**506348** 2017 $OK_{52}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 6 14.13 | +28 49.5 | 1.896 | 2.095 | 28.6 | 21.5 | 87 W | 71* | 34* |
| 10 3 | 6 25.93 | +29 5.4 | 1.812 | 2.130 | 28.0 | 21.4 | 94 W | 74* | 35* |
| 10 13 | 6 34.94 | +29 21.7 | 1.727 | 2.165 | 26.8 | 21.3 | 102 W | 74 | 35* |
| 10 23 | 6 40.72 | +29 39.9 | 1.644 | 2.199 | 25.1 | 21.1 | 110 W | 75 | 34 |
| 11 2 | 6 42.88 | +30 1.1 | 1.566 | 2.233 | 22.7 | 21.0 | 120 W | 75 | 34 |
| 11 12 | 6 41.04 | +30 24.3 | 1.498 | 2.267 | 19.5 | 20.8 | 130 W | 75 | 34 |
| 11 22 | 6 35.15 | +30 47.2 | 1.445 | 2.301 | 15.6 | 20.7 | 141 W | 76 | 33 |
| 12 2 | 6 25.57 | +31 5.1 | 1.411 | 2.334 | 11.0 | 20.5 | 153 W | 76 | 33 |
| 12 7 | 6 19.68 | +31 10.6 | 1.403 | 2.350 | 8.6 | 20.4 | 159 W | 76 | 33 |
| 12 12 | 6 13.28 | +31 13.0 | 1.402 | 2.366 | 6.2 | 20.3 | 165 W | 76 | 33 |
| 12 17 | 6 6.59 | +31 11.9 | 1.407 | 2.382 | 4.2 | 20.2 | 170 W | 76 | 33 |
| 12 22 | 5 59.85 | +31 7.3 | 1.419 | 2.398 | 3.1 | 20.2 | 172 E | 76 | 33 |
| 12 27 | 5 53.27 | +30 59.3 | 1.439 | 2.413 | 4.1 | 20.3 | 170 E | 76 | 33 |
| 1 1 | 5 47.06 | +30 48.1 | 1.466 | 2.429 | 6.0 | 20.4 | 165 E | 76 | 33 |
| 1 6 | 5 41.42 | +30 34.5 | 1.499 | 2.444 | 8.1 | 20.6 | 159 E | 76 | 33 |
| 1 11 | 5 36.49 | +30 19.0 | 1.539 | 2.459 | 10.2 | 20.7 | 154 E | 75 | 34 |
| 1 16 | 5 32.38 | +30 2.4 | 1.586 | 2.474 | 12.2 | 20.9 | 148 E | 75 | 34 |
| 1 21 | 5 29.15 | +29 45.3 | 1.637 | 2.489 | 14.0 | 21.1 | 142 E | 75 | 34 |

**425537** 2010 $PE_{45}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 6 26.09 | +29 0.5 | 2.036 | 2.177 | 27.3 | 21.5 | 84 W | 70* | 34* |
| 10 3 | 6 37.94 | +29 5.8 | 1.948 | 2.212 | 26.9 | 21.4 | 91 W | 74* | 34* |
| 10 13 | 6 47.17 | +29 11.4 | 1.859 | 2.246 | 26.0 | 21.3 | 99 W | 74 | 35* |
| 10 23 | 6 53.39 | +29 19.0 | 1.771 | 2.280 | 24.6 | 21.2 | 108 W | 74 | 35 |
| 11 2 | 6 56.21 | +29 29.7 | 1.687 | 2.313 | 22.5 | 21.0 | 117 W | 74 | 35 |
| 11 12 | 6 55.29 | +29 43.3 | 1.612 | 2.346 | 19.7 | 20.9 | 127 W | 75 | 34 |
| 11 22 | 6 50.51 | +29 58.0 | 1.551 | 2.379 | 16.1 | 20.7 | 138 W | 75 | 34 |
| 12 2 | 6 42.08 | +30 10.2 | 1.508 | 2.411 | 11.9 | 20.5 | 150 W | 75 | 34 |
| 12 12 | 6 30.74 | +30 15.4 | 1.488 | 2.443 | 7.2 | 20.3 | 162 W | 75 | 34 |
| 12 17 | 6 24.39 | +30 14.1 | 1.488 | 2.458 | 4.9 | 20.2 | 168 W | 75 | 34 |
| 12 22 | 6 17.84 | +30 9.8 | 1.496 | 2.474 | 3.1 | 20.2 | 172 W | 75 | 34 |
| 12 27 | 6 11.31 | +30 2.5 | 1.510 | 2.489 | 2.8 | 20.2 | 173 E | 75 | 34 |
| 1 1 | 6 5.01 | +29 52.4 | 1.532 | 2.504 | 4.4 | 20.3 | 169 E | 75 | 34 |
| 1 6 | 5 59.12 | +29 39.7 | 1.561 | 2.519 | 6.4 | 20.5 | 163 E | 75 | 34 |
| 1 11 | 5 53.82 | +29 25.1 | 1.597 | 2.534 | 8.6 | 20.6 | 157 E | 74 | 35 |
| 1 16 | 5 49.23 | +29 9.2 | 1.640 | 2.548 | 10.6 | 20.8 | 152 E | 74 | 35 |
| 1 21 | 5 45.43 | +28 52.4 | 1.688 | 2.562 | 12.5 | 20.9 | 146 E | 74 | 35 |

**204627** 2005 $WK_{54}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 6 29.92 | +24 29.2 | 2.112 | 2.226 | 26.6 | 21.5 | 83 W | 66* | 38* |
| 10 3 | 6 40.61 | +24 15.1 | 2.018 | 2.260 | 26.3 | 21.4 | 90 W | 69* | 39* |
| 10 13 | 6 48.79 | +24 0.5 | 1.922 | 2.292 | 25.5 | 21.3 | 98 W | 69 | 40* |
| 10 23 | 6 54.12 | +23 47.3 | 1.828 | 2.324 | 24.1 | 21.2 | 107 W | 69 | 40 |
| 11 2 | 6 56.24 | +23 36.9 | 1.737 | 2.355 | 22.1 | 21.0 | 117 W | 69 | 40 |
| 11 12 | 6 54.84 | +23 29.8 | 1.655 | 2.385 | 19.4 | 20.9 | 127 W | 68 | 41 |
| 11 22 | 6 49.82 | +23 26.0 | 1.587 | 2.414 | 15.8 | 20.7 | 138 W | 68 | 41 |
| 12 2 | 6 41.37 | +23 23.9 | 1.537 | 2.443 | 11.6 | 20.5 | 150 W | 68 | 41 |
| 12 7 | 6 36.05 | +23 22.7 | 1.521 | 2.456 | 9.2 | 20.4 | 157 W | 68 | 41 |
| 12 12 | 6 30.17 | +23 21.2 | 1.512 | 2.470 | 6.7 | 20.3 | 163 W | 68 | 41 |
| 12 17 | 6 23.91 | +23 19.0 | 1.509 | 2.483 | 4.2 | 20.1 | 169 W | 68 | 41 |
| 12 22 | 6 17.45 | +23 16.0 | 1.514 | 2.496 | 1.6 | 20.0 | 176 W | 68 | 41 |
| 12 27 | 6 10.98 | +23 12.1 | 1.526 | 2.509 | 1.0 | 20.0 | 177 E | 68 | 41 |
| 1 1 | 6 4.71 | +23 7.3 | 1.546 | 2.522 | 3.6 | 20.2 | 171 E | 68 | 41 |
| 1 6 | 5 58.80 | +23 1.9 | 1.573 | 2.534 | 6.0 | 20.4 | 164 E | 68 | 41 |
| 1 11 | 5 53.43 | +22 56.1 | 1.607 | 2.546 | 8.3 | 20.5 | 158 E | 68 | 41 |
| 1 16 | 5 48.73 | +22 50.1 | 1.648 | 2.558 | 10.4 | 20.7 | 152 E | 68 | 41 |
| 1 21 | 5 44.77 | +22 44.3 | 1.694 | 2.569 | 12.4 | 20.8 | 146 E | 68 | 41 |

**415135** 2012 $DO_{54}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 6 30.46 | +10 59.3 | 1.264 | 1.507 | 41.3 | 21.4 | 82 W | 53* | 50* |
| 10 3 | 6 55.67 | + 9 33.7 | 1.204 | 1.507 | 41.5 | 21.3 | 86 W | 54* | 52* |
| 10 13 | 7 18.99 | + 7 57.6 | 1.147 | 1.513 | 41.3 | 21.2 | 89 W | 53* | 54* |
| 10 23 | 7 40.08 | + 6 16.1 | 1.091 | 1.522 | 40.7 | 21.1 | 94 W | 51 | 56* |
| 11 2 | 7 58.60 | + 4 34.3 | 1.037 | 1.536 | 39.7 | 21.0 | 98 W | 50 | 59* |
| 11 12 | 8 14.12 | + 2 58.3 | 0.984 | 1.553 | 38.2 | 20.9 | 104 W | 48 | 61* |
| 11 22 | 8 26.25 | + 1 34.9 | 0.933 | 1.574 | 36.1 | 20.7 | 110 W | 47 | 62 |
| 12 2 | 8 34.55 | + 0 31.4 | 0.885 | 1.599 | 33.2 | 20.5 | 117 W | 46 | 63 |
| 12 12 | 8 38.61 | − 0 4.0 | 0.842 | 1.626 | 29.5 | 20.4 | 126 W | 45 | 64 |
| 12 17 | 8 39.00 | − 0 8.6 | 0.824 | 1.641 | 27.3 | 20.3 | 130 W | 45 | 64 |
| 12 22 | 8 38.30 | − 0 3.2 | 0.808 | 1.657 | 24.8 | 20.2 | 135 W | 45 | 64 |
| 12 27 | 8 36.57 | + 0 12.7 | 0.795 | 1.673 | 22.2 | 20.1 | 140 W | 45 | 64 |
| 1 1 | 8 33.87 | + 0 39.5 | 0.785 | 1.689 | 19.4 | 20.0 | 145 W | 46 | 63 |
| 1 6 | 8 30.34 | + 1 17.3 | 0.780 | 1.706 | 16.5 | 19.9 | 151 W | 46 | 63 |
| 1 11 | 8 26.19 | + 2 5.3 | 0.779 | 1.723 | 13.6 | 19.8 | 156 W | 47 | 62 |
| 1 16 | 8 21.64 | + 3 2.3 | 0.783 | 1.741 | 10.9 | 19.8 | 160 W | 48 | 61 |
| 1 21 | 8 16.93 | + 4 6.6 | 0.793 | 1.760 | 8.9 | 19.7 | 164 W | 49 | 60 |

**434242** 2003 $UA_{20}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 6 59.75 | +11 7.1 | 1.205 | 1.358 | 45.6 | 21.4 | 75 W | 51* | 47* |
| 10 3 | 7 26.66 | + 5 49.7 | 1.137 | 1.346 | 46.6 | 21.3 | 78 W | 48* | 52* |
| 10 13 | 7 52.57 | − 0 5.3 | 1.078 | 1.336 | 47.4 | 21.2 | 80 W | 44* | 57* |
| 10 23 | 8 17.46 | − 6 30.2 | 1.028 | 1.327 | 47.9 | 21.1 | 82 W | 38* | 63* |
| 11 2 | 8 41.38 | −13 15.0 | 0.988 | 1.320 | 48.3 | 21.0 | 84 W | 32 | 69* |
| 11 12 | 9 4.29 | −20 7.2 | 0.957 | 1.314 | 48.6 | 20.9 | 85 W | 25 | 75* |
| 11 22 | 9 26.24 | −26 53.8 | 0.934 | 1.311 | 48.7 | 20.9 | 86 W | 18 | 79* |
| 12 2 | 9 47.19 | −33 23.6 | 0.916 | 1.309 | 48.8 | 20.8 | 87 W | 12 | 80* |
| 12 12 | 10 7.01 | −39 27.2 | 0.901 | 1.309 | 48.7 | 20.8 | 88 W | 6 | 76* |
| 12 22 | 10 25.55 | −44 57.8 | 0.887 | 1.311 | 48.6 | 20.7 | 89 W | — | 71 |
| 1 1 | 10 42.51 | −49 51.8 | 0.871 | 1.315 | 48.4 | 20.7 | 90 W | — | 66 |
| 1 11 | 10 57.34 | −54 5.9 | 0.851 | 1.320 | 48.1 | 20.7 | 92 W | — | 62 |
| 1 21 | 11 9.39 | −57 37.0 | 0.826 | 1.328 | 47.7 | 20.6 | 94 W | — | 58 |

**162903** 2001 $JV_{2}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 7 20.52 | − 1 22.8 | 1.150 | 1.238 | 49.5 | 21.4 | 70 W | 37* | 54* |
| 9 28 | 7 37.35 | − 5 11.7 | 1.118 | 1.219 | 50.5 | 21.3 | 70 W | 34* | 56* |
| 10 3 | 7 54.67 | − 9 11.2 | 1.092 | 1.201 | 51.5 | 21.3 | 70 W | 32* | 58* |
| 10 8 | 8 12.51 | −13 17.9 | 1.071 | 1.183 | 52.3 | 21.2 | 70 W | 28* | 60* |
| 10 13 | 8 30.96 | −17 27.7 | 1.057 | 1.165 | 53.1 | 21.2 | 69 W | 25* | 61* |
| 10 18 | 8 50.08 | −21 35.9 | 1.048 | 1.147 | 53.8 | 21.2 | 68 W | 21* | 61* |
| 10 23 | 9 9.95 | −25 37.8 | 1.046 | 1.130 | 54.3 | 21.1 | 67 W | 18* | 61* |
| 10 28 | 9 30.62 | −29 28.9 | 1.049 | 1.113 | 54.6 | 21.1 | 66 W | 14* | 60* |
| 11 2 | 9 52.14 | −33 5.3 | 1.056 | 1.097 | 54.9 | 21.1 | 65 W | 11* | 59* |
| 11 7 | 10 14.53 | −36 23.4 | 1.068 | 1.082 | 54.9 | 21.1 | 63 W | 8* | 57* |
| 11 12 | 10 37.77 | −39 20.6 | 1.082 | 1.067 | 54.9 | 21.1 | 62 W | 5* | 55* |
| 11 17 | 11 1.83 | −41 55.0 | 1.098 | 1.054 | 54.7 | 21.1 | 60 W | 2* | 54* |
| 11 22 | 11 26.63 | −44 5.5 | 1.116 | 1.041 | 54.4 | 21.1 | 59 W | — | 52* |
| 11 27 | 11 52.02 | −45 51.6 | 1.134 | 1.030 | 54.0 | 21.1 | 58 W | — | 50* |
| 12 2 | 12 17.81 | −47 13.6 | 1.152 | 1.020 | 53.6 | 21.1 | 56 W | — | 49* |
| 12 7 | 12 43.79 | −48 11.7 | 1.169 | 1.012 | 53.1 | 21.1 | 55 W | — | 48* |
| 12 12 | 13 9.70 | −48 46.7 | 1.183 | 1.005 | 52.7 | 21.1 | 54 W | — | 47* |
| 12 17 | 13 35.30 | −48 59.5 | 1.196 | 1.000 | 52.3 | 21.1 | 54 W | — | 46* |
| 12 22 | 14 0.40 | −48 51.5 | 1.205 | 0.997 | 52.0 | 21.1 | 53 W | — | 45* |
| 12 27 | 14 24.81 | −48 23.9 | 1.212 | 0.995 | 51.8 | 21.1 | 53 W | — | 45* |
| 1 1 | 14 48.39 | −47 38.1 | 1.215 | 0.995 | 51.7 | 21.1 | 53 W | — | 45* |
| 1 6 | 15 11.03 | −46 35.0 | 1.215 | 0.997 | 51.6 | 21.1 | 53 W | — | 45* |
| 1 11 | 15 32.69 | −45 15.8 | 1.212 | 1.001 | 51.7 | 21.1 | 53 W | — | 46* |
| 1 16 | 15 53.36 | −43 41.1 | 1.205 | 1.006 | 51.9 | 21.1 | 54 W | — | 47* |
| 1 21 | 16 13.05 | −41 51.9 | 1.196 | 1.013 | 52.1 | 21.1 | 54 W | 2* | 48* |

**431321** 2006 $WL_{130}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 7 21.34 | +21 48.7 | 2.168 | 2.073 | 27.3 | 21.4 | 71 W | 57* | 35* |
| 10 3 | 7 41.32 | +22 10.3 | 2.025 | 2.037 | 28.5 | 21.2 | 76 W | 61* | 36* |
| 10 13 | 8 1.17 | +22 33.5 | 1.882 | 2.001 | 29.6 | 21.1 | 82 W | 65* | 37* |
| 10 23 | 8 20.80 | +23 1.2 | 1.740 | 1.965 | 30.4 | 20.9 | 87 W | 68* | 37* |
| 11 2 | 8 40.14 | +23 36.8 | 1.601 | 1.930 | 30.9 | 20.7 | 93 W | 69 | 38* |
| 11 12 | 8 59.00 | +24 24.8 | 1.467 | 1.897 | 31.0 | 20.5 | 99 W | 69 | 38* |
| 11 22 | 9 17.24 | +25 30.1 | 1.339 | 1.864 | 30.7 | 20.2 | 105 W | 71 | 38* |
| 12 2 | 9 34.64 | +26 58.1 | 1.218 | 1.832 | 29.9 | 19.9 | 112 W | 72 | 37* |
| 12 12 | 9 50.83 | +28 54.3 | 1.108 | 1.802 | 28.6 | 19.7 | 119 W | 74 | 35 |
| 12 22 | 10 5.41 | +31 22.7 | 1.010 | 1.774 | 26.8 | 19.4 | 126 W | 76 | 33 |
| 12 27 | 10 11.93 | +32 49.5 | 0.967 | 1.761 | 25.7 | 19.2 | 129 W | 78 | 31 |
| 1 1 | 10 17.82 | +34 24.6 | 0.927 | 1.748 | 24.5 | 19.1 | 132 W | 79 | 30 |
| 1 6 | 10 22.97 | +36 7.1 | 0.891 | 1.736 | 23.4 | 19.0 | 136 W | 81 | 28 |
| 1 11 | 10 27.31 | +37 55.6 | 0.860 | 1.724 | 22.2 | 18.8 | 139 W | 83 | 26 |
| 1 16 | 10 30.74 | +39 48.3 | 0.833 | 1.713 | 21.2 | 18.7 | 141 W | 85 | 24 |
| 1 21 | 10 33.19 | +41 42.8 | 0.810 | 1.703 | 20.3 | 18.6 | 143 W | 87 | 22 |

**86534** 2000 $DT_{98}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 7 33.52 | +26 24.4 | 2.825 | 2.638 | 20.8 | 21.5 | 69 W | 58* | 30* |
| 10 3 | 7 45.83 | +26 15.8 | 2.703 | 2.648 | 21.5 | 21.4 | 76 W | 64* | 32* |
| 10 13 | 7 56.65 | +26 9.9 | 2.576 | 2.656 | 21.9 | 21.3 | 84 W | 69* | 34* |
| 10 23 | 8 5.74 | +26 8.6 | 2.447 | 2.664 | 21.9 | 21.2 | 91 W | 71* | 35* |
| 11 2 | 8 12.82 | +26 14.0 | 2.316 | 2.671 | 21.5 | 21.1 | 100 W | 71 | 37* |
| 11 12 | 8 17.54 | +26 27.8 | 2.188 | 2.676 | 20.5 | 21.0 | 109 W | 71 | 37* |
| 11 22 | 8 19.56 | +26 51.4 | 2.066 | 2.681 | 18.9 | 20.8 | 118 W | 72 | 37 |
| 12 2 | 8 18.55 | +27 25.0 | 1.955 | 2.685 | 16.7 | 20.6 | 129 W | 72 | 37 |
| 12 12 | 8 14.28 | +28 7.1 | 1.860 | 2.687 | 13.7 | 20.4 | 140 W | 73 | 36 |
| 12 22 | 8 6.80 | +28 54.2 | 1.785 | 2.689 | 10.2 | 20.2 | 151 W | 74 | 35 |
| 12 27 | 8 1.98 | +29 18.0 | 1.757 | 2.690 | 8.2 | 20.0 | 157 W | 74 | 35 |
| 1 1 | 7 56.55 | +29 40.8 | 1.735 | 2.690 | 6.3 | 19.9 | 163 W | 75 | 34 |
| 1 6 | 7 50.64 | +30 1.8 | 1.721 | 2.690 | 4.5 | 19.8 | 168 W | 75 | 34 |
| 1 11 | 7 44.42 | +30 20.3 | 1.714 | 2.690 | 3.3 | 19.7 | 171 W | 75 | 34 |
| 1 16 | 7 38.08 | +30 35.5 | 1.715 | 2.689 | 3.6 | 19.8 | 170 E | 76 | 33 |
| 1 21 | 7 31.79 | +30 47.2 | 1.723 | 2.688 | 5.1 | 19.9 | 166 E | 76 | 33 |

**328078** 2007 $XR_{31}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 8 12.28 | +16 19.0 | 1.876 | 1.596 | 32.3 | 21.4 | 58 W | 45* | 33* |
| 10 3 | 8 39.57 | +14 54.5 | 1.807 | 1.592 | 33.5 | 21.4 | 61 W | 48* | 34* |
| 10 13 | 9 6.01 | +13 19.8 | 1.740 | 1.592 | 34.5 | 21.3 | 65 W | 50* | 35* |
| 10 23 | 9 31.46 | +11 38.2 | 1.672 | 1.595 | 35.4 | 21.3 | 68 W | 51* | 37* |
| 11 2 | 9 55.83 | + 9 52.9 | 1.604 | 1.602 | 36.1 | 21.2 | 72 W | 52* | 40* |
| 11 12 | 10 18.97 | + 8 7.7 | 1.536 | 1.612 | 36.6 | 21.2 | 76 W | 52* | 43* |
| 11 22 | 10 40.73 | + 6 26.4 | 1.467 | 1.625 | 36.8 | 21.1 | 80 W | 51* | 46* |
| 12 2 | 11 0.96 | + 4 52.5 | 1.398 | 1.642 | 36.8 | 21.0 | 85 W | 50 | 50* |
| 12 12 | 11 19.40 | + 3 30.2 | 1.328 | 1.661 | 36.4 | 20.9 | 91 W | 49 | 55* |
| 12 22 | 11 35.79 | + 2 23.2 | 1.258 | 1.683 | 35.5 | 20.8 | 97 W | 47 | 59* |
| 1 1 | 11 49.78 | + 1 35.4 | 1.189 | 1.708 | 34.1 | 20.7 | 103 W | 47 | 62* |
| 1 11 | 12 0.92 | + 1 10.8 | 1.123 | 1.734 | 32.0 | 20.5 | 111 W | 46 | 63 |
| 1 21 | 12 8.78 | + 1 12.5 | 1.061 | 1.763 | 29.2 | 20.3 | 119 W | 46 | 63 |

**2340** Hathor

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 8 49.29 | +24 52.4 | 0.244 | 0.876 | 115.0 | 21.3 | 52 W | 45* | 20* |
| 9 28 | 8 28.61 | +24 49.9 | 0.230 | 0.915 | 105.7 | 20.7 | 62 W | 52* | 26* |
| 10 3 | 8 7.75 | +24 26.0 | 0.217 | 0.952 | 96.7 | 20.2 | 71 W | 60* | 31* |
| 10 8 | 7 45.74 | +23 42.6 | 0.204 | 0.987 | 87.7 | 19.8 | 81 W | 65* | 36* |
| 10 13 | 7 21.40 | +22 38.5 | 0.191 | 1.019 | 78.3 | 19.4 | 91 W | 67* | 40* |
| 10 18 | 6 53.60 | +21 10.0 | 0.179 | 1.049 | 68.3 | 19.0 | 102 W | 66 | 43* |
| 10 23 | 6 21.47 | +19 11.1 | 0.169 | 1.076 | 57.4 | 18.6 | 114 W | 64 | 45 |
| 10 28 | 5 44.93 | +16 36.8 | 0.163 | 1.101 | 45.5 | 18.2 | 128 W | 62 | 47 |
| 11 2 | 5 5.21 | +13 29.8 | 0.161 | 1.123 | 33.0 | 17.9 | 142 W | 58 | 51 |
| 11 4 | 4 49.02 | +12 8.9 | 0.162 | 1.132 | 28.0 | 17.8 | 148 W | 57 | 52 |
| 11 6 | 4 32.99 | +10 46.7 | 0.164 | 1.140 | 23.2 | 17.7 | 153 W | 56 | 53 |
| 11 8 | 4 17.34 | + 9 25.0 | 0.167 | 1.147 | 18.8 | 17.6 | 158 W | 54 | 55 |
| 11 10 | 4 2.28 | + 8 5.6 | 0.171 | 1.155 | 15.0 | 17.5 | 162 W | 53 | 56 |
| 11 12 | 3 47.98 | + 6 50.0 | 0.176 | 1.161 | 12.3 | 17.5 | 166 W | 52 | 57 |
| 11 14 | 3 34.57 | + 5 39.5 | 0.183 | 1.168 | 11.2 | 17.5 | 167 W | 51 | 58 |
| 11 16 | 3 22.14 | + 4 34.9 | 0.190 | 1.174 | 11.8 | 17.7 | 166 E | 50 | 59 |
| 11 18 | 3 10.72 | + 3 36.6 | 0.198 | 1.180 | 13.7 | 17.8 | 164 E | 49 | 60 |
| 11 20 | 3 0.33 | + 2 44.9 | 0.207 | 1.185 | 16.2 | 18.0 | 160 E | 48 | 61 |
| 11 22 | 2 50.93 | + 1 59.8 | 0.217 | 1.190 | 19.0 | 18.2 | 157 E | 47 | 62 |
| 11 27 | 2 31.55 | + 0 33.4 | 0.244 | 1.201 | 25.6 | 18.7 | 148 E | 46 | 63 |
| 12 2 | 2 17.35 | − 0 20.2 | 0.275 | 1.210 | 31.4 | 19.1 | 140 E | 45 | 64 |
| 12 7 | 2 7.41 | − 0 47.9 | 0.308 | 1.217 | 36.2 | 19.5 | 133 E | 44 | 65 |
| 12 12 | 2 0.93 | − 0 55.9 | 0.342 | 1.221 | 40.2 | 19.9 | 127 E | 44 | 65 |
| 12 17 | 1 57.18 | − 0 49.0 | 0.377 | 1.223 | 43.5 | 20.2 | 121 E | 44 | 65 |
| 12 22 | 1 55.59 | − 0 31.2 | 0.413 | 1.223 | 46.3 | 20.5 | 116 E | 44 | 65 |
| 12 27 | 1 55.75 | − 0 5.0 | 0.449 | 1.221 | 48.7 | 20.7 | 111 E | 45 | 64 |
| 1 1 | 1 57.32 | + 0 27.6 | 0.484 | 1.216 | 50.7 | 20.9 | 107 E | 45 | 64* |
| 1 6 | 2 0.09 | + 1 5.1 | 0.519 | 1.209 | 52.5 | 21.1 | 103 E | 46 | 62* |
| 1 11 | 2 3.85 | + 1 46.5 | 0.552 | 1.200 | 54.1 | 21.3 | 99 E | 47 | 61* |
| 1 16 | 2 8.43 | + 2 30.6 | 0.584 | 1.189 | 55.5 | 21.4 | 95 E | 48 | 59* |

**537829** 2015 $XY_{378}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 8 56.66 | +28 18.6 | 0.610 | 0.791 | 90.5 | 21.3 | 52 W | 45* | 17* |
| 9 28 | 9 3.65 | +29 42.3 | 0.621 | 0.833 | 85.8 | 21.3 | 56 W | 50* | 17* |
| 10 3 | 9 12.38 | +30 51.0 | 0.628 | 0.871 | 82.0 | 21.3 | 60 W | 53* | 17* |
| 10 8 | 9 22.42 | +31 48.2 | 0.630 | 0.905 | 79.0 | 21.2 | 63 W | 57* | 17* |
| 10 13 | 9 33.49 | +32 36.5 | 0.629 | 0.936 | 76.4 | 21.2 | 66 W | 60* | 17* |
| 10 18 | 9 45.41 | +33 17.5 | 0.624 | 0.963 | 74.3 | 21.2 | 69 W | 62* | 17* |
| 10 23 | 9 58.08 | +33 52.8 | 0.616 | 0.986 | 72.6 | 21.2 | 71 W | 65* | 17* |
| 10 28 | 10 11.43 | +34 23.5 | 0.604 | 1.007 | 71.3 | 21.1 | 74 W | 67* | 17* |
| 11 2 | 10 25.44 | +34 50.4 | 0.590 | 1.023 | 70.1 | 21.1 | 76 W | 70* | 16* |
| 11 7 | 10 40.10 | +35 14.4 | 0.572 | 1.037 | 69.3 | 21.0 | 78 W | 72* | 16* |
| 11 12 | 10 55.47 | +35 35.7 | 0.553 | 1.047 | 68.7 | 20.9 | 80 W | 74* | 16* |
| 11 17 | 11 11.64 | +35 54.3 | 0.531 | 1.054 | 68.3 | 20.8 | 82 W | 75* | 16* |
| 11 22 | 11 28.76 | +36 9.9 | 0.508 | 1.057 | 68.1 | 20.7 | 83 W | 77* | 16* |
| 11 27 | 11 47.02 | +36 21.8 | 0.483 | 1.057 | 68.3 | 20.6 | 85 W | 78* | 16* |
| 12 2 | 12 6.63 | +36 28.8 | 0.457 | 1.054 | 68.8 | 20.5 | 86 W | 79* | 16* |
| 12 7 | 12 27.87 | +36 28.7 | 0.431 | 1.048 | 69.7 | 20.4 | 86 W | 79* | 16* |
| 12 12 | 12 51.05 | +36 18.1 | 0.404 | 1.039 | 71.0 | 20.3 | 86 W | 79* | 16* |
| 12 17 | 13 16.57 | +35 51.6 | 0.378 | 1.026 | 73.0 | 20.2 | 86 W | 79* | 15* |
| 12 22 | 13 44.84 | +35 1.7 | 0.352 | 1.010 | 75.6 | 20.1 | 84 W | 77* | 15* |
| 12 24 | 13 56.99 | +34 33.0 | 0.342 | 1.003 | 76.9 | 20.1 | 83 W | 76* | 15* |
| 12 26 | 14 9.65 | +33 58.1 | 0.333 | 0.995 | 78.4 | 20.0 | 82 W | 76* | 15* |
| 12 28 | 14 22.82 | +33 16.3 | 0.323 | 0.986 | 80.0 | 20.0 | 81 W | 74* | 15* |
| 12 30 | 14 36.49 | +32 26.7 | 0.315 | 0.977 | 81.9 | 20.0 | 80 W | 73* | 15* |
| 1 1 | 14 50.66 | +31 28.3 | 0.306 | 0.968 | 83.9 | 20.0 | 78 W | 72* | 15* |
| 1 3 | 15 5.29 | +30 20.3 | 0.299 | 0.958 | 86.1 | 20.0 | 76 W | 70* | 15* |
| 1 5 | 15 20.35 | +29 1.7 | 0.292 | 0.947 | 88.4 | 20.0 | 74 W | 68* | 15* |
| 1 7 | 15 35.78 | +27 31.9 | 0.286 | 0.936 | 91.1 | 20.1 | 72 W | 66* | 15* |
| 1 9 | 15 51.51 | +25 50.4 | 0.280 | 0.924 | 93.9 | 20.1 | 70 W | 63* | 15* |
| 1 11 | 16 7.46 | +23 56.9 | 0.276 | 0.912 | 96.9 | 20.2 | 67 W | 60* | 15* |
| 1 13 | 16 23.54 | +21 51.7 | 0.273 | 0.899 | 100.0 | 20.3 | 64 W | 57* | 15* |
| 1 15 | 16 39.66 | +19 35.5 | 0.271 | 0.885 | 103.3 | 20.4 | 61 W | 54* | 15* |
| 1 17 | 16 55.73 | +17 9.6 | 0.271 | 0.871 | 106.8 | 20.5 | 58 W | 51* | 15* |
| 1 19 | 17 11.63 | +14 35.7 | 0.272 | 0.856 | 110.3 | 20.7 | 55 W | 48* | 15* |
| 1 21 | 17 27.30 | +11 55.8 | 0.275 | 0.841 | 113.7 | 20.9 | 51 W | 44* | 15* |

**163023** 2001 $XU_1$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 9 11.35 | − 4 55.7 | 0.601 | 0.690 | 101.8 | 21.1 | 42 W | 19* | 34* |
| 9 28 | 9 5.71 | − 2 45.7 | 0.600 | 0.747 | 95.4 | 21.0 | 48 W | 26* | 37* |
| 10 3 | 9 3.04 | − 0 34.6 | 0.597 | 0.801 | 90.2 | 20.9 | 53 W | 32* | 39* |
| 10 8 | 9 2.49 | + 1 36.5 | 0.590 | 0.852 | 85.7 | 20.8 | 58 W | 37* | 41* |
| 10 13 | 9 3.44 | + 3 48.6 | 0.579 | 0.899 | 81.8 | 20.7 | 63 W | 42* | 42* |
| 10 18 | 9 5.42 | + 6 4.0 | 0.565 | 0.943 | 78.3 | 20.7 | 68 W | 46* | 43* |
| 10 23 | 9 8.06 | + 8 25.8 | 0.547 | 0.983 | 75.2 | 20.6 | 73 W | 51* | 44* |
| 10 28 | 9 11.07 | +10 57.5 | 0.526 | 1.020 | 72.1 | 20.5 | 78 W | 55* | 44* |
| 11 2 | 9 14.17 | +13 43.6 | 0.502 | 1.054 | 69.1 | 20.3 | 83 W | 58* | 43* |
| 11 7 | 9 17.08 | +16 49.4 | 0.476 | 1.084 | 66.0 | 20.2 | 88 W | 62 | 42* |
| 11 12 | 9 19.50 | +20 20.9 | 0.450 | 1.112 | 62.7 | 20.0 | 94 W | 65 | 40* |
| 11 17 | 9 21.12 | +24 24.8 | 0.423 | 1.137 | 59.1 | 19.8 | 99 W | 69 | 38* |
| 11 22 | 9 21.51 | +29 7.7 | 0.396 | 1.158 | 55.3 | 19.6 | 106 W | 74 | 34* |
| 11 27 | 9 20.00 | +34 35.5 | 0.372 | 1.177 | 51.1 | 19.4 | 112 W | 80 | 29* |
| 12 2 | 9 15.59 | +40 51.0 | 0.351 | 1.193 | 46.7 | 19.2 | 118 W | 86 | 23 |
| 12 4 | 9 12.66 | +43 33.8 | 0.344 | 1.199 | 44.9 | 19.1 | 121 W | 89 | 20 |
| 12 6 | 9 8.87 | +46 22.9 | 0.338 | 1.204 | 43.2 | 19.0 | 123 W | 89 | 18 |
| 12 8 | 9 4.01 | +49 16.9 | 0.333 | 1.209 | 41.6 | 18.9 | 125 W | 86 | 15 |
| 12 10 | 8 57.87 | +52 14.4 | 0.329 | 1.213 | 40.1 | 18.9 | 128 W | 83 | 12 |
| 12 12 | 8 50.16 | +55 13.3 | 0.326 | 1.217 | 38.8 | 18.8 | 129 W | 80 | 9 |
| 12 13 | 8 45.59 | +56 42.6 | 0.324 | 1.219 | 38.2 | 18.8 | 130 W | 78 | 7 |
| 12 14 | 8 40.49 | +58 11.2 | 0.324 | 1.221 | 37.7 | 18.8 | 131 W | 77 | 6 |
| 12 15 | 8 34.79 | +59 38.8 | 0.323 | 1.222 | 37.2 | 18.8 | 131 W | 75 | 4 |
| 12 16 | 8 28.42 | +61 5.1 | 0.323 | 1.224 | 36.8 | 18.8 | 132 W | 74 | 3 |
| 12 17 | 8 21.31 | +62 29.4 | 0.323 | 1.225 | 36.5 | 18.8 | 132 W | 73 | 2 |
| 12 18 | 8 13.38 | +63 51.4 | 0.324 | 1.226 | 36.3 | 18.8 | 133 W | 71 | — |
| 12 19 | 8 4.56 | +65 10.5 | 0.324 | 1.227 | 36.1 | 18.8 | 133 W | 70 | — |
| 12 20 | 7 54.75 | +66 26.3 | 0.326 | 1.228 | 36.0 | 18.8 | 133 W | 69 | — |
| 12 21 | 7 43.88 | +67 38.0 | 0.327 | 1.229 | 36.0 | 18.8 | 133 W | 67 | — |
| 12 22 | 7 31.89 | +68 45.1 | 0.329 | 1.230 | 36.1 | 18.8 | 133 W | 66 | — |
| 12 23 | 7 18.71 | +69 47.0 | 0.331 | 1.231 | 36.2 | 18.8 | 132 W | 65 | — |
| 12 24 | 7 4.35 | +70 43.1 | 0.333 | 1.232 | 36.4 | 18.8 | 132 W | 64 | — |
| 12 25 | 6 48.82 | +71 32.8 | 0.335 | 1.232 | 36.7 | 18.9 | 132 W | 63 | — |
| 12 26 | 6 32.20 | +72 15.5 | 0.338 | 1.232 | 37.0 | 18.9 | 131 W | 63 | — |
| 12 27 | 6 14.65 | +72 50.9 | 0.341 | 1.233 | 37.4 | 18.9 | 130 E | 62 | — |
| 12 28 | 5 56.38 | +73 18.5 | 0.345 | 1.233 | 37.8 | 19.0 | 130 E | 62 | — |
| 12 29 | 5 37.67 | +73 38.4 | 0.348 | 1.233 | 38.3 | 19.0 | 129 E | 61 | — |
| 12 30 | 5 18.84 | +73 50.6 | 0.352 | 1.233 | 38.8 | 19.0 | 128 E | 61 | — |
| 12 31 | 5 0.21 | +73 55.3 | 0.356 | 1.233 | 39.3 | 19.1 | 127 E | 61 | — |
| 1 1 | 4 42.10 | +73 53.1 | 0.360 | 1.233 | 39.8 | 19.1 | 127 E | 61 | — |
| 1 2 | 4 24.77 | +73 44.6 | 0.365 | 1.232 | 40.4 | 19.2 | 126 E | 61 | — |
| 1 3 | 4 8.43 | +73 30.5 | 0.369 | 1.232 | 41.0 | 19.2 | 125 E | 61 | — |
| 1 4 | 3 53.20 | +73 11.6 | 0.374 | 1.231 | 41.6 | 19.2 | 124 E | 62 | — |
| 1 5 | 3 39.16 | +72 48.6 | 0.379 | 1.231 | 42.2 | 19.3 | 123 E | 62 | — |
| 1 6 | 3 26.33 | +72 22.4 | 0.384 | 1.230 | 42.9 | 19.3 | 122 E | 63 | — |
| 1 7 | 3 14.67 | +71 53.6 | 0.390 | 1.229 | 43.5 | 19.4 | 121 E | 63 | — |
| 1 8 | 3 4.13 | +71 22.8 | 0.395 | 1.228 | 44.1 | 19.4 | 120 E | 64 | — |
| 1 9 | 2 54.64 | +70 50.5 | 0.401 | 1.227 | 44.7 | 19.5 | 119 E | 64 | — |
| 1 10 | 2 46.11 | +70 17.2 | 0.406 | 1.226 | 45.3 | 19.5 | 118 E | 65 | — |
| 1 11 | 2 38.47 | +69 43.3 | 0.412 | 1.224 | 46.0 | 19.6 | 117 E | 65 | — |
| 1 12 | 2 31.63 | +69 9.1 | 0.418 | 1.223 | 46.6 | 19.6 | 115 E | 66 | — |
| 1 13 | 2 25.51 | +68 34.8 | 0.424 | 1.221 | 47.2 | 19.7 | 114 E | 66 | — |
| 1 14 | 2 20.05 | +68 0.7 | 0.430 | 1.220 | 47.7 | 19.7 | 113 E | 67 | — |
| 1 15 | 2 15.17 | +67 27.0 | 0.436 | 1.218 | 48.3 | 19.7 | 112 E | 68 | — |
| 1 16 | 2 10.82 | +66 53.7 | 0.442 | 1.216 | 48.9 | 19.8 | 111 E | 68 | — |
| 1 17 | 2 6.94 | +66 21.0 | 0.448 | 1.214 | 49.5 | 19.8 | 110 E | 69 | — |
| 1 18 | 2 3.49 | +65 48.9 | 0.454 | 1.212 | 50.0 | 19.9 | 109 E | 69 | — |
| 1 19 | 2 0.43 | +65 17.7 | 0.461 | 1.210 | 50.6 | 19.9 | 108 E | 70 | — |
| 1 20 | 1 57.71 | +64 47.2 | 0.467 | 1.208 | 51.1 | 19.9 | 107 E | 70 | — |
| 1 21 | 1 55.31 | +64 17.5 | 0.473 | 1.205 | 51.6 | 20.0 | 106 E | 71 | — |

