 15.4 |
| 9 28 | 2 16.50 | +12 52.3 | 2.036 | 2.940 | 10.2 | 15.2 |
| 10 8 | 2 10.58 | +11 39.9 | 2.000 | 2.961 | 6.5 | 15.1 |
| 10 18 | 2 3.51 | +10 20.8 | 1.992 | 2.982 | 2.6 | 14.8 |
| 10 28 | 1 56.09 | + 9 1.0 | 2.012 | 3.003 | 1.8 | 14.8 |
| 11 7 | 1 49.17 | + 7 46.9 | 2.062 | 3.024 | 5.5 | 15.1 |
| 11 17 | 1 43.47 | + 6 43.9 | 2.140 | 3.045 | 8.9 | 15.4 |
| 11 27 | 1 39.53 | + 5 55.8 | 2.243 | 3.066 | 11.9 | 15.6 |

**454566** 2014 $PM_{6}$ 10 24.9 44°.81 4°.3/29.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.27 | +26 31.4 | 2.003 | 2.779 | 15.6 | 21.0 |
| 9 28 | 2 18.20 | +26 33.9 | 1.926 | 2.787 | 12.7 | 20.8 |
| 10 8 | 2 11.96 | +26 17.5 | 1.871 | 2.795 | 9.5 | 20.6 |
| 10 18 | 2 4.17 | +25 41.9 | 1.839 | 2.804 | 6.2 | 20.4 |
| 10 28 | 1 55.78 | +24 49.3 | 1.834 | 2.813 | 4.3 | 20.3 |
| 11 7 | 1 47.85 | +23 44.9 | 1.857 | 2.822 | 5.6 | 20.4 |
| 11 17 | 1 41.29 | +22 35.7 | 1.907 | 2.831 | 8.7 | 20.7 |
| 11 27 | 1 36.80 | +21 29.0 | 1.983 | 2.841 | 11.8 | 20.9 |

**443256** 2014 $EA_{7}$ 10 24.9 180°.29 0°.7/25.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.59 | +15 50.2 | 2.142 | 2.949 | 13.7 | 22.2 |
| 9 28 | 2 20.49 | +15 36.7 | 2.059 | 2.950 | 10.7 | 22.0 |
| 10 8 | 2 13.35 | +15 12.0 | 1.998 | 2.951 | 7.1 | 21.8 |
| 10 18 | 2 4.75 | +14 37.7 | 1.964 | 2.951 | 3.2 | 21.5 |
| 10 28 | 1 55.53 | +13 57.1 | 1.958 | 2.951 | 1.2 | 21.4 |
| 11 7 | 1 46.68 | +13 15.0 | 1.983 | 2.950 | 5.1 | 21.7 |
| 11 17 | 1 39.06 | +12 36.4 | 2.035 | 2.949 | 8.9 | 21.9 |
| 11 27 | 1 33.36 | +12 6.0 | 2.113 | 2.947 | 12.1 | 22.1 |

**210662** 2000 $QU_{31}$ 10 24.9 35°.07 3°.3/26.5 17 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 30.02 | +16 53.6 | 0.934 | 1.789 | 23.6 | 18.6 |
| 9 28 | 2 25.74 | +17 45.8 | 0.893 | 1.808 | 18.5 | 18.4 |
| 10 8 | 2 17.55 | +18 19.4 | 0.869 | 1.828 | 12.7 | 18.2 |
| 10 18 | 2 6.61 | +18 33.0 | 0.865 | 1.850 | 6.6 | 17.9 |
| 10 28 | 1 54.81 | +18 29.0 | 0.883 | 1.873 | 3.4 | 17.8 |
| 11 7 | 1 44.23 | +18 14.2 | 0.924 | 1.897 | 8.1 | 18.2 |
| 11 17 | 1 36.47 | +17 57.2 | 0.987 | 1.922 | 13.4 | 18.6 |
| 11 27 | 1 32.44 | +17 46.4 | 1.071 | 1.948 | 18.0 | 18.9 |