**413989** 2007 $EL_{88}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 9 20.40 | + 8 27.3 | 0.490 | 0.707 | 112.6 | 21.0 | 41 W | 28* | 25* |
| 9 25 | 9 15.29 | + 6 6.2 | 0.499 | 0.726 | 108.5 | 20.9 | 43 W | 29* | 28* |
| 9 27 | 9 10.99 | + 3 48.8 | 0.509 | 0.745 | 104.5 | 20.8 | 46 W | 29* | 32* |
| 9 29 | 9 7.41 | + 1 35.7 | 0.519 | 0.765 | 100.8 | 20.7 | 49 W | 30* | 35* |
| 10 1 | 9 4.46 | − 0 32.7 | 0.530 | 0.785 | 97.3 | 20.6 | 51 W | 30* | 38* |
| 10 3 | 9 2.04 | − 2 36.4 | 0.541 | 0.805 | 94.1 | 20.5 | 53 W | 30* | 41* |
| 10 8 | 8 57.83 | − 7 25.5 | 0.568 | 0.854 | 86.8 | 20.5 | 59 W | 29* | 47* |
| 10 13 | 8 55.40 | −11 48.7 | 0.595 | 0.904 | 80.6 | 20.5 | 63 W | 28* | 53* |
| 10 18 | 8 53.99 | −15 49.9 | 0.621 | 0.952 | 75.3 | 20.5 | 68 W | 27* | 58* |
| 10 23 | 8 53.04 | −19 32.9 | 0.645 | 0.999 | 70.8 | 20.5 | 71 W | 24* | 63* |
| 10 28 | 8 52.09 | −23 0.9 | 0.666 | 1.045 | 66.8 | 20.6 | 75 W | 22* | 68* |
| 11 2 | 8 50.79 | −26 16.0 | 0.685 | 1.089 | 63.3 | 20.6 | 79 W | 19 | 72* |
| 11 7 | 8 48.82 | −29 19.4 | 0.702 | 1.132 | 60.1 | 20.7 | 82 W | 16 | 76* |
| 11 12 | 8 45.91 | −32 11.6 | 0.717 | 1.173 | 57.2 | 20.7 | 85 W | 13 | 79* |
| 11 17 | 8 41.86 | −34 52.4 | 0.730 | 1.213 | 54.6 | 20.7 | 88 W | 10 | 80* |
| 11 22 | 8 36.45 | −37 21.0 | 0.741 | 1.250 | 52.1 | 20.8 | 91 W | 8 | 79 |
| 11 27 | 8 29.52 | −39 36.2 | 0.752 | 1.287 | 49.9 | 20.8 | 94 W | 5 | 76 |
| 12 2 | 8 20.93 | −41 36.0 | 0.762 | 1.321 | 47.7 | 20.8 | 97 W | 3 | 74 |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | **413989** 2007 $EL_{88}$ | | | | *(continuation)* | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 12 7 | 8 10.64 | −43 17.7 | 0.771 | 1.354 | 45.7 | 20.8 | 100 W | 2 | 73 |
| 12 12 | 7 58.73 | −44 38.5 | 0.781 | 1.385 | 43.9 | 20.9 | 103 W | — | 71 |
| 12 17 | 7 45.45 | −45 35.7 | 0.791 | 1.415 | 42.1 | 20.9 | 105 W | — | 70 |
| 12 22 | 7 31.17 | −46 7.3 | 0.802 | 1.443 | 40.6 | 20.9 | 107 W | — | 70 |
| 12 27 | 7 16.38 | −46 11.7 | 0.814 | 1.470 | 39.1 | 20.9 | 109 W | — | 70 |
| 1 1 | 7 1.66 | −45 48.6 | 0.827 | 1.495 | 37.9 | 21.0 | 111 W | — | 70 |
| 1 6 | 6 47.59 | −44 58.6 | 0.843 | 1.519 | 36.8 | 21.0 | 112 E | — | 71 |
| 1 11 | 6 34.71 | −43 44.1 | 0.860 | 1.541 | 35.9 | 21.1 | 113 E | 1 | 72 |
| 1 16 | 6 23.38 | −42 8.4 | 0.880 | 1.561 | 35.2 | 21.1 | 114 E | 3 | 74 |
| 1 21 | 6 13.81 | −40 15.2 | 0.902 | 1.581 | 34.7 | 21.2 | 114 E | 5 | 76 |
| | | **310842** 2003 $AK_{18}$ | | | | | | | |
| 9 23 | 9 21.46 | +22 40.0 | 0.735 | 0.705 | 88.3 | 21.4 | 45 W | 37* | 16* |
| 9 28 | 9 29.65 | +21 40.3 | 0.778 | 0.743 | 82.4 | 21.4 | 47 W | 40* | 18* |
| 10 3 | 9 39.08 | +20 31.0 | 0.815 | 0.781 | 77.6 | 21.4 | 50 W | 42* | 20* |
| 10 8 | 9 49.24 | +19 14.9 | 0.846 | 0.819 | 73.7 | 21.5 | 52 W | 44* | 21* |
| 10 13 | 9 59.78 | +17 53.9 | 0.872 | 0.856 | 70.5 | 21.5 | 54 W | 45* | 23* |
| | | **243566** 1995 $SA$ | | | | | | | |
| 9 23 | 9 27.47 | + 3 32.1 | 2.372 | 1.700 | 21.4 | 21.4 | 38 W | 23* | 26* |
| 10 3 | 9 54.28 | + 1 51.4 | 2.231 | 1.611 | 23.9 | 21.2 | 41 W | 26* | 27* |
| 10 13 | 10 23.06 | − 0 1.2 | 2.091 | 1.520 | 26.5 | 21.0 | 43 W | 28* | 28* |
| 10 23 | 10 54.21 | − 2 4.5 | 1.956 | 1.428 | 29.2 | 20.8 | 44 W | 29* | 29* |
| 11 2 | 11 28.25 | − 4 16.5 | 1.830 | 1.337 | 32.0 | 20.6 | 46 W | 30* | 29* |
| 11 12 | 12 5.70 | − 6 33.4 | 1.715 | 1.247 | 34.7 | 20.4 | 46 W | 30* | 29* |
| 11 17 | 12 25.87 | − 7 41.9 | 1.663 | 1.203 | 36.1 | 20.3 | 46 W | 29* | 29* |
| 11 22 | 12 47.05 | − 8 49.0 | 1.616 | 1.160 | 37.3 | 20.2 | 45 W | 29* | 29* |
| 11 27 | 13 9.29 | − 9 53.7 | 1.573 | 1.119 | 38.5 | 20.1 | 45 W | 28* | 29* |
| 12 2 | 13 32.59 | −10 54.5 | 1.537 | 1.079 | 39.6 | 20.0 | 44 W | 27* | 28* |
| 12 7 | 13 56.89 | −11 50.0 | 1.506 | 1.042 | 40.6 | 19.9 | 43 W | 27* | 28* |
| 12 12 | 14 22.13 | −12 38.7 | 1.482 | 1.007 | 41.3 | 19.8 | 42 W | 26* | 27* |
| 12 17 | 14 48.17 | −13 19.2 | 1.465 | 0.975 | 41.8 | 19.7 | 41 W | 25* | 26* |
| 12 22 | 15 14.86 | −13 50.2 | 1.455 | 0.947 | 42.0 | 19.6 | 40 W | 24* | 25* |
| 12 27 | 15 41.97 | −14 11.0 | 1.452 | 0.924 | 42.0 | 19.6 | 39 W | 23* | 24* |
| 1 1 | 16 9.29 | −14 21.1 | 1.456 | 0.905 | 41.6 | 19.5 | 38 W | 22* | 23* |
| 1 6 | 16 36.55 | −14 20.4 | 1.467 | 0.892 | 40.8 | 19.5 | 36 W | 22* | 22* |
| 1 11 | 17 3.52 | −14 9.4 | 1.483 | 0.885 | 39.8 | 19.5 | 35 W | 21* | 22* |
| 1 16 | 17 29.97 | −13 48.9 | 1.505 | 0.884 | 38.6 | 19.5 | 34 W | 20* | 21* |
| 1 21 | 17 55.72 | −13 20.0 | 1.532 | 0.888 | 37.2 | 19.5 | 33 W | 19* | 20* |
| | | **312956** 1997 $CZ_{3}$ | | | | | | | |
| 9 23 | 9 33.55 | +23 31.8 | 0.532 | 0.709 | 107.0 | 21.3 | 43 W | 36* | 14* |
| 9 25 | 9 33.10 | +23 32.9 | 0.551 | 0.722 | 103.1 | 21.2 | 45 W | 38* | 15* |
| 9 27 | 9 33.23 | +23 30.0 | 0.569 | 0.736 | 99.5 | 21.1 | 46 W | 40* | 16* |
| 9 29 | 9 33.84 | +23 23.8 | 0.588 | 0.751 | 96.2 | 21.1 | 48 W | 41* | 17* |
| 10 1 | 9 34.86 | +23 14.9 | 0.605 | 0.766 | 93.1 | 21.0 | 50 W | 43* | 18* |
| 10 3 | 9 36.23 | +23 3.7 | 0.622 | 0.782 | 90.2 | 21.0 | 51 W | 44* | 19* |
| 10 8 | 9 40.75 | +22 28.5 | 0.661 | 0.823 | 83.8 | 21.0 | 55 W | 47* | 21* |
| 10 13 | 9 46.29 | +21 46.5 | 0.695 | 0.868 | 78.5 | 21.0 | 58 W | 50* | 23* |
| 10 18 | 9 52.31 | +21 0.9 | 0.724 | 0.913 | 74.0 | 21.1 | 62 W | 53* | 25* |
| 10 23 | 9 58.45 | +20 13.9 | 0.747 | 0.959 | 70.1 | 21.1 | 65 W | 55* | 27* |
| 10 28 | 10 4.44 | +19 27.3 | 0.765 | 1.006 | 66.6 | 21.2 | 68 W | 57* | 29* |
| 11 2 | 10 10.07 | +18 42.2 | 0.778 | 1.053 | 63.6 | 21.2 | 72 W | 59* | 31* |
| 11 7 | 10 15.17 | +17 59.8 | 0.787 | 1.099 | 60.8 | 21.3 | 75 W | 61* | 33* |
| 11 12 | 10 19.60 | +17 20.8 | 0.790 | 1.144 | 58.2 | 21.3 | 79 W | 61* | 36* |
| 11 17 | 10 23.26 | +16 46.1 | 0.790 | 1.189 | 55.6 | 21.3 | 83 W | 62* | 38* |
| 11 22 | 10 26.03 | +16 16.2 | 0.786 | 1.233 | 53.1 | 21.3 | 87 W | 61 | 40* |
| 11 27 | 10 27.78 | +15 51.7 | 0.779 | 1.276 | 50.6 | 21.3 | 92 W | 61 | 43* |
| 12 2 | 10 28.40 | +15 33.4 | 0.769 | 1.318 | 48.0 | 21.2 | 97 W | 61 | 45* |
| 12 7 | 10 27.74 | +15 21.6 | 0.758 | 1.360 | 45.2 | 21.2 | 102 W | 60 | 47* |
| 12 12 | 10 25.66 | +15 17.0 | 0.745 | 1.399 | 42.2 | 21.1 | 107 W | 60 | 48* |
| 12 17 | 10 22.07 | +15 19.5 | 0.731 | 1.438 | 39.0 | 21.1 | 113 W | 60 | 49* |
| 12 22 | 10 16.87 | +15 29.3 | 0.719 | 1.476 | 35.5 | 21.0 | 119 W | 60 | 49 |
| 12 27 | 10 9.99 | +15 46.0 | 0.707 | 1.513 | 31.7 | 20.9 | 126 W | 61 | 48 |
| 1 1 | 10 1.42 | +16 8.9 | 0.698 | 1.548 | 27.5 | 20.8 | 133 W | 61 | 48 |
| 1 6 | 9 51.26 | +16 36.6 | 0.693 | 1.583 | 23.1 | 20.7 | 141 W | 62 | 47 |
| 1 11 | 9 39.74 | +17 7.2 | 0.693 | 1.616 | 18.4 | 20.6 | 149 W | 62 | 47 |
| 1 16 | 9 27.21 | +17 38.7 | 0.698 | 1.648 | 13.6 | 20.5 | 157 W | 63 | 46 |
| 1 21 | 9 14.14 | +18 8.7 | 0.710 | 1.679 | 8.7 | 20.4 | 165 W | 63 | 46 |
| | | **390725** 2003 $HB$ | | | | | | | |
| 9 23 | 9 48.80 | +10 36.4 | 0.861 | 0.565 | 86.8 | 21.2 | 34 W | 24* | 18* |
| 9 28 | 10 5.97 | +11 46.7 | 0.934 | 0.593 | 78.6 | 21.2 | 35 W | 27* | 17* |
| 10 3 | 10 24.41 | +12 23.6 | 1.002 | 0.626 | 71.7 | 21.2 | 36 W | 29* | 15* |
| 10 8 | 10 43.37 | +12 33.5 | 1.064 | 0.662 | 66.0 | 21.3 | 37 W | 30* | 14* |
| 10 13 | 11 2.33 | +12 22.1 | 1.121 | 0.700 | 61.4 | 21.4 | 38 W | 31* | 14* |
| 10 18 | 11 21.00 | +11 54.4 | 1.172 | 0.738 | 57.6 | 21.5 | 39 W | 32* | 13* |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | | **491353** 2011 $YJ_{70}$ | | | | | | | |
| 9 23 | 10 8.98 | +17 25.9 | 2.316 | 1.563 | 20.1 | 21.5 | 32 W | 26* | 10* |
| 10 3 | 10 39.09 | +14 47.5 | 2.252 | 1.534 | 21.6 | 21.4 | 34 W | 28* | 11* |
| 10 13 | 11 8.99 | +11 54.9 | 2.192 | 1.510 | 23.1 | 21.4 | 36 W | 29* | 12* |
| 10 23 | 11 38.61 | + 8 51.5 | 2.139 | 1.492 | 24.4 | 21.4 | 38 W | 31* | 14* |
| 11 2 | 12 7.95 | + 5 41.3 | 2.090 | 1.480 | 25.7 | 21.3 | 40 W | 32* | 16* |
| 11 12 | 12 36.94 | + 2 28.6 | 2.047 | 1.475 | 26.9 | 21.3 | 42 W | 33* | 18* |
| 11 22 | 13 5.58 | − 0 42.3 | 2.008 | 1.476 | 28.0 | 21.3 | 45 W | 34* | 21* |
| 12 2 | 13 33.82 | − 3 47.5 | 1.972 | 1.484 | 29.0 | 21.3 | 47 W | 34* | 25* |
| 12 12 | 14 1.60 | − 6 43.4 | 1.938 | 1.498 | 30.0 | 21.3 | 49 W | 33* | 29* |
| 12 22 | 14 28.83 | − 9 27.0 | 1.905 | 1.518 | 30.8 | 21.3 | 52 W | 32* | 34* |
| 1 1 | 14 55.42 | −11 56.4 | 1.873 | 1.544 | 31.6 | 21.4 | 55 W | 31* | 39* |
| 1 11 | 15 21.19 | −14 10.0 | 1.839 | 1.575 | 32.3 | 21.4 | 59 W | 29* | 45* |
| 1 21 | 15 45.94 | −16 7.6 | 1.802 | 1.610 | 32.9 | 21.4 | 63 W | 28* | 50* |
| | | **528804** 2009 $BJ_{58}$ | | | | | | | |
| 9 23 | 10 20.00 | + 9 30.3 | 1.726 | 0.941 | 28.4 | 21.3 | 27 W | 18* | 12* |
| 9 28 | 10 44.45 | + 7 51.9 | 1.674 | 0.878 | 29.1 | 21.1 | 25 W | 17* | 10* |
| 10 3 | 11 10.36 | + 6 0.6 | 1.628 | 0.814 | 29.3 | 20.9 | 23 W | 16* | 9* |
| 10 8 | 11 37.80 | + 3 56.2 | 1.589 | 0.752 | 28.9 | 20.7 | 21 W | 14* | 7* |
| 10 13 | 12 6.78 | + 1 39.0 | 1.558 | 0.693 | 27.7 | 20.4 | 19 W | 12* | 5* |
| 10 18 | 12 37.32 | − 0 49.9 | 1.536 | 0.639 | 25.3 | 20.1 | 16 W | 10* | 2* |
| 10 23 | 13 9.34 | − 3 28.6 | 1.521 | 0.592 | 21.7 | 19.8 | 13 W | 7* | — |
| 10 28 | 13 42.73 | − 6 13.8 | 1.514 | 0.558 | 16.8 | 19.5 | 9 W | 3* | — |
| 11 2 | 14 17.23 | − 9 0.9 | 1.514 | 0.538 | 11.6 | 19.3 | 6 W | — | — |
| 11 7 | 14 52.44 | −11 44.0 | 1.518 | 0.536 | 8.5 | 19.1 | 5 E | — | — |
| 11 12 | 15 27.88 | −14 16.4 | 1.528 | 0.552 | 10.4 | 19.3 | 6 E | — | — |
| 11 17 | 16 3.05 | −16 31.7 | 1.543 | 0.584 | 14.5 | 19.6 | 9 E | 1* | — |
| 11 22 | 16 37.50 | −18 25.3 | 1.565 | 0.628 | 18.2 | 19.9 | 11 E | 3* | 3* |
| 11 27 | 17 10.88 | −19 54.9 | 1.594 | 0.681 | 20.7 | 20.2 | 14 E | 4* | 6* |
| 12 2 | 17 42.90 | −21 0.1 | 1.630 | 0.739 | 22.2 | 20.5 | 16 E | 5* | 8* |
| 12 7 | 18 13.33 | −21 42.0 | 1.673 | 0.801 | 22.8 | 20.7 | 18 E | 6* | 10* |
| 12 12 | 18 42.04 | −22 3.1 | 1.722 | 0.864 | 22.8 | 21.0 | 20 E | 7* | 11* |
| 12 17 | 19 8.96 | −22 6.2 | 1.777 | 0.928 | 22.3 | 21.2 | 21 E | 8* | 12* |
| 12 22 | 19 34.11 | −21 54.2 | 1.837 | 0.992 | 21.5 | 21.4 | 22 E | 9* | 13* |
| | | **417217** 2005 $YS$ | | | | | | | |
| 9 23 | 10 25.76 | + 7 0.8 | 1.579 | 0.784 | 31.9 | 21.4 | 24 W | 15* | 12* |
| 10 3 | 11 11.99 | + 0 35.6 | 1.500 | 0.675 | 32.7 | 21.0 | 21 W | 12* | 11* |
| 10 13 | 12 6.89 | − 6 41.8 | 1.431 | 0.550 | 30.5 | 20.4 | 16 W | 6* | 8* |
| 10 23 | 13 15.86 | −14 11.7 | 1.372 | 0.417 | 21.3 | 19.4 | 9 W | — | 3* |
| 10 25 | 13 31.97 | −15 34.3 | 1.359 | 0.392 | 18.3 | 19.2 | 7 W | — | 1* |
| 10 27 | 13 48.96 | −16 50.9 | 1.346 | 0.370 | 15.5 | 18.9 | 6 W | — | — |
| 10 29 | 14 6.81 | −17 59.5 | 1.330 | 0.350 | 13.9 | 18.7 | 5 W | — | — |
| 10 31 | 14 25.45 | −18 57.9 | 1.312 | 0.335 | 15.3 | 18.7 | 5 E | — | — |
| 11 2 | 14 44.73 | −19 43.8 | 1.291 | 0.324 | 20.0 | 18.7 | 6 E | — | — |
| 11 4 | 15 4.42 | −20 15.4 | 1.267 | 0.320 | 26.8 | 18.8 | 8 E | — | 2* |
| 11 6 | 15 24.23 | −20 31.9 | 1.240 | 0.322 | 34.5 | 19.0 | 11 E | — | 5* |
| 11 8 | 15 43.86 | −20 33.3 | 1.210 | 0.330 | 42.3 | 19.2 | 13 E | — | 7* |
| 11 10 | 16 3.10 | −20 20.7 | 1.178 | 0.343 | 49.5 | 19.5 | 15 E | 2* | 9* |
| 11 12 | 16 21.80 | −19 55.7 | 1.146 | 0.361 | 55.9 | 19.7 | 18 E | 4* | 11* |
| 11 14 | 16 39.89 | −19 20.2 | 1.115 | 0.382 | 61.3 | 19.9 | 20 E | 6* | 12* |
| 11 16 | 16 57.36 | −18 36.0 | 1.084 | 0.406 | 65.7 | 20.1 | 22 E | 8* | 14* |
| 11 18 | 17 14.27 | −17 44.5 | 1.055 | 0.431 | 69.3 | 20.3 | 24 E | 11* | 15* |
| 11 20 | 17 30.65 | −16 47.2 | 1.028 | 0.457 | 72.1 | 20.5 | 26 E | 13* | 16* |
| 11 22 | 17 46.56 | −15 45.1 | 1.003 | 0.484 | 74.2 | 20.6 | 28 E | 15* | 17* |
| 11 27 | 18 24.64 | −12 54.3 | 0.951 | 0.551 | 77.1 | 20.9 | 33 E | 20* | 19* |
| 12 2 | 19 0.73 | − 9 49.8 | 0.913 | 0.615 | 77.7 | 21.1 | 38 E | 25* | 21* |
| 12 7 | 19 35.17 | − 6 40.3 | 0.889 | 0.676 | 76.7 | 21.2 | 42 E | 30* | 22* |
| 12 12 | 20 8.07 | − 3 32.7 | 0.876 | 0.733 | 74.9 | 21.3 | 46 E | 34* | 23* |
| 12 17 | 20 39.45 | − 0 32.9 | 0.875 | 0.785 | 72.5 | 21.3 | 50 E | 38* | 23* |
| 12 22 | 21 9.30 | + 2 14.9 | 0.882 | 0.833 | 69.9 | 21.4 | 53 E | 41* | 23* |
| 12 27 | 21 37.60 | + 4 48.2 | 0.898 | 0.876 | 67.3 | 21.5 | 55 E | 44* | 24* |
| | | **467351** 2003 $KO_{2}$ | | | | | | | |
| 9 23 | 10 40.46 | + 0 34.3 | 1.138 | 0.391 | 60.2 | 20.9 | 20 W | 8* | 12* |
| 9 28 | 11 4.46 | − 2 44.1 | 1.259 | 0.440 | 45.7 | 21.0 | 18 W | 6* | 11* |
| 10 3 | 11 28.90 | − 5 26.1 | 1.363 | 0.497 | 35.4 | 21.1 | 17 W | 5* | 10* |
| 10 8 | 11 52.72 | − 7 40.2 | 1.454 | 0.556 | 28.3 | 21.3 | 15 W | 3* | 8* |
| 10 13 | 12 15.55 | − 9 32.9 | 1.532 | 0.615 | 23.3 | 21.5 | 14 W | 2* | 7* |
| | | **267337** 2001 $VK_{5}$ | | | | | | | |
| 9 23 | 10 56.90 | −22 53.9 | 0.396 | 0.677 | 136.8 | 21.5 | 28 W | — | 17* |
| 9 25 | 10 48.28 | −21 46.9 | 0.384 | 0.690 | 136.2 | 21.4 | 28 W | — | 20* |
| 9 27 | 10 39.80 | −20 26.3 | 0.372 | 0.704 | 135.0 | 21.2 | 30 W | — | 23* |
| 9 29 | 10 31.58 | −18 53.1 | 0.362 | 0.719 | 133.2 | 21.0 | 32 W | 1* | 25* |
| 10 1 | 10 23.73 | −17 8.8 | 0.353 | 0.734 | 130.8 | 20.8 | 34 W | 5* | 28* |
| 10 3 | 10 16.32 | −15 15.0 | 0.346 | 0.750 | 128.1 | 20.5 | 36 W | 9* | 30* |
| 10 5 | 10 9.38 | −13 13.0 | 0.339 | 0.766 | 125.0 | 20.2 | 39 W | 13* | 32* |
| 10 7 | 10 2.94 | −11 4.5 | 0.334 | 0.783 | 121.8 | 20.0 | 42 W | 17* | 34* |
| 10 9 | 9 57.00 | − 8 50.8 | 0.329 | 0.800 | 118.3 | 19.7 | 45 W | 21* | 36* |

*(continuation)*

**267337** 2001 $VK_5$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 11 | 9 51.53 | − 6 33.2 | 0.325 | 0.817 | 114.8 | 19.5 | 48 W | 26* | 37* |
| 10 13 | 9 46.49 | − 4 12.7 | 0.322 | 0.835 | 111.2 | 19.3 | 51 W | 30* | 38* |
| 10 15 | 9 41.86 | − 1 50.1 | 0.319 | 0.853 | 107.6 | 19.1 | 55 W | 33* | 39* |
| 10 17 | 9 37.59 | + 0 33.7 | 0.317 | 0.871 | 104.1 | 18.9 | 58 W | 37* | 40* |
| 10 19 | 9 33.61 | + 2 58.4 | 0.315 | 0.889 | 100.5 | 18.8 | 61 W | 41* | 41* |
| 10 21 | 9 29.89 | + 5 23.5 | 0.314 | 0.907 | 97.0 | 18.7 | 65 W | 45* | 41* |
| 10 23 | 9 26.35 | + 7 48.8 | 0.312 | 0.926 | 93.5 | 18.5 | 68 W | 48* | 41* |
| 10 28 | 9 17.96 | +13 52.2 | 0.311 | 0.972 | 85.0 | 18.3 | 77 W | 57* | 40* |
| 11 2 | 9 9.46 | +19 55.2 | 0.310 | 1.017 | 76.7 | 18.1 | 86 W | 65* | 38* |
| 11 7 | 8 59.88 | +25 57.3 | 0.312 | 1.062 | 68.5 | 17.9 | 94 W | 71 | 35* |
| 11 12 | 8 48.26 | +31 55.2 | 0.315 | 1.106 | 60.6 | 17.8 | 103 W | 77 | 31* |
| 11 14 | 8 42.82 | +34 15.8 | 0.317 | 1.123 | 57.5 | 17.7 | 107 W | 79 | 29* |
| 11 16 | 8 36.85 | +36 33.9 | 0.320 | 1.140 | 54.4 | 17.7 | 110 W | 82 | 27* |
| 11 18 | 8 30.27 | +38 49.0 | 0.323 | 1.157 | 51.4 | 17.7 | 114 W | 84 | 25* |
| 11 20 | 8 23.05 | +41 0.1 | 0.327 | 1.174 | 48.4 | 17.6 | 117 W | 86 | 23 |
| 11 22 | 8 15.12 | +43 6.3 | 0.331 | 1.191 | 45.5 | 17.6 | 121 W | 88 | 21 |
| 11 24 | 8 6.46 | +45 6.7 | 0.336 | 1.208 | 42.8 | 17.6 | 124 W | 90 | 19 |
| 11 26 | 7 57.03 | +47 0.2 | 0.342 | 1.224 | 40.1 | 17.6 | 127 W | 88 | 17 |
| 11 28 | 7 46.85 | +48 45.9 | 0.349 | 1.240 | 37.6 | 17.6 | 130 W | 86 | 15 |
| 11 30 | 7 35.93 | +50 22.9 | 0.356 | 1.256 | 35.2 | 17.6 | 133 W | 85 | 14 |
| 12 2 | 7 24.33 | +51 50.2 | 0.365 | 1.272 | 33.0 | 17.6 | 135 W | 83 | 12 |
| 12 4 | 7 12.15 | +53 7.3 | 0.374 | 1.287 | 30.9 | 17.6 | 138 W | 82 | 11 |
| 12 6 | 6 59.52 | +54 13.7 | 0.384 | 1.303 | 29.1 | 17.7 | 140 W | 81 | 10 |
| 12 8 | 6 46.60 | +55 9.1 | 0.394 | 1.318 | 27.5 | 17.7 | 142 W | 80 | 9 |
| 12 10 | 6 33.58 | +55 53.7 | 0.406 | 1.333 | 26.2 | 17.8 | 143 W | 79 | 8 |
| 12 12 | 6 20.65 | +56 27.8 | 0.419 | 1.348 | 25.1 | 17.8 | 145 W | 79 | 8 |
| 12 14 | 6 8.00 | +56 52.0 | 0.432 | 1.362 | 24.2 | 17.9 | 145 W | 78 | 7 |
| 12 16 | 5 55.80 | +57 7.0 | 0.446 | 1.377 | 23.6 | 18.0 | 146 W | 78 | 7 |
| 12 18 | 5 44.20 | +57 13.8 | 0.461 | 1.391 | 23.2 | 18.0 | 146 W | 78 | 7 |
| 12 20 | 5 33.31 | +57 13.4 | 0.477 | 1.405 | 23.0 | 18.1 | 146 E | 78 | 7 |
| 12 22 | 5 23.22 | +57 6.8 | 0.493 | 1.419 | 23.0 | 18.2 | 146 E | 78 | 7 |
| 12 24 | 5 13.96 | +56 54.9 | 0.510 | 1.432 | 23.2 | 18.3 | 145 E | 78 | 7 |
| 12 26 | 5 5.57 | +56 38.7 | 0.528 | 1.445 | 23.4 | 18.4 | 144 E | 78 | 7 |
| 12 28 | 4 58.04 | +56 19.1 | 0.547 | 1.459 | 23.8 | 18.5 | 143 E | 79 | 8 |
| 12 30 | 4 51.34 | +55 56.8 | 0.566 | 1.472 | 24.3 | 18.6 | 142 E | 79 | 8 |
| 1 1 | 4 45.45 | +55 32.4 | 0.586 | 1.484 | 24.8 | 18.7 | 141 E | 79 | 8 |
| 1 3 | 4 40.34 | +55 6.6 | 0.607 | 1.497 | 25.3 | 18.9 | 139 E | 80 | 9 |
| 1 5 | 4 35.95 | +54 39.8 | 0.628 | 1.509 | 25.8 | 19.0 | 138 E | 80 | 9 |
| 1 7 | 4 32.23 | +54 12.5 | 0.649 | 1.522 | 26.4 | 19.1 | 137 E | 81 | 10 |
| 1 9 | 4 29.14 | +53 45.1 | 0.671 | 1.533 | 27.0 | 19.2 | 135 E | 81 | 10 |
| 1 11 | 4 26.63 | +53 17.7 | 0.694 | 1.545 | 27.5 | 19.3 | 133 E | 82 | 11 |
| 1 13 | 4 24.64 | +52 50.6 | 0.717 | 1.557 | 28.0 | 19.4 | 132 E | 82 | 11 |
| 1 15 | 4 23.15 | +52 24.0 | 0.741 | 1.568 | 28.5 | 19.5 | 130 E | 83 | 12 |
| 1 17 | 4 22.09 | +51 58.0 | 0.765 | 1.579 | 29.0 | 19.6 | 129 E | 83 | 12 |
| 1 19 | 4 21.44 | +51 32.7 | 0.789 | 1.590 | 29.5 | 19.7 | 127 E | 83 | 12 |
| 1 21 | 4 21.16 | +51 8.1 | 0.814 | 1.601 | 29.9 | 19.8 | 126 E | 84 | 13 |

**475534** 2006 $TS_7$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 11 9.51 | + 3 32.2 | 1.330 | 0.419 | 32.6 | 21.3 | 13 W | 5* | 4* |
| 9 25 | 11 24.81 | + 2 0.3 | 1.346 | 0.408 | 27.6 | 21.1 | 11 W | 3* | 2* |
| 9 27 | 11 40.23 | + 0 28.0 | 1.362 | 0.400 | 22.1 | 20.9 | 9 W | 1* | 1* |
| 9 29 | 11 55.73 | − 1 3.8 | 1.376 | 0.397 | 16.5 | 20.8 | 6 W | — | — |
| 10 1 | 12 11.26 | − 2 34.5 | 1.390 | 0.398 | 10.9 | 20.6 | 4 W | — | — |
| 10 3 | 12 26.75 | − 4 3.2 | 1.402 | 0.404 | 5.5 | 20.4 | 2 W | — | — |
| 10 8 | 13 4.95 | − 7 31.8 | 1.428 | 0.434 | 7.5 | 20.7 | 3 E | — | — |
| 10 13 | 13 41.86 | −10 36.1 | 1.451 | 0.482 | 16.5 | 21.3 | 8 E | — | 2* |
| 10 18 | 14 17.15 | −13 13.1 | 1.474 | 0.540 | 22.4 | 21.8 | 12 E | — | 6* |
| 10 23 | 14 50.74 | −15 22.6 | 1.500 | 0.602 | 26.0 | 22.2 | 15 E | 1* | 9* |

**3102** Krok

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 12 1.04 | + 0 49.0 | 3.755 | 2.752 | 0.3 | 21.3 | 1 E | — | — |
| 10 3 | 12 15.60 | − 0 33.6 | 3.712 | 2.719 | 2.2 | 21.5 | 6 W | — | — |
| 10 13 | 12 30.42 | − 1 56.9 | 3.653 | 2.684 | 4.4 | 21.5 | 12 W | 5* | 1* |
| 10 23 | 12 45.48 | − 3 20.0 | 3.578 | 2.648 | 6.6 | 21.6 | 18 W | 11* | 5* |
| 11 2 | 13 0.80 | − 4 42.3 | 3.489 | 2.611 | 8.8 | 21.6 | 24 W | 16* | 9* |

**179778** 2002 $SY_{47}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 12 9.76 | − 1 30.5 | 3.577 | 2.576 | 1.2 | 21.4 | 3 E | — | — |
| 10 3 | 12 25.91 | − 3 0.2 | 3.551 | 2.552 | 1.0 | 21.3 | 3 W | — | — |
| 10 13 | 12 42.33 | − 4 30.3 | 3.512 | 2.528 | 3.2 | 21.5 | 8 W | 1* | — |
| 10 23 | 12 59.02 | − 5 59.8 | 3.459 | 2.503 | 5.4 | 21.5 | 14 W | 7* | 3* |
| 11 2 | 13 15.98 | − 7 27.8 | 3.393 | 2.477 | 7.5 | 21.6 | 19 W | 11* | 7* |

**90281** 2003 $DQ_{15}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 12 12.97 | − 0 17.8 | 3.972 | 2.970 | 1.1 | 21.4 | 3 E | — | — |
| 10 3 | 12 26.53 | − 1 44.7 | 3.985 | 2.986 | 1.0 | 21.4 | 3 W | — | — |
| 10 13 | 12 40.00 | − 3 10.0 | 3.982 | 3.001 | 3.0 | 21.6 | 9 W | 3* | — |
| 10 23 | 12 53.36 | − 4 33.3 | 3.962 | 3.015 | 5.1 | 21.7 | 15 W | 9* | 3* |
| 11 2 | 13 6.56 | − 5 53.8 | 3.925 | 3.027 | 7.0 | 21.8 | 22 W | 14* | 8* |

**101258** 1998 $SF_{97}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 12 42.67 | − 3 51.8 | 3.919 | 2.943 | 3.9 | 21.5 | 11 E | — | 5* |
| 10 3 | 12 56.29 | − 5 22.9 | 3.931 | 2.936 | 1.8 | 21.3 | 5 E | — | — |
| 10 13 | 13 10.11 | − 6 53.5 | 3.926 | 2.929 | 0.3 | 21.2 | 1 W | — | — |
| 10 23 | 13 24.09 | − 8 22.7 | 3.905 | 2.920 | 2.4 | 21.3 | 7 W | 1* | — |
| 11 2 | 13 38.20 | − 9 50.1 | 3.868 | 2.911 | 4.4 | 21.4 | 13 W | 6* | 3* |

**152563** 1992 $BF$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 12 47.64 | − 8 39.9 | 1.728 | 0.800 | 18.7 | 21.5 | 15 E | — | 9* |
| 9 28 | 13 8.90 | −10 53.2 | 1.692 | 0.775 | 20.3 | 21.4 | 16 E | — | 9* |
| 10 3 | 13 31.15 | −13 3.8 | 1.655 | 0.751 | 22.3 | 21.3 | 17 E | — | 10* |
| 10 8 | 13 54.51 | −15 9.5 | 1.616 | 0.729 | 24.5 | 21.3 | 18 E | — | 11* |
| 10 13 | 14 19.03 | −17 7.9 | 1.577 | 0.709 | 27.0 | 21.3 | 19 E | — | 13* |
| 10 18 | 14 44.78 | −18 56.0 | 1.536 | 0.692 | 29.8 | 21.2 | 20 E | — | 14* |
| 10 23 | 15 11.74 | −20 30.7 | 1.494 | 0.678 | 32.9 | 21.2 | 22 E | 1* | 16* |
| 10 28 | 15 39.86 | −21 48.9 | 1.452 | 0.668 | 36.2 | 21.2 | 23 E | 2* | 17* |
| 11 2 | 16 9.02 | −22 47.6 | 1.409 | 0.663 | 39.5 | 21.2 | 25 E | 4* | 19* |
| 11 7 | 16 39.01 | −23 24.1 | 1.368 | 0.661 | 42.9 | 21.2 | 27 E | 6* | 21* |
| 11 12 | 17 9.57 | −23 36.6 | 1.327 | 0.665 | 46.1 | 21.3 | 29 E | 7* | 22* |
| 11 17 | 17 40.39 | −23 24.1 | 1.288 | 0.672 | 49.1 | 21.3 | 31 E | 10* | 24* |
| 11 22 | 18 11.19 | −22 46.7 | 1.251 | 0.684 | 51.8 | 21.4 | 33 E | 12* | 25* |
| 11 27 | 18 41.67 | −21 45.5 | 1.218 | 0.700 | 54.1 | 21.4 | 35 E | 14* | 26* |
| 12 2 | 19 11.63 | −20 22.3 | 1.189 | 0.718 | 55.9 | 21.5 | 37 E | 17* | 27* |

**212546** 2006 $SV_{19}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 13 0.25 | − 1 23.0 | 2.595 | 1.647 | 9.2 | 21.4 | 15 E | 4* | 8* |
| 10 3 | 13 24.10 | − 3 56.2 | 2.541 | 1.577 | 7.6 | 21.2 | 12 E | 2* | 5* |
| 10 13 | 13 49.63 | − 6 33.5 | 2.482 | 1.506 | 6.2 | 20.9 | 9 E | 1* | 2* |
| 10 23 | 14 17.07 | − 9 12.9 | 2.418 | 1.436 | 4.9 | 20.7 | 7 E | — | — |
| 11 2 | 14 46.71 | −11 51.3 | 2.352 | 1.367 | 3.8 | 20.5 | 5 E | — | — |
| 11 12 | 15 18.83 | −14 24.7 | 2.286 | 1.300 | 3.1 | 20.3 | 4 E | — | — |
| 11 17 | 15 35.90 | −15 37.8 | 2.253 | 1.268 | 2.9 | 20.2 | 4 E | — | — |
| 11 22 | 15 53.67 | −16 47.4 | 2.222 | 1.237 | 2.7 | 20.1 | 3 E | — | — |
| 11 27 | 16 12.17 | −17 52.6 | 2.191 | 1.207 | 2.6 | 20.0 | 3 E | — | — |
| 12 2 | 16 31.41 | −18 52.4 | 2.163 | 1.179 | 2.5 | 19.9 | 3 W | — | — |
| 12 7 | 16 51.38 | −19 45.7 | 2.136 | 1.153 | 2.5 | 19.8 | 3 W | — | — |
| 12 12 | 17 12.04 | −20 31.4 | 2.111 | 1.128 | 2.3 | 19.7 | 3 W | — | — |
| 12 17 | 17 33.35 | −21 8.3 | 2.088 | 1.106 | 2.2 | 19.7 | 2 W | — | — |
| 12 22 | 17 55.24 | −21 35.5 | 2.069 | 1.086 | 2.0 | 19.6 | 2 W | — | — |
| 12 27 | 18 17.64 | −21 52.0 | 2.052 | 1.069 | 1.7 | 19.5 | 2 W | — | — |
| 1 1 | 18 40.43 | −21 57.0 | 2.038 | 1.056 | 1.3 | 19.4 | 1 W | — | — |
| 1 6 | 19 3.48 | −21 50.0 | 2.028 | 1.045 | 0.9 | 19.4 | 1 W | — | — |
| 1 11 | 19 26.65 | −21 30.8 | 2.021 | 1.038 | 0.5 | 19.3 | 1 W | — | — |
| 1 16 | 19 49.81 | −20 59.5 | 2.017 | 1.034 | 0.0 | 19.2 | 0 W | — | — |
| 1 21 | 20 12.82 | −20 16.5 | 2.017 | 1.033 | 0.4 | 19.3 | 0 E | — | — |