**281221** 2007 $HQ_{54}$ 10 24.9 233°.44 1°.8/23.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.62 | + 9 42.0 | 1.815 | 2.647 | 14.8 | 21.7 |
| 9 28 | 2 20.90 | + 9 9.8 | 1.731 | 2.639 | 11.4 | 21.5 |
| 10 8 | 2 13.83 | + 8 28.6 | 1.668 | 2.630 | 7.4 | 21.2 |
| 10 18 | 2 5.01 | + 7 42.1 | 1.632 | 2.621 | 3.2 | 21.0 |
| 10 28 | 1 55.42 | + 6 55.6 | 1.623 | 2.612 | 2.7 | 20.9 |
| 11 7 | 1 46.18 | + 6 15.1 | 1.643 | 2.602 | 6.9 | 21.2 |
| 11 17 | 1 38.31 | + 5 45.9 | 1.689 | 2.592 | 11.1 | 21.4 |
| 11 27 | 1 32.64 | + 5 31.7 | 1.759 | 2.582 | 14.7 | 21.6 |

**52683** 1998 $DF_{35}$ 10 24.9 214°.90 0°.1/25.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.61 | +14 24.9 | 1.762 | 2.581 | 15.7 | 19.8 |
| 9 28 | 2 22.56 | +14 4.7 | 1.676 | 2.575 | 12.2 | 19.6 |
| 10 8 | 2 14.98 | +13 31.9 | 1.611 | 2.568 | 8.1 | 19.4 |
| 10 18 | 2 5.52 | +12 48.4 | 1.572 | 2.561 | 3.4 | 19.1 |
| 10 28 | 1 55.20 | +11 58.8 | 1.561 | 2.553 | 1.5 | 18.9 |
| 11 7 | 1 45.26 | +11 9.3 | 1.578 | 2.544 | 6.3 | 19.2 |
| 11 17 | 1 36.80 | +10 26.3 | 1.622 | 2.535 | 10.8 | 19.4 |
| 11 27 | 1 30.71 | + 9 55.4 | 1.690 | 2.525 | 14.6 | 19.7 |

**17303** 4629 $P$–$L$ 10 24.9 26°.44 3°.2/22.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 23.12 | + 9 33.8 | 1.249 | 2.109 | 18.4 | 18.7 |
| 9 28 | 2 19.69 | + 8 27.9 | 1.188 | 2.112 | 14.1 | 18.4 |
| 10 8 | 2 13.32 | + 7 8.6 | 1.146 | 2.114 | 9.1 | 18.1 |
| 10 18 | 2 4.83 | + 5 43.3 | 1.128 | 2.117 | 4.2 | 17.9 |
| 10 28 | 1 55.54 | + 4 22.2 | 1.134 | 2.121 | 4.4 | 17.9 |
| 11 7 | 1 46.92 | + 3 15.5 | 1.166 | 2.124 | 9.2 | 18.2 |
| 11 17 | 1 40.22 | + 2 30.4 | 1.221 | 2.128 | 14.0 | 18.5 |
| 11 27 | 1 36.30 | + 2 10.6 | 1.297 | 2.133 | 18.2 | 18.7 |

**482729** 2013 $EG_{79}$ 10 24.9 321°.23 5°.5/27.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 9 18 | 2 27.04 | +21 53.3 | 1.508 | 2.316 | 18.4 | 21.3 |
| 9 28 | 2 23.14 | +23 1.6 | 1.409 | 2.292 | 15.2 | 21.0 |
| 10 8 | 2 16.04 | +23 57.3 | 1.330 | 2.268 | 11.4 | 20.7 |
| 10 18 | 2 6.22 | +24 36.2 | 1.273 | 2.245 | 7.5 | 20.4 |
| 10 28 | 1 54.82 | +24 55.9 | 1.242 | 2.222 | 5.5 | 20.2 |
| 11 7 | 1 43.40 | +24 57.4 | 1.236 | 2.201 | 7.8 | 20.3 |
| 11 17 | 1 33.59 | +24 46.0 | 1.255 | 2.180 | 12.1 | 20.5 |
| 11 27 | 1 26.73 | +24 29.7 | 1.296 | 2.160 | 16.4 | 20.7 |