**369272** 2009 $QA_7$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 13 6.42 | −12 23.1 | 2.673 | 1.770 | 11.6 | 21.4 | 21 E | — | 14* |
| 10 3 | 13 29.80 | −14 49.4 | 2.655 | 1.725 | 9.9 | 21.2 | 17 E | — | 11* |
| 10 13 | 13 54.61 | −17 14.3 | 2.631 | 1.680 | 8.3 | 21.1 | 14 E | — | 8* |
| 10 23 | 14 20.98 | −19 34.8 | 2.602 | 1.637 | 6.8 | 21.0 | 11 E | — | 4* |
| 11 2 | 14 49.05 | −21 47.5 | 2.570 | 1.596 | 5.4 | 20.8 | 9 E | — | 2* |
| 11 12 | 15 18.92 | −23 48.4 | 2.535 | 1.556 | 4.2 | 20.7 | 7 E | — | — |
| 11 22 | 15 50.63 | −25 32.7 | 2.500 | 1.519 | 3.6 | 20.5 | 5 E | — | — |
| 12 2 | 16 24.14 | −26 55.5 | 2.464 | 1.485 | 3.5 | 20.5 | 5 W | — | — |
| 12 7 | 16 41.52 | −27 27.3 | 2.447 | 1.469 | 3.8 | 20.4 | 6 W | — | — |
| 12 12 | 16 59.26 | −27 51.8 | 2.430 | 1.455 | 4.1 | 20.4 | 6 W | — | — |
| 12 17 | 17 17.31 | −28 8.6 | 2.414 | 1.441 | 4.6 | 20.4 | 7 W | — | — |
| 12 22 | 17 35.64 | −28 17.1 | 2.398 | 1.428 | 5.1 | 20.4 | 7 W | — | 1* |
| 12 27 | 17 54.16 | −28 17.1 | 2.383 | 1.416 | 5.6 | 20.4 | 8 W | — | 2* |
| 1 1 | 18 12.82 | −28 8.1 | 2.370 | 1.406 | 6.1 | 20.4 | 9 W | — | 3* |
| 1 6 | 18 31.55 | −27 50.1 | 2.357 | 1.397 | 6.7 | 20.4 | 10 W | — | 3* |
| 1 11 | 18 50.26 | −27 23.0 | 2.345 | 1.389 | 7.2 | 20.4 | 10 W | — | 4* |
| 1 16 | 19 8.88 | −26 47.0 | 2.335 | 1.382 | 7.8 | 20.4 | 11 W | — | 5* |
| 1 21 | 19 27.35 | −26 2.2 | 2.325 | 1.377 | 8.4 | 20.4 | 12 W | — | 6* |

**274855** 2009 $RB_4$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 13 9.06 | − 4 22.4 | 2.144 | 1.229 | 14.5 | 21.4 | 18 E | 3* | 12* |
| 10 3 | 13 42.41 | − 7 2.3 | 2.123 | 1.201 | 14.0 | 21.3 | 17 E | 3* | 10* |
| 10 13 | 14 17.20 | − 9 37.0 | 2.104 | 1.178 | 13.6 | 21.3 | 16 E | 4* | 9* |
| 10 23 | 14 53.45 | −12 1.1 | 2.088 | 1.161 | 13.3 | 21.2 | 16 E | 4* | 8* |
| 11 2 | 15 31.12 | −14 8.8 | 2.078 | 1.150 | 13.1 | 21.2 | 15 E | 5* | 7* |
| 11 12 | 16 10.02 | −15 54.2 | 2.074 | 1.146 | 12.8 | 21.1 | 15 E | 5* | 6* |
| 11 22 | 16 49.83 | −17 12.3 | 2.077 | 1.149 | 12.5 | 21.1 | 15 E | 6* | 5* |
| 12 2 | 17 30.14 | −17 59.2 | 2.088 | 1.158 | 12.0 | 21.1 | 14 E | 6* | 4* |
| 12 12 | 18 10.44 | −18 13.1 | 2.107 | 1.173 | 11.4 | 21.2 | 14 E | 6* | 3* |
| 12 22 | 18 50.17 | −17 54.0 | 2.133 | 1.194 | 10.6 | 21.2 | 13 E | 6* | 2* |
| 1 1 | 19 28.88 | −17 4.3 | 2.165 | 1.221 | 9.6 | 21.2 | 12 E | 5* | — |
| 1 11 | 20 6.19 | −15 47.5 | 2.204 | 1.251 | 8.5 | 21.3 | 11 E | 5* | — |
| 1 21 | 20 41.88 | −14 8.6 | 2.247 | 1.286 | 7.2 | 21.3 | 9 E | 3* | — |

**101465** 1998 $WL_{12}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 13 33.34 | −11 38.6 | 3.513 | 2.648 | 9.6 | 21.5 | 26 E | 2* | 20* |
| 10 3 | 13 48.86 | −13 0.8 | 3.538 | 2.623 | 7.6 | 21.4 | 20 E | — | 14* |
| 10 13 | 14 4.98 | −14 22.6 | 3.550 | 2.596 | 5.5 | 21.3 | 15 E | — | 9* |
| 10 23 | 14 21.68 | −15 43.0 | 3.547 | 2.568 | 3.4 | 21.1 | 9 E | — | 3* |
| 11 2 | 14 38.95 | −17 0.9 | 3.530 | 2.540 | 1.4 | 20.9 | 3 E | — | — |
| 11 12 | 14 56.79 | −18 15.3 | 3.499 | 2.511 | 1.1 | 20.9 | 3 W | — | — |
| 11 22 | 15 15.17 | −19 25.2 | 3.455 | 2.481 | 3.2 | 21.0 | 8 W | — | 1* |
| 12 2 | 15 34.07 | −20 29.5 | 3.397 | 2.450 | 5.4 | 21.0 | 14 W | 4* | 5* |
| 12 12 | 15 53.48 | −21 27.2 | 3.327 | 2.419 | 7.7 | 21.1 | 19 W | 7* | 10* |
| 12 22 | 16 13.34 | −22 17.4 | 3.245 | 2.386 | 9.9 | 21.1 | 25 W | 10* | 15* |
| 1 1 | 16 33.61 | −22 59.1 | 3.152 | 2.353 | 12.1 | 21.1 | 30 W | 12* | 21* |
| 1 11 | 16 54.23 | −23 31.4 | 3.049 | 2.320 | 14.2 | 21.1 | 35 W | 13* | 27* |
| 1 21 | 17 15.11 | −23 53.8 | 2.937 | 2.286 | 16.4 | 21.0 | 41 W | 14* | 33* |

**154658** 2004 $FA_{18}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 13 55.76 | −20 48.9 | 1.472 | 0.872 | 41.6 | 21.4 | 35 E | — | 28* |
| 9 28 | 14 12.10 | −22 52.9 | 1.424 | 0.830 | 43.6 | 21.2 | 35 E | — | 28* |
| 10 3 | 14 29.68 | −24 54.6 | 1.371 | 0.789 | 46.1 | 21.1 | 35 E | — | 28* |
| 10 8 | 14 48.67 | −26 51.7 | 1.313 | 0.748 | 49.2 | 21.0 | 35 E | — | 27* |
| 10 13 | 15 9.20 | −28 40.9 | 1.249 | 0.711 | 53.0 | 20.9 | 35 E | — | 28* |
| 10 18 | 15 31.38 | −30 17.8 | 1.179 | 0.676 | 57.6 | 20.8 | 35 E | — | 28* |
| 10 23 | 15 55.22 | −31 36.5 | 1.105 | 0.646 | 63.0 | 20.7 | 35 E | — | 29* |
| 10 28 | 16 20.60 | −32 29.9 | 1.026 | 0.622 | 69.3 | 20.7 | 36 E | — | 29* |
| 11 2 | 16 47.22 | −32 49.9 | 0.944 | 0.606 | 76.2 | 20.6 | 36 E | — | 30* |
| 11 7 | 17 14.54 | −32 27.8 | 0.860 | 0.598 | 83.6 | 20.7 | 37 E | 2* | 31* |
| 11 12 | 17 41.93 | −31 15.4 | 0.777 | 0.600 | 91.0 | 20.8 | 37 E | 5* | 31* |
| 11 17 | 18 8.72 | −29 5.6 | 0.697 | 0.611 | 98.0 | 20.9 | 38 E | 8* | 31* |
| 11 22 | 18 34.42 | −25 52.2 | 0.622 | 0.630 | 104.2 | 21.0 | 38 E | 12* | 31* |
| 11 27 | 18 58.84 | −21 30.8 | 0.554 | 0.657 | 108.9 | 21.1 | 39 E | 16* | 30* |
| 12 2 | 19 22.05 | −15 58.2 | 0.496 | 0.689 | 111.7 | 21.1 | 40 E | 22* | 28* |
| 12 7 | 19 44.38 | − 9 14.7 | 0.447 | 0.725 | 112.3 | 21.1 | 43 E | 28* | 25* |
| 12 12 | 20 6.32 | − 1 26.4 | 0.410 | 0.764 | 110.4 | 20.9 | 47 E | 36* | 21* |
| 12 17 | 20 28.46 | + 7 11.6 | 0.384 | 0.804 | 106.4 | 20.6 | 52 E | 43* | 17* |
| 12 22 | 20 51.48 | +16 14.5 | 0.369 | 0.846 | 100.7 | 20.3 | 58 E | 51* | 12* |
| 12 24 | 21 1.09 | +19 51.7 | 0.366 | 0.863 | 98.1 | 20.2 | 60 E | 54* | 11* |
| 12 26 | 21 11.00 | +23 25.9 | 0.365 | 0.879 | 95.4 | 20.1 | 63 E | 57* | 9* |
| 12 28 | 21 21.27 | +26 55.3 | 0.365 | 0.896 | 92.7 | 20.1 | 66 E | 60* | 7* |
| 12 30 | 21 31.94 | +30 18.0 | 0.367 | 0.913 | 89.9 | 20.0 | 68 E | 62* | 6* |
| 1 1 | 21 43.06 | +33 32.6 | 0.370 | 0.930 | 87.1 | 19.9 | 71 E | 64* | 4* |
| 1 3 | 21 54.66 | +36 38.0 | 0.375 | 0.946 | 84.4 | 19.9 | 73 E | 66* | 3* |
| 1 5 | 22 6.79 | +39 33.0 | 0.381 | 0.963 | 81.8 | 19.9 | 76 E | 68* | 2* |
| 1 7 | 22 19.47 | +42 17.1 | 0.388 | 0.979 | 79.2 | 19.9 | 78 E | 70* | 1* |
| 1 9 | 22 32.74 | +44 49.5 | 0.395 | 0.995 | 76.8 | 19.9 | 80 E | 71* | — |
| 1 11 | 22 46.61 | +47 10.1 | 0.404 | 1.011 | 74.5 | 19.9 | 82 E | 72* | — |
| 1 13 | 23 1.07 | +49 18.6 | 0.414 | 1.027 | 72.3 | 19.9 | 84 E | 72* | — |
| 1 15 | 23 16.13 | +51 14.9 | 0.424 | 1.043 | 70.2 | 19.9 | 86 E | 73* | — |
| 1 17 | 23 31.75 | +52 59.2 | 0.436 | 1.058 | 68.2 | 19.9 | 88 E | 73* | — |
| 1 19 | 23 47.89 | +54 31.5 | 0.447 | 1.074 | 66.4 | 19.9 | 89 E | 73* | — |
| 1 21 | 0 4.48 | +55 52.1 | 0.460 | 1.089 | 64.7 | 20.0 | 90 E | 73* | — |

**101027** 1998 $QL_{71}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 14 13.30 | −10 57.6 | 3.718 | 2.952 | 11.2 | 21.5 | 35 E | 9* | 29* |
| 10 3 | 14 26.92 | −12 0.5 | 3.786 | 2.947 | 9.4 | 21.5 | 29 E | 7* | 22* |
| 10 13 | 14 41.03 | −13 1.9 | 3.839 | 2.941 | 7.4 | 21.4 | 22 E | 5* | 16* |
| 10 23 | 14 55.56 | −14 0.9 | 3.876 | 2.935 | 5.5 | 21.3 | 16 E | 3* | 10* |
| 11 2 | 15 10.47 | −14 56.7 | 3.898 | 2.927 | 3.4 | 21.2 | 10 E | 1* | 3* |
| 11 12 | 15 25.72 | −15 48.4 | 3.904 | 2.918 | 1.5 | 21.1 | 5 E | — | — |
| 11 22 | 15 41.24 | −16 35.2 | 3.893 | 2.908 | 1.4 | 21.1 | 4 W | — | — |
| 12 2 | 15 56.98 | −17 16.6 | 3.866 | 2.898 | 3.2 | 21.2 | 10 W | 3* | — |
| 12 12 | 16 12.85 | −17 51.9 | 3.822 | 2.886 | 5.3 | 21.2 | 16 W | 8* | 5* |
| 12 22 | 16 28.79 | −18 20.5 | 3.762 | 2.873 | 7.3 | 21.3 | 22 W | 11* | 11* |
| 1 1 | 16 44.71 | −18 42.1 | 3.688 | 2.860 | 9.4 | 21.3 | 28 W | 14* | 17* |
| 1 11 | 17 0.50 | −18 56.3 | 3.598 | 2.845 | 11.3 | 21.4 | 35 W | 17* | 24* |
| 1 21 | 17 16.06 | −19 3.0 | 3.495 | 2.830 | 13.2 | 21.3 | 41 W | 19* | 31* |

**158853** 2004 $NJ_{32}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 15 12.49 | −11 1.8 | 2.657 | 2.140 | 20.8 | 21.5 | 49 E | 18* | 42* |
| 10 3 | 15 30.64 | −12 28.9 | 2.704 | 2.103 | 19.3 | 21.5 | 44 E | 16* | 37* |
| 10 13 | 15 50.00 | −13 51.5 | 2.741 | 2.066 | 17.8 | 21.4 | 39 E | 15* | 32* |
| 10 23 | 16 10.52 | −15 7.9 | 2.770 | 2.029 | 16.1 | 21.3 | 34 E | 14* | 27* |
| 11 2 | 16 32.19 | −16 16.3 | 2.791 | 1.993 | 14.4 | 21.2 | 30 E | 12* | 22* |
| 11 12 | 16 54.95 | −17 14.9 | 2.804 | 1.956 | 12.5 | 21.1 | 25 E | 11* | 17* |
| 11 22 | 17 18.76 | −18 2.0 | 2.808 | 1.921 | 10.7 | 21.0 | 21 E | 9* | 12* |
| 12 2 | 17 43.53 | −18 35.8 | 2.806 | 1.886 | 8.8 | 20.9 | 17 E | 7* | 7* |
| 12 12 | 18 9.18 | −18 54.9 | 2.797 | 1.852 | 6.9 | 20.8 | 13 E | 5* | 3* |
| 12 22 | 18 35.58 | −18 57.9 | 2.782 | 1.819 | 5.1 | 20.6 | 9 E | 3* | — |
| 1 1 | 19 2.61 | −18 43.9 | 2.762 | 1.787 | 3.3 | 20.5 | 6 E | — | — |
| 1 11 | 19 30.13 | −18 12.4 | 2.737 | 1.757 | 2.1 | 20.4 | 4 E | — | — |
| 1 21 | 19 57.98 | −17 23.1 | 2.709 | 1.729 | 2.3 | 20.3 | 4 W | — | — |

**489486** 2007 $GS_{3}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 9 23 | 15 38.22 | − 5 25.7 | 1.019 | 0.932 | 61.7 | 21.5 | 55 E | 26* | 45* |
| 10 3 | 16 21.78 | − 7 4.4 | 0.994 | 0.941 | 62.2 | 21.5 | 56 E | 28* | 46* |
| 10 13 | 17 6.56 | − 8 31.8 | 0.973 | 0.955 | 62.3 | 21.5 | 58 E | 29* | 47* |
| 10 23 | 17 52.38 | − 9 43.0 | 0.960 | 0.971 | 62.0 | 21.5 | 60 E | 30* | 47* |
| 11 2 | 18 38.91 | −10 33.2 | 0.955 | 0.990 | 61.3 | 21.5 | 61 E | 31* | 48* |
| 11 12 | 19 25.65 | −10 57.9 | 0.959 | 1.011 | 60.3 | 21.5 | 62 E | 32* | 48* |

**493045** 2014 $SA_{263}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 9 23 | 15 41.98 | −31 6.5 | 1.981 | 1.735 | 30.4 | 21.5 | 61 E | 4* | 54* |
| 10 3 | 16 8.90 | −31 45.0 | 2.022 | 1.702 | 29.6 | 21.5 | 57 E | 5* | 50* |
| 10 13 | 16 37.59 | −32 9.9 | 2.060 | 1.671 | 28.7 | 21.4 | 53 E | 5* | 47* |
| 10 23 | 17 7.78 | −32 17.1 | 2.095 | 1.643 | 27.6 | 21.4 | 50 E | 5* | 44* |
| 11 2 | 17 39.16 | −32 2.9 | 2.129 | 1.618 | 26.5 | 21.4 | 47 E | 6* | 41* |
| 11 12 | 18 11.38 | −31 24.7 | 2.161 | 1.596 | 25.3 | 21.4 | 44 E | 7* | 37* |
| 11 22 | 18 43.98 | −30 20.6 | 2.193 | 1.578 | 24.0 | 21.3 | 41 E | 8* | 34* |
| 12 2 | 19 16.56 | −28 50.1 | 2.225 | 1.564 | 22.6 | 21.3 | 38 E | 10* | 31* |
| 12 12 | 19 48.76 | −26 54.0 | 2.259 | 1.554 | 21.2 | 21.3 | 35 E | 11* | 27* |
| 12 22 | 20 20.27 | −24 34.3 | 2.294 | 1.549 | 19.6 | 21.2 | 32 E | 12* | 23* |
| 1 1 | 20 50.89 | −21 53.7 | 2.330 | 1.548 | 18.0 | 21.2 | 29 E | 12* | 20* |
| 1 11 | 21 20.52 | −18 55.6 | 2.369 | 1.551 | 16.4 | 21.2 | 26 E | 13* | 16* |
| 1 21 | 21 49.12 | −15 43.8 | 2.409 | 1.558 | 14.7 | 21.2 | 24 E | 12* | 13* |

**504034** 2005 $UJ_{159}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 20.48 | −36 36.5 | 5.242 | 6.025 | 6.4 | 25.6 | 138 W | 8 | 79 |
| 10 13 | 1 13.13 | −37 3.5 | 5.263 | 6.014 | 6.7 | 25.6 | 135 W | 8 | 79 |
| 10 23 | 1 5.81 | −37 14.9 | 5.309 | 6.001 | 7.3 | 25.6 | 130 E | 8 | 79 |
| 11 2 | 0 58.93 | −37 10.6 | 5.376 | 5.989 | 7.9 | 25.7 | 124 E | 8 | 79 |
| 11 12 | 0 52.85 | −36 51.0 | 5.462 | 5.975 | 8.5 | 25.8 | 117 E | 8 | 79 |

**230979** 2005 $AT_{42}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 24.49 | − 1 9.5 | 3.475 | 4.455 | 2.9 | 22.8 | 167 W | 44 | 65 |
| 10 13 | 1 17.31 | − 2 2.1 | 3.485 | 4.472 | 2.2 | 22.7 | 170 W | 43 | 66 |
| 10 23 | 1 10.20 | − 2 49.1 | 3.527 | 4.487 | 3.8 | 22.8 | 163 E | 42 | 67 |
| 11 2 | 1 3.62 | − 3 27.5 | 3.599 | 4.501 | 5.9 | 23.0 | 152 E | 42 | 67 |
| 11 12 | 0 57.98 | − 3 55.6 | 3.699 | 4.515 | 7.9 | 23.2 | 141 E | 41 | 68 |

**437965** 2003 $AL_{73}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 24.70 | +12 45.1 | 3.261 | 4.235 | 3.5 | 25.4 | 165 W | 58 | 51 |
| 10 13 | 1 16.55 | +11 50.0 | 3.226 | 4.222 | 1.0 | 25.2 | 176 W | 57 | 52 |
| 10 23 | 1 8.33 | +10 51.2 | 3.225 | 4.208 | 2.4 | 25.3 | 170 E | 56 | 53 |
| 11 2 | 1 0.60 | + 9 52.5 | 3.255 | 4.192 | 5.1 | 25.5 | 158 E | 55 | 54 |
| 11 12 | 0 53.88 | + 8 57.7 | 3.316 | 4.176 | 7.6 | 25.7 | 146 E | 54 | 55 |

**524369** 2001 $YB_{4}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 27.92 | −32 43.8 | 2.628 | 3.466 | 10.4 | 22.7 | 141 W | 12 | 83 |
| 10 8 | 1 23.02 | −33 3.4 | 2.628 | 3.458 | 10.6 | 22.7 | 141 W | 12 | 83 |
| 10 13 | 1 18.01 | −33 16.2 | 2.634 | 3.450 | 10.9 | 22.7 | 139 W | 12 | 83 |
| 10 18 | 1 13.00 | −33 22.0 | 2.645 | 3.441 | 11.4 | 22.7 | 137 E | 12 | 83 |
| 10 23 | 1 8.10 | −33 20.7 | 2.663 | 3.432 | 12.0 | 22.7 | 134 E | 12 | 83 |
| 10 28 | 1 3.41 | −33 12.2 | 2.686 | 3.423 | 12.6 | 22.8 | 131 E | 12 | 83 |
| 11 2 | 0 59.03 | −32 56.9 | 2.714 | 3.414 | 13.3 | 22.8 | 128 E | 12 | 83 |

**455311** 2002 $GO_{4}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 28.55 | +11 37.1 | 2.181 | 3.158 | 4.8 | 23.2 | 165 W | 57 | 52 |
| 10 13 | 1 19.17 | +10 45.2 | 2.159 | 3.155 | 1.1 | 22.9 | 176 W | 56 | 53 |
| 10 23 | 1 9.71 | + 9 49.5 | 2.167 | 3.151 | 3.1 | 23.1 | 170 E | 55 | 54 |
| 11 2 | 1 1.00 | + 8 55.4 | 2.205 | 3.147 | 6.8 | 23.3 | 158 E | 54 | 55 |
| 11 12 | 0 53.80 | + 8 7.9 | 2.271 | 3.141 | 10.2 | 23.5 | 146 E | 53 | 56 |

**475967** 2007 $JF_{22}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 29.58 | −10 22.0 | 3.557 | 4.512 | 4.3 | 22.6 | 160 W | 35 | 74 |
| 10 13 | 1 21.77 | −10 51.8 | 3.532 | 4.488 | 4.1 | 22.6 | 161 W | 34 | 75 |
| 10 23 | 1 13.82 | −11 11.9 | 3.537 | 4.464 | 5.2 | 22.6 | 156 E | 34 | 75 |
| 11 2 | 1 6.24 | −11 20.3 | 3.573 | 4.438 | 7.0 | 22.7 | 147 E | 34 | 75 |
| 11 12 | 0 59.50 | −11 15.9 | 3.635 | 4.412 | 8.8 | 22.8 | 137 E | 34 | 75 |

**247360** 2001 $XU$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 30.29 | +31 52.4 | 2.869 | 3.763 | 7.8 | 25.0 | 149 W | 77 | 32 |
| 10 8 | 1 24.83 | +31 32.9 | 2.818 | 3.738 | 6.9 | 24.9 | 153 W | 77 | 32 |
| 10 13 | 1 19.14 | +31 7.9 | 2.775 | 3.712 | 6.2 | 24.8 | 156 W | 76 | 33 |
| 10 18 | 1 13.33 | +30 37.5 | 2.740 | 3.685 | 5.7 | 24.8 | 158 E | 76 | 33 |
| 10 23 | 1 7.51 | +30 2.2 | 2.712 | 3.658 | 5.6 | 24.7 | 159 E | 75 | 34 |
| 10 28 | 1 1.78 | +29 22.4 | 2.693 | 3.630 | 6.0 | 24.7 | 157 E | 74 | 35 |
| 11 2 | 0 56.27 | +28 38.8 | 2.681 | 3.602 | 6.8 | 24.7 | 155 E | 74 | 35 |

**349925** 2009 $WC_{26}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 1 33.08 | +10 20.2 | 2.648 | 3.621 | 4.3 | 22.6 | 164 W | 55 | 54 |
| 10 13 | 1 23.51 | + 9 9.7 | 2.610 | 3.607 | 0.9 | 22.3 | 177 W | 54 | 55 |
| 10 23 | 1 13.74 | + 7 56.2 | 2.605 | 3.590 | 2.6 | 22.4 | 171 E | 53 | 56 |
| 11 2 | 1 4.50 | + 6 44.8 | 2.633 | 3.572 | 6.0 | 22.6 | 158 E | 52 | 57 |
| 11 12 | 0 56.46 | + 5 40.5 | 2.691 | 3.553 | 9.0 | 22.8 | 146 E | 51 | 58 |

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| **481032** 2004 $YZ_{23}$ | | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 1 35.86 | +59 11.9 | 4.943 | 5.558 | 8.6 | 22.9 | 123 W | 76 | 5 |
| 10 8 | 1 30.60 | +59 3.5 | 4.900 | 5.550 | 8.3 | 22.9 | 126 W | 76 | 5 |
| 10 13 | 1 25.19 | +58 50.0 | 4.863 | 5.542 | 8.1 | 22.8 | 129 W | 76 | 5 |
| 10 18 | 1 19.76 | +58 31.4 | 4.830 | 5.535 | 7.8 | 22.8 | 131 E | 76 | 5 |
| 10 23 | 1 14.41 | +58 7.7 | 4.803 | 5.526 | 7.6 | 22.8 | 133 E | 77 | 6 |
| 10 28 | 1 9.23 | +57 39.2 | 4.782 | 5.518 | 7.4 | 22.7 | 134 E | 77 | 6 |
| 11 2 | 1 4.31 | +57 6.0 | 4.767 | 5.510 | 7.4 | 22.7 | 135 E | 78 | 7 |
| **523662** 2012 $MU_2$ | | | | | | | | | |
| 10 3 | 1 38.08 | +28 34.1 | 0.963 | 1.902 | 14.7 | 22.9 | 151 W | 74 | 35 |
| 10 8 | 1 30.42 | +27 27.9 | 0.976 | 1.935 | 11.8 | 22.9 | 157 W | 72 | 37 |
| 10 13 | 1 22.92 | +26 14.3 | 0.996 | 1.967 | 9.4 | 22.9 | 161 W | 71 | 38 |
| 10 18 | 1 15.83 | +24 55.8 | 1.022 | 1.999 | 7.8 | 22.9 | 164 E | 70 | 39 |
| 10 23 | 1 9.39 | +23 34.9 | 1.054 | 2.030 | 7.6 | 23.0 | 164 E | 69 | 40 |
| 10 28 | 1 3.74 | +22 14.2 | 1.093 | 2.061 | 8.6 | 23.2 | 162 E | 67 | 42 |
| 11 2 | 0 59.00 | +20 56.0 | 1.139 | 2.092 | 10.3 | 23.3 | 158 E | 66 | 43 |
| **417874** 2007 $NC_5$ | | | | | | | | | |
| 10 3 | 1 40.38 | − 4 58.0 | 2.835 | 3.798 | 4.8 | 23.7 | 162 W | 40 | 69 |
| 10 8 | 1 35.45 | − 5 39.2 | 2.800 | 3.773 | 4.0 | 23.6 | 165 W | 39 | 70 |
| 10 13 | 1 30.30 | − 6 19.4 | 2.774 | 3.748 | 3.9 | 23.5 | 165 W | 39 | 70 |
| 10 18 | 1 25.01 | − 6 57.9 | 2.756 | 3.722 | 4.4 | 23.5 | 163 E | 38 | 71 |
| 10 23 | 1 19.66 | − 7 33.9 | 2.747 | 3.696 | 5.4 | 23.6 | 160 E | 37 | 72 |
| 10 28 | 1 14.36 | − 8 6.9 | 2.745 | 3.669 | 6.6 | 23.6 | 155 E | 37 | 72 |
| 11 2 | 1 9.19 | − 8 36.3 | 2.752 | 3.642 | 7.9 | 23.7 | 150 E | 36 | 73 |
| **495930** 2006 $AR_2$ | | | | | | | | | |
| 10 3 | 1 41.95 | +60 17.2 | 1.399 | 2.110 | 23.7 | 23.3 | 122 W | 75 | 4 |
| 10 8 | 1 30.67 | +60 20.1 | 1.370 | 2.108 | 22.8 | 23.2 | 125 W | 75 | 4 |
| 10 13 | 1 18.64 | +60 5.5 | 1.344 | 2.106 | 22.1 | 23.1 | 128 W | 75 | 4 |
| 10 18 | 1 6.42 | +59 32.5 | 1.322 | 2.104 | 21.4 | 23.1 | 130 E | 75 | 4 |
| 10 23 | 0 54.59 | +58 41.0 | 1.305 | 2.100 | 20.8 | 23.0 | 131 E | 76 | 5 |
| 10 28 | 0 43.66 | +57 31.8 | 1.292 | 2.096 | 20.4 | 23.0 | 133 E | 77 | 6 |
| 11 2 | 0 34.06 | +56 6.8 | 1.284 | 2.092 | 20.3 | 23.0 | 133 E | 79 | 8 |
| **459156** 2012 $CY_{54}$ | | | | | | | | | |
| 10 3 | 1 46.73 | + 6 25.4 | 2.269 | 3.236 | 5.4 | 22.5 | 162 W | 51 | 58 |
| 10 13 | 1 38.07 | + 5 24.0 | 2.261 | 3.254 | 2.1 | 22.3 | 173 W | 50 | 59 |
| 10 23 | 1 29.18 | + 4 24.2 | 2.283 | 3.271 | 2.6 | 22.3 | 171 E | 49 | 60 |
| 11 2 | 1 20.85 | + 3 31.2 | 2.336 | 3.286 | 5.9 | 22.6 | 160 E | 49 | 60 |
| 11 12 | 1 13.76 | + 2 48.9 | 2.418 | 3.301 | 9.1 | 22.8 | 148 E | 48 | 61 |
| **508871** 2003 $CN_{17}$ | | | | | | | | | |
| 10 3 | 1 50.74 | +56 30.2 | 1.932 | 2.640 | 18.0 | 23.4 | 125 W | 78 | 7 |
| 10 8 | 1 40.35 | +56 51.3 | 1.916 | 2.652 | 17.2 | 23.3 | 128 W | 78 | 7 |
| 10 13 | 1 29.37 | +56 59.6 | 1.905 | 2.664 | 16.5 | 23.3 | 131 W | 78 | 7 |
| 10 18 | 1 18.16 | +56 54.6 | 1.899 | 2.676 | 15.9 | 23.3 | 133 E | 78 | 7 |
| 10 23 | 1 7.12 | +56 36.5 | 1.899 | 2.687 | 15.5 | 23.3 | 134 E | 78 | 7 |
| 10 28 | 0 56.62 | +56 6.1 | 1.904 | 2.697 | 15.2 | 23.3 | 135 E | 79 | 8 |
| 11 2 | 0 46.97 | +55 24.6 | 1.915 | 2.707 | 15.1 | 23.3 | 135 E | 80 | 9 |
| **399774** 2005 $NB_7$ | | | | | | | | | |
| 10 3 | 1 55.96 | +10 15.9 | 2.015 | 2.971 | 6.9 | 23.1 | 159 W | 55 | 54 |
| 10 13 | 1 46.12 | + 8 49.9 | 1.959 | 2.949 | 2.8 | 22.8 | 172 W | 54 | 55 |
| 10 23 | 1 35.46 | + 7 18.5 | 1.934 | 2.926 | 1.8 | 22.7 | 175 E | 52 | 57 |
| 11 2 | 1 24.97 | + 5 48.8 | 1.941 | 2.901 | 6.0 | 22.9 | 162 E | 51 | 58 |
| 11 12 | 1 15.66 | + 4 28.4 | 1.978 | 2.875 | 10.1 | 23.1 | 149 E | 49 | 60 |
| **496174** 2011 $CQ_4$ | | | | | | | | | |
| 10 3 | 1 57.17 | −24 6.8 | 2.029 | 2.911 | 11.2 | 22.9 | 146 W | 21 | 88 |
| 10 8 | 1 51.35 | −24 45.0 | 2.009 | 2.895 | 11.0 | 22.9 | 146 W | 20 | 89 |
| 10 13 | 1 45.15 | −25 16.8 | 1.997 | 2.879 | 11.1 | 22.9 | 146 W | 20 | 89 |
| 10 18 | 1 38.73 | −25 41.2 | 1.991 | 2.863 | 11.6 | 22.9 | 145 W | 19 | 90 |
| 10 23 | 1 32.22 | −25 57.6 | 1.991 | 2.846 | 12.3 | 22.9 | 143 E | 19 | 90 |
| 10 28 | 1 25.78 | −26 5.4 | 1.998 | 2.828 | 13.2 | 22.9 | 140 E | 19 | 90 |
| 11 2 | 1 19.56 | −26 4.6 | 2.011 | 2.810 | 14.2 | 23.0 | 136 E | 19 | 90 |
| 11 7 | 1 13.70 | −25 55.0 | 2.029 | 2.792 | 15.3 | 23.0 | 132 E | 19 | 90 |
| **284422** 2006 $YD$ | | | | | | | | | |
| 10 3 | 2 4.89 | +15 17.7 | 3.446 | 4.375 | 5.5 | 23.7 | 155 W | 60 | 49 |
| 10 13 | 1 57.23 | +14 32.8 | 3.409 | 4.387 | 2.9 | 23.6 | 167 W | 60 | 49 |
| 10 23 | 1 49.14 | +13 42.9 | 3.403 | 4.397 | 0.5 | 23.4 | 178 E | 59 | 50 |
| 11 2 | 1 41.16 | +12 51.1 | 3.430 | 4.406 | 2.6 | 23.6 | 168 E | 58 | 51 |
| 11 12 | 1 33.83 | +12 0.9 | 3.489 | 4.414 | 5.1 | 23.8 | 157 E | 57 | 52 |
| **482055** 2010 $AH_{30}$ | | | | | | | | | |
| 10 3 | 2 11.28 | −54 0.6 | 2.216 | 2.837 | 18.0 | 23.3 | 119 W | — | 62 |
| 10 8 | 2 3.41 | −54 22.7 | 2.249 | 2.860 | 17.9 | 23.4 | 118 W | — | 62 |
| 10 13 | 1 55.31 | −54 33.2 | 2.286 | 2.882 | 17.9 | 23.4 | 117 W | — | 61 |
| 10 18 | 1 47.23 | −54 32.1 | 2.327 | 2.903 | 18.0 | 23.5 | 116 W | — | 61 |
| 10 23 | 1 39.41 | −54 20.0 | 2.371 | 2.925 | 18.1 | 23.5 | 114 E | — | 62 |

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| **482055** 2010 $AH_{30}$ *(continuation)* | | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 28 | 1 32.03 | −53 57.2 | 2.418 | 2.946 | 18.1 | 23.6 | 113 E | — | 62 |
| 11 2 | 1 25.26 | −53 24.8 | 2.468 | 2.966 | 18.2 | 23.7 | 111 E | — | 63 |
| 11 7 | 1 19.24 | −52 43.5 | 2.521 | 2.986 | 18.3 | 23.7 | 108 E | — | 63 |
| **492429** 2014 $MX_{14}$ | | | | | | | | | |
| 10 3 | 2 11.96 | − 0 1.8 | 1.358 | 2.307 | 10.3 | 21.6 | 156 W | 45 | 64 |
| 10 8 | 2 7.13 | − 0 37.2 | 1.356 | 2.323 | 8.2 | 21.6 | 161 W | 44 | 65 |
| 10 13 | 2 1.94 | − 1 10.6 | 1.360 | 2.338 | 6.4 | 21.5 | 165 W | 44 | 65 |
| 10 18 | 1 56.57 | − 1 40.9 | 1.371 | 2.353 | 5.4 | 21.5 | 167 W | 43 | 66 |
| 10 23 | 1 51.19 | − 2 7.2 | 1.389 | 2.368 | 5.6 | 21.5 | 167 W | 43 | 66 |
| 10 28 | 1 45.95 | − 2 28.9 | 1.413 | 2.383 | 6.8 | 21.6 | 163 E | 43 | 66 |
| 11 2 | 1 41.02 | − 2 45.2 | 1.444 | 2.397 | 8.5 | 21.8 | 159 E | 42 | 67 |
| 11 7 | 1 36.52 | − 2 55.9 | 1.481 | 2.411 | 10.4 | 21.9 | 154 E | 42 | 67 |
| 11 12 | 1 32.58 | − 3 0.8 | 1.525 | 2.426 | 12.3 | 22.1 | 149 E | 42 | 67 |
| 11 17 | 1 29.26 | − 3 0.0 | 1.574 | 2.439 | 14.0 | 22.2 | 143 E | 42 | 67 |
| 11 22 | 1 26.63 | − 2 53.7 | 1.628 | 2.453 | 15.6 | 22.4 | 138 E | 42 | 67 |
| **469441** 2002 $GP_{126}$ | | | | | | | | | |
| 10 3 | 2 12.03 | +16 3.0 | 1.799 | 2.731 | 9.5 | 22.3 | 153 W | 61 | 48 |
| 10 13 | 2 1.88 | +15 31.8 | 1.802 | 2.779 | 5.1 | 22.1 | 166 W | 61 | 48 |
| 10 23 | 1 51.20 | +14 52.6 | 1.833 | 2.827 | 1.3 | 22.0 | 176 W | 60 | 49 |
| 11 2 | 1 41.08 | +14 10.3 | 1.894 | 2.874 | 3.9 | 22.2 | 169 E | 59 | 50 |
| 11 12 | 1 32.47 | +13 30.5 | 1.985 | 2.920 | 7.7 | 22.6 | 157 E | 59 | 50 |
| **153349** 2001 $PJ_9$ | | | | | | | | | |
| 10 3 | 2 14.77 | +28 54.7 | 2.052 | 2.933 | 11.1 | 23.1 | 146 W | 74 | 35 |
| 10 8 | 2 8.77 | +28 37.9 | 2.022 | 2.937 | 9.5 | 23.0 | 151 W | 74 | 35 |
| 10 13 | 2 2.36 | +28 15.2 | 1.999 | 2.940 | 7.9 | 22.9 | 156 W | 73 | 36 |
| 10 18 | 1 55.68 | +27 46.7 | 1.983 | 2.943 | 6.4 | 22.8 | 161 W | 73 | 36 |
| 10 23 | 1 48.89 | +27 12.7 | 1.975 | 2.945 | 5.3 | 22.8 | 164 E | 72 | 37 |
| 10 28 | 1 42.14 | +26 34.0 | 1.975 | 2.947 | 5.0 | 22.7 | 165 E | 72 | 37 |
| 11 2 | 1 35.61 | +25 51.4 | 1.983 | 2.948 | 5.5 | 22.8 | 163 E | 71 | 38 |
| 11 7 | 1 29.43 | +25 5.9 | 1.999 | 2.948 | 6.7 | 22.9 | 160 E | 70 | 39 |
| **513358** 2008 $CA_5$ | | | | | | | | | |
| 10 3 | 2 14.78 | +48 56.2 | 1.756 | 2.520 | 17.7 | 24.0 | 130 W | 86 | 15 |
| 10 8 | 2 5.54 | +49 11.3 | 1.744 | 2.542 | 16.4 | 23.9 | 134 W | 86 | 15 |
| 10 13 | 1 55.72 | +49 14.6 | 1.739 | 2.564 | 15.3 | 23.9 | 137 W | 86 | 15 |
| 10 18 | 1 45.64 | +49 5.7 | 1.739 | 2.585 | 14.3 | 23.9 | 140 W | 86 | 15 |
| 10 23 | 1 35.61 | +48 44.8 | 1.745 | 2.605 | 13.5 | 23.9 | 142 E | 86 | 15 |
| 10 28 | 1 25.93 | +48 12.7 | 1.758 | 2.625 | 13.0 | 23.9 | 144 E | 87 | 16 |
| 11 2 | 1 16.90 | +47 30.6 | 1.777 | 2.644 | 12.8 | 23.9 | 144 E | 87 | 16 |
| 11 7 | 1 8.73 | +46 40.2 | 1.802 | 2.663 | 12.9 | 24.0 | 143 E | 88 | 17 |
| **448628** 2010 $VF_1$ | | | | | | | | | |
| 10 3 | 2 16.33 | +23 4.9 | 1.032 | 1.959 | 15.3 | 22.8 | 149 W | 68 | 41 |
| 10 8 | 2 7.59 | +21 51.5 | 0.987 | 1.943 | 12.1 | 22.5 | 156 W | 67 | 42 |
| 10 13 | 1 57.74 | +20 23.6 | 0.949 | 1.926 | 8.6 | 22.3 | 163 W | 65 | 44 |
| 10 18 | 1 47.04 | +18 41.7 | 0.919 | 1.908 | 5.2 | 22.0 | 170 W | 64 | 45 |
| 10 23 | 1 35.84 | +16 47.5 | 0.896 | 1.888 | 3.4 | 21.9 | 174 E | 62 | 47 |
| 10 28 | 1 24.51 | +14 43.9 | 0.882 | 1.867 | 5.8 | 21.9 | 169 E | 60 | 49 |
| 11 2 | 1 13.45 | +12 34.7 | 0.876 | 1.845 | 9.7 | 22.1 | 162 E | 58 | 51 |
| 11 7 | 1 3.06 | +10 24.6 | 0.879 | 1.821 | 13.9 | 22.2 | 154 E | 55 | 54 |
| 11 12 | 0 53.66 | + 8 18.1 | 0.889 | 1.797 | 18.0 | 22.3 | 146 E | 53 | 56 |
| 11 17 | 0 45.48 | + 6 19.0 | 0.905 | 1.770 | 21.8 | 22.5 | 138 E | 51 | 58 |
| **357319** 2003 $GR_8$ | | | | | | | | | |
| 10 3 | 2 17.34 | +16 11.2 | 2.020 | 2.942 | 9.1 | 21.9 | 152 W | 61 | 48 |
| 10 13 | 2 7.95 | +15 43.6 | 1.975 | 2.947 | 5.3 | 21.7 | 164 W | 61 | 48 |
| 10 23 | 1 57.51 | +15 6.9 | 1.959 | 2.952 | 1.4 | 21.4 | 176 W | 60 | 49 |
| 11 2 | 1 47.00 | +14 25.1 | 1.972 | 2.955 | 3.3 | 21.6 | 170 E | 59 | 50 |
| 11 12 | 1 37.43 | +13 43.2 | 2.017 | 2.957 | 7.3 | 21.8 | 158 E | 59 | 50 |
| 11 22 | 1 29.66 | +13 6.6 | 2.088 | 2.958 | 10.8 | 22.0 | 146 E | 58 | 51 |
| **503369** 2016 $CQ_{23}$ | | | | | | | | | |
| 10 3 | 2 19.80 | +48 19.2 | 2.158 | 2.907 | 15.2 | 21.9 | 130 W | 87 | 16 |
| 10 8 | 2 14.12 | +48 36.3 | 2.128 | 2.912 | 14.3 | 21.9 | 134 W | 86 | 15 |
| 10 13 | 2 7.85 | +48 45.2 | 2.104 | 2.916 | 13.4 | 21.8 | 137 W | 86 | 15 |
| 10 18 | 2 1.14 | +48 45.5 | 2.084 | 2.920 | 12.6 | 21.8 | 140 W | 86 | 15 |
| 10 23 | 1 54.19 | +48 36.9 | 2.070 | 2.924 | 11.9 | 21.7 | 143 W | 86 | 15 |
| 10 28 | 1 47.21 | +48 19.4 | 2.062 | 2.928 | 11.4 | 21.7 | 144 E | 87 | 16 |
| 11 2 | 1 40.39 | +47 53.3 | 2.060 | 2.931 | 11.1 | 21.7 | 145 E | 87 | 16 |
| 11 7 | 1 33.95 | +47 19.4 | 2.065 | 2.934 | 11.1 | 21.7 | 145 E | 88 | 17 |
| 11 12 | 1 28.07 | +46 38.7 | 2.076 | 2.937 | 11.3 | 21.7 | 144 E | 88 | 17 |
| 11 17 | 1 22.88 | +45 52.6 | 2.093 | 2.940 | 11.8 | 21.8 | 143 E | 89 | 18 |
| 11 22 | 1 18.48 | +45 2.5 | 2.116 | 2.943 | 12.4 | 21.8 | 140 E | 90 | 19 |
| **386281** 2008 $RJ_1$ | | | | | | | | | |
| 10 3 | 2 21.29 | + 7 17.5 | 1.709 | 2.642 | 9.7 | 21.8 | 154 W | 52 | 57 |
| 10 8 | 2 16.45 | + 6 23.4 | 1.703 | 2.662 | 7.6 | 21.7 | 159 W | 51 | 58 |
| 10 13 | 2 11.29 | + 5 28.9 | 1.705 | 2.681 | 5.5 | 21.6 | 165 W | 50 | 59 |
| 10 18 | 2 5.94 | + 4 35.3 | 1.714 | 2.701 | 3.7 | 21.6 | 170 W | 50 | 59 |

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | **386281** 2008 $RJ_1$ | | | | *(continuation)* | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 23 | 2 0.55 | + 3 43.5 | 1.730 | 2.719 | 2.9 | 21.6 | 172 W | 49 | 60 |
| 10 28 | 1 55.24 | + 2 54.6 | 1.755 | 2.737 | 3.8 | 21.7 | 169 E | 48 | 61 |
| 11 2 | 1 50.16 | + 2 9.5 | 1.787 | 2.755 | 5.6 | 21.8 | 164 E | 47 | 62 |
| 11 7 | 1 45.43 | + 1 29.1 | 1.826 | 2.773 | 7.5 | 22.0 | 159 E | 46 | 63 |
| 11 12 | 1 41.15 | + 0 53.8 | 1.872 | 2.790 | 9.3 | 22.1 | 153 E | 46 | 63 |
| 11 17 | 1 37.39 | + 0 24.1 | 1.925 | 2.807 | 11.1 | 22.3 | 147 E | 45 | 64 |
| 11 22 | 1 34.22 | + 0 0.0 | 1.984 | 2.823 | 12.6 | 22.4 | 141 E | 45 | 64 |
| | | **439999** 2002 $CX_{11}$ | | | | | | | |
| 10 3 | 2 24.79 | + 0 46.8 | 2.699 | 3.617 | 7.3 | 22.4 | 153 W | 46 | 63 |
| 10 13 | 2 17.84 | − 0 23.9 | 2.638 | 3.600 | 5.0 | 22.2 | 162 W | 45 | 64 |
| 10 23 | 2 9.93 | − 1 31.7 | 2.608 | 3.582 | 3.8 | 22.1 | 166 W | 43 | 66 |
| 11 2 | 2 1.70 | − 2 31.7 | 2.607 | 3.563 | 5.0 | 22.2 | 162 E | 42 | 67 |
| 11 12 | 1 53.83 | − 3 19.5 | 2.637 | 3.543 | 7.5 | 22.3 | 152 E | 42 | 67 |
| 11 22 | 1 46.98 | − 3 52.2 | 2.695 | 3.522 | 10.0 | 22.4 | 142 E | 41 | 68 |
| | | **366387** 2001 $CT_{20}$ | | | | | | | |
| 10 3 | 2 26.40 | −23 17.6 | 3.001 | 3.837 | 9.3 | 21.9 | 142 W | 22 | 87 |
| 10 8 | 2 23.03 | −23 52.3 | 2.972 | 3.819 | 9.0 | 21.9 | 143 W | 21 | 88 |
| 10 13 | 2 19.34 | −24 23.4 | 2.949 | 3.802 | 8.9 | 21.8 | 144 W | 21 | 88 |
| 10 18 | 2 15.39 | −24 50.0 | 2.933 | 3.784 | 8.9 | 21.8 | 144 W | 20 | 89 |
| 10 23 | 2 11.27 | −25 11.8 | 2.923 | 3.766 | 9.1 | 21.8 | 143 W | 20 | 89 |
| 10 28 | 2 7.04 | −25 28.1 | 2.919 | 3.748 | 9.5 | 21.8 | 142 E | 20 | 89 |
| 11 2 | 2 2.80 | −25 38.5 | 2.922 | 3.730 | 10.0 | 21.8 | 139 E | 19 | 90 |
| 11 7 | 1 58.63 | −25 43.0 | 2.930 | 3.711 | 10.6 | 21.9 | 136 E | 19 | 90 |
| 11 12 | 1 54.62 | −25 41.2 | 2.945 | 3.693 | 11.3 | 21.9 | 133 E | 19 | 90 |
| 11 17 | 1 50.87 | −25 33.4 | 2.964 | 3.674 | 12.0 | 21.9 | 130 E | 19 | 90 |
| 11 22 | 1 47.42 | −25 19.7 | 2.989 | 3.655 | 12.7 | 21.9 | 126 E | 20 | 89 |
| | | **476904** 2008 $WK_{32}$ | | | | | | | |
| 10 3 | 2 33.82 | − 4 26.1 | 0.994 | 1.924 | 15.4 | 21.5 | 149 W | 41 | 68 |
| 10 8 | 2 26.09 | − 4 53.7 | 0.971 | 1.923 | 12.9 | 21.3 | 155 W | 40 | 69 |
| 10 13 | 2 17.42 | − 5 18.0 | 0.955 | 1.920 | 10.6 | 21.2 | 159 W | 40 | 69 |
| 10 18 | 2 8.07 | − 5 37.2 | 0.944 | 1.917 | 9.1 | 21.1 | 162 W | 39 | 70 |
| 10 23 | 1 58.33 | − 5 50.1 | 0.941 | 1.914 | 8.9 | 21.1 | 163 W | 39 | 70 |
| 10 28 | 1 48.52 | − 5 55.6 | 0.944 | 1.909 | 10.1 | 21.1 | 160 E | 39 | 70 |
| 11 2 | 1 38.97 | − 5 52.9 | 0.954 | 1.904 | 12.2 | 21.2 | 156 E | 39 | 70 |
| 11 7 | 1 29.99 | − 5 41.7 | 0.970 | 1.898 | 14.8 | 21.4 | 151 E | 39 | 70 |
| 11 12 | 1 21.86 | − 5 22.2 | 0.992 | 1.891 | 17.4 | 21.5 | 145 E | 40 | 69 |
| 11 17 | 1 14.77 | − 4 55.0 | 1.020 | 1.884 | 20.0 | 21.6 | 139 E | 40 | 69 |
| 11 22 | 1 8.83 | − 4 20.9 | 1.052 | 1.875 | 22.4 | 21.8 | 134 E | 41 | 68 |
| | | **465616** 2009 $EC$ | | | | | | | |
| 10 3 | 2 35.75 | +10 5.1 | 1.070 | 1.998 | 14.7 | 21.3 | 150 W | 55 | 54 |
| 10 8 | 2 25.05 | +10 58.0 | 1.060 | 2.018 | 11.2 | 21.1 | 157 W | 56 | 53 |
| 10 13 | 2 13.61 | +11 48.4 | 1.058 | 2.036 | 7.6 | 21.0 | 164 W | 57 | 52 |
| 10 18 | 2 1.76 | +12 35.5 | 1.064 | 2.055 | 4.0 | 20.9 | 172 W | 58 | 51 |
| 10 23 | 1 49.89 | +13 18.7 | 1.078 | 2.073 | 1.0 | 20.7 | 178 W | 58 | 51 |
| 10 28 | 1 38.34 | +13 57.7 | 1.101 | 2.090 | 3.5 | 20.9 | 173 E | 59 | 50 |
| 11 2 | 1 27.47 | +14 32.6 | 1.132 | 2.107 | 6.9 | 21.2 | 165 E | 60 | 49 |
| 11 7 | 1 17.55 | +15 4.0 | 1.172 | 2.124 | 10.0 | 21.4 | 158 E | 60 | 49 |
| 11 12 | 1 8.78 | +15 32.5 | 1.218 | 2.140 | 12.8 | 21.6 | 151 E | 61 | 48 |
| 11 17 | 1 1.27 | +15 59.0 | 1.271 | 2.156 | 15.3 | 21.8 | 145 E | 61 | 48 |
| 11 22 | 0 55.05 | +16 24.4 | 1.330 | 2.171 | 17.5 | 22.0 | 139 E | 61 | 48 |
| | | **457261** 2008 $RY_{25}$ | | | | | | | |
| 10 3 | 2 45.96 | +34 50.8 | 2.189 | 2.997 | 13.2 | 21.6 | 137 W | 80 | 29 |
| 10 8 | 2 40.54 | +35 16.0 | 2.168 | 3.016 | 11.9 | 21.5 | 142 W | 80 | 29 |
| 10 13 | 2 34.56 | +35 35.6 | 2.153 | 3.034 | 10.5 | 21.4 | 146 W | 81 | 28 |
| 10 18 | 2 28.15 | +35 49.2 | 2.145 | 3.052 | 9.2 | 21.4 | 151 W | 81 | 28 |
| 10 23 | 2 21.45 | +35 56.7 | 2.143 | 3.070 | 8.1 | 21.4 | 154 W | 81 | 28 |
| 10 28 | 2 14.62 | +35 58.1 | 2.149 | 3.088 | 7.2 | 21.3 | 157 W | 81 | 28 |
| 11 2 | 2 7.83 | +35 53.4 | 2.162 | 3.105 | 6.8 | 21.3 | 158 E | 81 | 28 |
| 11 7 | 2 1.24 | +35 43.4 | 2.182 | 3.123 | 6.9 | 21.4 | 158 E | 81 | 28 |
| 11 12 | 1 55.01 | +35 28.6 | 2.210 | 3.140 | 7.4 | 21.4 | 156 E | 80 | 29 |
| 11 17 | 1 49.28 | +35 10.0 | 2.245 | 3.156 | 8.3 | 21.5 | 153 E | 80 | 29 |
| 11 22 | 1 44.14 | +34 48.7 | 2.287 | 3.173 | 9.3 | 21.6 | 149 E | 80 | 29 |
| 11 27 | 1 39.67 | +34 25.6 | 2.336 | 3.189 | 10.4 | 21.7 | 144 E | 79 | 30 |
| | | **446963** 2003 $TK$ | | | | | | | |
| 10 3 | 2 47.78 | +22 6.4 | 1.240 | 2.127 | 16.4 | 22.5 | 143 W | 67 | 42 |
| 10 8 | 2 42.19 | +21 40.7 | 1.232 | 2.153 | 13.7 | 22.4 | 149 W | 67 | 42 |
| 10 13 | 2 35.98 | +21 9.7 | 1.230 | 2.178 | 10.9 | 22.3 | 156 W | 66 | 43 |
| 10 18 | 2 29.37 | +20 33.9 | 1.234 | 2.203 | 8.0 | 22.2 | 162 W | 66 | 43 |
| 10 23 | 2 22.57 | +19 54.3 | 1.244 | 2.228 | 5.2 | 22.1 | 168 W | 65 | 44 |
| 10 28 | 2 15.79 | +19 11.8 | 1.262 | 2.252 | 2.8 | 22.1 | 174 W | 64 | 45 |
| 11 2 | 2 9.25 | +18 27.9 | 1.287 | 2.276 | 2.6 | 22.1 | 174 E | 63 | 46 |
| 11 7 | 2 3.14 | +17 43.9 | 1.319 | 2.300 | 4.7 | 22.3 | 169 E | 63 | 46 |
| 11 12 | 1 57.62 | +17 1.2 | 1.358 | 2.323 | 7.1 | 22.5 | 163 E | 62 | 47 |
| 11 17 | 1 52.83 | +16 21.1 | 1.403 | 2.345 | 9.5 | 22.7 | 157 E | 61 | 48 |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | | **508985** 2005 $EH_{70}$ | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 2 50.67 | +11 34.4 | 2.017 | 2.899 | 11.2 | 21.7 | 146 W | 57 | 52 |
| 10 13 | 2 44.56 | +10 33.8 | 1.913 | 2.859 | 7.8 | 21.4 | 157 W | 56 | 53 |
| 10 23 | 2 36.50 | + 9 24.7 | 1.836 | 2.817 | 4.1 | 21.1 | 168 W | 54 | 55 |
| 11 2 | 2 27.19 | + 8 11.8 | 1.787 | 2.775 | 2.3 | 20.9 | 174 E | 53 | 56 |
| 11 12 | 2 17.60 | + 7 1.6 | 1.768 | 2.732 | 5.8 | 21.1 | 164 E | 52 | 57 |
| 11 22 | 2 8.79 | + 6 0.7 | 1.777 | 2.688 | 10.0 | 21.2 | 152 E | 51 | 58 |
| 12 2 | 2 1.68 | + 5 14.5 | 1.812 | 2.644 | 13.9 | 21.4 | 140 E | 50 | 59 |
| | | **405427** 2004 $ST_9$ | | | | | | | |
| 10 3 | 2 54.23 | +10 57.7 | 1.795 | 2.677 | 12.4 | 22.1 | 145 W | 56 | 53 |
| 10 13 | 2 45.61 | + 9 32.8 | 1.768 | 2.714 | 8.3 | 22.0 | 157 W | 55 | 54 |
| 10 23 | 2 35.49 | + 8 4.6 | 1.768 | 2.750 | 4.2 | 21.8 | 168 W | 53 | 56 |
| 11 2 | 2 24.91 | + 6 40.1 | 1.798 | 2.785 | 2.9 | 21.8 | 172 E | 52 | 57 |
| 11 12 | 2 14.94 | + 5 26.3 | 1.859 | 2.818 | 6.2 | 22.1 | 162 E | 50 | 59 |
| 11 22 | 2 6.54 | + 4 28.6 | 1.948 | 2.850 | 9.8 | 22.4 | 150 E | 49 | 60 |
| | | **383165** 2005 $VJ_5$ | | | | | | | |
| 10 3 | 2 54.35 | +12 26.0 | 1.308 | 2.202 | 15.2 | 21.3 | 145 W | 57 | 52 |
| 10 13 | 2 47.30 | +11 31.6 | 1.223 | 2.174 | 10.6 | 21.0 | 156 W | 57 | 52 |
| 10 23 | 2 37.27 | +10 25.2 | 1.160 | 2.144 | 5.4 | 20.6 | 168 W | 55 | 54 |
| 11 2 | 2 25.30 | + 9 13.0 | 1.123 | 2.113 | 2.6 | 20.4 | 175 E | 54 | 55 |
| 11 7 | 2 19.07 | + 8 37.5 | 1.115 | 2.097 | 4.9 | 20.5 | 170 E | 54 | 55 |
| 11 12 | 2 12.97 | + 8 4.1 | 1.113 | 2.081 | 7.8 | 20.6 | 164 E | 53 | 56 |
| 11 17 | 2 7.23 | + 7 33.9 | 1.118 | 2.065 | 10.7 | 20.7 | 157 E | 53 | 56 |
| 11 22 | 2 2.04 | + 7 8.2 | 1.128 | 2.049 | 13.6 | 20.8 | 151 E | 52 | 57 |
| 11 27 | 1 57.55 | + 6 47.6 | 1.144 | 2.032 | 16.3 | 20.9 | 145 E | 52 | 57 |
| 12 2 | 1 53.88 | + 6 32.7 | 1.165 | 2.015 | 18.8 | 21.0 | 139 E | 52 | 57 |
| 12 7 | 1 51.13 | + 6 23.9 | 1.191 | 1.998 | 21.1 | 21.1 | 133 E | 51 | 58 |
| 12 12 | 1 49.34 | + 6 21.4 | 1.220 | 1.981 | 23.2 | 21.2 | 128 E | 51 | 58 |
| 12 17 | 1 48.53 | + 6 25.0 | 1.251 | 1.963 | 25.0 | 21.3 | 122 E | 51 | 58 |
| 12 22 | 1 48.69 | + 6 34.5 | 1.285 | 1.946 | 26.7 | 21.4 | 117 E | 52 | 57 |
| 12 27 | 1 49.78 | + 6 49.4 | 1.321 | 1.928 | 28.1 | 21.5 | 113 E | 52 | 57 |
| | | **140039** 2001 $SO_{73}$ | | | | | | | |
| 10 3 | 2 56.24 | +14 41.6 | 1.868 | 2.739 | 12.5 | 22.4 | 144 W | 60 | 49 |
| 10 13 | 2 45.97 | +13 40.3 | 1.818 | 2.760 | 8.4 | 22.2 | 156 W | 59 | 50 |
| 10 23 | 2 33.93 | +12 30.2 | 1.796 | 2.779 | 3.9 | 21.9 | 169 W | 58 | 51 |
| 11 2 | 2 21.23 | +11 16.4 | 1.805 | 2.796 | 1.3 | 21.8 | 176 E | 56 | 53 |
| 11 12 | 2 9.09 | +10 6.0 | 1.847 | 2.811 | 5.6 | 22.1 | 164 E | 55 | 54 |
| 11 22 | 1 58.60 | + 9 5.3 | 1.918 | 2.823 | 9.7 | 22.4 | 151 E | 54 | 55 |
| | | **302141** 2001 $SD_5$ | | | | | | | |
| 10 3 | 2 56.90 | +17 43.3 | 1.368 | 2.248 | 15.6 | 21.5 | 143 W | 63 | 46 |
| 10 13 | 2 47.11 | +17 8.7 | 1.347 | 2.291 | 10.6 | 21.3 | 155 W | 62 | 47 |
| 10 23 | 2 35.36 | +16 22.0 | 1.351 | 2.333 | 5.2 | 21.1 | 168 W | 61 | 48 |
| 11 2 | 2 23.08 | +15 28.2 | 1.382 | 2.374 | 0.6 | 20.9 | 178 E | 60 | 49 |
| 11 12 | 2 11.77 | +14 34.4 | 1.442 | 2.414 | 5.7 | 21.4 | 166 E | 60 | 49 |
| 11 22 | 2 2.64 | +13 48.2 | 1.528 | 2.453 | 10.3 | 21.7 | 154 E | 59 | 50 |
| | | **380846** 2006 $BN_7$ | | | | | | | |
| 10 3 | 2 57.75 | −24 17.1 | 2.051 | 2.852 | 14.2 | 21.3 | 135 W | 21 | 88 |
| 10 8 | 2 53.89 | −24 51.2 | 2.014 | 2.834 | 13.7 | 21.3 | 138 W | 20 | 89 |
| 10 13 | 2 49.41 | −25 20.4 | 1.983 | 2.817 | 13.3 | 21.2 | 139 W | 20 | 89 |
| 10 18 | 2 44.39 | −25 43.6 | 1.957 | 2.799 | 13.1 | 21.2 | 140 W | 19 | 90 |
| 10 23 | 2 38.94 | −25 59.6 | 1.937 | 2.780 | 13.1 | 21.1 | 141 W | 19 | 90 |
| 10 28 | 2 33.18 | −26 7.5 | 1.923 | 2.762 | 13.3 | 21.1 | 140 W | 19 | 90 |
| 11 2 | 2 27.23 | −26 6.5 | 1.914 | 2.743 | 13.7 | 21.1 | 139 E | 19 | 90 |
| 11 7 | 2 21.27 | −25 56.3 | 1.911 | 2.725 | 14.3 | 21.1 | 137 E | 19 | 90 |
| 11 12 | 2 15.44 | −25 36.5 | 1.914 | 2.706 | 15.0 | 21.1 | 135 E | 19 | 90 |
| 11 17 | 2 9.89 | −25 7.3 | 1.923 | 2.687 | 15.9 | 21.1 | 132 E | 20 | 89 |
| 11 22 | 2 4.75 | −24 29.2 | 1.936 | 2.667 | 16.8 | 21.2 | 129 E | 21 | 88 |
| 11 27 | 2 0.13 | −23 42.8 | 1.954 | 2.648 | 17.8 | 21.2 | 125 E | 21 | 88 |
| 12 2 | 1 56.12 | −22 48.9 | 1.977 | 2.628 | 18.7 | 21.2 | 121 E | 22 | 87 |
| 12 7 | 1 52.78 | −21 48.2 | 2.003 | 2.608 | 19.6 | 21.3 | 117 E | 23 | 86 |
| 12 12 | 1 50.16 | −20 41.7 | 2.033 | 2.588 | 20.4 | 21.3 | 113 E | 24 | 85 |
| 12 17 | 1 48.26 | −19 30.3 | 2.066 | 2.568 | 21.2 | 21.4 | 109 E | 25 | 84 |
| 12 22 | 1 47.09 | −18 14.9 | 2.102 | 2.548 | 21.8 | 21.4 | 106 E | 27 | 82 |
| 12 27 | 1 46.64 | −16 56.1 | 2.139 | 2.527 | 22.4 | 21.4 | 102 E | 28 | 81 |
| 1 1 | 1 46.87 | −15 34.8 | 2.179 | 2.507 | 22.9 | 21.5 | 98 E | 29 | 79* |
| | | **239874** 2000 $JN_{83}$ | | | | | | | |
| 10 3 | 3 13.15 | +14 29.5 | 1.773 | 2.618 | 14.3 | 21.3 | 140 W | 59 | 50 |
| 10 13 | 3 5.88 | +13 59.7 | 1.718 | 2.638 | 10.4 | 21.1 | 151 W | 59 | 50 |
| 10 23 | 2 56.44 | +13 22.6 | 1.687 | 2.657 | 6.1 | 20.9 | 164 W | 58 | 51 |
| 11 2 | 2 45.76 | +12 41.8 | 1.684 | 2.675 | 1.7 | 20.7 | 175 W | 58 | 51 |
| 11 12 | 2 34.98 | +12 1.8 | 1.711 | 2.692 | 3.6 | 20.9 | 170 E | 57 | 52 |
| 11 22 | 2 25.30 | +11 28.0 | 1.767 | 2.708 | 7.9 | 21.2 | 158 E | 56 | 53 |
| 12 2 | 2 17.58 | +11 4.4 | 1.849 | 2.723 | 11.7 | 21.4 | 146 E | 56 | 53 |

**311066** 2004 *DC*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 3 21.36 | − 5 50.1 | 1.325 | 2.171 | 18.1 | 21.4 | 138 W | 39 | 70 |
| 10 8 | 3 15.89 | − 6 17.1 | 1.302 | 2.182 | 16.2 | 21.3 | 143 W | 39 | 70 |
| 10 13 | 3 9.55 | − 6 41.2 | 1.285 | 2.193 | 14.2 | 21.3 | 147 W | 38 | 71 |
| 10 18 | 3 2.47 | − 7 1.3 | 1.273 | 2.203 | 12.3 | 21.2 | 152 W | 38 | 71 |
| 10 23 | 2 54.83 | − 7 16.1 | 1.268 | 2.212 | 10.8 | 21.1 | 155 W | 38 | 71 |
| 10 28 | 2 46.82 | − 7 24.8 | 1.270 | 2.221 | 9.9 | 21.1 | 158 W | 38 | 71 |
| 11 2 | 2 38.66 | − 7 26.5 | 1.279 | 2.229 | 9.7 | 21.1 | 158 W | 38 | 71 |
| 11 7 | 2 30.61 | − 7 20.8 | 1.295 | 2.237 | 10.4 | 21.2 | 156 E | 38 | 71 |
| 11 12 | 2 22.89 | − 7 7.6 | 1.318 | 2.244 | 11.6 | 21.3 | 153 E | 38 | 71 |
| 11 17 | 2 15.70 | − 6 47.0 | 1.347 | 2.251 | 13.2 | 21.4 | 149 E | 38 | 71 |
| 11 22 | 2 9.21 | − 6 19.8 | 1.383 | 2.257 | 15.0 | 21.5 | 144 E | 39 | 70 |
| 11 27 | 2 3.53 | − 5 46.5 | 1.424 | 2.262 | 16.7 | 21.6 | 139 E | 39 | 70 |
| 12 2 | 1 58.73 | − 5 8.0 | 1.471 | 2.267 | 18.3 | 21.8 | 134 E | 40 | 69 |

**492410** 2014 $KN_{40}$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 4 9.52 | +22 55.2 | 1.265 | 2.014 | 24.0 | 21.5 | 125 W | 68 | 41 |
| 10 13 | 4 6.04 | +23 34.8 | 1.211 | 2.045 | 20.0 | 21.3 | 135 W | 69 | 40 |
| 10 23 | 3 58.43 | +24 4.0 | 1.171 | 2.077 | 15.2 | 21.1 | 147 W | 69 | 40 |
| 11 2 | 3 47.36 | +24 19.9 | 1.152 | 2.109 | 9.7 | 20.9 | 159 W | 69 | 40 |
| 11 12 | 3 34.20 | +24 20.7 | 1.156 | 2.140 | 4.2 | 20.6 | 171 W | 69 | 40 |
| 11 22 | 3 20.86 | +24 8.4 | 1.188 | 2.171 | 3.5 | 20.7 | 172 E | 69 | 40 |
| 12 2 | 3 9.17 | +23 48.0 | 1.246 | 2.201 | 8.5 | 21.1 | 161 E | 69 | 40 |
| 12 12 | 3 0.48 | +23 26.7 | 1.329 | 2.231 | 13.2 | 21.4 | 149 E | 68 | 41 |

**507156** 2009 *YE*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 4 12.81 | − 2 27.7 | 2.701 | 3.381 | 14.0 | 21.4 | 125 W | 43 | 66 |
| 10 13 | 4 8.62 | − 2 57.2 | 2.581 | 3.359 | 12.2 | 21.2 | 135 W | 42 | 67 |
| 10 23 | 4 2.22 | − 3 22.4 | 2.480 | 3.336 | 10.1 | 21.0 | 144 W | 42 | 67 |
| 11 2 | 3 53.86 | − 3 39.1 | 2.403 | 3.312 | 8.1 | 20.9 | 152 W | 41 | 68 |
| 11 12 | 3 44.03 | − 3 43.2 | 2.353 | 3.287 | 6.8 | 20.8 | 157 W | 41 | 68 |
| 11 22 | 3 33.50 | − 3 31.3 | 2.334 | 3.262 | 7.1 | 20.7 | 156 E | 41 | 68 |
| 12 2 | 3 23.11 | − 3 1.6 | 2.344 | 3.235 | 8.8 | 20.8 | 150 E | 42 | 67 |
| 12 12 | 3 13.74 | − 2 14.4 | 2.383 | 3.208 | 11.2 | 20.9 | 141 E | 43 | 66 |
| 12 22 | 3 6.06 | − 1 11.4 | 2.446 | 3.180 | 13.5 | 21.0 | 131 E | 44 | 65 |
| 1 1 | 3 0.53 | + 0 4.5 | 2.529 | 3.151 | 15.5 | 21.2 | 121 E | 45 | 64 |
| 1 11 | 2 57.35 | + 1 30.3 | 2.628 | 3.121 | 17.1 | 21.3 | 111 E | 47 | 62 |
| 1 21 | 2 56.54 | + 3 3.1 | 2.737 | 3.090 | 18.2 | 21.4 | 102 E | 48 | 60* |

**495123** 2011 $WM_{21}$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 4 13.01 | +15 42.7 | 1.280 | 2.030 | 23.7 | 21.5 | 125 W | 61 | 48 |
| 10 13 | 4 9.98 | +16 4.5 | 1.224 | 2.061 | 19.7 | 21.3 | 136 W | 61 | 48 |
| 10 23 | 4 3.02 | +16 22.5 | 1.184 | 2.092 | 14.9 | 21.1 | 147 W | 61 | 48 |
| 11 2 | 3 52.75 | +16 36.6 | 1.164 | 2.122 | 9.4 | 20.9 | 160 W | 62 | 47 |
| 11 12 | 3 40.37 | +16 47.3 | 1.168 | 2.153 | 3.5 | 20.6 | 172 W | 62 | 47 |
| 11 22 | 3 27.62 | +16 56.3 | 1.199 | 2.183 | 2.7 | 20.7 | 174 E | 62 | 47 |
| 12 2 | 3 16.22 | +17 6.2 | 1.256 | 2.214 | 8.1 | 21.1 | 161 E | 62 | 47 |
| 12 12 | 3 7.49 | +17 20.3 | 1.339 | 2.243 | 12.9 | 21.4 | 149 E | 62 | 47 |

**359592** 2010 $VA_1$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 4 30.31 | +18 47.2 | 0.730 | 1.511 | 34.6 | 21.4 | 121 W | 64 | 45 |
| 10 13 | 4 28.23 | +16 14.2 | 0.682 | 1.536 | 29.1 | 21.2 | 131 W | 61 | 48 |
| 10 23 | 4 20.09 | +13 14.2 | 0.644 | 1.559 | 22.4 | 20.9 | 143 W | 58 | 51 |
| 11 2 | 4 6.47 | + 9 56.5 | 0.622 | 1.580 | 15.0 | 20.6 | 156 W | 55 | 54 |
| 11 12 | 3 49.24 | + 6 41.1 | 0.622 | 1.599 | 9.1 | 20.4 | 165 W | 52 | 57 |
| 11 17 | 3 40.21 | + 5 12.3 | 0.630 | 1.607 | 8.5 | 20.4 | 166 W | 50 | 59 |
| 11 22 | 3 31.44 | + 3 53.5 | 0.644 | 1.615 | 10.2 | 20.5 | 163 E | 49 | 60 |
| 11 27 | 3 23.29 | + 2 46.7 | 0.663 | 1.622 | 13.0 | 20.7 | 158 E | 48 | 61 |
| 12 2 | 3 16.04 | + 1 53.3 | 0.688 | 1.629 | 16.1 | 20.9 | 153 E | 47 | 62 |
| 12 7 | 3 9.92 | + 1 13.7 | 0.718 | 1.635 | 19.2 | 21.1 | 147 E | 46 | 63 |
| 12 12 | 3 5.06 | + 0 47.3 | 0.752 | 1.640 | 22.1 | 21.3 | 141 E | 46 | 63 |
| 12 17 | 3 1.52 | + 0 33.3 | 0.790 | 1.645 | 24.7 | 21.5 | 136 E | 46 | 63 |

**518717** 2009 $DH_{32}$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 4 39.57 | +24 54.3 | 1.569 | 2.220 | 23.5 | 21.2 | 118 W | 70 | 39 |
| 10 13 | 4 44.74 | +25 27.6 | 1.423 | 2.170 | 21.7 | 20.9 | 126 W | 70 | 39 |
| 10 23 | 4 46.91 | +25 58.0 | 1.289 | 2.119 | 19.1 | 20.6 | 136 W | 71 | 38 |
| 11 2 | 4 45.57 | +26 24.6 | 1.170 | 2.069 | 15.6 | 20.2 | 146 W | 71 | 38 |
| 11 12 | 4 40.44 | +26 45.1 | 1.070 | 2.018 | 11.1 | 19.8 | 157 W | 72 | 37 |
| 11 22 | 4 31.81 | +26 56.5 | 0.992 | 1.969 | 5.9 | 19.3 | 168 W | 72 | 37 |
| 11 27 | 4 26.46 | +26 57.8 | 0.961 | 1.944 | 3.5 | 19.1 | 173 W | 72 | 37 |
| 12 2 | 4 20.67 | +26 55.9 | 0.937 | 1.920 | 2.9 | 19.0 | 174 E | 72 | 37 |
| 12 7 | 4 14.69 | +26 50.7 | 0.918 | 1.896 | 5.1 | 19.0 | 170 E | 72 | 37 |
| 12 12 | 4 8.83 | +26 42.8 | 0.906 | 1.873 | 8.1 | 19.1 | 164 E | 72 | 37 |
| 12 17 | 4 3.35 | +26 32.7 | 0.899 | 1.849 | 11.3 | 19.2 | 158 E | 72 | 37 |
| 12 22 | 3 58.52 | +26 21.3 | 0.897 | 1.826 | 14.5 | 19.3 | 152 E | 71 | 38 |
| 12 27 | 3 54.56 | +26 9.5 | 0.901 | 1.804 | 17.5 | 19.4 | 146 E | 71 | 38 |
| 1 1 | 3 51.65 | +25 58.3 | 0.908 | 1.782 | 20.4 | 19.5 | 141 E | 71 | 38 |
| 1 6 | 3 49.91 | +25 48.6 | 0.920 | 1.760 | 23.1 | 19.5 | 135 E | 71 | 38 |
| 1 11 | 3 49.44 | +25 41.0 | 0.935 | 1.740 | 25.6 | 19.6 | 130 E | 71 | 38 |
| 1 16 | 3 50.26 | +25 36.1 | 0.952 | 1.719 | 27.9 | 19.7 | 125 E | 71 | 38 |
| 1 21 | 3 52.35 | +25 33.9 | 0.972 | 1.700 | 29.9 | 19.8 | 121 E | 71 | 38 |

**482049** 2009 $XG_8$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 5 3.48 | − 8 55.4 | 1.044 | 1.696 | 33.2 | 21.4 | 112 W | 36 | 73 |
| 10 8 | 4 57.41 | − 8 4.0 | 0.980 | 1.694 | 31.5 | 21.2 | 118 W | 37 | 72 |
| 10 13 | 4 49.24 | − 7 1.3 | 0.918 | 1.692 | 29.3 | 21.0 | 124 W | 38 | 71 |
| 10 18 | 4 38.72 | − 5 44.3 | 0.860 | 1.689 | 26.5 | 20.8 | 131 W | 39 | 70 |
| 10 23 | 4 25.60 | − 4 9.9 | 0.807 | 1.685 | 23.1 | 20.6 | 138 W | 41 | 68 |
| 10 28 | 4 9.75 | − 2 15.6 | 0.762 | 1.682 | 19.1 | 20.3 | 146 W | 43 | 66 |
| 11 2 | 3 51.22 | − 0 0.3 | 0.725 | 1.677 | 14.6 | 20.0 | 155 W | 45 | 64 |
| 11 7 | 3 30.35 | + 2 34.4 | 0.700 | 1.672 | 10.0 | 19.8 | 163 W | 48 | 61 |
| 11 12 | 3 7.87 | + 5 23.4 | 0.687 | 1.667 | 7.2 | 19.6 | 168 E | 50 | 59 |
| 11 17 | 2 44.75 | + 8 18.9 | 0.687 | 1.662 | 8.9 | 19.7 | 165 E | 53 | 56 |
| 11 22 | 2 22.10 | +11 11.5 | 0.700 | 1.655 | 13.4 | 19.9 | 157 E | 56 | 53 |
| 11 27 | 2 0.93 | +13 53.8 | 0.726 | 1.649 | 18.3 | 20.1 | 148 E | 59 | 50 |
| 12 2 | 1 41.97 | +16 21.2 | 0.762 | 1.642 | 22.9 | 20.4 | 140 E | 61 | 48 |
| 12 7 | 1 25.64 | +18 32.8 | 0.807 | 1.634 | 26.9 | 20.6 | 131 E | 64 | 45 |
| 12 12 | 1 12.04 | +20 29.9 | 0.858 | 1.626 | 30.2 | 20.8 | 124 E | 66 | 43 |
| 12 17 | 1 1.06 | +22 14.8 | 0.915 | 1.618 | 32.9 | 21.0 | 117 E | 67 | 42 |
| 12 22 | 0 52.45 | +23 50.2 | 0.974 | 1.609 | 34.9 | 21.2 | 111 E | 69 | 40* |
| 12 27 | 0 45.96 | +25 18.6 | 1.036 | 1.600 | 36.5 | 21.4 | 105 E | 70 | 37* |

**302162** 2001 $SL_{333}$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 5 25.05 | +23 0.4 | 1.630 | 2.157 | 26.2 | 21.4 | 108 W | 68 | 41 |
| 10 13 | 5 28.48 | +23 23.4 | 1.547 | 2.186 | 24.0 | 21.3 | 117 W | 68 | 41 |
| 10 23 | 5 28.25 | +23 45.7 | 1.472 | 2.215 | 21.1 | 21.1 | 127 W | 69 | 40 |
| 11 2 | 5 24.14 | +24 6.7 | 1.409 | 2.244 | 17.3 | 20.9 | 138 W | 69 | 40 |
| 11 12 | 5 16.26 | +24 24.6 | 1.363 | 2.272 | 12.8 | 20.7 | 149 W | 69 | 40 |
| 11 22 | 5 5.35 | +24 37.1 | 1.340 | 2.300 | 7.7 | 20.5 | 162 W | 70 | 39 |
| 11 27 | 4 59.13 | +24 40.6 | 1.339 | 2.313 | 5.0 | 20.4 | 168 W | 70 | 39 |
| 12 2 | 4 52.65 | +24 42.1 | 1.344 | 2.327 | 2.3 | 20.2 | 175 W | 70 | 39 |
| 12 7 | 4 46.14 | +24 41.6 | 1.356 | 2.340 | 1.2 | 20.2 | 177 E | 70 | 39 |
| 12 12 | 4 39.83 | +24 39.6 | 1.375 | 2.353 | 3.5 | 20.4 | 172 E | 70 | 39 |
| 12 17 | 4 33.92 | +24 36.3 | 1.401 | 2.366 | 6.1 | 20.6 | 165 E | 70 | 39 |
| 12 22 | 4 28.57 | +24 32.2 | 1.434 | 2.379 | 8.5 | 20.7 | 159 E | 70 | 39 |
| 12 27 | 4 23.92 | +24 28.0 | 1.474 | 2.392 | 10.8 | 20.9 | 153 E | 69 | 40 |
| 1 1 | 4 20.07 | +24 24.0 | 1.519 | 2.404 | 12.9 | 21.1 | 147 E | 69 | 40 |
| 1 6 | 4 17.08 | +24 20.7 | 1.570 | 2.417 | 14.8 | 21.2 | 141 E | 69 | 40 |
| 1 11 | 4 14.97 | +24 18.5 | 1.626 | 2.429 | 16.4 | 21.4 | 136 E | 69 | 40 |