**448972** 2011 $YV_{15}$ 10 24.9 288°.98 1°.5/26.3 15

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 27.30 | +18 12.2 | 2.512 | 3.298 | 12.5 | 22.5 |
| 9 28 | 2 22.00 | +18 6.5 | 2.374 | 3.251 | 10.0 | 22.3 |
| 10 8 | 2 14.58 | +17 49.2 | 2.259 | 3.204 | 7.0 | 22.0 |
| 10 18 | 2 5.41 | +17 20.3 | 2.172 | 3.155 | 3.5 | 21.7 |
| 10 28 | 1 55.21 | +16 41.5 | 2.115 | 3.105 | 1.6 | 21.5 |
| 11 7 | 1 44.88 | +15 56.3 | 2.088 | 3.055 | 5.0 | 21.6 |
| 11 17 | 1 35.39 | +15 9.6 | 2.091 | 3.003 | 8.8 | 21.8 |
| 11 27 | 1 27.60 | +14 26.9 | 2.121 | 2.950 | 12.3 | 21.9 |

**213055** 1999 $AL_{30}$ 10 24.9 15°.89 3°.8/21.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 22.34 | + 4 29.7 | 1.833 | 2.679 | 14.1 | 20.1 |
| 9 28 | 2 18.19 | + 3 38.9 | 1.764 | 2.679 | 10.8 | 19.8 |
| 10 8 | 2 11.93 | + 2 43.6 | 1.717 | 2.680 | 7.1 | 19.6 |
| 10 18 | 2 4.17 | + 1 49.2 | 1.697 | 2.681 | 4.1 | 19.5 |
| 10 28 | 1 55.84 | + 1 1.9 | 1.703 | 2.682 | 4.6 | 19.5 |
| 11 7 | 1 47.93 | + 0 27.4 | 1.738 | 2.683 | 7.9 | 19.7 |
| 11 17 | 1 41.36 | + 0 9.5 | 1.798 | 2.684 | 11.4 | 19.9 |
| 11 27 | 1 36.79 | + 0 9.9 | 1.880 | 2.685 | 14.6 | 20.1 |

**43941** 1996 $YP$ 10 25.0 291°.37 4°.8/28.3 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 25.77 | +24 36.7 | 1.480 | 2.281 | 19.0 | 18.2 |
| 9 28 | 2 21.84 | +24 53.8 | 1.397 | 2.275 | 15.6 | 18.0 |
| 10 8 | 2 14.89 | +24 49.2 | 1.333 | 2.269 | 11.5 | 17.7 |
| 10 18 | 2 5.59 | +24 20.8 | 1.291 | 2.263 | 7.3 | 17.5 |
| 10 28 | 1 55.19 | +23 30.3 | 1.274 | 2.257 | 4.8 | 17.3 |
| 11 7 | 1 45.22 | +22 24.0 | 1.283 | 2.251 | 7.1 | 17.4 |
| 11 17 | 1 37.08 | +21 11.2 | 1.317 | 2.246 | 11.3 | 17.7 |
| 11 27 | 1 31.81 | +20 2.4 | 1.374 | 2.240 | 15.5 | 17.9 |

**123686** 2000 $YA_{97}$ 10 25.0 212°.27 4°.9/19.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.29 | − 3 31.1 | 2.731 | 3.562 | 10.4 | 20.5 |
| 9 28 | 2 16.72 | − 4 27.8 | 2.654 | 3.556 | 8.2 | 20.3 |
| 10 8 | 2 10.67 | − 5 23.3 | 2.603 | 3.550 | 6.1 | 20.2 |
| 10 18 | 2 3.59 | − 6 12.8 | 2.580 | 3.543 | 4.9 | 20.1 |
| 10 28 | 1 56.09 | − 6 51.7 | 2.586 | 3.535 | 5.6 | 20.2 |
| 11 7 | 1 48.85 | − 7 16.5 | 2.621 | 3.527 | 7.5 | 20.3 |
| 11 17 | 1 42.48 | − 7 25.2 | 2.682 | 3.519 | 9.8 | 20.4 |
| 11 27 | 1 37.50 | − 7 17.3 | 2.766 | 3.510 | 11.9 | 20.6 |