**257536** 1998 $EU_3$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 5 43.11 | +24 6.6 | 1.370 | 1.876 | 31.2 | 21.3 | 104 W | 69 | 40 |
| 10 13 | 5 56.45 | +24 40.9 | 1.244 | 1.846 | 30.4 | 21.0 | 110 W | 70 | 39 |
| 10 23 | 6 7.59 | +25 17.5 | 1.124 | 1.815 | 29.0 | 20.7 | 118 W | 70 | 39 |
| 11 2 | 6 15.89 | +25 59.3 | 1.012 | 1.785 | 26.8 | 20.4 | 126 W | 71 | 38 |
| 11 7 | 6 18.73 | +26 23.1 | 0.959 | 1.769 | 25.3 | 20.2 | 130 W | 71 | 38 |
| 11 12 | 6 20.58 | +26 49.2 | 0.910 | 1.754 | 23.6 | 20.0 | 135 W | 72 | 37 |
| 11 17 | 6 21.34 | +27 17.7 | 0.864 | 1.739 | 21.6 | 19.8 | 140 W | 72 | 37 |
| 11 22 | 6 20.94 | +27 48.6 | 0.821 | 1.724 | 19.3 | 19.6 | 145 W | 73 | 36 |
| 12 2 | 6 16.44 | +28 55.8 | 0.747 | 1.695 | 14.0 | 19.2 | 156 W | 74 | 35 |
| 12 12 | 6 7.15 | +30 4.5 | 0.693 | 1.666 | 7.9 | 18.8 | 167 W | 75 | 34 |
| 12 22 | 5 54.40 | +31 5.0 | 0.658 | 1.638 | 4.6 | 18.5 | 172 E | 76 | 33 |
| 12 27 | 5 47.47 | +31 29.0 | 0.649 | 1.625 | 6.8 | 18.5 | 169 E | 76 | 33 |
| 1 1 | 5 40.66 | +31 47.8 | 0.645 | 1.612 | 10.1 | 18.6 | 163 E | 77 | 32 |
| 1 6 | 5 34.41 | +32 1.2 | 0.646 | 1.599 | 13.6 | 18.8 | 158 E | 77 | 32 |
| 1 11 | 5 29.09 | +32 9.5 | 0.651 | 1.587 | 17.1 | 18.9 | 152 E | 77 | 32 |
| 1 16 | 5 24.99 | +32 13.7 | 0.661 | 1.575 | 20.5 | 19.0 | 146 E | 77 | 32 |
| 1 21 | 5 22.30 | +32 14.5 | 0.674 | 1.563 | 23.6 | 19.1 | 140 E | 77 | 32 |

**408794** 2000 $GG_{186}$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 5 44.82 | +26 22.9 | 1.631 | 2.098 | 27.7 | 21.4 | 103 W | 71 | 38 |
| 10 13 | 5 50.07 | +27 9.8 | 1.552 | 2.133 | 25.7 | 21.3 | 112 W | 72 | 37 |
| 10 23 | 5 51.60 | +27 58.7 | 1.479 | 2.169 | 23.1 | 21.1 | 121 W | 73 | 36 |
| 11 2 | 5 49.08 | +28 48.7 | 1.416 | 2.204 | 19.7 | 21.0 | 132 W | 74 | 35 |
| 11 12 | 5 42.39 | +29 36.7 | 1.368 | 2.239 | 15.5 | 20.8 | 143 W | 75 | 34 |
| 11 22 | 5 32.00 | +30 17.8 | 1.340 | 2.273 | 10.7 | 20.6 | 155 W | 75 | 34 |
| 12 2 | 5 18.99 | +30 46.5 | 1.336 | 2.306 | 5.8 | 20.4 | 166 W | 76 | 33 |
| 12 7 | 5 12.00 | +30 55.0 | 1.345 | 2.323 | 3.9 | 20.3 | 171 W | 76 | 33 |
| 12 12 | 5 5.03 | +30 59.4 | 1.361 | 2.339 | 3.5 | 20.3 | 172 E | 76 | 33 |
| 12 17 | 4 58.31 | +30 59.9 | 1.383 | 2.355 | 4.9 | 20.5 | 168 E | 76 | 33 |
| 12 22 | 4 52.05 | +30 57.1 | 1.413 | 2.371 | 6.9 | 20.6 | 163 E | 76 | 33 |
| 12 27 | 4 46.44 | +30 51.5 | 1.449 | 2.387 | 9.1 | 20.8 | 157 E | 76 | 33 |
| 1 1 | 4 41.60 | +30 44.0 | 1.492 | 2.403 | 11.2 | 21.0 | 152 E | 76 | 33 |
| 1 6 | 4 37.65 | +30 35.2 | 1.540 | 2.418 | 13.2 | 21.1 | 146 E | 76 | 33 |
| 1 11 | 4 34.62 | +30 26.1 | 1.594 | 2.434 | 14.9 | 21.3 | 140 E | 75 | 34 |
| 1 16 | 4 32.55 | +30 17.1 | 1.653 | 2.449 | 16.5 | 21.4 | 135 E | 75 | 34 |

**484199** 2006 $WS_1$

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 5 55.21 | +58 11.4 | 0.706 | 1.308 | 49.1 | 21.5 | 99 W | 77 | 6 |
| 10 5 | 5 54.39 | +58 46.3 | 0.704 | 1.321 | 48.1 | 21.5 | 100 W | 76 | 5 |
| 10 7 | 5 53.12 | +59 20.9 | 0.702 | 1.334 | 47.1 | 21.4 | 102 W | 76 | 5 |
| 10 9 | 5 51.36 | +59 55.2 | 0.699 | 1.347 | 46.1 | 21.4 | 104 W | 75 | 4 |

**484199** 2006 $WS_1$ *(continuation)*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 11 | 5 49.08 | +60 28.8 | 0.697 | 1.360 | 45.1 | 21.4 | 105 W | 75 | 4 |
| 10 13 | 5 46.25 | +61 1.7 | 0.694 | 1.372 | 44.0 | 21.4 | 107 W | 74 | 3 |
| 10 15 | 5 42.82 | +61 33.7 | 0.692 | 1.385 | 43.0 | 21.4 | 109 W | 73 | 2 |
| 10 17 | 5 38.78 | +62 4.4 | 0.689 | 1.397 | 41.9 | 21.4 | 111 W | 73 | 2 |
| 10 19 | 5 34.09 | +62 33.6 | 0.687 | 1.409 | 40.8 | 21.3 | 112 W | 72 | 1 |
| 10 21 | 5 28.74 | +63 0.9 | 0.685 | 1.420 | 39.8 | 21.3 | 114 W | 72 | 1 |
| 10 23 | 5 22.72 | +63 26.0 | 0.683 | 1.432 | 38.7 | 21.3 | 116 W | 72 | 1 |
| 10 28 | 5 4.71 | +64 16.1 | 0.678 | 1.460 | 35.9 | 21.2 | 120 W | 71 | — |
| 11 2 | 4 42.89 | +64 42.5 | 0.676 | 1.487 | 33.2 | 21.2 | 125 W | 70 | — |
| 11 7 | 4 18.43 | +64 38.6 | 0.676 | 1.512 | 30.5 | 21.2 | 129 W | 70 | — |
| 11 12 | 3 53.22 | +64 0.3 | 0.681 | 1.537 | 28.1 | 21.1 | 133 W | 71 | — |
| 11 17 | 3 29.31 | +62 47.6 | 0.689 | 1.560 | 26.1 | 21.1 | 136 W | 72 | 1 |
| 11 22 | 3 8.29 | +61 4.7 | 0.701 | 1.582 | 24.5 | 21.2 | 138 E | 74 | 3 |
| 11 27 | 2 51.02 | +58 58.7 | 0.719 | 1.603 | 23.6 | 21.2 | 139 E | 76 | 5 |
| 12 2 | 2 37.70 | +56 37.5 | 0.742 | 1.623 | 23.3 | 21.3 | 139 E | 78 | 7 |
| 12 7 | 2 28.07 | +54 9.2 | 0.769 | 1.641 | 23.6 | 21.4 | 138 E | 81 | 10 |
| 12 12 | 2 21.70 | +51 40.5 | 0.802 | 1.659 | 24.3 | 21.6 | 136 E | 83 | 12 |
| 12 17 | 2 18.08 | +49 16.6 | 0.839 | 1.675 | 25.3 | 21.7 | 133 E | 86 | 15 |

**405421** 2004 $RB_{321}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 2.37 | +23 20.7 | 1.545 | 1.970 | 30.1 | 21.4 | 99 W | 68 | 41* |
| 10 13 | 6 10.83 | +22 48.7 | 1.466 | 2.001 | 28.5 | 21.3 | 107 W | 68 | 41 |
| 10 23 | 6 15.74 | +22 13.2 | 1.390 | 2.032 | 26.1 | 21.1 | 116 W | 67 | 42 |
| 11 2 | 6 16.74 | +21 35.8 | 1.321 | 2.063 | 23.0 | 21.0 | 126 W | 67 | 42 |
| 11 12 | 6 13.61 | +20 57.6 | 1.264 | 2.095 | 19.1 | 20.8 | 136 W | 66 | 43 |
| 11 22 | 6 6.57 | +20 19.2 | 1.223 | 2.126 | 14.3 | 20.6 | 148 W | 65 | 44 |
| 12 2 | 5 56.32 | +19 41.3 | 1.203 | 2.157 | 8.9 | 20.4 | 160 W | 65 | 44 |
| 12 7 | 5 50.38 | +19 22.7 | 1.202 | 2.173 | 6.1 | 20.3 | 166 W | 64 | 45 |
| 12 12 | 5 44.17 | +19 4.8 | 1.208 | 2.188 | 3.5 | 20.1 | 172 W | 64 | 45 |
| 12 17 | 5 37.94 | +18 47.8 | 1.221 | 2.203 | 2.0 | 20.1 | 175 E | 64 | 45 |
| 12 22 | 5 31.88 | +18 32.1 | 1.241 | 2.219 | 3.6 | 20.2 | 172 E | 64 | 45 |
| 12 27 | 5 26.21 | +18 17.8 | 1.267 | 2.234 | 6.1 | 20.4 | 166 E | 63 | 46 |
| 1 1 | 5 21.10 | +18 5.5 | 1.300 | 2.249 | 8.6 | 20.6 | 160 E | 63 | 46 |
| 1 6 | 5 16.68 | +17 55.2 | 1.339 | 2.264 | 11.0 | 20.8 | 154 E | 63 | 46 |
| 1 11 | 5 13.07 | +17 47.3 | 1.384 | 2.279 | 13.2 | 21.0 | 148 E | 63 | 46 |
| 1 16 | 5 10.31 | +17 41.8 | 1.435 | 2.293 | 15.2 | 21.1 | 142 E | 63 | 46 |
| 1 21 | 5 8.43 | +17 38.5 | 1.490 | 2.308 | 17.0 | 21.3 | 137 E | 63 | 46 |

**504857** 2010 $TY_{148}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 4.06 | +29 29.4 | 1.551 | 1.970 | 30.1 | 21.4 | 99 W | 74 | 35* |
| 10 13 | 6 13.52 | +30 9.8 | 1.475 | 2.002 | 28.5 | 21.3 | 107 W | 75 | 34 |
| 10 23 | 6 19.38 | +30 51.7 | 1.403 | 2.036 | 26.3 | 21.2 | 115 W | 76 | 33 |
| 11 2 | 6 21.17 | +31 35.6 | 1.338 | 2.069 | 23.3 | 21.0 | 125 W | 77 | 32 |
| 11 12 | 6 18.50 | +32 19.8 | 1.284 | 2.103 | 19.5 | 20.8 | 135 W | 77 | 32 |
| 11 22 | 6 11.44 | +32 59.8 | 1.246 | 2.137 | 15.0 | 20.7 | 146 W | 78 | 31 |
| 12 2 | 6 0.64 | +33 29.3 | 1.228 | 2.171 | 10.1 | 20.5 | 157 W | 78 | 31 |
| 12 7 | 5 54.23 | +33 38.1 | 1.228 | 2.188 | 7.7 | 20.4 | 163 W | 79 | 30 |
| 12 12 | 5 47.48 | +33 42.2 | 1.234 | 2.205 | 5.6 | 20.3 | 167 W | 79 | 30 |
| 12 17 | 5 40.64 | +33 41.4 | 1.247 | 2.222 | 4.6 | 20.3 | 170 W | 79 | 30 |
| 12 22 | 5 33.97 | +33 35.8 | 1.267 | 2.239 | 5.1 | 20.4 | 168 E | 79 | 30 |
| 12 27 | 5 27.71 | +33 26.0 | 1.293 | 2.256 | 6.8 | 20.5 | 164 E | 78 | 31 |
| 1 1 | 5 22.06 | +33 12.7 | 1.326 | 2.272 | 8.8 | 20.7 | 159 E | 78 | 31 |
| 1 6 | 5 17.19 | +32 56.7 | 1.365 | 2.289 | 10.9 | 20.9 | 154 E | 78 | 31 |
| 1 11 | 5 13.23 | +32 39.0 | 1.410 | 2.306 | 13.0 | 21.0 | 148 E | 78 | 31 |
| 1 16 | 5 10.24 | +32 20.4 | 1.461 | 2.322 | 14.8 | 21.2 | 143 E | 77 | 32 |
| 1 21 | 5 8.22 | +32 1.6 | 1.516 | 2.338 | 16.5 | 21.3 | 138 E | 77 | 32 |

**306917** 2001 $UW_4$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 13.46 | +28 12.8 | 1.077 | 1.553 | 39.8 | 21.5 | 97 W | 73 | 36* |
| 10 13 | 6 34.21 | +28 29.2 | 0.990 | 1.544 | 39.2 | 21.3 | 102 W | 73 | 36* |
| 10 23 | 6 52.90 | +28 40.0 | 0.905 | 1.536 | 38.1 | 21.0 | 108 W | 74 | 35 |
| 11 2 | 7 8.89 | +28 48.7 | 0.824 | 1.527 | 36.3 | 20.8 | 114 W | 74 | 35 |
| 11 12 | 7 21.35 | +28 59.3 | 0.747 | 1.519 | 33.8 | 20.5 | 121 W | 74 | 35 |
| 11 17 | 7 25.99 | +29 6.3 | 0.711 | 1.516 | 32.1 | 20.3 | 125 W | 74 | 35 |
| 11 22 | 7 29.40 | +29 14.8 | 0.676 | 1.512 | 30.2 | 20.2 | 130 W | 74 | 35 |
| 11 27 | 7 31.47 | +29 25.1 | 0.644 | 1.508 | 28.0 | 20.0 | 134 W | 74 | 35 |
| 12 2 | 7 32.07 | +29 36.9 | 0.614 | 1.505 | 25.4 | 19.8 | 139 W | 75 | 34 |
| 12 7 | 7 31.10 | +29 49.9 | 0.587 | 1.501 | 22.6 | 19.6 | 144 W | 75 | 34 |
| 12 12 | 7 28.53 | +30 3.1 | 0.564 | 1.498 | 19.4 | 19.4 | 150 W | 75 | 34 |
| 12 17 | 7 24.42 | +30 15.5 | 0.543 | 1.495 | 15.9 | 19.2 | 155 W | 75 | 34 |
| 12 22 | 7 18.90 | +30 25.5 | 0.527 | 1.492 | 12.3 | 19.0 | 161 W | 75 | 34 |
| 12 27 | 7 12.18 | +30 31.4 | 0.515 | 1.490 | 8.7 | 18.8 | 167 W | 76 | 33 |
| 1 1 | 7 4.61 | +30 32.0 | 0.508 | 1.487 | 5.8 | 18.6 | 171 W | 76 | 33 |
| 1 6 | 6 56.65 | +30 26.0 | 0.505 | 1.485 | 5.4 | 18.6 | 172 E | 75 | 34 |
| 1 11 | 6 48.83 | +30 13.2 | 0.507 | 1.483 | 8.0 | 18.7 | 168 E | 75 | 34 |
| 1 16 | 6 41.64 | +29 54.0 | 0.513 | 1.481 | 11.7 | 18.9 | 162 E | 75 | 34 |
| 1 21 | 6 35.48 | +29 29.5 | 0.524 | 1.479 | 15.5 | 19.1 | 156 E | 74 | 35 |

**143624** 2003 $HM_{16}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 6 23.44 | −10 37.7 | 2.735 | 2.950 | 19.8 | 21.4 | 92 W | 34* | 74* |
| 10 13 | 6 27.09 | −12 54.7 | 2.595 | 2.925 | 19.7 | 21.3 | 99 W | 32 | 77 |
| 10 23 | 6 28.54 | −15 19.8 | 2.462 | 2.899 | 19.3 | 21.1 | 106 W | 30 | 79 |
| 11 2 | 6 27.50 | −17 49.2 | 2.338 | 2.871 | 18.6 | 21.0 | 113 W | 27 | 82 |
| 11 12 | 6 23.66 | −20 16.9 | 2.227 | 2.841 | 17.8 | 20.8 | 119 W | 25 | 84 |
| 11 22 | 6 16.92 | −22 34.9 | 2.132 | 2.809 | 16.9 | 20.7 | 124 W | 22 | 87 |
| 12 2 | 6 7.39 | −24 33.5 | 2.055 | 2.774 | 16.2 | 20.6 | 128 W | 20 | 89 |
| 12 12 | 5 55.55 | −26 2.5 | 2.000 | 2.738 | 16.0 | 20.5 | 130 W | 19 | 90 |
| 12 17 | 5 49.05 | −26 33.0 | 1.980 | 2.719 | 16.1 | 20.4 | 130 W | 18 | 89 |
| 12 22 | 5 42.34 | −26 53.3 | 1.966 | 2.700 | 16.3 | 20.4 | 129 E | 18 | 89 |
| 12 27 | 5 35.59 | −27 2.8 | 1.956 | 2.680 | 16.7 | 20.4 | 128 E | 18 | 89 |
| 1 1 | 5 28.96 | −27 1.4 | 1.952 | 2.660 | 17.2 | 20.4 | 127 E | 18 | 89 |
| 1 6 | 5 22.62 | −26 49.4 | 1.953 | 2.639 | 17.9 | 20.4 | 125 E | 18 | 89 |
| 1 11 | 5 16.71 | −26 27.2 | 1.959 | 2.617 | 18.6 | 20.4 | 122 E | 19 | 90 |
| 1 16 | 5 11.38 | −25 55.8 | 1.968 | 2.595 | 19.3 | 20.4 | 119 E | 19 | 90 |
| 1 21 | 5 6.70 | −25 16.2 | 1.981 | 2.573 | 20.1 | 20.4 | 116 E | 20 | 89 |

**210482** 1996 $RW_1$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 31.12 | +29 59.0 | 2.120 | 2.390 | 24.7 | 21.5 | 93 W | 75* | 34* |
| 10 13 | 6 38.50 | +30 22.3 | 2.023 | 2.422 | 23.8 | 21.4 | 101 W | 75 | 34* |
| 10 23 | 6 42.95 | +30 48.7 | 1.928 | 2.454 | 22.4 | 21.3 | 110 W | 76 | 33 |
| 11 2 | 6 44.08 | +31 18.6 | 1.840 | 2.485 | 20.3 | 21.1 | 120 W | 76 | 33 |
| 11 12 | 6 41.59 | +31 51.0 | 1.762 | 2.516 | 17.5 | 21.0 | 130 W | 77 | 32 |
| 11 22 | 6 35.41 | +32 22.9 | 1.700 | 2.545 | 14.1 | 20.8 | 141 W | 77 | 32 |
| 12 2 | 6 25.87 | +32 49.8 | 1.658 | 2.574 | 10.1 | 20.6 | 153 W | 78 | 31 |
| 12 12 | 6 13.78 | +33 6.2 | 1.642 | 2.602 | 6.1 | 20.4 | 164 W | 78 | 31 |
| 12 17 | 6 7.21 | +33 9.2 | 1.644 | 2.615 | 4.4 | 20.4 | 168 W | 78 | 31 |
| 12 22 | 6 0.54 | +33 8.4 | 1.654 | 2.629 | 3.6 | 20.3 | 170 W | 78 | 31 |
| 12 27 | 5 53.99 | +33 3.8 | 1.671 | 2.642 | 4.3 | 20.4 | 168 E | 78 | 31 |
| 1 1 | 5 47.74 | +32 55.6 | 1.695 | 2.655 | 5.8 | 20.5 | 164 E | 78 | 31 |
| 1 6 | 5 41.97 | +32 44.4 | 1.727 | 2.667 | 7.7 | 20.7 | 159 E | 78 | 31 |
| 1 11 | 5 36.83 | +32 30.8 | 1.765 | 2.680 | 9.5 | 20.8 | 153 E | 78 | 31 |
| 1 16 | 5 32.43 | +32 15.3 | 1.810 | 2.692 | 11.3 | 20.9 | 147 E | 77 | 32 |
| 1 21 | 5 28.84 | +31 58.8 | 1.861 | 2.704 | 13.0 | 21.1 | 142 E | 77 | 32 |

**400554** 2008 $VA_{58}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 37.79 | +16 35.8 | 1.415 | 1.741 | 35.1 | 21.4 | 91 W | 61* | 46* |
| 10 13 | 6 53.45 | +16 2.8 | 1.339 | 1.760 | 34.3 | 21.3 | 97 W | 61 | 48* |
| 10 23 | 7 6.36 | +15 29.1 | 1.265 | 1.780 | 33.0 | 21.1 | 103 W | 60 | 48* |
| 11 2 | 7 16.08 | +14 58.7 | 1.192 | 1.802 | 31.0 | 21.0 | 111 W | 60 | 49 |
| 11 12 | 7 22.12 | +14 36.0 | 1.124 | 1.825 | 28.3 | 20.8 | 119 W | 60 | 49 |
| 11 22 | 7 24.09 | +14 25.5 | 1.063 | 1.849 | 24.7 | 20.6 | 129 W | 59 | 50 |
| 12 2 | 7 21.75 | +14 30.5 | 1.013 | 1.874 | 20.1 | 20.4 | 139 W | 60 | 49 |
| 12 12 | 7 15.25 | +14 52.8 | 0.979 | 1.900 | 14.7 | 20.2 | 151 W | 60 | 49 |
| 12 22 | 7 5.47 | +15 31.3 | 0.965 | 1.926 | 8.7 | 19.9 | 163 W | 61 | 48 |
| 12 27 | 6 59.78 | +15 55.4 | 0.966 | 1.940 | 5.8 | 19.8 | 168 W | 61 | 48 |
| 1 1 | 6 53.88 | +16 21.8 | 0.974 | 1.953 | 3.5 | 19.7 | 173 W | 61 | 48 |
| 1 6 | 6 48.00 | +16 49.8 | 0.988 | 1.967 | 3.6 | 19.8 | 173 E | 62 | 47 |
| 1 11 | 6 42.43 | +17 18.5 | 1.008 | 1.981 | 5.8 | 20.0 | 168 E | 62 | 47 |
| 1 16 | 6 37.37 | +17 47.3 | 1.034 | 1.995 | 8.5 | 20.2 | 163 E | 63 | 46 |
| 1 21 | 6 33.01 | +18 15.6 | 1.067 | 2.009 | 11.1 | 20.3 | 157 E | 63 | 46 |

**85762** 1998 $TH_4$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 42.69 | +19 47.8 | 2.266 | 2.472 | 23.9 | 21.5 | 90 W | 64* | 43* |
| 10 13 | 6 49.78 | +19 19.0 | 2.157 | 2.497 | 23.3 | 21.4 | 98 W | 64 | 44* |
| 10 23 | 6 54.34 | +18 50.8 | 2.050 | 2.521 | 22.2 | 21.2 | 107 W | 64 | 45 |
| 11 2 | 6 56.07 | +18 24.6 | 1.946 | 2.544 | 20.5 | 21.1 | 116 W | 63 | 46 |
| 11 12 | 6 54.71 | +18 2.0 | 1.852 | 2.566 | 18.1 | 20.9 | 126 W | 63 | 46 |
| 11 22 | 6 50.15 | +17 43.7 | 1.772 | 2.587 | 15.0 | 20.7 | 137 W | 63 | 46 |
| 12 2 | 6 42.57 | +17 30.4 | 1.711 | 2.607 | 11.2 | 20.5 | 149 W | 63 | 46 |
| 12 12 | 6 32.49 | +17 21.9 | 1.675 | 2.626 | 6.9 | 20.3 | 161 W | 62 | 47 |
| 12 17 | 6 26.81 | +17 19.3 | 1.667 | 2.635 | 4.8 | 20.2 | 167 W | 62 | 47 |
| 12 22 | 6 20.91 | +17 17.7 | 1.666 | 2.644 | 2.9 | 20.1 | 172 W | 62 | 47 |
| 12 27 | 6 14.94 | +17 17.1 | 1.673 | 2.653 | 2.3 | 20.1 | 174 E | 62 | 47 |
| 1 1 | 6 9.07 | +17 17.4 | 1.687 | 2.661 | 3.7 | 20.2 | 170 E | 62 | 47 |
| 1 6 | 6 3.46 | +17 18.6 | 1.709 | 2.669 | 5.7 | 20.4 | 164 E | 62 | 47 |
| 1 11 | 5 58.28 | +17 20.7 | 1.738 | 2.677 | 7.8 | 20.5 | 158 E | 62 | 47 |
| 1 16 | 5 53.64 | +17 23.7 | 1.774 | 2.684 | 9.8 | 20.6 | 152 E | 62 | 47 |
| 1 21 | 5 49.63 | +17 27.5 | 1.816 | 2.692 | 11.7 | 20.8 | 146 E | 62 | 47 |

**350518** 2000 $CH_{72}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 6 51.09 | +22 14.6 | 1.941 | 2.151 | 27.7 | 21.4 | 88 W | 66* | 40* |
| 10 13 | 7 7.42 | +22 13.6 | 1.786 | 2.106 | 28.2 | 21.2 | 94 W | 67 | 41* |
| 10 23 | 7 22.84 | +22 12.4 | 1.634 | 2.060 | 28.4 | 21.0 | 100 W | 67 | 41* |
| 11 2 | 7 37.08 | +22 13.9 | 1.487 | 2.016 | 28.1 | 20.7 | 107 W | 67 | 42* |
| 11 12 | 7 49.77 | +22 21.3 | 1.347 | 1.972 | 27.2 | 20.4 | 114 W | 67 | 42 |
| 11 22 | 8 0.52 | +22 38.6 | 1.216 | 1.930 | 25.7 | 20.1 | 122 W | 68 | 41 |
| 12 2 | 8 8.84 | +23 9.7 | 1.095 | 1.889 | 23.5 | 19.8 | 130 W | 68 | 41 |
| 12 12 | 8 14.19 | +23 58.4 | 0.988 | 1.849 | 20.3 | 19.4 | 139 W | 69 | 40 |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| **350518** 2000 $CH_{72}$ *(continuation)* | | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 12 22 | 8 16.14 | +25 6.6 | 0.896 | 1.812 | 16.2 | 19.0 | 149 W | 70 | 39 |
| 1 1 | 8 14.43 | +26 32.3 | 0.822 | 1.776 | 11.3 | 18.6 | 159 W | 72 | 37 |
| 1 6 | 8 12.26 | +27 19.9 | 0.792 | 1.759 | 8.7 | 18.4 | 164 W | 72 | 37 |
| 1 11 | 8 9.34 | +28 8.7 | 0.768 | 1.743 | 6.3 | 18.2 | 169 W | 73 | 36 |
| 1 16 | 8 5.87 | +28 57.0 | 0.749 | 1.728 | 4.9 | 18.1 | 171 W | 74 | 35 |
| 1 21 | 8 2.04 | +29 43.1 | 0.736 | 1.713 | 5.7 | 18.1 | 170 E | 75 | 34 |
| **249230** 2008 $GZ_{21}$ | | | | | | | | | |
| 10 3 | 6 56.26 | +10 36.0 | 1.415 | 1.670 | 36.7 | 21.4 | 86 W | 55* | 51* |
| 10 13 | 7 15.96 | + 7 24.6 | 1.311 | 1.649 | 37.2 | 21.2 | 90 W | 52* | 55* |
| 10 23 | 7 34.27 | + 3 46.9 | 1.213 | 1.628 | 37.5 | 21.0 | 95 W | 49 | 59* |
| 11 2 | 7 50.92 | − 0 16.0 | 1.120 | 1.608 | 37.6 | 20.8 | 99 W | 45 | 64* |
| 11 12 | 8 5.58 | − 4 41.5 | 1.034 | 1.589 | 37.3 | 20.6 | 103 W | 40 | 69* |
| 11 22 | 8 17.89 | − 9 24.7 | 0.957 | 1.571 | 36.8 | 20.4 | 108 W | 36 | 73 |
| 11 27 | 8 23.03 | −11 50.8 | 0.921 | 1.562 | 36.5 | 20.3 | 110 W | 33 | 76 |
| 12 2 | 8 27.42 | −14 18.4 | 0.887 | 1.553 | 36.1 | 20.2 | 112 W | 31 | 78 |
| 12 7 | 8 30.97 | −16 46.0 | 0.856 | 1.545 | 35.6 | 20.1 | 114 W | 28 | 81 |
| 12 12 | 8 33.64 | −19 11.8 | 0.827 | 1.538 | 35.2 | 20.0 | 116 W | 26 | 83 |
| 12 17 | 8 35.37 | −21 33.8 | 0.800 | 1.530 | 34.7 | 19.9 | 118 W | 23 | 86 |
| 12 22 | 8 36.13 | −23 50.0 | 0.776 | 1.523 | 34.2 | 19.8 | 119 W | 21 | 88 |
| 12 27 | 8 35.88 | −25 58.2 | 0.754 | 1.517 | 33.7 | 19.7 | 121 W | 19 | 90 |
| 1 1 | 8 34.59 | −27 55.6 | 0.734 | 1.511 | 33.3 | 19.6 | 123 W | 17 | 88 |
| 1 6 | 8 32.32 | −29 39.7 | 0.717 | 1.505 | 32.9 | 19.5 | 124 W | 15 | 86 |
| 1 11 | 8 29.15 | −31 7.8 | 0.701 | 1.500 | 32.5 | 19.5 | 125 W | 14 | 85 |
| 1 16 | 8 25.25 | −32 17.8 | 0.688 | 1.495 | 32.2 | 19.4 | 126 W | 13 | 84 |
| 1 21 | 8 20.81 | −33 7.8 | 0.677 | 1.491 | 31.9 | 19.4 | 127 W | 12 | 83 |
| **376848** 2001 $RY_{47}$ | | | | | | | | | |
| 10 3 | 6 57.92 | +39 53.8 | 0.799 | 1.261 | 52.5 | 21.3 | 88 W | 81* | 23* |
| 10 8 | 7 14.11 | +41 26.6 | 0.762 | 1.257 | 52.6 | 21.2 | 90 W | 83* | 21* |
| 10 13 | 7 31.22 | +43 1.5 | 0.726 | 1.252 | 52.8 | 21.1 | 92 W | 86* | 20* |
| 10 18 | 7 49.46 | +44 38.6 | 0.690 | 1.245 | 53.0 | 21.0 | 93 W | 87* | 18* |
| 10 23 | 8 9.08 | +46 17.2 | 0.654 | 1.236 | 53.3 | 20.9 | 95 W | 88* | 16* |
| 10 28 | 8 30.39 | +47 56.5 | 0.619 | 1.225 | 53.7 | 20.8 | 96 W | 87* | 14* |
| 11 2 | 8 53.73 | +49 35.0 | 0.585 | 1.213 | 54.3 | 20.6 | 97 W | 85* | 12* |
| 11 7 | 9 19.51 | +51 10.0 | 0.552 | 1.198 | 55.1 | 20.5 | 98 W | 84* | 10* |
| 11 12 | 9 48.16 | +52 37.7 | 0.521 | 1.182 | 56.0 | 20.4 | 98 W | 82* | 8* |
| 11 14 | 10 0.51 | +53 9.5 | 0.509 | 1.175 | 56.5 | 20.3 | 98 W | 82* | 7* |
| 11 16 | 10 13.42 | +53 38.8 | 0.498 | 1.167 | 57.0 | 20.3 | 98 W | 81* | 7* |
| 11 18 | 10 26.89 | +54 5.0 | 0.486 | 1.160 | 57.6 | 20.2 | 98 W | 81* | 6* |
| 11 20 | 10 40.92 | +54 27.7 | 0.475 | 1.152 | 58.3 | 20.2 | 98 W | 80* | 5* |
| 11 22 | 10 55.52 | +54 46.2 | 0.464 | 1.143 | 59.0 | 20.1 | 97 W | 80* | 4* |
| 11 24 | 11 10.67 | +54 59.9 | 0.454 | 1.135 | 59.7 | 20.1 | 97 W | 79* | 3* |
| 11 26 | 11 26.33 | +55 8.3 | 0.444 | 1.126 | 60.6 | 20.1 | 96 W | 79* | 3* |
| 11 28 | 11 42.45 | +55 10.5 | 0.434 | 1.117 | 61.5 | 20.0 | 96 W | 78* | 2* |
| 11 30 | 11 58.97 | +55 6.1 | 0.425 | 1.107 | 62.5 | 20.0 | 95 W | 78* | 1* |
| 12 2 | 12 15.80 | +54 54.3 | 0.416 | 1.098 | 63.6 | 20.0 | 94 W | 78* | 1* |
| 12 4 | 12 32.84 | +54 34.5 | 0.408 | 1.088 | 64.8 | 19.9 | 93 W | 77* | — |
| 12 6 | 12 49.99 | +54 6.3 | 0.400 | 1.077 | 66.1 | 19.9 | 92 W | 77* | — |
| 12 8 | 13 7.13 | +53 29.2 | 0.392 | 1.067 | 67.4 | 19.9 | 91 W | 76* | — |
| 12 10 | 13 24.15 | +52 42.8 | 0.385 | 1.056 | 68.9 | 19.9 | 90 W | 75* | — |
| 12 12 | 13 40.93 | +51 46.8 | 0.378 | 1.045 | 70.4 | 19.9 | 88 W | 75* | — |
| 12 14 | 13 57.39 | +50 41.1 | 0.372 | 1.033 | 72.1 | 19.8 | 87 W | 74* | — |
| 12 16 | 14 13.44 | +49 25.7 | 0.367 | 1.021 | 73.8 | 19.8 | 85 W | 73* | — |
| 12 18 | 14 29.01 | +48 0.6 | 0.361 | 1.009 | 75.7 | 19.9 | 84 W | 72* | — |
| 12 20 | 14 44.05 | +46 26.1 | 0.357 | 0.997 | 77.6 | 19.9 | 82 W | 71* | — |
| 12 22 | 14 58.52 | +44 42.3 | 0.353 | 0.984 | 79.6 | 19.9 | 80 W | 70* | — |
| 12 27 | 15 32.18 | +39 44.8 | 0.345 | 0.951 | 85.0 | 20.0 | 75 W | 66* | — |
| 1 1 | 16 2.34 | +33 59.1 | 0.342 | 0.917 | 90.8 | 20.1 | 69 W | 62* | 1* |
| 1 6 | 16 29.41 | +27 34.6 | 0.344 | 0.881 | 96.8 | 20.3 | 63 W | 57* | 4* |
| 1 11 | 16 53.98 | +20 43.0 | 0.351 | 0.844 | 102.7 | 20.5 | 57 W | 51* | 8* |
| 1 16 | 17 16.73 | +13 38.4 | 0.365 | 0.806 | 108.2 | 20.8 | 51 W | 45* | 11* |
| 1 21 | 17 38.34 | + 6 36.9 | 0.387 | 0.768 | 112.7 | 21.1 | 46 W | 38* | 15* |
| **234360** 2001 $MV_{25}$ | | | | | | | | | |
| 10 3 | 6 58.89 | +17 10.5 | 2.085 | 2.243 | 26.4 | 21.4 | 86 W | 61* | 45* |
| 10 13 | 7 8.45 | +16 55.7 | 1.989 | 2.273 | 26.0 | 21.4 | 93 W | 62 | 46* |
| 10 23 | 7 15.56 | +16 44.2 | 1.891 | 2.303 | 25.1 | 21.3 | 101 W | 62 | 47* |
| 11 2 | 7 19.90 | +16 38.4 | 1.795 | 2.332 | 23.5 | 21.1 | 110 W | 62 | 47 |
| 11 12 | 7 21.10 | +16 40.7 | 1.705 | 2.360 | 21.3 | 21.0 | 120 W | 62 | 47 |
| 11 22 | 7 18.94 | +16 53.0 | 1.625 | 2.387 | 18.4 | 20.8 | 130 W | 62 | 47 |
| 12 2 | 7 13.37 | +17 16.1 | 1.560 | 2.414 | 14.6 | 20.6 | 142 W | 62 | 47 |
| 12 12 | 7 4.65 | +17 49.3 | 1.516 | 2.440 | 10.2 | 20.4 | 154 W | 63 | 46 |
| 12 17 | 6 59.35 | +18 8.9 | 1.503 | 2.452 | 7.8 | 20.3 | 160 W | 63 | 46 |
| 12 22 | 6 53.59 | +18 29.9 | 1.497 | 2.465 | 5.3 | 20.2 | 167 W | 63 | 46 |
| 12 27 | 6 47.54 | +18 51.8 | 1.498 | 2.477 | 2.9 | 20.0 | 173 W | 64 | 45 |
| 1 1 | 6 41.39 | +19 14.2 | 1.507 | 2.489 | 1.5 | 20.0 | 176 E | 64 | 45 |
| 1 6 | 6 35.31 | +19 36.5 | 1.523 | 2.500 | 3.1 | 20.1 | 172 E | 65 | 44 |
| **234360** 2001 $MV_{25}$ *(continuation)* | | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 1 11 | 6 29.51 | +19 58.4 | 1.546 | 2.512 | 5.4 | 20.3 | 166 E | 65 | 44 |
| 1 16 | 6 24.15 | +20 19.7 | 1.576 | 2.523 | 7.7 | 20.4 | 160 E | 65 | 44 |
| 1 21 | 6 19.36 | +20 40.0 | 1.614 | 2.534 | 9.9 | 20.6 | 154 E | 66 | 43 |
| **154331** 2002 $VF_{95}$ | | | | | | | | | |
| 10 3 | 7 0.44 | +17 53.7 | 1.787 | 1.975 | 30.3 | 21.4 | 85 W | 61* | 44* |
| 10 13 | 7 12.54 | +17 7.6 | 1.705 | 2.008 | 29.8 | 21.4 | 92 W | 62* | 46* |
| 10 23 | 7 21.96 | +16 21.6 | 1.621 | 2.040 | 28.7 | 21.3 | 100 W | 61 | 47* |
| 11 2 | 7 28.36 | +15 38.5 | 1.539 | 2.073 | 27.1 | 21.1 | 108 W | 61 | 48 |
| 11 12 | 7 31.36 | +15 1.3 | 1.460 | 2.105 | 24.7 | 21.0 | 117 W | 60 | 49 |
| 11 22 | 7 30.67 | +14 32.7 | 1.389 | 2.136 | 21.6 | 20.8 | 127 W | 60 | 49 |
| 12 2 | 7 26.19 | +14 15.0 | 1.331 | 2.168 | 17.7 | 20.6 | 138 W | 59 | 50 |
| 12 12 | 7 18.15 | +14 9.7 | 1.291 | 2.198 | 13.0 | 20.4 | 150 W | 59 | 50 |
| 12 22 | 7 7.34 | +14 16.6 | 1.273 | 2.228 | 8.0 | 20.2 | 162 W | 59 | 50 |
| 12 27 | 7 1.29 | +14 24.2 | 1.274 | 2.243 | 5.6 | 20.1 | 167 W | 59 | 50 |
| 1 1 | 6 55.06 | +14 34.1 | 1.281 | 2.258 | 3.8 | 20.1 | 171 W | 60 | 49 |
| 1 6 | 6 48.87 | +14 46.0 | 1.296 | 2.272 | 3.8 | 20.1 | 171 E | 60 | 49 |
| 1 11 | 6 42.93 | +14 59.5 | 1.317 | 2.287 | 5.5 | 20.2 | 167 E | 60 | 49 |
| 1 16 | 6 37.43 | +15 14.2 | 1.346 | 2.301 | 7.7 | 20.4 | 162 E | 60 | 49 |
| 1 21 | 6 32.52 | +15 29.7 | 1.380 | 2.315 | 9.9 | 20.6 | 156 E | 60 | 49 |
| **356453** 2011 $LT_{26}$ | | | | | | | | | |
| 10 3 | 7 0.83 | +21 58.9 | 2.042 | 2.204 | 26.9 | 21.5 | 86 W | 65* | 40* |
| 10 13 | 7 10.31 | +21 19.6 | 1.951 | 2.241 | 26.4 | 21.4 | 93 W | 66* | 42* |
| 10 23 | 7 17.09 | +20 40.8 | 1.859 | 2.276 | 25.4 | 21.3 | 102 W | 66 | 43* |
| 11 2 | 7 20.87 | +20 4.4 | 1.768 | 2.311 | 23.7 | 21.2 | 111 W | 65 | 44 |
| 11 12 | 7 21.30 | +19 32.1 | 1.684 | 2.345 | 21.4 | 21.0 | 120 W | 65 | 44 |
| 11 22 | 7 18.21 | +19 4.9 | 1.610 | 2.379 | 18.2 | 20.9 | 131 W | 64 | 45 |
| 12 2 | 7 11.64 | +18 43.3 | 1.552 | 2.411 | 14.4 | 20.7 | 143 W | 64 | 45 |
| 12 12 | 7 1.98 | +18 26.9 | 1.515 | 2.442 | 9.9 | 20.5 | 155 W | 63 | 46 |
| 12 17 | 6 56.27 | +18 20.5 | 1.506 | 2.458 | 7.5 | 20.4 | 161 W | 63 | 46 |
| 12 22 | 6 50.17 | +18 14.9 | 1.504 | 2.473 | 5.0 | 20.3 | 167 W | 63 | 46 |
| 12 27 | 6 43.86 | +18 10.3 | 1.509 | 2.487 | 2.8 | 20.2 | 173 W | 63 | 46 |
| 1 1 | 6 37.53 | +18 6.3 | 1.521 | 2.502 | 2.0 | 20.1 | 175 E | 63 | 46 |
| 1 6 | 6 31.36 | +18 3.2 | 1.541 | 2.516 | 3.7 | 20.3 | 171 E | 63 | 46 |
| 1 11 | 6 25.54 | +18 0.7 | 1.568 | 2.530 | 5.9 | 20.5 | 165 E | 63 | 46 |
| 1 16 | 6 20.23 | +17 58.9 | 1.603 | 2.544 | 8.1 | 20.6 | 159 E | 63 | 46 |
| 1 21 | 6 15.53 | +17 57.9 | 1.643 | 2.558 | 10.2 | 20.8 | 153 E | 63 | 46 |
| **237709** 2001 $UN_{161}$ | | | | | | | | | |
| 10 3 | 7 0.88 | +20 33.1 | 2.078 | 2.234 | 26.5 | 21.4 | 85 W | 64* | 41* |
| 10 13 | 7 10.95 | +19 58.5 | 1.981 | 2.263 | 26.1 | 21.3 | 93 W | 65* | 43* |
| 10 23 | 7 18.50 | +19 24.7 | 1.883 | 2.291 | 25.2 | 21.2 | 101 W | 64 | 44* |
| 11 2 | 7 23.23 | +18 53.7 | 1.787 | 2.319 | 23.7 | 21.1 | 110 W | 64 | 45 |
| 11 12 | 7 24.79 | +18 27.5 | 1.696 | 2.346 | 21.6 | 20.9 | 119 W | 63 | 46 |
| 11 22 | 7 22.94 | +18 7.7 | 1.616 | 2.373 | 18.7 | 20.8 | 130 W | 63 | 46 |
| 12 2 | 7 17.65 | +17 55.1 | 1.550 | 2.398 | 15.0 | 20.6 | 141 W | 63 | 46 |
| 12 12 | 7 9.18 | +17 49.7 | 1.504 | 2.423 | 10.6 | 20.4 | 153 W | 63 | 46 |
| 12 22 | 6 58.35 | +17 50.5 | 1.483 | 2.448 | 5.9 | 20.2 | 165 W | 63 | 46 |
| 12 27 | 6 52.40 | +17 52.6 | 1.483 | 2.460 | 3.5 | 20.1 | 171 W | 63 | 46 |
| 1 1 | 6 46.33 | +17 55.7 | 1.490 | 2.471 | 2.0 | 20.0 | 175 W | 63 | 46 |
| 1 6 | 6 40.33 | +17 59.5 | 1.505 | 2.483 | 3.0 | 20.1 | 172 E | 63 | 46 |
| 1 11 | 6 34.60 | +18 3.8 | 1.526 | 2.494 | 5.2 | 20.2 | 167 E | 63 | 46 |
| 1 16 | 6 29.29 | +18 8.7 | 1.555 | 2.505 | 7.4 | 20.4 | 161 E | 63 | 46 |
| 1 21 | 6 24.54 | +18 13.9 | 1.591 | 2.516 | 9.6 | 20.5 | 155 E | 63 | 46 |
| **348612** 2005 $YP$ | | | | | | | | | |
| 10 3 | 7 2.25 | +30 7.6 | 1.601 | 1.831 | 33.0 | 21.4 | 86 W | 73* | 32* |
| 10 13 | 7 20.65 | +29 30.7 | 1.484 | 1.816 | 33.3 | 21.2 | 92 W | 74* | 33* |
| 10 23 | 7 37.23 | +28 46.2 | 1.367 | 1.800 | 33.2 | 21.0 | 98 W | 74 | 34* |
| 11 2 | 7 51.58 | +27 56.2 | 1.251 | 1.784 | 32.5 | 20.8 | 105 W | 73 | 36* |
| 11 12 | 8 3.13 | +27 2.3 | 1.139 | 1.768 | 31.3 | 20.6 | 112 W | 72 | 37 |
| 11 22 | 8 11.31 | +26 6.2 | 1.033 | 1.751 | 29.2 | 20.3 | 120 W | 71 | 38 |
| 11 27 | 8 13.91 | +25 37.7 | 0.982 | 1.742 | 27.8 | 20.1 | 124 W | 71 | 38 |
| 12 2 | 8 15.38 | +25 8.9 | 0.934 | 1.734 | 26.2 | 19.9 | 129 W | 70 | 39 |
| 12 7 | 8 15.64 | +24 39.9 | 0.888 | 1.725 | 24.3 | 19.8 | 134 W | 70 | 39 |
| 12 12 | 8 14.61 | +24 10.4 | 0.845 | 1.716 | 22.0 | 19.6 | 139 W | 69 | 40 |
| 12 22 | 8 8.55 | +23 8.9 | 0.771 | 1.698 | 16.5 | 19.2 | 151 W | 68 | 41 |
| 1 1 | 7 57.37 | +22 1.3 | 0.715 | 1.681 | 9.8 | 18.7 | 163 W | 67 | 42 |
| 1 11 | 7 42.34 | +20 44.9 | 0.681 | 1.663 | 2.0 | 18.2 | 177 W | 66 | 43 |
| 1 21 | 7 26.08 | +19 20.2 | 0.669 | 1.646 | 6.3 | 18.4 | 169 E | 64 | 45 |
| **455231** 2001 $SX_{111}$ | | | | | | | | | |
| 10 3 | 7 2.90 | +34 49.3 | 1.796 | 2.004 | 29.9 | 21.5 | 87 W | 77* | 27* |
| 10 13 | 7 15.96 | +35 28.8 | 1.723 | 2.046 | 29.1 | 21.4 | 94 W | 80* | 28* |
| 10 23 | 7 25.95 | +36 13.7 | 1.649 | 2.088 | 27.8 | 21.3 | 101 W | 81 | 27* |
| 11 2 | 7 32.38 | +37 6.1 | 1.577 | 2.129 | 26.0 | 21.2 | 110 W | 82 | 27* |
| 11 12 | 7 34.69 | +38 6.3 | 1.510 | 2.170 | 23.5 | 21.1 | 119 W | 83 | 26 |

**455231** 2001 $SX_{111}$ *(continuation)*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 11 22 | 7 32.42 | +39 11.6 | 1.453 | 2.210 | 20.4 | 20.9 | 129 W | 84 | 25 |
| 12 2 | 7 25.38 | +40 16.2 | 1.410 | 2.250 | 16.7 | 20.8 | 139 W | 85 | 24 |
| 12 12 | 7 13.86 | +41 10.5 | 1.386 | 2.289 | 12.7 | 20.7 | 149 W | 86 | 23 |
| 12 22 | 6 59.08 | +41 43.8 | 1.385 | 2.327 | 9.1 | 20.6 | 158 W | 87 | 22 |
| 1 1 | 6 42.98 | +41 48.6 | 1.411 | 2.364 | 7.7 | 20.6 | 161 E | 87 | 22 |
| 1 11 | 6 27.87 | +41 24.0 | 1.465 | 2.400 | 9.3 | 20.7 | 157 E | 86 | 23 |
| 1 21 | 6 15.67 | +40 36.0 | 1.544 | 2.435 | 12.4 | 21.0 | 148 E | 86 | 23 |

**358438** 2007 $DZ_{82}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 3.97 | − 3 13.9 | 1.698 | 1.859 | 32.3 | 21.5 | 83 W | 41* | 63* |
| 10 13 | 7 21.71 | − 5 36.1 | 1.596 | 1.836 | 32.9 | 21.3 | 87 W | 39* | 66* |
| 10 23 | 7 38.21 | − 8 8.1 | 1.496 | 1.814 | 33.3 | 21.2 | 91 W | 37 | 70* |
| 11 2 | 7 53.21 | −10 46.8 | 1.399 | 1.793 | 33.4 | 21.0 | 96 W | 34 | 74* |
| 11 12 | 8 6.38 | −13 27.8 | 1.306 | 1.773 | 33.3 | 20.8 | 100 W | 32 | 77* |
| 11 22 | 8 17.39 | −16 5.6 | 1.217 | 1.754 | 33.0 | 20.6 | 105 W | 29 | 80 |
| 12 2 | 8 25.85 | −18 33.5 | 1.132 | 1.737 | 32.2 | 20.4 | 110 W | 26 | 83 |
| 12 7 | 8 28.98 | −19 41.0 | 1.091 | 1.729 | 31.7 | 20.3 | 113 W | 25 | 84 |
| 12 12 | 8 31.32 | −20 42.3 | 1.052 | 1.721 | 31.1 | 20.2 | 115 W | 24 | 85 |
| 12 17 | 8 32.82 | −21 35.9 | 1.014 | 1.714 | 30.4 | 20.1 | 118 W | 23 | 86 |
| 12 22 | 8 33.48 | −22 20.3 | 0.977 | 1.707 | 29.6 | 20.0 | 121 W | 23 | 86 |
| 12 27 | 8 33.26 | −22 53.6 | 0.943 | 1.700 | 28.7 | 19.9 | 124 W | 22 | 87 |
| 1 1 | 8 32.18 | −23 13.9 | 0.911 | 1.694 | 27.7 | 19.8 | 127 W | 22 | 87 |
| 1 6 | 8 30.28 | −23 19.1 | 0.881 | 1.689 | 26.6 | 19.7 | 130 W | 22 | 87 |
| 1 11 | 8 27.67 | −23 7.3 | 0.854 | 1.684 | 25.4 | 19.6 | 133 W | 22 | 87 |
| 1 16 | 8 24.49 | −22 36.9 | 0.829 | 1.679 | 24.2 | 19.4 | 136 W | 22 | 87 |
| 1 21 | 8 20.91 | −21 46.8 | 0.808 | 1.675 | 23.1 | 19.4 | 138 W | 23 | 86 |

**418797** 2008 *VF*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 11.96 | +25 58.3 | 0.774 | 1.195 | 56.3 | 21.4 | 84 W | 68* | 35* |
| 10 8 | 7 22.35 | +23 36.6 | 0.738 | 1.199 | 56.3 | 21.3 | 86 W | 67* | 38* |
| 10 13 | 7 32.30 | +20 59.7 | 0.701 | 1.201 | 56.2 | 21.2 | 88 W | 66* | 41* |
| 10 18 | 7 41.83 | +18 5.5 | 0.664 | 1.201 | 56.1 | 21.0 | 90 W | 63* | 44* |
| 10 23 | 7 50.95 | +14 51.8 | 0.627 | 1.200 | 55.9 | 20.9 | 93 W | 60 | 47* |
| 10 28 | 7 59.66 | +11 16.0 | 0.590 | 1.197 | 55.8 | 20.8 | 95 W | 56 | 51* |
| 11 2 | 8 7.96 | + 7 15.3 | 0.555 | 1.192 | 55.8 | 20.6 | 97 W | 52 | 56* |
| 11 7 | 8 15.84 | + 2 46.9 | 0.521 | 1.186 | 55.7 | 20.5 | 99 W | 48 | 60* |
| 11 12 | 8 23.29 | − 2 11.8 | 0.489 | 1.178 | 55.8 | 20.3 | 100 W | 43 | 66* |
| 11 17 | 8 30.36 | − 7 42.4 | 0.460 | 1.168 | 56.1 | 20.2 | 101 W | 37 | 72* |
| 11 22 | 8 37.07 | −13 45.3 | 0.435 | 1.157 | 56.7 | 20.1 | 102 W | 31 | 78 |
| 11 27 | 8 43.46 | −20 18.9 | 0.414 | 1.144 | 57.7 | 20.0 | 102 W | 25 | 84 |
| 12 2 | 8 49.56 | −27 18.3 | 0.397 | 1.130 | 59.1 | 19.9 | 101 W | 18 | 89 |
| 12 7 | 8 55.46 | −34 35.9 | 0.386 | 1.113 | 60.9 | 19.8 | 99 W | 10 | 81 |
| 12 12 | 9 1.33 | −42 1.3 | 0.379 | 1.095 | 63.2 | 19.8 | 97 W | 3 | 74 |
| 12 14 | 9 3.73 | −44 59.2 | 0.377 | 1.088 | 64.2 | 19.8 | 96 W | — | 71 |
| 12 16 | 9 6.19 | −47 56.1 | 0.377 | 1.080 | 65.3 | 19.9 | 94 W | — | 68 |
| 12 18 | 9 8.75 | −50 51.3 | 0.377 | 1.072 | 66.5 | 19.9 | 93 W | — | 65 |
| 12 20 | 9 11.45 | −53 44.3 | 0.377 | 1.064 | 67.6 | 19.9 | 92 W | — | 62 |
| 12 22 | 9 14.33 | −56 34.6 | 0.379 | 1.055 | 68.8 | 19.9 | 90 W | — | 59 |
| 12 24 | 9 17.46 | −59 21.8 | 0.380 | 1.046 | 70.0 | 20.0 | 89 W | — | 57 |
| 12 26 | 9 20.93 | −62 5.7 | 0.383 | 1.037 | 71.3 | 20.0 | 87 W | — | 54 |
| 12 28 | 9 24.85 | −64 45.9 | 0.385 | 1.028 | 72.6 | 20.0 | 85 W | — | 51 |
| 12 30 | 9 29.40 | −67 22.2 | 0.388 | 1.018 | 73.8 | 20.1 | 84 W | — | 49 |
| 1 1 | 9 34.79 | −69 54.6 | 0.392 | 1.008 | 75.1 | 20.1 | 82 W | — | 46 |
| 1 2 | 9 37.92 | −71 9.2 | 0.394 | 1.003 | 75.7 | 20.1 | 81 W | — | 45 |
| 1 3 | 9 41.41 | −72 22.7 | 0.396 | 0.998 | 76.4 | 20.2 | 81 W | — | 44 |
| 1 4 | 9 45.35 | −73 35.2 | 0.398 | 0.993 | 77.0 | 20.2 | 80 W | — | 42 |
| 1 5 | 9 49.82 | −74 46.5 | 0.400 | 0.988 | 77.6 | 20.2 | 79 W | — | 41 |
| 1 6 | 9 54.96 | −75 56.7 | 0.402 | 0.983 | 78.3 | 20.2 | 78 W | — | 40 |
| 1 7 | 10 0.95 | −77 5.6 | 0.404 | 0.978 | 78.9 | 20.2 | 77 W | — | 39 |
| 1 8 | 10 8.00 | −78 13.3 | 0.406 | 0.972 | 79.6 | 20.3 | 76 W | — | 38 |
| 1 9 | 10 16.44 | −79 19.4 | 0.409 | 0.967 | 80.2 | 20.3 | 76 W | — | 37 |
| 1 10 | 10 26.68 | −80 23.9 | 0.411 | 0.961 | 80.8 | 20.3 | 75 W | — | 36 |
| 1 11 | 10 39.35 | −81 26.4 | 0.413 | 0.956 | 81.5 | 20.3 | 74 W | — | 35 |
| 1 12 | 10 55.31 | −82 26.3 | 0.416 | 0.950 | 82.1 | 20.4 | 73 W | — | 34 |
| 1 13 | 11 15.83 | −83 23.0 | 0.418 | 0.945 | 82.7 | 20.4 | 72 W | — | 33 |
| 1 14 | 11 42.65 | −84 15.0 | 0.420 | 0.939 | 83.3 | 20.4 | 72 W | — | 32 |
| 1 15 | 12 18.06 | −85 0.5 | 0.423 | 0.934 | 84.0 | 20.4 | 71 W | — | 31 |
| 1 16 | 13 4.25 | −85 36.2 | 0.425 | 0.928 | 84.6 | 20.4 | 70 W | — | 30* |
| 1 17 | 14 1.37 | −85 58.1 | 0.428 | 0.922 | 85.2 | 20.5 | 69 W | — | 30* |
| 1 18 | 15 4.80 | −86 2.8 | 0.430 | 0.916 | 85.9 | 20.5 | 68 W | — | 29* |
| 1 19 | 16 5.74 | −85 49.5 | 0.433 | 0.910 | 86.5 | 20.5 | 67 W | — | 29* |
| 1 20 | 16 57.17 | −85 20.8 | 0.436 | 0.905 | 87.1 | 20.5 | 67 W | — | 28* |

**265187** 2003 $YS_{117}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 26.99 | +54 49.6 | 1.304 | 1.585 | 39.0 | 21.4 | 86 W | 75* | 7* |
| 10 8 | 7 37.35 | +55 6.9 | 1.270 | 1.596 | 38.7 | 21.4 | 89 W | 77* | 7* |
| 10 13 | 7 46.68 | +55 25.4 | 1.234 | 1.606 | 38.4 | 21.3 | 91 W | 78* | 7* |
| 10 18 | 7 54.85 | +55 45.7 | 1.196 | 1.616 | 37.9 | 21.3 | 95 W | 79* | 7* |
| 10 23 | 8 1.75 | +56 8.5 | 1.158 | 1.624 | 37.4 | 21.2 | 98 W | 79* | 7* |
| 10 28 | 8 7.20 | +56 34.4 | 1.118 | 1.632 | 36.7 | 21.1 | 101 W | 78 | 7* |

**265187** 2003 $YS_{117}$ *(continuation)*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 11 2 | 8 10.99 | +57 3.7 | 1.078 | 1.639 | 35.9 | 21.0 | 105 W | 78 | 7* |
| 11 7 | 8 12.85 | +57 36.6 | 1.038 | 1.645 | 34.9 | 20.9 | 108 W | 77 | 6* |
| 11 12 | 8 12.48 | +58 12.5 | 0.998 | 1.650 | 33.7 | 20.8 | 112 W | 77 | 6* |
| 11 17 | 8 9.54 | +58 50.4 | 0.958 | 1.654 | 32.4 | 20.7 | 116 W | 76 | 5 |
| 11 22 | 8 3.67 | +59 28.4 | 0.920 | 1.657 | 30.9 | 20.5 | 121 W | 76 | 5 |
| 11 27 | 7 54.46 | +60 3.7 | 0.884 | 1.660 | 29.2 | 20.4 | 125 W | 75 | 4 |
| 12 2 | 7 41.63 | +60 31.6 | 0.851 | 1.661 | 27.3 | 20.3 | 129 W | 74 | 3 |
| 12 7 | 7 25.12 | +60 46.3 | 0.821 | 1.662 | 25.4 | 20.1 | 134 W | 74 | 3 |
| 12 12 | 7 5.34 | +60 40.5 | 0.795 | 1.662 | 23.4 | 20.0 | 138 W | 74 | 3 |
| 12 14 | 6 56.71 | +60 31.0 | 0.785 | 1.661 | 22.7 | 20.0 | 139 W | 74 | 3 |
| 12 16 | 6 47.79 | +60 16.7 | 0.777 | 1.661 | 22.0 | 19.9 | 141 W | 75 | 4 |
| 12 18 | 6 38.68 | +59 57.5 | 0.770 | 1.660 | 21.3 | 19.9 | 142 W | 75 | 4 |
| 12 20 | 6 29.48 | +59 33.0 | 0.763 | 1.659 | 20.8 | 19.8 | 143 W | 75 | 4 |
| 12 22 | 6 20.29 | +59 3.1 | 0.758 | 1.659 | 20.3 | 19.8 | 144 W | 76 | 5 |
| 12 24 | 6 11.22 | +58 27.9 | 0.753 | 1.657 | 19.9 | 19.8 | 145 W | 77 | 6 |
| 12 26 | 6 2.36 | +57 47.3 | 0.749 | 1.656 | 19.7 | 19.8 | 145 E | 77 | 6 |
| 12 28 | 5 53.81 | +57 1.7 | 0.747 | 1.655 | 19.5 | 19.7 | 146 E | 78 | 7 |
| 12 30 | 5 45.64 | +56 11.3 | 0.745 | 1.653 | 19.6 | 19.7 | 146 E | 79 | 8 |
| 1 1 | 5 37.91 | +55 16.4 | 0.745 | 1.652 | 19.7 | 19.7 | 145 E | 80 | 9 |
| 1 3 | 5 30.68 | +54 17.6 | 0.745 | 1.650 | 20.0 | 19.7 | 145 E | 81 | 10 |
| 1 5 | 5 23.98 | +53 15.4 | 0.747 | 1.648 | 20.4 | 19.8 | 144 E | 82 | 11 |
| 1 7 | 5 17.83 | +52 10.2 | 0.750 | 1.646 | 21.0 | 19.8 | 143 E | 83 | 12 |
| 1 9 | 5 12.23 | +51 2.8 | 0.753 | 1.644 | 21.6 | 19.8 | 142 E | 84 | 13 |
| 1 11 | 5 7.18 | +49 53.6 | 0.758 | 1.642 | 22.3 | 19.8 | 141 E | 85 | 14 |
| 1 13 | 5 2.68 | +48 43.1 | 0.764 | 1.639 | 23.1 | 19.9 | 139 E | 86 | 15 |
| 1 15 | 4 58.69 | +47 31.9 | 0.771 | 1.636 | 24.0 | 19.9 | 137 E | 87 | 16 |
| 1 17 | 4 55.21 | +46 20.4 | 0.778 | 1.634 | 24.9 | 20.0 | 136 E | 89 | 18 |
| 1 19 | 4 52.20 | +45 9.1 | 0.787 | 1.631 | 25.8 | 20.0 | 134 E | 90 | 19 |
| 1 21 | 4 49.64 | +43 58.3 | 0.796 | 1.628 | 26.7 | 20.1 | 132 E | 89 | 20 |

**175816** 1999 $RZ_{230}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 42.44 | +23 37.7 | 2.175 | 2.169 | 26.6 | 21.5 | 76 W | 62* | 35* |
| 10 13 | 7 55.93 | +23 32.0 | 2.088 | 2.205 | 26.7 | 21.4 | 83 W | 66* | 36* |
| 10 23 | 8 7.33 | +23 31.1 | 1.998 | 2.240 | 26.4 | 21.3 | 91 W | 68* | 38* |
| 11 2 | 8 16.35 | +23 37.7 | 1.906 | 2.276 | 25.6 | 21.3 | 98 W | 69 | 39* |
| 11 12 | 8 22.62 | +23 54.3 | 1.816 | 2.310 | 24.2 | 21.1 | 107 W | 69 | 40* |
| 11 22 | 8 25.80 | +24 23.1 | 1.730 | 2.345 | 22.1 | 21.0 | 117 W | 69 | 40 |
| 12 2 | 8 25.58 | +25 4.6 | 1.653 | 2.379 | 19.4 | 20.9 | 127 W | 70 | 39 |
| 12 12 | 8 21.76 | +25 57.7 | 1.590 | 2.412 | 15.9 | 20.7 | 138 W | 71 | 38 |
| 12 22 | 8 14.46 | +26 58.3 | 1.545 | 2.445 | 11.8 | 20.5 | 150 W | 72 | 37 |
| 1 1 | 8 4.26 | +27 59.8 | 1.525 | 2.477 | 7.3 | 20.3 | 161 W | 73 | 36 |
| 1 6 | 7 58.38 | +28 28.6 | 1.525 | 2.492 | 5.1 | 20.2 | 167 W | 73 | 36 |
| 1 11 | 7 52.22 | +28 54.7 | 1.532 | 2.508 | 3.5 | 20.2 | 171 W | 74 | 35 |
| 1 16 | 7 45.99 | +29 17.4 | 1.546 | 2.523 | 3.2 | 20.2 | 172 E | 74 | 35 |
| 1 21 | 7 39.89 | +29 36.4 | 1.568 | 2.539 | 4.6 | 20.3 | 168 E | 75 | 34 |

**504181** 2006 *TC*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 46.73 | − 1 45.8 | 1.065 | 1.218 | 51.5 | 21.2 | 72 W | 39* | 55* |
| 10 8 | 8 10.88 | − 3 38.4 | 0.972 | 1.138 | 55.9 | 20.9 | 71 W | 38* | 54* |
| 10 13 | 8 39.46 | − 5 49.7 | 0.887 | 1.054 | 61.2 | 20.7 | 68 W | 35* | 53* |
| 10 18 | 9 13.63 | − 8 19.0 | 0.814 | 0.965 | 67.5 | 20.6 | 63 W | 32* | 51* |
| 10 23 | 9 54.49 | −11 0.1 | 0.757 | 0.869 | 75.1 | 20.4 | 58 W | 28* | 46* |
| 10 25 | 10 12.84 | −12 4.8 | 0.740 | 0.830 | 78.4 | 20.4 | 55 W | 27* | 44* |
| 10 27 | 10 32.32 | −13 7.5 | 0.728 | 0.788 | 81.8 | 20.4 | 52 W | 25* | 41* |
| 10 29 | 10 52.83 | −14 6.7 | 0.720 | 0.746 | 85.3 | 20.3 | 48 W | 23* | 39* |
| 10 31 | 11 14.25 | −15 0.6 | 0.716 | 0.702 | 88.8 | 20.3 | 45 W | 21* | 36* |
| 11 2 | 11 36.39 | −15 47.4 | 0.719 | 0.657 | 92.2 | 20.3 | 41 W | 19* | 32* |
| 11 4 | 11 59.03 | −16 25.8 | 0.726 | 0.610 | 95.4 | 20.3 | 38 W | 17* | 29* |
| 11 6 | 12 21.92 | −16 54.8 | 0.740 | 0.561 | 98.3 | 20.3 | 34 W | 15* | 25* |
| 11 8 | 12 44.85 | −17 14.1 | 0.760 | 0.511 | 100.6 | 20.3 | 30 W | 13* | 22* |
| 11 10 | 13 7.64 | −17 23.8 | 0.787 | 0.458 | 102.2 | 20.2 | 27 W | 11* | 18* |
| 11 12 | 13 30.23 | −17 24.8 | 0.821 | 0.402 | 102.6 | 20.1 | 23 W | 9* | 15* |
| 11 14 | 13 52.70 | −17 18.8 | 0.863 | 0.344 | 101.3 | 19.8 | 20 W | 8* | 11* |
| 11 16 | 14 15.37 | −17 8.1 | 0.913 | 0.284 | 97.1 | 19.3 | 17 W | 6* | 8* |
| 11 18 | 14 39.02 | −16 56.7 | 0.972 | 0.222 | 87.7 | 18.5 | 13 W | 4* | 4* |
| 11 20 | 15 5.23 | −16 53.7 | 1.039 | 0.166 | 67.8 | 17.3 | 9 W | 2* | — |
| 11 22 | 15 36.05 | −17 18.4 | 1.100 | 0.136 | 32.3 | 15.9 | 4 W | — | — |
| 11 23 | 15 52.78 | −17 46.9 | 1.120 | 0.140 | 17.9 | 15.6 | 3 W | — | — |
| 11 24 | 16 9.29 | −18 23.1 | 1.131 | 0.157 | 21.9 | 16.0 | 3 E | — | — |
| 11 25 | 16 25.00 | −19 2.2 | 1.137 | 0.182 | 32.0 | 16.6 | 6 E | — | — |
| 11 26 | 16 39.81 | −19 41.0 | 1.139 | 0.210 | 40.2 | 17.2 | 8 E | — | — |
| 11 27 | 16 53.81 | −20 17.8 | 1.139 | 0.241 | 46.0 | 17.6 | 10 E | 1* | 2* |
| 11 28 | 17 7.14 | −20 51.8 | 1.139 | 0.272 | 50.0 | 18.0 | 12 E | 2* | 5* |
| 11 29 | 17 19.91 | −21 22.8 | 1.140 | 0.302 | 52.7 | 18.3 | 14 E | 3* | 6* |
| 11 30 | 17 32.19 | −21 50.6 | 1.141 | 0.332 | 54.5 | 18.6 | 16 E | 4* | 8* |
| 12 1 | 17 44.06 | −22 15.3 | 1.144 | 0.362 | 55.7 | 18.8 | 18 E | 5* | 10* |
| 12 2 | 17 55.55 | −22 37.0 | 1.147 | 0.391 | 56.4 | 19.0 | 19 E | 6* | 11* |

**504181** 2006 *TC* *(continuation)*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 12 4 | 18 17.49 | −23 11.5 | 1.157 | 0.447 | 56.7 | 19.3 | 22 E | 7* | 14* |
| 12 6 | 18 38.17 | −23 35.3 | 1.171 | 0.500 | 56.2 | 19.6 | 25 E | 9* | 17* |
| 12 8 | 18 57.66 | −23 49.3 | 1.189 | 0.552 | 55.2 | 19.8 | 27 E | 10* | 19* |
| 12 10 | 19 16.02 | −23 54.8 | 1.211 | 0.601 | 53.9 | 20.0 | 30 E | 11* | 21* |
| 12 12 | 19 33.28 | −23 53.1 | 1.235 | 0.648 | 52.4 | 20.1 | 31 E | 12* | 23* |
| 12 14 | 19 49.50 | −23 45.2 | 1.263 | 0.694 | 50.8 | 20.3 | 33 E | 13* | 24* |
| 12 16 | 20 4.71 | −23 32.2 | 1.292 | 0.738 | 49.2 | 20.4 | 35 E | 14* | 26* |
| 12 18 | 20 18.99 | −23 15.0 | 1.324 | 0.780 | 47.6 | 20.6 | 36 E | 15* | 27* |
| 12 20 | 20 32.38 | −22 54.6 | 1.358 | 0.821 | 46.0 | 20.7 | 37 E | 15* | 27* |
| 12 22 | 20 44.94 | −22 31.4 | 1.393 | 0.862 | 44.4 | 20.8 | 38 E | 16* | 28* |
| 12 27 | 21 13.15 | −21 25.7 | 1.486 | 0.957 | 40.7 | 21.1 | 39 E | 18* | 29* |
| 1 1 | 21 37.49 | −20 13.8 | 1.585 | 1.047 | 37.3 | 21.3 | 40 E | 19* | 29* |
| 1 6 | 21 58.71 | −18 59.8 | 1.686 | 1.131 | 34.2 | 21.5 | 40 E | 20* | 29* |
| 1 11 | 22 17.44 | −17 45.9 | 1.790 | 1.212 | 31.3 | 21.7 | 40 E | 20* | 28* |

**140288** 2001 $SN_{289}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 48.17 | +79 57.0 | 2.198 | 2.426 | 24.4 | 21.5 | 91 W | 54* | — |
| 10 4 | 7 55.45 | +80 11.9 | 2.189 | 2.422 | 24.4 | 21.5 | 91 W | 54* | — |
| 10 5 | 8 3.00 | +80 26.4 | 2.180 | 2.419 | 24.4 | 21.4 | 91 W | 54* | — |
| 10 6 | 8 10.82 | +80 40.5 | 2.171 | 2.415 | 24.4 | 21.4 | 92 W | 53* | — |
| 10 7 | 8 18.94 | +80 54.3 | 2.162 | 2.412 | 24.5 | 21.4 | 92 W | 53* | — |
| 10 8 | 8 27.36 | +81 7.6 | 2.153 | 2.408 | 24.5 | 21.4 | 92 W | 53* | — |
| 10 9 | 8 36.10 | +81 20.5 | 2.144 | 2.405 | 24.5 | 21.4 | 92 W | 53* | — |
| 10 10 | 8 45.16 | +81 32.9 | 2.136 | 2.401 | 24.5 | 21.4 | 93 W | 52* | — |
| 10 11 | 8 54.56 | +81 44.8 | 2.127 | 2.398 | 24.6 | 21.4 | 93 W | 52* | — |
| 10 12 | 9 4.29 | +81 56.2 | 2.119 | 2.394 | 24.6 | 21.4 | 93 W | 52* | — |
| 10 13 | 9 14.37 | +82 6.9 | 2.110 | 2.390 | 24.6 | 21.4 | 94 W | 52* | — |
| 10 15 | 9 35.55 | +82 26.6 | 2.094 | 2.383 | 24.7 | 21.3 | 94 W | 51* | — |
| 10 17 | 9 58.07 | +82 43.4 | 2.077 | 2.376 | 24.7 | 21.3 | 95 W | 51* | — |
| 10 19 | 10 21.82 | +82 57.2 | 2.061 | 2.368 | 24.8 | 21.3 | 95 W | 50* | — |
| 10 21 | 10 46.60 | +83 7.7 | 2.046 | 2.361 | 24.8 | 21.3 | 96 W | 50* | — |
| 10 23 | 11 12.13 | +83 14.8 | 2.030 | 2.353 | 24.9 | 21.2 | 96 W | 49* | — |
| 10 24 | 11 25.07 | +83 17.0 | 2.022 | 2.349 | 24.9 | 21.2 | 96 W | 49* | — |
| 10 25 | 11 38.06 | +83 18.3 | 2.015 | 2.345 | 24.9 | 21.2 | 96 W | 49* | — |
| 10 26 | 11 51.05 | +83 18.7 | 2.007 | 2.341 | 24.9 | 21.2 | 97 W | 49* | — |
| 10 27 | 12 4.00 | +83 18.3 | 2.000 | 2.337 | 25.0 | 21.2 | 97 W | 49* | — |
| 10 28 | 12 16.86 | +83 17.0 | 1.993 | 2.333 | 25.0 | 21.2 | 97 W | 48* | — |
| 10 29 | 12 29.58 | +83 14.8 | 1.985 | 2.329 | 25.0 | 21.2 | 97 W | 48* | — |
| 10 30 | 12 42.11 | +83 11.9 | 1.978 | 2.325 | 25.1 | 21.2 | 97 W | 48* | — |
| 10 31 | 12 54.43 | +83 8.1 | 1.971 | 2.321 | 25.1 | 21.2 | 98 W | 48* | — |
| 11 1 | 13 6.51 | +83 3.7 | 1.964 | 2.317 | 25.1 | 21.1 | 98 W | 48* | — |
| 11 2 | 13 18.30 | +82 58.5 | 1.957 | 2.313 | 25.1 | 21.1 | 98 W | 47* | — |
| 11 3 | 13 29.80 | +82 52.7 | 1.950 | 2.309 | 25.2 | 21.1 | 98 W | 47* | — |
| 11 4 | 13 40.99 | +82 46.3 | 1.943 | 2.305 | 25.2 | 21.1 | 98 W | 47* | — |
| 11 5 | 13 51.86 | +82 39.3 | 1.937 | 2.301 | 25.2 | 21.1 | 98 W | 47* | — |
| 11 6 | 14 2.40 | +82 31.8 | 1.930 | 2.297 | 25.3 | 21.1 | 99 W | 47* | — |
| 11 7 | 14 12.61 | +82 23.8 | 1.923 | 2.293 | 25.3 | 21.1 | 99 W | 47* | — |
| 11 8 | 14 22.49 | +82 15.3 | 1.917 | 2.288 | 25.3 | 21.1 | 99 W | 47* | — |
| 11 9 | 14 32.05 | +82 6.5 | 1.910 | 2.284 | 25.4 | 21.1 | 99 W | 46* | — |
| 11 10 | 14 41.29 | +81 57.3 | 1.904 | 2.280 | 25.4 | 21.1 | 99 W | 46* | — |
| 11 11 | 14 50.22 | +81 47.8 | 1.897 | 2.276 | 25.4 | 21.0 | 99 W | 46* | — |
| 11 12 | 14 58.85 | +81 38.1 | 1.891 | 2.271 | 25.5 | 21.0 | 99 W | 46* | — |
| 11 13 | 15 7.19 | +81 28.0 | 1.885 | 2.267 | 25.5 | 21.0 | 99 W | 46* | — |
| 11 14 | 15 15.26 | +81 17.8 | 1.879 | 2.262 | 25.6 | 21.0 | 99 W | 46* | — |
| 11 15 | 15 23.07 | +81 7.4 | 1.873 | 2.258 | 25.6 | 21.0 | 100 E | 46* | — |
| 11 16 | 15 30.63 | +80 56.8 | 1.867 | 2.254 | 25.6 | 21.0 | 100 E | 46* | — |
| 11 17 | 15 37.95 | +80 46.1 | 1.861 | 2.249 | 25.7 | 21.0 | 100 E | 46* | — |
| 11 18 | 15 45.04 | +80 35.2 | 1.855 | 2.245 | 25.7 | 21.0 | 100 E | 47* | — |
| 11 19 | 15 51.93 | +80 24.3 | 1.849 | 2.240 | 25.8 | 21.0 | 100 E | 47* | — |
| 11 20 | 15 58.61 | +80 13.4 | 1.843 | 2.236 | 25.8 | 21.0 | 100 E | 47* | — |
| 11 21 | 16 5.10 | +80 2.4 | 1.838 | 2.231 | 25.9 | 20.9 | 100 E | 47* | — |
| 11 22 | 16 11.42 | +79 51.3 | 1.832 | 2.227 | 25.9 | 20.9 | 100 E | 47* | — |
| 11 23 | 16 17.57 | +79 40.3 | 1.827 | 2.222 | 26.0 | 20.9 | 100 E | 47* | — |
| 11 24 | 16 23.56 | +79 29.3 | 1.821 | 2.218 | 26.0 | 20.9 | 100 E | 47* | — |
| 11 25 | 16 29.40 | +79 18.3 | 1.816 | 2.213 | 26.1 | 20.9 | 100 E | 48* | — |
| 11 26 | 16 35.11 | +79 7.4 | 1.810 | 2.208 | 26.1 | 20.9 | 100 E | 48* | — |
| 11 27 | 16 40.68 | +78 56.6 | 1.805 | 2.204 | 26.2 | 20.9 | 100 E | 48* | — |
| 11 28 | 16 46.13 | +78 45.8 | 1.800 | 2.199 | 26.2 | 20.9 | 100 E | 48* | — |
| 11 29 | 16 51.47 | +78 35.1 | 1.794 | 2.194 | 26.3 | 20.9 | 100 E | 48* | — |
| 11 30 | 16 56.70 | +78 24.5 | 1.789 | 2.189 | 26.3 | 20.9 | 100 E | 48* | — |
| 12 1 | 17 1.84 | +78 14.0 | 1.784 | 2.185 | 26.4 | 20.8 | 100 E | 48* | — |
| 12 2 | 17 6.87 | +78 3.6 | 1.779 | 2.180 | 26.4 | 20.8 | 100 E | 48* | — |
| 12 4 | 17 16.69 | +77 43.3 | 1.769 | 2.170 | 26.6 | 20.8 | 100 E | 49* | — |
| 12 6 | 17 26.19 | +77 23.6 | 1.759 | 2.160 | 26.7 | 20.8 | 100 E | 49* | — |
| 12 8 | 17 35.42 | +77 4.6 | 1.749 | 2.150 | 26.8 | 20.8 | 100 E | 49* | — |
| 12 10 | 17 44.41 | +76 46.3 | 1.740 | 2.140 | 27.0 | 20.8 | 100 E | 49* | — |
| 12 12 | 17 53.20 | +76 28.8 | 1.731 | 2.130 | 27.1 | 20.7 | 100 E | 49* | — |
| 12 14 | 18 1.80 | +76 12.1 | 1.722 | 2.120 | 27.2 | 20.7 | 100 E | 49* | — |
| 12 16 | 18 10.26 | +75 56.3 | 1.713 | 2.110 | 27.4 | 20.7 | 99 E | 49* | — |

**140288** 2001 $SN_{289}$ *(continuation)*

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 12 18 | 18 18.59 | +75 41.4 | 1.704 | 2.100 | 27.6 | 20.7 | 99 E | 49* | — |
| 12 20 | 18 26.81 | +75 27.4 | 1.695 | 2.089 | 27.7 | 20.7 | 99 E | 49* | — |
| 12 22 | 18 34.96 | +75 14.3 | 1.686 | 2.079 | 27.9 | 20.7 | 99 E | 49* | — |
| 12 24 | 18 43.05 | +75 2.3 | 1.678 | 2.068 | 28.1 | 20.6 | 99 E | 49* | — |
| 12 26 | 18 51.09 | +74 51.2 | 1.669 | 2.057 | 28.2 | 20.6 | 98 E | 49* | — |
| 12 28 | 18 59.11 | +74 41.2 | 1.661 | 2.046 | 28.4 | 20.6 | 98 E | 49* | — |
| 12 30 | 19 7.13 | +74 32.2 | 1.653 | 2.035 | 28.6 | 20.6 | 98 E | 49* | — |
| 1 1 | 19 15.16 | +74 24.3 | 1.644 | 2.024 | 28.8 | 20.6 | 98 E | 49* | — |
| 1 3 | 19 23.22 | +74 17.4 | 1.636 | 2.013 | 29.0 | 20.6 | 97 E | 49* | — |
| 1 5 | 19 31.31 | +74 11.6 | 1.628 | 2.002 | 29.2 | 20.5 | 97 E | 49* | — |
| 1 7 | 19 39.47 | +74 6.9 | 1.620 | 1.990 | 29.4 | 20.5 | 97 E | 49* | — |
| 1 9 | 19 47.69 | +74 3.3 | 1.612 | 1.979 | 29.6 | 20.5 | 96 E | 49* | — |
| 1 11 | 19 56.01 | +74 0.7 | 1.604 | 1.967 | 29.8 | 20.5 | 96 E | 49* | — |
| 1 13 | 20 4.43 | +73 59.1 | 1.596 | 1.956 | 30.0 | 20.5 | 96 E | 48* | — |
| 1 15 | 20 12.98 | +73 58.6 | 1.588 | 1.944 | 30.3 | 20.5 | 95 E | 48* | — |
| 1 17 | 20 21.67 | +73 59.0 | 1.581 | 1.932 | 30.5 | 20.4 | 95 E | 48* | — |
| 1 19 | 20 30.53 | +74 0.4 | 1.573 | 1.920 | 30.7 | 20.4 | 95 E | 48* | — |
| 1 21 | 20 39.58 | +74 2.7 | 1.565 | 1.908 | 31.0 | 20.4 | 94 E | 48* | — |