**100758** 1998 $FH_{7}$ 10 25.0 123°.37 2°.1/26.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 30.18 | +18 27.8 | 1.630 | 2.438 | 17.2 | 19.7 |
| 9 28 | 2 24.58 | +18 33.6 | 1.561 | 2.449 | 13.6 | 19.5 |
| 10 8 | 2 16.28 | +18 24.2 | 1.512 | 2.461 | 9.3 | 19.3 |
| 10 18 | 2 6.04 | +18 0.0 | 1.488 | 2.472 | 4.7 | 19.0 |
| 10 28 | 1 55.07 | +17 24.1 | 1.492 | 2.482 | 2.2 | 18.9 |
| 11 7 | 1 44.71 | +16 42.3 | 1.523 | 2.493 | 6.1 | 19.2 |
| 11 17 | 1 36.13 | +16 1.4 | 1.582 | 2.502 | 10.4 | 19.5 |
| 11 27 | 1 30.16 | +15 28.0 | 1.664 | 2.511 | 14.2 | 19.7 |

**324876** 2007 $TK_{318}$ 10 25.0 355°.69 0°.4/24.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 16.73 | +15 21.5 | 0.950 | 1.826 | 21.5 | 20.6 |
| 9 28 | 2 15.70 | +14 43.6 | 0.889 | 1.820 | 16.8 | 20.3 |
| 10 8 | 2 11.22 | +13 42.3 | 0.845 | 1.815 | 11.0 | 20.0 |
| 10 18 | 2 4.11 | +12 22.5 | 0.821 | 1.812 | 4.6 | 19.7 |
| 10 28 | 1 55.87 | +10 54.4 | 0.818 | 1.811 | 2.2 | 19.5 |
| 11 7 | 1 48.31 | + 9 31.5 | 0.838 | 1.811 | 8.8 | 19.9 |
| 11 17 | 1 42.97 | + 8 25.8 | 0.879 | 1.813 | 14.8 | 20.2 |
| 11 27 | 1 40.89 | + 7 45.3 | 0.938 | 1.816 | 19.9 | 20.6 |

**483907** 2006 $AE_{85}$ 10 25.0 197°.61 5°.8/18.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 21.97 | − 8 56.8 | 2.900 | 3.724 | 10.0 | 21.6 |
| 9 28 | 2 17.12 | − 9 49.7 | 2.832 | 3.721 | 8.2 | 21.5 |
| 10 8 | 2 10.87 | −10 37.8 | 2.789 | 3.718 | 6.5 | 21.4 |
| 10 18 | 2 3.66 | −11 16.6 | 2.773 | 3.714 | 5.8 | 21.3 |
| 10 28 | 1 56.09 | −11 42.0 | 2.786 | 3.710 | 6.5 | 21.4 |
| 11 7 | 1 48.78 | −11 51.2 | 2.826 | 3.705 | 8.1 | 21.5 |
| 11 17 | 1 42.34 | −11 43.3 | 2.893 | 3.700 | 10.0 | 21.6 |
| 11 27 | 1 37.24 | −11 18.6 | 2.982 | 3.695 | 11.8 | 21.7 |

**232614** 2003 $UD_{122}$ 10 25.0 33°.27 8°.2/31.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 18 | 2 28.47 | +34 21.4 | 2.048 | 2.770 | 16.9 | 20.2 |
| 9 28 | 2 23.35 | +35 34.6 | 1.972 | 2.779 | 14.6 | 20.0 |
| 10 8 | 2 15.59 | +36 28.0 | 1.915 | 2.788 | 12.1 | 19.9 |
| 10 18 | 2 5.83 | +36 57.1 | 1.880 | 2.797 | 9.8 | 19.7 |
| 10 28 | 1 55.12 | +36 59.9 | 1.871 | 2.807 | 8.3 | 19.7 |
| 11 7 | 1 44.79 | +36 38.4 | 1.887 | 2.817 | 8.5 | 19.7 |
| 11 17 | 1 36.01 | +35 57.8 | 1.930 | 2.828 | 10.1 | 19.8 |
| 11 27 | 1 29.71 | +35 6.6 | 1.996 | 2.839 | 12.4 | 20.0 |