**504901** 2011 $AJ_{11}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 7 50.88 | +24 36.2 | 1.793 | 1.807 | 32.3 | 21.4 | 75 W | 62* | 33* |
| 10 13 | 8 16.45 | +25 20.5 | 1.665 | 1.771 | 33.6 | 21.3 | 79 W | 66* | 33* |
| 10 23 | 8 42.69 | +26 6.4 | 1.543 | 1.736 | 34.7 | 21.1 | 83 W | 69* | 32* |
| 11 2 | 9 9.61 | +26 56.4 | 1.425 | 1.704 | 35.6 | 20.9 | 88 W | 72* | 32* |
| 11 12 | 9 37.17 | +27 52.9 | 1.315 | 1.674 | 36.2 | 20.7 | 92 W | 73 | 32* |
| 11 22 | 10 5.30 | +28 58.5 | 1.212 | 1.646 | 36.6 | 20.5 | 96 W | 74 | 31* |
| 11 27 | 10 19.54 | +29 35.4 | 1.164 | 1.633 | 36.7 | 20.4 | 98 W | 75 | 31* |
| 12 2 | 10 33.85 | +30 15.4 | 1.119 | 1.621 | 36.7 | 20.3 | 101 W | 75 | 31* |
| 12 7 | 10 48.19 | +30 58.8 | 1.076 | 1.610 | 36.7 | 20.2 | 103 W | 76 | 31* |
| 12 12 | 11 2.51 | +31 45.7 | 1.036 | 1.599 | 36.6 | 20.1 | 105 W | 77 | 30* |
| 12 17 | 11 16.75 | +32 36.1 | 0.999 | 1.589 | 36.4 | 20.0 | 107 W | 78 | 30* |
| 12 22 | 11 30.85 | +33 30.1 | 0.964 | 1.581 | 36.2 | 19.9 | 108 W | 78 | 29* |
| 12 27 | 11 44.71 | +34 27.4 | 0.932 | 1.573 | 35.9 | 19.8 | 110 W | 79 | 29* |
| 1 1 | 11 58.22 | +35 28.1 | 0.903 | 1.566 | 35.5 | 19.7 | 112 W | 80 | 28* |
| 1 6 | 12 11.27 | +36 31.9 | 0.877 | 1.560 | 35.2 | 19.6 | 114 W | 82 | 27* |
| 1 11 | 12 23.72 | +37 38.2 | 0.853 | 1.556 | 34.8 | 19.6 | 116 W | 83 | 26* |
| 1 16 | 12 35.45 | +38 46.4 | 0.832 | 1.552 | 34.3 | 19.5 | 117 W | 84 | 25 |
| 1 21 | 12 46.31 | +39 56.0 | 0.814 | 1.549 | 33.8 | 19.4 | 119 W | 85 | 24 |

**331991** 2005 $FD_3$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 8 45.48 | +16 16.0 | 2.836 | 2.497 | 20.4 | 21.5 | 60 W | 48* | 32* |
| 10 13 | 8 59.93 | +16 37.2 | 2.682 | 2.468 | 21.8 | 21.4 | 67 W | 53* | 34* |
| 10 23 | 9 13.91 | +17 6.9 | 2.522 | 2.439 | 23.1 | 21.2 | 74 W | 58* | 36* |
| 11 2 | 9 27.35 | +17 48.8 | 2.357 | 2.409 | 24.0 | 21.1 | 81 W | 62* | 38* |
| 11 12 | 9 40.06 | +18 47.3 | 2.190 | 2.379 | 24.6 | 20.9 | 88 W | 64 | 39* |
| 11 22 | 9 51.89 | +20 7.8 | 2.025 | 2.348 | 24.7 | 20.7 | 96 W | 65 | 41* |
| 12 2 | 10 2.61 | +21 56.1 | 1.863 | 2.316 | 24.3 | 20.5 | 104 W | 67 | 41* |
| 12 12 | 10 11.87 | +24 19.0 | 1.710 | 2.284 | 23.4 | 20.3 | 113 W | 69 | 40* |
| 12 22 | 10 19.29 | +27 22.1 | 1.570 | 2.251 | 21.7 | 20.0 | 122 W | 72 | 37 |
| 1 1 | 10 24.35 | +31 9.0 | 1.446 | 2.218 | 19.6 | 19.7 | 131 W | 76 | 33 |
| 1 6 | 10 25.78 | +33 18.7 | 1.392 | 2.202 | 18.4 | 19.6 | 135 W | 78 | 31 |
| 1 11 | 10 26.37 | +35 37.9 | 1.345 | 2.185 | 17.2 | 19.4 | 139 W | 81 | 28 |
| 1 16 | 10 26.04 | +38 5.0 | 1.304 | 2.168 | 16.1 | 19.3 | 142 W | 83 | 26 |
| 1 21 | 10 24.70 | +40 37.6 | 1.270 | 2.151 | 15.2 | 19.2 | 145 W | 86 | 23 |

**306600** 2000 $HO_{27}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 9 4.14 | + 8 18.9 | 3.210 | 2.746 | 17.2 | 21.4 | 54 W | 39* | 34* |
| 10 13 | 9 17.33 | + 6 52.0 | 3.048 | 2.698 | 18.8 | 21.3 | 60 W | 43* | 38* |
| 10 23 | 9 30.02 | + 5 20.3 | 2.880 | 2.649 | 20.2 | 21.2 | 67 W | 46* | 42* |
| 11 2 | 9 42.12 | + 3 44.4 | 2.706 | 2.599 | 21.4 | 21.1 | 73 W | 47* | 47* |
| 11 12 | 9 53.49 | + 2 5.0 | 2.529 | 2.549 | 22.5 | 20.9 | 80 W | 47* | 51* |
| 11 22 | 10 3.96 | + 0 23.1 | 2.350 | 2.497 | 23.3 | 20.7 | 87 W | 45 | 57* |
| 12 2 | 10 13.35 | − 1 20.1 | 2.172 | 2.445 | 23.7 | 20.5 | 94 W | 44 | 62* |
| 12 12 | 10 21.38 | − 3 3.2 | 1.997 | 2.393 | 23.8 | 20.3 | 101 W | 42 | 66* |
| 12 22 | 10 27.79 | − 4 44.2 | 1.826 | 2.340 | 23.4 | 20.1 | 109 W | 40 | 69 |
| 1 1 | 10 32.22 | − 6 20.4 | 1.663 | 2.286 | 22.5 | 19.8 | 117 W | 39 | 70 |
| 1 11 | 10 34.28 | − 7 48.1 | 1.511 | 2.232 | 21.0 | 19.5 | 126 W | 37 | 72 |
| 1 21 | 10 33.62 | − 9 2.5 | 1.371 | 2.177 | 18.8 | 19.1 | 134 W | 36 | 73 |

**483566** 2004 $BE_{85}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 10 15.31 | + 0 4.8 | 2.164 | 1.465 | 23.2 | 21.4 | 35 W | 21* | 24* |
| 10 13 | 10 44.10 | − 4 22.0 | 2.083 | 1.419 | 25.0 | 21.3 | 37 W | 21* | 26* |
| 10 23 | 11 14.09 | − 9 1.8 | 2.013 | 1.379 | 26.6 | 21.2 | 38 W | 21* | 28* |
| 11 2 | 11 45.53 | −13 47.7 | 1.955 | 1.345 | 27.9 | 21.1 | 39 W | 19* | 29* |
| 11 12 | 12 18.64 | −18 30.9 | 1.909 | 1.319 | 29.0 | 21.1 | 40 W | 18* | 31* |
| 11 22 | 12 53.57 | −23 0.8 | 1.875 | 1.300 | 29.8 | 21.0 | 41 W | 15* | 33* |
| 12 2 | 13 30.40 | −27 6.6 | 1.853 | 1.291 | 30.4 | 21.0 | 41 W | 13* | 34* |
| 12 12 | 14 8.93 | −30 37.9 | 1.840 | 1.291 | 30.7 | 21.0 | 42 W | 10* | 35* |
| 12 22 | 14 48.71 | −33 26.4 | 1.835 | 1.300 | 31.0 | 21.0 | 43 W | 8* | 36* |
| 1 1 | 15 29.04 | −35 27.2 | 1.836 | 1.318 | 31.2 | 21.1 | 44 W | 6* | 38* |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *(continuation)* | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| **483566** 2004 $BE_{85}$ | | | | | | | | | |
| 1 11 | 16 8.97 | −36 39.0 | 1.839 | 1.344 | 31.4 | 21.1 | 45 W | 5* | 39* |
| 1 21 | 16 47.53 | −37 4.1 | 1.841 | 1.378 | 31.6 | 21.2 | 47 W | 4* | 41* |
| **518847** 2010 $DM$ | | | | | | | | | |
| 10 3 | 10 46.58 | + 5 4.8 | 0.893 | 0.480 | 88.2 | 20.2 | 29 W | 19* | 14* |
| 10 5 | 10 46.38 | + 5 9.7 | 0.933 | 0.516 | 81.9 | 20.2 | 31 W | 21* | 16* |
| 10 7 | 10 47.05 | + 5 10.0 | 0.970 | 0.552 | 76.6 | 20.2 | 33 W | 23* | 17* |
| 10 9 | 10 48.35 | + 5 6.8 | 1.006 | 0.589 | 72.2 | 20.3 | 34 W | 25* | 18* |
| 10 11 | 10 50.10 | + 5 1.1 | 1.040 | 0.626 | 68.5 | 20.4 | 36 W | 26* | 19* |
| 10 13 | 10 52.18 | + 4 53.5 | 1.072 | 0.663 | 65.3 | 20.5 | 37 W | 27* | 20* |
| 10 18 | 10 58.20 | + 4 29.2 | 1.143 | 0.754 | 59.2 | 20.7 | 41 W | 30* | 22* |
| 10 23 | 11 4.71 | + 4 0.9 | 1.203 | 0.842 | 54.8 | 20.9 | 44 W | 33* | 24* |
| 10 28 | 11 11.23 | + 3 31.6 | 1.253 | 0.928 | 51.6 | 21.1 | 47 W | 35* | 26* |
| 11 2 | 11 17.52 | + 3 2.8 | 1.293 | 1.011 | 49.2 | 21.3 | 50 W | 37* | 28* |
| 11 7 | 11 23.41 | + 2 35.8 | 1.325 | 1.091 | 47.2 | 21.5 | 54 W | 40* | 30* |
| **436030** 2009 $JO_2$ | | | | | | | | | |
| 10 3 | 10 50.22 | + 0 45.4 | 0.706 | 0.488 | 112.6 | 21.3 | 27 W | 16* | 16* |
| 10 8 | 11 3.96 | − 2 34.5 | 0.816 | 0.468 | 98.6 | 20.8 | 28 W | 15* | 17* |
| 10 13 | 11 21.69 | − 5 20.0 | 0.929 | 0.464 | 84.4 | 20.4 | 28 W | 15* | 18* |
| 10 18 | 11 42.36 | − 7 38.4 | 1.042 | 0.476 | 71.2 | 20.3 | 27 W | 14* | 17* |
| 10 23 | 12 4.76 | − 9 35.3 | 1.148 | 0.502 | 59.8 | 20.2 | 26 W | 13* | 16* |
| 10 28 | 12 27.82 | −11 14.5 | 1.245 | 0.539 | 50.5 | 20.3 | 25 W | 12* | 15* |
| 11 2 | 12 50.82 | −12 38.8 | 1.332 | 0.583 | 43.3 | 20.4 | 24 W | 11* | 14* |
| 11 7 | 13 13.33 | −13 50.4 | 1.410 | 0.631 | 37.9 | 20.6 | 23 W | 11* | 13* |
| 11 12 | 13 35.15 | −14 50.7 | 1.479 | 0.680 | 33.9 | 20.7 | 23 W | 11* | 13* |
| 11 17 | 13 56.22 | −15 41.2 | 1.540 | 0.730 | 31.0 | 20.9 | 22 W | 11* | 12* |
| 11 22 | 14 16.54 | −16 22.9 | 1.595 | 0.778 | 28.9 | 21.0 | 22 W | 11* | 12* |
| 11 27 | 14 36.16 | −16 56.5 | 1.643 | 0.826 | 27.5 | 21.2 | 23 W | 11* | 12* |
| 12 2 | 14 55.12 | −17 22.9 | 1.685 | 0.871 | 26.6 | 21.3 | 23 W | 12* | 12* |
| 12 7 | 15 13.48 | −17 42.4 | 1.721 | 0.914 | 26.0 | 21.5 | 24 W | 13* | 13* |
| **365014** 2008 $OX_2$ | | | | | | | | | |
| 10 3 | 10 55.81 | + 4 43.8 | 0.931 | 0.446 | 85.5 | 21.3 | 26 W | 18* | 12* |
| 10 8 | 11 24.01 | + 1 23.2 | 1.049 | 0.421 | 71.6 | 20.9 | 24 W | 15* | 11* |
| 10 13 | 11 53.20 | − 1 50.6 | 1.166 | 0.420 | 56.5 | 20.7 | 21 W | 12* | 9* |
| 10 18 | 12 22.75 | − 4 53.3 | 1.276 | 0.443 | 42.6 | 20.6 | 18 W | 9* | 7* |
| 10 23 | 12 51.77 | − 7 40.1 | 1.376 | 0.485 | 31.5 | 20.7 | 15 W | 7* | 5* |
| 10 28 | 13 19.61 | −10 8.0 | 1.466 | 0.539 | 23.3 | 20.8 | 12 W | 4* | 3* |
| 11 2 | 13 46.00 | −12 16.7 | 1.547 | 0.600 | 17.6 | 21.0 | 11 W | 3* | 2* |
| 11 7 | 14 10.93 | −14 7.1 | 1.622 | 0.663 | 13.8 | 21.1 | 9 W | 2* | 1* |
| 11 12 | 14 34.47 | −15 40.9 | 1.691 | 0.726 | 11.4 | 21.3 | 8 W | 1* | — |
| **363298** 2002 $KL_3$ | | | | | | | | | |
| 10 3 | 11 4.81 | − 6 59.8 | 0.591 | 0.510 | 130.5 | 21.4 | 23 W | 8* | 16* |
| 10 5 | 11 0.17 | − 4 40.9 | 0.607 | 0.523 | 124.3 | 20.9 | 26 W | 12* | 17* |
| 10 7 | 10 56.93 | − 2 29.8 | 0.625 | 0.539 | 118.1 | 20.5 | 28 W | 16* | 18* |
| 10 9 | 10 54.96 | − 0 28.3 | 0.645 | 0.557 | 112.1 | 20.3 | 31 W | 19* | 19* |
| 10 11 | 10 54.09 | + 1 22.7 | 0.667 | 0.577 | 106.5 | 20.1 | 34 W | 22* | 20* |
| 10 13 | 10 54.16 | + 3 3.3 | 0.689 | 0.599 | 101.3 | 20.0 | 36 W | 25* | 20* |
| 10 15 | 10 55.00 | + 4 34.0 | 0.711 | 0.623 | 96.6 | 19.9 | 38 W | 28* | 20* |
| 10 17 | 10 56.47 | + 5 55.5 | 0.733 | 0.647 | 92.2 | 19.9 | 40 W | 31* | 21* |
| 10 19 | 10 58.45 | + 7 8.9 | 0.755 | 0.673 | 88.3 | 19.8 | 42 W | 33* | 21* |
| 10 21 | 11 0.82 | + 8 15.1 | 0.776 | 0.699 | 84.7 | 19.8 | 44 W | 35* | 21* |
| 10 23 | 11 3.50 | + 9 14.9 | 0.796 | 0.726 | 81.5 | 19.9 | 46 W | 37* | 21* |
| 10 25 | 11 6.42 | +10 9.2 | 0.816 | 0.753 | 78.6 | 19.9 | 48 W | 39* | 21* |
| 10 27 | 11 9.51 | +10 58.8 | 0.835 | 0.780 | 75.9 | 19.9 | 50 W | 41* | 21* |
| 10 29 | 11 12.72 | +11 44.3 | 0.853 | 0.808 | 73.4 | 20.0 | 51 W | 42* | 22* |
| 10 31 | 11 16.01 | +12 26.4 | 0.869 | 0.835 | 71.2 | 20.0 | 53 W | 44* | 22* |
| 11 2 | 11 19.35 | +13 5.5 | 0.885 | 0.863 | 69.1 | 20.0 | 54 W | 46* | 22* |
| 11 7 | 11 27.74 | +14 33.7 | 0.921 | 0.933 | 64.6 | 20.2 | 58 W | 49* | 23* |
| 11 12 | 11 35.92 | +15 52.4 | 0.950 | 1.001 | 60.9 | 20.3 | 62 W | 53* | 24* |
| 11 17 | 11 43.71 | +17 6.2 | 0.974 | 1.069 | 57.7 | 20.4 | 66 W | 56* | 25* |
| 11 22 | 11 50.97 | +18 18.3 | 0.993 | 1.135 | 54.8 | 20.5 | 70 W | 59* | 26* |
| 11 27 | 11 57.60 | +19 31.2 | 1.007 | 1.200 | 52.2 | 20.5 | 74 W | 62* | 27* |
| 12 2 | 12 3.50 | +20 47.0 | 1.017 | 1.264 | 49.8 | 20.6 | 78 W | 65* | 28* |
| 12 7 | 12 8.57 | +22 7.4 | 1.023 | 1.326 | 47.5 | 20.7 | 83 W | 67* | 30* |
| 12 12 | 12 12.73 | +23 33.5 | 1.027 | 1.386 | 45.2 | 20.7 | 87 W | 69 | 31* |
| 12 17 | 12 15.90 | +25 6.2 | 1.028 | 1.445 | 42.9 | 20.7 | 92 W | 70 | 32* |
| 12 22 | 12 17.97 | +26 45.9 | 1.028 | 1.503 | 40.5 | 20.7 | 97 W | 72 | 32* |
| 12 27 | 12 18.83 | +28 32.7 | 1.028 | 1.559 | 38.1 | 20.8 | 102 W | 74 | 33* |
| 1 1 | 12 18.37 | +30 26.1 | 1.027 | 1.614 | 35.7 | 20.8 | 107 W | 75 | 32* |
| 1 6 | 12 16.45 | +32 25.2 | 1.028 | 1.668 | 33.1 | 20.8 | 112 W | 77 | 31* |
| 1 11 | 12 12.97 | +34 28.0 | 1.031 | 1.720 | 30.5 | 20.8 | 117 W | 79 | 30 |
| 1 16 | 12 7.84 | +36 32.0 | 1.037 | 1.771 | 27.9 | 20.8 | 122 W | 82 | 27 |
| 1 21 | 12 1.03 | +38 34.1 | 1.046 | 1.821 | 25.4 | 20.8 | 127 W | 84 | 25 |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| **471487** 2011 $VS_5$ | | | | | | | | | |
| 10 3 | 11 9.11 | + 8 55.6 | 1.542 | 0.764 | 33.7 | 21.4 | 25 W | 18* | 8* |
| 10 8 | 11 33.46 | + 5 41.6 | 1.551 | 0.744 | 31.8 | 21.3 | 23 W | 16* | 7* |
| 10 13 | 11 57.72 | + 2 22.2 | 1.565 | 0.729 | 29.6 | 21.2 | 21 W | 14* | 6* |
| 10 18 | 12 21.91 | − 0 59.2 | 1.582 | 0.719 | 27.0 | 21.1 | 19 W | 12* | 6* |
| 10 23 | 12 46.10 | − 4 19.1 | 1.603 | 0.716 | 24.3 | 21.0 | 17 W | 10* | 5* |
| 10 28 | 13 10.32 | − 7 34.1 | 1.626 | 0.718 | 21.5 | 21.0 | 15 W | 8* | 4* |
| 11 2 | 13 34.60 | −10 40.9 | 1.652 | 0.726 | 18.9 | 21.0 | 14 W | 6* | 4* |
| 11 7 | 13 58.94 | −13 36.6 | 1.679 | 0.740 | 16.4 | 21.0 | 12 W | 4* | 3* |
| 11 12 | 14 23.34 | −16 18.8 | 1.709 | 0.759 | 14.2 | 21.0 | 11 W | 2* | 3* |
| 11 17 | 14 47.75 | −18 45.5 | 1.739 | 0.783 | 12.3 | 21.0 | 10 W | 1* | 2* |
| 11 22 | 15 12.12 | −20 55.5 | 1.772 | 0.810 | 10.8 | 21.1 | 9 W | — | 2* |
| 11 27 | 15 36.38 | −22 48.1 | 1.805 | 0.840 | 9.6 | 21.1 | 8 W | — | 2* |
| 12 2 | 16 0.45 | −24 22.9 | 1.839 | 0.872 | 8.7 | 21.2 | 8 W | — | 2* |
| 12 7 | 16 24.23 | −25 40.2 | 1.873 | 0.906 | 8.1 | 21.3 | 7 W | — | 1* |
| 12 12 | 16 47.62 | −26 40.5 | 1.908 | 0.940 | 7.7 | 21.4 | 7 W | — | 1* |
| **364877** 2008 $EM_9$ | | | | | | | | | |
| 10 3 | 11 22.93 | + 1 24.9 | 1.063 | 0.345 | 70.3 | 17.6 | 19 W | 11* | 8* |
| 10 5 | 11 28.50 | + 0 22.4 | 1.128 | 0.377 | 60.9 | 17.6 | 19 W | 11* | 8* |
| 10 7 | 11 34.76 | − 0 38.8 | 1.189 | 0.414 | 53.4 | 17.7 | 19 W | 11* | 9* |
| 10 9 | 11 41.34 | − 1 37.7 | 1.246 | 0.452 | 47.6 | 17.8 | 20 W | 11* | 9* |
| 10 11 | 11 48.04 | − 2 34.0 | 1.300 | 0.492 | 43.0 | 18.0 | 20 W | 10* | 9* |
| 10 13 | 11 54.73 | − 3 27.6 | 1.350 | 0.532 | 39.3 | 18.1 | 20 W | 10* | 9* |
| 10 18 | 12 10.93 | − 5 30.2 | 1.464 | 0.631 | 33.0 | 18.5 | 20 W | 11* | 10* |
| 10 23 | 12 26.15 | − 7 18.4 | 1.564 | 0.728 | 29.3 | 18.9 | 21 W | 11* | 11* |
| 10 28 | 12 40.32 | − 8 54.6 | 1.652 | 0.822 | 27.1 | 19.2 | 22 W | 12* | 12* |
| 11 2 | 12 53.54 | −10 20.8 | 1.730 | 0.911 | 25.8 | 19.5 | 24 W | 13* | 13* |
| 11 7 | 13 5.89 | −11 38.5 | 1.800 | 0.997 | 25.0 | 19.7 | 25 W | 14* | 14* |
| 11 12 | 13 17.47 | −12 49.0 | 1.861 | 1.079 | 24.7 | 20.0 | 27 W | 15* | 16* |
| 11 17 | 13 28.35 | −13 53.1 | 1.915 | 1.159 | 24.7 | 20.2 | 29 W | 16* | 18* |
| 11 22 | 13 38.61 | −14 51.6 | 1.962 | 1.235 | 24.8 | 20.4 | 32 W | 17* | 20* |
| 12 2 | 13 57.41 | −16 34.5 | 2.035 | 1.379 | 25.4 | 20.7 | 37 W | 20* | 25* |
| 12 12 | 14 14.12 | −18 1.1 | 2.083 | 1.514 | 26.2 | 21.0 | 43 W | 22* | 31* |
| 12 22 | 14 28.85 | −19 13.9 | 2.106 | 1.641 | 27.0 | 21.2 | 49 W | 23* | 37* |
| 1 1 | 14 41.58 | −20 14.6 | 2.108 | 1.760 | 27.6 | 21.4 | 56 W | 24* | 45* |
| **138852** 2000 $WN_{10}$ | | | | | | | | | |
| 10 3 | 11 27.04 | −57 28.2 | 0.328 | 0.858 | 106.4 | 21.4 | 55 W | — | 26* |
| 10 5 | 11 20.53 | −59 3.0 | 0.315 | 0.868 | 105.6 | 21.3 | 57 W | — | 28* |
| 10 7 | 11 13.14 | −60 38.9 | 0.303 | 0.879 | 104.8 | 21.2 | 58 W | — | 30* |
| 10 9 | 11 4.64 | −62 16.5 | 0.290 | 0.889 | 103.8 | 21.1 | 60 W | — | 31* |
| 10 11 | 10 54.73 | −63 56.0 | 0.278 | 0.900 | 102.7 | 20.9 | 62 W | — | 33* |
| 10 13 | 10 42.97 | −65 37.8 | 0.265 | 0.911 | 101.4 | 20.8 | 63 W | — | 35* |
| 10 14 | 10 36.22 | −66 29.5 | 0.259 | 0.916 | 100.7 | 20.7 | 64 W | — | 35* |
| 10 15 | 10 28.77 | −67 21.7 | 0.253 | 0.922 | 100.0 | 20.7 | 66 W | — | 36* |
| 10 16 | 10 20.48 | −68 14.3 | 0.247 | 0.927 | 99.3 | 20.6 | 67 W | — | 37* |
| 10 17 | 10 11.22 | −69 7.2 | 0.241 | 0.932 | 98.5 | 20.5 | 68 W | — | 37* |
| 10 18 | 10 0.81 | −70 0.0 | 0.235 | 0.938 | 97.6 | 20.4 | 69 W | — | 38* |
| 10 19 | 9 49.05 | −70 52.4 | 0.229 | 0.943 | 96.7 | 20.3 | 70 W | — | 38* |
| 10 20 | 9 35.68 | −71 43.9 | 0.223 | 0.948 | 95.8 | 20.3 | 71 W | — | 39* |
| 10 21 | 9 20.43 | −72 33.8 | 0.217 | 0.954 | 94.7 | 20.2 | 73 W | — | 39* |
| 10 22 | 9 2.99 | −73 21.0 | 0.212 | 0.959 | 93.7 | 20.1 | 74 W | — | 40* |
| 10 23 | 8 43.03 | −74 4.2 | 0.206 | 0.964 | 92.5 | 20.0 | 76 W | — | 40* |
| 10 24 | 8 20.29 | −74 41.7 | 0.201 | 0.970 | 91.4 | 19.9 | 77 W | — | 40* |
| 10 25 | 7 54.63 | −75 11.2 | 0.195 | 0.975 | 90.1 | 19.8 | 79 W | — | 40* |
| 10 26 | 7 26.13 | −75 30.1 | 0.190 | 0.980 | 88.7 | 19.7 | 80 W | — | 40* |
| 10 27 | 6 55.26 | −75 35.7 | 0.185 | 0.985 | 87.3 | 19.6 | 82 W | — | 40 |
| 10 28 | 6 22.87 | −75 25.5 | 0.180 | 0.990 | 85.8 | 19.5 | 84 W | — | 41 |
| 10 29 | 5 50.12 | −74 57.1 | 0.175 | 0.996 | 84.2 | 19.4 | 86 W | — | 41 |
| 10 30 | 5 18.28 | −74 9.6 | 0.171 | 1.001 | 82.5 | 19.3 | 88 W | — | 42 |
| 10 31 | 4 48.42 | −73 2.5 | 0.166 | 1.006 | 80.8 | 19.1 | 90 W | — | 43 |
| 11 1 | 4 21.23 | −71 36.5 | 0.162 | 1.011 | 78.9 | 19.0 | 92 W | — | 44 |
| 11 2 | 3 57.01 | −69 52.7 | 0.159 | 1.016 | 77.0 | 18.9 | 94 W | — | 46 |
| 11 3 | 3 35.76 | −67 52.4 | 0.155 | 1.021 | 74.9 | 18.8 | 96 W | — | 48 |
| 11 4 | 3 17.26 | −65 37.1 | 0.152 | 1.026 | 72.8 | 18.7 | 99 W | — | 50 |
| 11 5 | 3 1.21 | −63 8.3 | 0.149 | 1.031 | 70.7 | 18.6 | 101 W | — | 53 |
| 11 6 | 2 47.30 | −60 27.6 | 0.147 | 1.036 | 68.4 | 18.5 | 104 W | — | 56 |
| 11 7 | 2 35.23 | −57 36.4 | 0.145 | 1.041 | 66.1 | 18.4 | 106 E | — | 58 |
| 11 8 | 2 24.71 | −54 36.4 | 0.144 | 1.046 | 63.9 | 18.3 | 109 E | — | 61 |
| 11 9 | 2 15.53 | −51 29.2 | 0.143 | 1.051 | 61.6 | 18.3 | 111 E | — | 65 |
| 11 10 | 2 7.48 | −48 16.6 | 0.142 | 1.055 | 59.3 | 18.2 | 114 E | — | 68 |
| 11 11 | 2 0.39 | −45 0.3 | 0.142 | 1.060 | 57.1 | 18.2 | 116 E | — | 71 |
| 11 12 | 1 54.14 | −41 42.1 | 0.143 | 1.065 | 55.0 | 18.1 | 118 E | 3 | 74 |
| 11 13 | 1 48.59 | −38 23.8 | 0.144 | 1.070 | 53.0 | 18.1 | 120 E | 7 | 78 |
| 11 14 | 1 43.67 | −35 7.0 | 0.145 | 1.074 | 51.1 | 18.1 | 122 E | 10 | 81 |
| 11 15 | 1 39.28 | −31 53.2 | 0.147 | 1.079 | 49.3 | 18.0 | 124 E | 13 | 84 |
| 11 16 | 1 35.36 | −28 43.9 | 0.150 | 1.083 | 47.8 | 18.1 | 126 E | 16 | 87 |
| 11 17 | 1 31.86 | −25 40.0 | 0.153 | 1.088 | 46.4 | 18.1 | 127 E | 19 | 90 |
| 11 18 | 1 28.72 | −22 42.5 | 0.156 | 1.092 | 45.2 | 18.1 | 128 E | 22 | 87 |
| 11 19 | 1 25.92 | −19 51.9 | 0.160 | 1.097 | 44.2 | 18.1 | 129 E | 25 | 84 |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | **138852** 2000 $WN_{10}$ | | | | | *(continuation)* | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 11 20 | 1 23.40 | −17 8.9 | 0.165 | 1.101 | 43.4 | 18.2 | 130 E | 28 | 81 |
| 11 21 | 1 21.15 | −14 33.6 | 0.169 | 1.106 | 42.7 | 18.2 | 131 E | 30 | 79 |
| 11 22 | 1 19.14 | −12 6.1 | 0.174 | 1.110 | 42.2 | 18.3 | 131 E | 33 | 76 |
| 11 24 | 1 15.75 | − 7 34.2 | 0.186 | 1.119 | 41.6 | 18.4 | 131 E | 37 | 72 |
| 11 26 | 1 13.08 | − 3 31.7 | 0.198 | 1.127 | 41.4 | 18.6 | 131 E | 41 | 68 |
| 11 28 | 1 11.02 | + 0 3.8 | 0.211 | 1.135 | 41.5 | 18.7 | 130 E | 45 | 64 |
| 11 30 | 1 9.50 | + 3 15.3 | 0.226 | 1.143 | 41.8 | 18.9 | 129 E | 48 | 61 |
| 12 2 | 1 8.45 | + 6 5.7 | 0.240 | 1.151 | 42.2 | 19.1 | 128 E | 51 | 58 |
| 12 4 | 1 7.81 | + 8 37.6 | 0.256 | 1.158 | 42.7 | 19.2 | 127 E | 54 | 55 |
| 12 6 | 1 7.54 | +10 53.6 | 0.272 | 1.166 | 43.2 | 19.4 | 126 E | 56 | 53 |
| 12 8 | 1 7.60 | +12 55.8 | 0.289 | 1.173 | 43.8 | 19.5 | 125 E | 58 | 51 |
| 12 10 | 1 7.96 | +14 46.1 | 0.306 | 1.180 | 44.3 | 19.7 | 123 E | 60 | 49 |
| 12 12 | 1 8.59 | +16 26.2 | 0.323 | 1.187 | 44.8 | 19.8 | 122 E | 61 | 48 |
| 12 14 | 1 9.47 | +17 57.3 | 0.341 | 1.194 | 45.3 | 20.0 | 120 E | 63 | 46 |
| 12 16 | 1 10.57 | +19 20.7 | 0.358 | 1.200 | 45.7 | 20.1 | 119 E | 64 | 45 |
| 12 18 | 1 11.88 | +20 37.4 | 0.376 | 1.207 | 46.2 | 20.2 | 118 E | 66 | 43 |
| 12 20 | 1 13.39 | +21 48.1 | 0.395 | 1.213 | 46.6 | 20.4 | 117 E | 67 | 42 |
| 12 22 | 1 15.07 | +22 53.7 | 0.413 | 1.218 | 46.9 | 20.5 | 115 E | 68 | 41* |
| 12 27 | 1 20.01 | +25 18.9 | 0.460 | 1.232 | 47.7 | 20.8 | 112 E | 70 | 38* |
| 1 1 | 1 25.87 | +27 23.1 | 0.507 | 1.245 | 48.3 | 21.0 | 109 E | 72 | 36* |
| 1 6 | 1 32.59 | +29 11.7 | 0.554 | 1.256 | 48.7 | 21.2 | 106 E | 74 | 33* |
| 1 11 | 1 40.07 | +30 48.4 | 0.602 | 1.266 | 49.1 | 21.4 | 103 E | 76 | 31* |
| | **446791** 1998 $SJ_{70}$ | | | | | | | | |
| 10 3 | 11 46.63 | + 4 16.4 | 2.303 | 1.359 | 10.8 | 21.5 | 15 W | 8* | 1* |
| 10 13 | 12 16.42 | + 0 33.7 | 2.174 | 1.247 | 12.9 | 21.2 | 16 W | 10* | 3* |
| 10 23 | 12 49.51 | − 3 33.8 | 2.049 | 1.133 | 14.7 | 21.0 | 17 W | 10* | 4* |
| 11 2 | 13 26.85 | − 8 4.7 | 1.932 | 1.019 | 16.0 | 20.6 | 16 W | 9* | 4* |
| 11 12 | 14 9.63 | −12 52.1 | 1.829 | 0.909 | 16.3 | 20.3 | 15 W | 7* | 4* |
| 11 17 | 14 33.48 | −15 17.4 | 1.784 | 0.856 | 15.9 | 20.1 | 14 W | 6* | 4* |
| 11 22 | 14 59.18 | −17 39.8 | 1.745 | 0.807 | 14.9 | 19.9 | 12 W | 4* | 3* |
| 11 27 | 15 26.85 | −19 55.0 | 1.712 | 0.762 | 13.4 | 19.7 | 10 W | 2* | 2* |
| 12 2 | 15 56.53 | −21 58.0 | 1.685 | 0.723 | 11.3 | 19.4 | 8 W | — | 1* |
| 12 7 | 16 28.13 | −23 43.0 | 1.664 | 0.692 | 8.6 | 19.2 | 6 W | — | — |
| 12 12 | 17 1.40 | −25 4.0 | 1.650 | 0.671 | 5.7 | 19.0 | 4 W | — | — |
| 12 17 | 17 35.86 | −25 55.8 | 1.643 | 0.661 | 3.9 | 18.8 | 3 W | — | — |
| 12 22 | 18 10.87 | −26 15.2 | 1.641 | 0.663 | 5.5 | 18.9 | 4 E | — | — |
| 12 27 | 18 45.72 | −26 1.0 | 1.647 | 0.676 | 8.7 | 19.1 | 6 E | — | — |
| 1 1 | 19 19.69 | −25 15.2 | 1.659 | 0.700 | 11.7 | 19.3 | 8 E | — | 2* |
| 1 6 | 19 52.22 | −24 1.6 | 1.678 | 0.734 | 14.3 | 19.6 | 11 E | — | 4* |
| 1 11 | 20 22.92 | −22 25.5 | 1.703 | 0.774 | 16.1 | 19.8 | 13 E | 2* | 5* |
| 1 16 | 20 51.61 | −20 32.6 | 1.736 | 0.820 | 17.4 | 20.0 | 14 E | 4* | 7* |
| 1 21 | 21 18.25 | −18 28.4 | 1.775 | 0.871 | 18.0 | 20.2 | 16 E | 6* | 7* |
| | **217390** 2005 $CW_{25}$ | | | | | | | | |
| 10 3 | 12 13.17 | + 6 4.4 | 2.138 | 1.174 | 9.7 | 21.4 | 11 W | 5* | — |
| 10 13 | 12 49.64 | + 4 1.7 | 2.052 | 1.103 | 11.7 | 21.3 | 13 W | 6* | — |
| 10 23 | 13 28.92 | + 1 44.6 | 1.971 | 1.035 | 13.5 | 21.1 | 14 W | 7* | — |
| 11 2 | 14 11.20 | − 0 45.6 | 1.901 | 0.972 | 14.8 | 21.0 | 15 W | 7* | — |
| 11 12 | 14 56.51 | − 3 25.3 | 1.844 | 0.919 | 15.6 | 20.8 | 14 W | 6* | — |
| 11 22 | 15 44.55 | − 6 8.1 | 1.804 | 0.879 | 15.8 | 20.7 | 14 W | 5* | — |
| 12 2 | 16 34.71 | − 8 45.1 | 1.785 | 0.855 | 15.2 | 20.6 | 13 E | 4* | — |
| 12 12 | 17 26.05 | −11 5.3 | 1.786 | 0.850 | 14.2 | 20.5 | 12 E | 4* | — |
| 12 22 | 18 17.38 | −12 58.0 | 1.807 | 0.864 | 12.8 | 20.5 | 11 E | 4* | — |
| 1 1 | 19 7.56 | −14 15.9 | 1.846 | 0.896 | 11.4 | 20.6 | 10 E | 4* | — |
| 1 11 | 19 55.62 | −14 56.2 | 1.898 | 0.942 | 9.9 | 20.7 | 9 E | 3* | — |
| 1 21 | 20 40.90 | −15 0.6 | 1.962 | 1.000 | 8.5 | 20.9 | 9 E | 2* | — |
| | **105406** 2000 $QN_{150}$ | | | | | | | | |
| 10 3 | 12 48.29 | − 7 54.4 | 3.553 | 2.558 | 2.0 | 21.4 | 5 E | — | — |
| 10 13 | 13 4.30 | − 9 40.0 | 3.537 | 2.541 | 1.1 | 21.3 | 3 W | — | — |
| 10 23 | 13 20.63 | −11 25.1 | 3.507 | 2.523 | 2.8 | 21.4 | 7 W | — | — |
| 11 2 | 13 37.27 | −13 8.9 | 3.463 | 2.504 | 4.9 | 21.5 | 12 W | 4* | 4* |
| 11 12 | 13 54.23 | −14 50.8 | 3.407 | 2.484 | 7.1 | 21.6 | 18 W | 8* | 9* |
| | **84667** 2002 $VO_{82}$ | | | | | | | | |
| 10 3 | 12 53.03 | − 4 38.4 | 3.812 | 2.815 | 1.6 | 21.4 | 4 E | — | — |
| 10 13 | 13 7.72 | − 6 3.0 | 3.796 | 2.799 | 0.7 | 21.3 | 2 W | — | — |
| 10 23 | 13 22.64 | − 7 26.3 | 3.765 | 2.782 | 2.8 | 21.4 | 8 W | 1* | — |
| 11 2 | 13 37.76 | − 8 47.8 | 3.718 | 2.764 | 4.9 | 21.5 | 14 W | 7* | 2* |
| 11 12 | 13 53.06 | −10 6.5 | 3.657 | 2.745 | 7.0 | 21.5 | 20 W | 12* | 7* |
| | **526825** 2007 $CK_{26}$ | | | | | | | | |
| 10 3 | 12 53.94 | + 7 16.2 | 2.049 | 1.090 | 11.0 | 21.4 | 12 E | 5* | — |
| 10 13 | 13 33.54 | + 4 57.3 | 1.985 | 1.043 | 13.1 | 21.3 | 14 E | 7* | — |
| 10 23 | 14 15.29 | + 2 21.8 | 1.931 | 1.004 | 14.9 | 21.3 | 15 E | 8* | — |
| 11 2 | 14 58.97 | − 0 26.0 | 1.892 | 0.978 | 16.4 | 21.2 | 16 E | 9* | — |
| 11 12 | 15 44.12 | − 3 18.9 | 1.869 | 0.965 | 17.2 | 21.2 | 17 E | 10* | — |
| 11 22 | 16 30.09 | − 6 7.2 | 1.867 | 0.967 | 17.4 | 21.2 | 17 E | 11* | — |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | **526825** 2007 $CK_{26}$ | | | | | *(continuation)* | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 12 2 | 17 16.14 | − 8 40.6 | 1.883 | 0.983 | 17.0 | 21.2 | 17 E | 11* | — |
| 12 12 | 18 1.50 | −10 49.9 | 1.919 | 1.012 | 15.9 | 21.3 | 16 E | 10* | — |
| 12 22 | 18 45.46 | −12 29.2 | 1.969 | 1.053 | 14.3 | 21.4 | 15 E | 9* | — |
| 1 1 | 19 27.52 | −13 36.3 | 2.032 | 1.103 | 12.4 | 21.5 | 14 E | 8* | — |
| | **219914** 2002 $GX_7$ | | | | | | | | |
| 10 3 | 12 58.77 | − 3 24.3 | 2.993 | 2.000 | 2.9 | 21.4 | 6 E | — | — |
| 10 13 | 13 19.28 | − 5 48.9 | 2.961 | 1.965 | 1.3 | 21.2 | 3 E | — | — |
| 10 23 | 13 40.53 | − 8 13.1 | 2.921 | 1.929 | 2.0 | 21.2 | 4 W | — | — |
| 11 2 | 14 2.62 | −10 35.6 | 2.874 | 1.895 | 3.9 | 21.2 | 7 W | 1* | — |
| 11 12 | 14 25.62 | −12 54.9 | 2.821 | 1.860 | 6.0 | 21.3 | 11 W | 4* | 1* |
| 11 22 | 14 49.60 | −15 9.0 | 2.762 | 1.826 | 8.1 | 21.3 | 15 W | 7* | 4* |
| 12 2 | 15 14.64 | −17 16.1 | 2.698 | 1.793 | 10.2 | 21.3 | 19 W | 9* | 8* |
| 12 12 | 15 40.81 | −19 13.8 | 2.631 | 1.762 | 12.3 | 21.3 | 22 W | 11* | 12* |
| 12 22 | 16 8.11 | −20 59.9 | 2.561 | 1.731 | 14.4 | 21.2 | 26 W | 12* | 16* |
| 1 1 | 16 36.55 | −22 31.7 | 2.489 | 1.702 | 16.5 | 21.2 | 29 W | 12* | 20* |
| 1 11 | 17 6.06 | −23 46.9 | 2.416 | 1.675 | 18.5 | 21.2 | 33 W | 12* | 25* |
| 1 21 | 17 36.52 | −24 43.0 | 2.342 | 1.650 | 20.5 | 21.2 | 36 W | 12* | 29* |
| | **307068** 2002 $AX_{14}$ | | | | | | | | |
| 10 3 | 12 59.39 | −17 25.6 | 2.414 | 1.469 | 10.0 | 21.5 | 15 E | — | 5* |
| 10 13 | 13 29.48 | −19 26.8 | 2.436 | 1.477 | 8.4 | 21.5 | 13 E | — | 3* |
| 10 23 | 13 59.90 | −21 13.2 | 2.455 | 1.486 | 6.8 | 21.4 | 10 E | — | 1* |
| 11 2 | 14 30.65 | −22 42.5 | 2.472 | 1.496 | 5.4 | 21.4 | 8 E | — | — |
| 11 12 | 15 1.64 | −23 52.8 | 2.485 | 1.505 | 4.2 | 21.3 | 6 W | — | — |
| 11 22 | 15 32.76 | −24 42.5 | 2.494 | 1.515 | 3.9 | 21.3 | 6 W | — | — |
| 12 2 | 16 3.88 | −25 10.2 | 2.499 | 1.526 | 4.7 | 21.4 | 7 W | — | 1* |
| 12 12 | 16 34.83 | −25 15.4 | 2.498 | 1.536 | 6.2 | 21.5 | 10 W | — | 3* |
| | **222079** 1999 $NE_{43}$ | | | | | | | | |
| 10 3 | 12 59.90 | + 1 0.3 | 3.126 | 2.138 | 3.6 | 21.5 | 8 E | 2* | — |
| 10 13 | 13 19.33 | − 0 57.4 | 3.083 | 2.096 | 3.3 | 21.4 | 7 E | — | — |
| 10 23 | 13 39.46 | − 2 54.8 | 3.031 | 2.053 | 4.2 | 21.3 | 9 W | 2* | — |
| 11 2 | 14 0.34 | − 4 50.8 | 2.969 | 2.009 | 5.9 | 21.3 | 12 W | 6* | — |
| 11 12 | 14 22.04 | − 6 44.2 | 2.900 | 1.965 | 7.8 | 21.3 | 16 W | 10* | — |
| 11 22 | 14 44.62 | − 8 33.4 | 2.824 | 1.921 | 9.9 | 21.3 | 19 W | 13* | 3* |
| 12 2 | 15 8.14 | −10 17.0 | 2.742 | 1.877 | 12.0 | 21.3 | 23 W | 16* | 7* |
| 12 12 | 15 32.66 | −11 53.1 | 2.655 | 1.833 | 14.1 | 21.2 | 27 W | 18* | 11* |
| 12 22 | 15 58.22 | −13 20.0 | 2.565 | 1.789 | 16.2 | 21.2 | 31 W | 20* | 15* |
| 1 1 | 16 24.84 | −14 35.8 | 2.473 | 1.746 | 18.4 | 21.1 | 34 W | 20* | 20* |
| 1 11 | 16 52.53 | −15 38.5 | 2.379 | 1.704 | 20.5 | 21.1 | 37 W | 21* | 25* |
| 1 21 | 17 21.25 | −16 26.1 | 2.286 | 1.664 | 22.5 | 21.0 | 40 W | 21* | 29* |
| | **152679** 1998 $KU_2$ | | | | | | | | |
| 10 3 | 13 1.17 | − 6 54.7 | 3.313 | 2.323 | 3.0 | 21.3 | 7 E | — | 1* |
| 10 13 | 13 18.52 | − 8 31.2 | 3.258 | 2.261 | 0.8 | 21.1 | 2 E | — | — |
| 10 23 | 13 36.75 | −10 8.7 | 3.189 | 2.197 | 1.5 | 21.0 | 3 W | — | — |
| 11 2 | 13 55.95 | −11 46.3 | 3.108 | 2.131 | 3.9 | 21.1 | 8 W | 2* | — |
| 11 12 | 14 16.22 | −13 22.7 | 3.015 | 2.064 | 6.3 | 21.1 | 13 W | 6* | 3* |
| 11 22 | 14 37.66 | −14 56.5 | 2.911 | 1.994 | 8.7 | 21.0 | 18 W | 9* | 7* |
| 12 2 | 15 0.45 | −16 26.0 | 2.799 | 1.924 | 11.2 | 21.0 | 22 W | 12* | 11* |
| 12 12 | 15 24.72 | −17 49.0 | 2.679 | 1.851 | 13.7 | 20.9 | 27 W | 14* | 15* |
| 12 22 | 15 50.65 | −19 3.1 | 2.555 | 1.778 | 16.3 | 20.8 | 30 W | 16* | 19* |
| 1 1 | 16 18.44 | −20 5.3 | 2.427 | 1.703 | 18.8 | 20.6 | 34 W | 16* | 23* |
| 1 11 | 16 48.24 | −20 51.8 | 2.298 | 1.627 | 21.4 | 20.5 | 37 W | 16* | 27* |
| 1 21 | 17 20.21 | −21 18.2 | 2.172 | 1.551 | 24.0 | 20.4 | 40 W | 16* | 31* |
| | **145888** 1999 $TT_{103}$ | | | | | | | | |
| 10 3 | 13 3.53 | − 8 8.8 | 3.459 | 2.472 | 3.3 | 21.4 | 8 E | — | 2* |
| 10 13 | 13 20.61 | − 9 43.5 | 3.444 | 2.448 | 1.2 | 21.2 | 3 E | — | — |
| 10 23 | 13 38.12 | −11 17.0 | 3.417 | 2.424 | 1.2 | 21.2 | 3 W | — | — |
| 11 2 | 13 56.08 | −12 48.4 | 3.377 | 2.398 | 3.3 | 21.3 | 8 W | 1* | — |
| 11 12 | 14 14.49 | −14 16.7 | 3.324 | 2.372 | 5.5 | 21.3 | 13 W | 5* | 4* |
| 11 22 | 14 33.35 | −15 40.7 | 3.259 | 2.345 | 7.7 | 21.4 | 19 W | 9* | 8* |
| 12 2 | 14 52.67 | −16 59.3 | 3.184 | 2.318 | 9.9 | 21.4 | 24 W | 13* | 13* |
| 12 12 | 15 12.42 | −18 11.4 | 3.097 | 2.289 | 12.1 | 21.4 | 29 W | 15* | 18* |
| 12 22 | 15 32.56 | −19 15.9 | 3.001 | 2.261 | 14.3 | 21.4 | 35 W | 17* | 23* |
| 1 1 | 15 53.07 | −20 11.8 | 2.897 | 2.232 | 16.4 | 21.3 | 40 W | 19* | 29* |
| 1 11 | 16 13.88 | −20 57.9 | 2.784 | 2.203 | 18.4 | 21.3 | 45 W | 19* | 35* |
| 1 21 | 16 34.91 | −21 33.5 | 2.665 | 2.173 | 20.4 | 21.2 | 50 W | 20* | 41* |
| | **325102** 2008 $EY_5$ | | | | | | | | |
| 10 3 | 13 5.26 | − 8 21.9 | 1.733 | 0.758 | 11.4 | 21.4 | 9 E | — | 3* |
| 10 13 | 13 43.94 | −11 37.4 | 1.607 | 0.639 | 13.8 | 20.9 | 9 E | — | 3* |
| 10 23 | 14 29.52 | −14 53.0 | 1.435 | 0.490 | 21.4 | 20.4 | 10 E | — | 4* |
| 11 2 | 15 23.32 | −17 46.3 | 1.183 | 0.319 | 46.9 | 19.8 | 14 E | 1* | 7* |
| 11 4 | 15 34.01 | −18 12.7 | 1.116 | 0.287 | 57.6 | 19.7 | 14 E | 1* | 8* |
| 11 6 | 15 43.48 | −18 33.9 | 1.042 | 0.260 | 71.6 | 19.8 | 14 E | 2* | 8* |
| 11 8 | 15 50.45 | −18 48.4 | 0.963 | 0.241 | 89.5 | 20.1 | 14 E | 2* | 7* |
| 11 10 | 15 53.32 | −18 55.3 | 0.884 | 0.234 | 110.6 | 20.9 | 13 E | 1* | 6* |

**226082** 2002 $LQ_{20}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 13 8.14 | − 3 10.8 | 3.008 | 2.023 | 4.0 | 21.5 | 8 E | — | 1* |
| 10 13 | 13 28.68 | − 5 26.9 | 2.983 | 1.990 | 2.3 | 21.3 | 5 E | — | — |
| 10 23 | 13 49.92 | − 7 41.8 | 2.950 | 1.958 | 1.8 | 21.2 | 4 E | — | — |
| 11 2 | 14 11.94 | − 9 54.0 | 2.910 | 1.926 | 3.2 | 21.3 | 6 W | — | — |
| 11 12 | 14 34.78 | −12 2.1 | 2.863 | 1.895 | 5.1 | 21.3 | 10 W | 4* | — |
| 11 22 | 14 58.50 | −14 4.1 | 2.810 | 1.865 | 7.2 | 21.3 | 14 W | 7* | 2* |
| 12 2 | 15 23.14 | −15 58.4 | 2.752 | 1.835 | 9.2 | 21.3 | 17 W | 9* | 6* |
| 12 12 | 15 48.72 | −17 42.9 | 2.690 | 1.806 | 11.3 | 21.3 | 21 W | 11* | 10* |
| 12 22 | 16 15.24 | −19 15.5 | 2.624 | 1.779 | 13.4 | 21.3 | 25 W | 12* | 14* |
| 1 1 | 16 42.67 | −20 34.2 | 2.555 | 1.753 | 15.4 | 21.3 | 28 W | 13* | 18* |
| 1 11 | 17 10.93 | −21 37.2 | 2.484 | 1.729 | 17.5 | 21.3 | 32 W | 13* | 23* |
| 1 21 | 17 39.89 | −22 22.7 | 2.412 | 1.706 | 19.5 | 21.3 | 35 W | 13* | 27* |

**525268** 2004 $XL_{14}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 13 16.90 | − 2 35.5 | 1.409 | 0.461 | 23.0 | 21.5 | 10 E | 2* | 3* |
| 10 8 | 13 47.41 | − 7 27.4 | 1.357 | 0.449 | 31.1 | 21.6 | 13 E | 2* | 7* |
| 10 13 | 14 18.20 | −12 30.4 | 1.300 | 0.451 | 40.1 | 21.7 | 17 E | 2* | 11* |
| 10 18 | 14 49.30 | −17 33.1 | 1.241 | 0.468 | 48.8 | 21.9 | 21 E | 1* | 15* |
| 10 23 | 15 20.96 | −22 23.7 | 1.183 | 0.496 | 56.1 | 22.2 | 24 E | 1* | 18* |

**523820** 2011 $GN_{44}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 13 24.02 | −42 9.5 | 1.804 | 1.217 | 31.8 | 21.4 | 40 E | — | 20* |
| 10 8 | 13 39.72 | −44 18.1 | 1.755 | 1.177 | 32.9 | 21.3 | 40 E | — | 19* |
| 10 13 | 13 57.73 | −46 28.3 | 1.704 | 1.138 | 34.3 | 21.2 | 40 E | — | 19* |
| 10 18 | 14 18.56 | −48 37.2 | 1.650 | 1.100 | 35.9 | 21.1 | 40 E | — | 19* |
| 10 23 | 14 42.84 | −50 40.4 | 1.595 | 1.065 | 37.7 | 21.0 | 41 E | — | 20* |
| 10 28 | 15 11.21 | −52 31.2 | 1.539 | 1.031 | 39.6 | 20.9 | 41 E | — | 22* |
| 11 2 | 15 44.18 | −54 0.6 | 1.484 | 1.001 | 41.7 | 20.8 | 42 E | — | 23* |
| 11 7 | 16 21.80 | −54 56.8 | 1.431 | 0.973 | 43.7 | 20.7 | 43 E | — | 26* |
| 11 12 | 17 3.33 | −55 6.4 | 1.381 | 0.950 | 45.8 | 20.6 | 43 E | — | 28* |
| 11 17 | 17 46.99 | −54 17.3 | 1.336 | 0.930 | 47.7 | 20.6 | 44 E | — | 31* |
| 11 22 | 18 30.30 | −52 21.9 | 1.297 | 0.916 | 49.4 | 20.5 | 45 E | — | 34* |
| 11 27 | 19 10.89 | −49 20.7 | 1.266 | 0.906 | 50.8 | 20.5 | 45 E | — | 37* |
| 12 2 | 19 47.26 | −45 20.8 | 1.244 | 0.902 | 51.8 | 20.5 | 46 E | — | 39* |
| 12 4 | 20 0.49 | −43 31.2 | 1.237 | 0.902 | 52.0 | 20.5 | 46 E | — | 40* |
| 12 6 | 20 12.96 | −41 35.0 | 1.233 | 0.902 | 52.2 | 20.5 | 46 E | 1* | 40* |
| 12 8 | 20 24.69 | −39 33.3 | 1.230 | 0.904 | 52.3 | 20.5 | 47 E | 3* | 41* |
| 12 10 | 20 35.72 | −37 27.0 | 1.229 | 0.906 | 52.3 | 20.5 | 47 E | 5* | 41* |
| 12 12 | 20 46.08 | −35 17.0 | 1.230 | 0.910 | 52.2 | 20.5 | 47 E | 7* | 41* |
| 12 14 | 20 55.82 | −33 4.1 | 1.232 | 0.914 | 52.1 | 20.5 | 47 E | 9* | 41* |
| 12 16 | 21 4.98 | −30 49.3 | 1.236 | 0.919 | 51.9 | 20.5 | 47 E | 12* | 40* |
| 12 18 | 21 13.62 | −28 33.3 | 1.241 | 0.924 | 51.6 | 20.5 | 47 E | 14* | 40* |
| 12 20 | 21 21.76 | −26 16.7 | 1.248 | 0.931 | 51.2 | 20.5 | 48 E | 16* | 39* |
| 12 22 | 21 29.47 | −24 0.3 | 1.257 | 0.938 | 50.8 | 20.5 | 48 E | 18* | 38* |
| 12 27 | 21 47.05 | −18 23.3 | 1.284 | 0.959 | 49.5 | 20.6 | 48 E | 23* | 36* |
| 1 1 | 22 2.68 | −12 57.2 | 1.319 | 0.984 | 47.9 | 20.7 | 48 E | 28* | 32* |
| 1 6 | 22 16.82 | − 7 46.4 | 1.360 | 1.013 | 46.2 | 20.7 | 48 E | 32* | 29* |
| 1 11 | 22 29.83 | − 2 52.8 | 1.406 | 1.045 | 44.3 | 20.8 | 48 E | 35* | 25* |
| 1 16 | 22 42.00 | + 1 42.8 | 1.456 | 1.079 | 42.5 | 20.9 | 48 E | 37* | 21* |
| 1 21 | 22 53.57 | + 6 0.9 | 1.509 | 1.116 | 40.7 | 21.0 | 48 E | 39* | 18* |

**137201** 1999 $KF_{13}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 13 27.94 | − 6 36.2 | 2.839 | 1.879 | 7.0 | 21.5 | 13 E | 1* | 7* |
| 10 13 | 13 50.57 | − 8 46.2 | 2.826 | 1.849 | 5.1 | 21.3 | 10 E | — | 3* |
| 10 23 | 14 14.06 | −10 52.9 | 2.807 | 1.821 | 3.3 | 21.2 | 6 E | — | — |
| 11 2 | 14 38.47 | −12 54.3 | 2.783 | 1.793 | 1.7 | 21.0 | 3 E | — | — |
| 11 12 | 15 3.84 | −14 48.3 | 2.754 | 1.766 | 1.7 | 20.9 | 3 W | — | — |
| 11 22 | 15 30.17 | −16 32.3 | 2.721 | 1.741 | 3.3 | 21.0 | 6 W | — | — |
| 12 2 | 15 57.48 | −18 4.0 | 2.685 | 1.718 | 5.2 | 21.0 | 9 W | 2* | — |
| 12 12 | 16 25.71 | −19 21.1 | 2.645 | 1.696 | 7.1 | 21.1 | 12 W | 4* | 2* |
| 12 22 | 16 54.76 | −20 21.2 | 2.604 | 1.677 | 9.0 | 21.1 | 15 W | 6* | 6* |
| 1 1 | 17 24.49 | −21 2.3 | 2.561 | 1.659 | 10.9 | 21.1 | 19 W | 7* | 9* |
| 1 11 | 17 54.73 | −21 23.1 | 2.517 | 1.644 | 12.8 | 21.1 | 22 W | 8* | 13* |
| 1 21 | 18 25.23 | −21 22.5 | 2.472 | 1.632 | 14.6 | 21.2 | 25 W | 9* | 17* |

**213158** 2000 $QE_{55}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 13 36.68 | −12 42.9 | 2.778 | 1.848 | 9.4 | 21.5 | 17 E | — | 11* |
| 10 13 | 13 59.65 | −15 0.9 | 2.769 | 1.816 | 7.5 | 21.3 | 14 E | — | 8* |
| 10 23 | 14 23.74 | −17 14.6 | 2.755 | 1.784 | 5.6 | 21.2 | 10 E | — | 4* |
| 11 2 | 14 49.04 | −19 21.8 | 2.735 | 1.753 | 3.9 | 21.1 | 7 E | — | 1* |
| 11 12 | 15 15.62 | −21 19.8 | 2.710 | 1.724 | 2.4 | 20.9 | 4 E | — | — |
| 11 22 | 15 43.49 | −23 5.6 | 2.681 | 1.695 | 1.9 | 20.8 | 3 W | — | — |
| 12 2 | 16 12.66 | −24 36.0 | 2.648 | 1.669 | 3.1 | 20.8 | 5 W | — | — |
| 12 12 | 16 43.05 | −25 48.0 | 2.614 | 1.644 | 4.8 | 20.9 | 8 W | — | 2* |
| 12 22 | 17 14.50 | −26 38.5 | 2.577 | 1.622 | 6.5 | 20.9 | 11 W | — | 5* |
| 1 1 | 17 46.79 | −27 5.0 | 2.540 | 1.602 | 8.3 | 20.9 | 14 W | — | 7* |
| 1 11 | 18 19.63 | −27 5.6 | 2.503 | 1.584 | 10.1 | 20.9 | 16 W | — | 10* |
| 1 21 | 18 52.67 | −26 39.2 | 2.465 | 1.570 | 11.9 | 21.0 | 19 W | 1* | 13* |

**391449** 2007 $FL_{1}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 13 53.26 | − 2 15.2 | 2.110 | 1.213 | 15.9 | 21.4 | 19 E | 9* | 11* |
| 10 8 | 14 8.54 | − 4 52.2 | 2.103 | 1.199 | 15.4 | 21.4 | 19 E | 8* | 10* |
| 10 13 | 14 24.12 | − 7 28.6 | 2.098 | 1.188 | 14.9 | 21.3 | 18 E | 7* | 10* |
| 10 18 | 14 40.05 | −10 3.4 | 2.096 | 1.180 | 14.3 | 21.3 | 17 E | 5* | 10* |
| 10 23 | 14 56.35 | −12 35.6 | 2.095 | 1.174 | 13.8 | 21.2 | 16 E | 4* | 9* |
| 10 28 | 15 13.07 | −15 4.0 | 2.096 | 1.171 | 13.3 | 21.2 | 16 E | 3* | 9* |
| 11 2 | 15 30.23 | −17 27.5 | 2.099 | 1.170 | 12.8 | 21.2 | 15 E | 2* | 9* |
| 11 7 | 15 47.86 | −19 45.0 | 2.104 | 1.172 | 12.3 | 21.2 | 15 E | 1* | 8* |
| 11 12 | 16 5.97 | −21 55.4 | 2.111 | 1.177 | 11.9 | 21.2 | 14 E | — | 8* |
| 11 17 | 16 24.57 | −23 57.5 | 2.120 | 1.185 | 11.6 | 21.2 | 14 E | — | 8* |
| 11 22 | 16 43.64 | −25 50.2 | 2.131 | 1.195 | 11.3 | 21.2 | 14 E | — | 8* |
| 11 27 | 17 3.17 | −27 32.6 | 2.144 | 1.207 | 11.1 | 21.3 | 14 E | — | 8* |
| 12 2 | 17 23.11 | −29 3.9 | 2.159 | 1.222 | 10.9 | 21.3 | 14 E | — | 7* |
| 12 7 | 17 43.41 | −30 23.4 | 2.175 | 1.239 | 10.7 | 21.3 | 14 E | — | 7* |
| 12 12 | 18 3.99 | −31 30.5 | 2.193 | 1.258 | 10.6 | 21.4 | 14 E | — | 7* |
| 12 17 | 18 24.74 | −32 25.0 | 2.213 | 1.279 | 10.5 | 21.4 | 14 E | — | 7* |
| 12 22 | 18 45.56 | −33 6.7 | 2.235 | 1.301 | 10.5 | 21.5 | 14 E | — | 7* |

**270038** 2001 $KW_{65}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 14 6.67 | − 4 25.4 | 2.920 | 2.034 | 10.9 | 21.5 | 23 E | 9* | 15* |
| 10 13 | 14 27.18 | − 6 28.3 | 2.922 | 2.002 | 9.2 | 21.3 | 19 E | 8* | 10* |
| 10 23 | 14 48.53 | − 8 27.2 | 2.917 | 1.971 | 7.4 | 21.2 | 15 E | 6* | 6* |
| 11 2 | 15 10.76 | −10 20.7 | 2.904 | 1.940 | 5.7 | 21.1 | 11 E | 4* | 1* |
| 11 12 | 15 33.88 | −12 7.2 | 2.884 | 1.909 | 4.3 | 21.0 | 8 E | 2* | — |
| 11 22 | 15 57.90 | −13 44.7 | 2.858 | 1.880 | 3.5 | 20.9 | 7 E | — | — |
| 12 2 | 16 22.82 | −15 11.7 | 2.826 | 1.851 | 3.8 | 20.8 | 7 W | — | — |
| 12 12 | 16 48.60 | −16 26.4 | 2.789 | 1.824 | 5.0 | 20.9 | 9 W | 3* | — |
| 12 22 | 17 15.16 | −17 27.0 | 2.748 | 1.798 | 6.6 | 20.9 | 12 W | 5* | — |
| 1 1 | 17 42.44 | −18 12.3 | 2.703 | 1.773 | 8.4 | 20.9 | 15 W | 7* | 4* |
| 1 11 | 18 10.31 | −18 41.1 | 2.654 | 1.750 | 10.3 | 20.9 | 19 W | 8* | 9* |
| 1 21 | 18 38.63 | −18 52.5 | 2.604 | 1.729 | 12.2 | 20.9 | 22 W | 9* | 13* |

**159781** 2003 $MZ_{7}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 14 16.50 | −15 16.6 | 3.883 | 3.028 | 8.7 | 21.4 | 27 E | 3* | 21* |
| 10 13 | 14 30.48 | −16 9.6 | 3.916 | 3.005 | 6.8 | 21.4 | 21 E | 1* | 15* |
| 10 23 | 14 44.98 | −17 1.6 | 3.933 | 2.981 | 4.8 | 21.3 | 15 E | — | 9* |
| 11 2 | 14 59.96 | −17 51.7 | 3.934 | 2.955 | 2.8 | 21.1 | 8 E | — | 2* |
| 11 12 | 15 15.37 | −18 39.0 | 3.918 | 2.929 | 0.7 | 20.9 | 2 E | — | — |
| 11 22 | 15 31.16 | −19 22.4 | 3.886 | 2.902 | 1.5 | 21.0 | 4 W | — | — |
| 12 2 | 15 47.29 | −20 1.2 | 3.837 | 2.874 | 3.6 | 21.1 | 11 W | 2* | 2* |
| 12 12 | 16 3.68 | −20 34.4 | 3.772 | 2.844 | 5.8 | 21.1 | 17 W | 7* | 8* |
| 12 22 | 16 20.28 | −21 1.4 | 3.692 | 2.814 | 7.9 | 21.1 | 23 W | 10* | 13* |
| 1 1 | 16 37.01 | −21 21.4 | 3.597 | 2.784 | 10.0 | 21.2 | 30 W | 13* | 20* |
| 1 11 | 16 53.77 | −21 33.8 | 3.488 | 2.752 | 12.1 | 21.1 | 36 W | 15* | 26* |
| 1 21 | 17 10.47 | −21 38.3 | 3.368 | 2.719 | 14.0 | 21.1 | 42 W | 17* | 33* |

**124357** 2001 $QH_{129}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 14 21.19 | + 1 24.2 | 3.842 | 2.984 | 8.7 | 21.5 | 27 E | 16* | 15* |
| 10 13 | 14 35.04 | + 0 17.2 | 3.895 | 2.995 | 7.2 | 21.5 | 22 E | 14* | 9* |
| 10 23 | 14 49.14 | − 0 44.9 | 3.934 | 3.004 | 5.9 | 21.4 | 18 E | 12* | 2* |
| 11 2 | 15 3.45 | − 1 41.3 | 3.957 | 3.013 | 5.1 | 21.4 | 16 E | 9* | — |
| 11 12 | 15 17.91 | − 2 31.2 | 3.964 | 3.021 | 5.0 | 21.4 | 15 E | 6* | — |
| 11 22 | 15 32.45 | − 3 13.9 | 3.956 | 3.028 | 5.6 | 21.4 | 17 W | 9* | — |
| 12 2 | 15 47.01 | − 3 48.8 | 3.932 | 3.034 | 6.7 | 21.5 | 21 W | 15* | — |

**313809** 2004 $BH_{41}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 14 22.01 | + 0 10.9 | 1.598 | 0.838 | 32.7 | 21.3 | 27 E | 15* | 16* |
| 10 13 | 14 59.39 | − 5 50.8 | 1.494 | 0.750 | 36.6 | 21.0 | 27 E | 14* | 17* |
| 10 23 | 15 40.53 | −12 41.1 | 1.383 | 0.673 | 42.3 | 20.8 | 27 E | 11* | 19* |
| 11 2 | 16 26.09 | −20 15.4 | 1.267 | 0.618 | 50.2 | 20.6 | 29 E | 8* | 22* |
| 11 12 | 17 16.94 | −28 13.1 | 1.148 | 0.597 | 59.6 | 20.6 | 31 E | 5* | 25* |
| 11 22 | 18 14.78 | −35 51.6 | 1.032 | 0.617 | 68.4 | 20.7 | 35 E | 1* | 29* |
| 12 2 | 19 22.85 | −42 7.8 | 0.929 | 0.671 | 74.1 | 20.9 | 41 E | — | 34* |
| 12 12 | 20 43.56 | −45 41.5 | 0.846 | 0.747 | 76.0 | 21.0 | 47 E | — | 41* |
| 12 22 | 22 12.00 | −45 12.7 | 0.790 | 0.834 | 74.5 | 21.0 | 55 E | — | 48* |
| 1 1 | 23 35.16 | −40 19.8 | 0.763 | 0.925 | 70.5 | 21.0 | 62 E | 5* | 56* |
| 1 11 | 0 43.64 | −32 14.4 | 0.772 | 1.015 | 65.2 | 21.1 | 69 E | 13 | 63* |
| 1 21 | 1 37.22 | −22 52.1 | 0.814 | 1.101 | 59.6 | 21.2 | 75 E | 22 | 66* |

**124165** 2001 $ON_{16}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 3 | 14 24.50 | −11 25.4 | 3.548 | 2.705 | 10.0 | 21.5 | 28 E | 7* | 22* |
| 10 13 | 14 39.34 | −12 52.0 | 3.575 | 2.676 | 8.0 | 21.4 | 22 E | 5* | 16* |
| 10 23 | 14 54.86 | −14 16.4 | 3.588 | 2.646 | 6.0 | 21.3 | 16 E | 3* | 10* |
| 11 2 | 15 11.04 | −15 37.8 | 3.586 | 2.615 | 3.9 | 21.1 | 10 E | — | 4* |
| 11 12 | 15 27.87 | −16 55.3 | 3.569 | 2.584 | 1.8 | 20.9 | 5 E | — | — |
| 11 22 | 15 45.31 | −18 8.1 | 3.537 | 2.551 | 0.8 | 20.8 | 2 W | — | — |
| 12 2 | 16 3.33 | −19 15.4 | 3.492 | 2.517 | 2.8 | 20.9 | 7 W | 1* | — |
| 12 12 | 16 21.92 | −20 16.5 | 3.433 | 2.482 | 5.1 | 21.0 | 13 W | 4* | 4* |
| 12 22 | 16 41.02 | −21 10.5 | 3.360 | 2.447 | 7.3 | 21.0 | 18 W | 7* | 9* |
| 1 1 | 17 0.60 | −21 57.0 | 3.275 | 2.411 | 9.5 | 21.0 | 24 W | 10* | 15* |
| 1 11 | 17 20.61 | −22 35.3 | 3.179 | 2.373 | 11.8 | 21.0 | 30 W | 11* | 21* |
| 1 21 | 17 40.98 | −23 5.1 | 3.073 | 2.336 | 14.0 | 21.0 | 35 W | 13* | 27* |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | **433873** 2015 $BQ_{311}$ | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 3 | 14 26.96 | + 8 31.5 | 8.646 | 7.799 | 3.7 | 21.5 | 30 E | 22* | 13* |
| 10 13 | 14 32.31 | + 7 53.9 | 8.673 | 7.783 | 3.1 | 21.5 | 25 E | 19* | 5* |
| 10 23 | 14 37.89 | + 7 19.2 | 8.679 | 7.767 | 2.8 | 21.4 | 22 E | 16* | — |
| 11 2 | 14 43.62 | + 6 47.9 | 8.663 | 7.750 | 2.7 | 21.4 | 22 E | 12* | — |
| 11 12 | 14 49.43 | + 6 20.5 | 8.624 | 7.734 | 3.0 | 21.4 | 24 W | 14* | — |
| 11 22 | 14 55.23 | + 5 57.5 | 8.564 | 7.717 | 3.6 | 21.4 | 29 W | 22* | — |
| 12 2 | 15 0.95 | + 5 39.2 | 8.482 | 7.700 | 4.3 | 21.5 | 35 W | 29* | 1* |
| 12 12 | 15 6.48 | + 5 25.9 | 8.380 | 7.684 | 5.0 | 21.5 | 43 W | 36* | 9* |
| 12 22 | 15 11.74 | + 5 18.0 | 8.260 | 7.667 | 5.7 | 21.5 | 50 W | 41* | 17* |
| 1 1 | 15 16.64 | + 5 15.6 | 8.124 | 7.650 | 6.3 | 21.5 | 58 W | 46* | 26* |
| 1 11 | 15 21.07 | + 5 18.7 | 7.975 | 7.633 | 6.8 | 21.4 | 66 W | 48* | 35* |
| 1 21 | 15 24.95 | + 5 27.4 | 7.815 | 7.616 | 7.2 | 21.4 | 75 W | 50* | 43* |
| | **270303** 2001 $WB_{2}$ | | | | | | | | |
| 10 3 | 14 33.82 | − 8 45.6 | 2.995 | 2.183 | 13.2 | 21.4 | 30 E | 11* | 23* |
| 10 13 | 14 53.13 | − 9 39.8 | 3.009 | 2.147 | 11.3 | 21.4 | 25 E | 10* | 17* |
| 10 23 | 15 13.29 | −10 30.1 | 3.013 | 2.110 | 9.5 | 21.2 | 21 E | 9* | 12* |
| 11 2 | 15 34.30 | −11 14.7 | 3.006 | 2.073 | 7.8 | 21.1 | 16 E | 7* | 7* |
| 11 12 | 15 56.16 | −11 51.8 | 2.989 | 2.036 | 6.2 | 21.0 | 13 E | 6* | 2* |
| 11 22 | 16 18.84 | −12 19.6 | 2.963 | 1.999 | 5.1 | 20.9 | 10 E | 4* | — |
| 12 2 | 16 42.31 | −12 36.4 | 2.928 | 1.963 | 4.8 | 20.8 | 10 E | 2* | — |
| 12 12 | 17 6.52 | −12 40.6 | 2.887 | 1.927 | 5.4 | 20.8 | 11 W | 3* | — |
| 12 22 | 17 31.41 | −12 30.5 | 2.838 | 1.892 | 6.7 | 20.8 | 13 W | 7* | — |
| 1 1 | 17 56.90 | −12 5.0 | 2.785 | 1.858 | 8.3 | 20.7 | 16 W | 10* | — |
| 1 11 | 18 22.90 | −11 22.9 | 2.727 | 1.825 | 10.0 | 20.7 | 19 W | 12* | 3* |
| 1 21 | 18 49.29 | −10 23.9 | 2.667 | 1.793 | 11.8 | 20.7 | 22 W | 14* | 7* |
| | **137158** 1999 $FB$ | | | | | | | | |
| 10 3 | 15 2.04 | −23 12.3 | 2.060 | 1.449 | 26.5 | 21.5 | 40 E | 4* | 34* |
| 10 13 | 15 25.00 | −24 51.6 | 2.048 | 1.373 | 25.3 | 21.3 | 36 E | 3* | 30* |
| 10 23 | 15 50.30 | −26 25.3 | 2.018 | 1.290 | 24.2 | 21.1 | 32 E | 2* | 26* |
| 11 2 | 16 18.33 | −27 49.4 | 1.970 | 1.199 | 23.4 | 20.9 | 29 E | 1* | 23* |
| 11 12 | 16 49.56 | −28 58.3 | 1.904 | 1.100 | 23.1 | 20.6 | 26 E | 1* | 20* |
| 11 22 | 17 24.49 | −29 43.6 | 1.818 | 0.994 | 23.4 | 20.3 | 24 E | — | 18* |
| 11 27 | 17 43.53 | −29 53.8 | 1.768 | 0.938 | 23.9 | 20.1 | 23 E | 1* | 17* |
| 12 2 | 18 3.69 | −29 53.1 | 1.713 | 0.880 | 24.8 | 19.9 | 22 E | 1* | 16* |
| 12 7 | 18 25.03 | −29 39.2 | 1.653 | 0.821 | 26.2 | 19.8 | 22 E | 1* | 15* |
| 12 12 | 18 47.57 | −29 9.0 | 1.587 | 0.761 | 28.2 | 19.6 | 21 E | 2* | 15* |
| 12 17 | 19 11.26 | −28 19.1 | 1.516 | 0.701 | 31.0 | 19.4 | 22 E | 3* | 15* |
| 12 22 | 19 36.02 | −27 5.5 | 1.438 | 0.641 | 35.0 | 19.2 | 22 E | 5* | 15* |
| 12 27 | 20 1.64 | −25 23.9 | 1.353 | 0.585 | 40.4 | 19.0 | 23 E | 6* | 15* |
| 1 1 | 20 27.73 | −23 10.0 | 1.260 | 0.535 | 47.7 | 18.8 | 24 E | 9* | 15* |
| 1 6 | 20 53.67 | −20 20.5 | 1.160 | 0.495 | 57.2 | 18.8 | 25 E | 11* | 15* |
| 1 11 | 21 18.57 | −16 55.0 | 1.052 | 0.470 | 68.7 | 18.8 | 26 E | 14* | 15* |
| 1 16 | 21 41.49 | −12 56.2 | 0.940 | 0.464 | 81.3 | 18.9 | 28 E | 17* | 14* |
| 1 21 | 22 1.79 | − 8 29.5 | 0.830 | 0.479 | 93.6 | 19.2 | 29 E | 20* | 13* |
| | **190161** 2005 $TJ_{174}$ | | | | | | | | |
| 10 3 | 15 6.47 | −20 9.9 | 2.844 | 2.177 | 17.2 | 21.5 | 40 E | 7* | 34* |
| 10 13 | 15 25.33 | −21 11.5 | 2.865 | 2.123 | 15.6 | 21.4 | 35 E | 6* | 29* |
| 10 23 | 15 45.49 | −22 9.5 | 2.873 | 2.068 | 13.8 | 21.3 | 30 E | 4* | 24* |
| 11 2 | 16 6.98 | −23 2.1 | 2.870 | 2.012 | 11.9 | 21.1 | 25 E | 3* | 19* |
| 11 12 | 16 29.80 | −23 46.9 | 2.856 | 1.955 | 10.0 | 21.0 | 20 E | 2* | 14* |
| 11 22 | 16 53.94 | −24 21.6 | 2.831 | 1.898 | 8.0 | 20.8 | 15 E | 1* | 9* |
| 12 2 | 17 19.39 | −24 43.6 | 2.797 | 1.840 | 6.0 | 20.6 | 11 E | — | 5* |
| 12 12 | 17 46.11 | −24 50.4 | 2.754 | 1.781 | 3.9 | 20.4 | 7 E | — | 1* |
| 12 22 | 18 14.02 | −24 39.4 | 2.704 | 1.723 | 1.9 | 20.2 | 3 E | — | — |
| 1 1 | 18 43.02 | −24 8.2 | 2.648 | 1.665 | 0.7 | 19.9 | 1 W | — | — |
| 1 11 | 19 13.00 | −23 14.4 | 2.587 | 1.607 | 2.3 | 20.0 | 4 W | — | — |
| 1 21 | 19 43.78 | −21 56.4 | 2.524 | 1.551 | 4.2 | 19.9 | 7 W | — | 1* |
| | **190339** 1998 $SC_{117}$ | | | | | | | | |
| 10 3 | 15 13.62 | −22 19.7 | 2.561 | 1.944 | 20.3 | 21.5 | 42 E | 6* | 36* |
| 10 13 | 15 36.51 | −23 31.8 | 2.595 | 1.910 | 18.8 | 21.4 | 38 E | 5* | 32* |
| 10 23 | 16 0.69 | −24 35.7 | 2.621 | 1.877 | 17.1 | 21.4 | 34 E | 5* | 28* |
| 11 2 | 16 26.12 | −25 28.8 | 2.641 | 1.845 | 15.4 | 21.3 | 30 E | 4* | 24* |
| 11 12 | 16 52.72 | −26 8.5 | 2.655 | 1.814 | 13.7 | 21.2 | 26 E | 3* | 20* |
| 11 22 | 17 20.35 | −26 32.4 | 2.663 | 1.784 | 11.9 | 21.1 | 22 E | 3* | 16* |
| 12 2 | 17 48.88 | −26 38.1 | 2.665 | 1.755 | 10.0 | 21.0 | 18 E | 2* | 12* |
| 12 12 | 18 18.11 | −26 23.9 | 2.664 | 1.728 | 8.2 | 20.9 | 15 E | 1* | 8* |
| 12 22 | 18 47.79 | −25 48.5 | 2.658 | 1.703 | 6.4 | 20.8 | 11 E | — | 5* |
| 1 1 | 19 17.69 | −24 51.0 | 2.649 | 1.680 | 4.6 | 20.6 | 8 E | — | 1* |
| 1 11 | 19 47.58 | −23 31.6 | 2.638 | 1.660 | 2.8 | 20.5 | 5 E | — | — |
| 1 21 | 20 17.25 | −21 51.0 | 2.625 | 1.642 | 1.4 | 20.4 | 2 E | — | — |
| | **199801** 2007 $AE_{12}$ | | | | | | | | |
| 10 3 | 15 14.95 | −17 4.7 | 1.251 | 0.826 | 52.9 | 21.3 | 41 E | 10* | 35* |
| 10 8 | 15 35.16 | −18 9.0 | 1.195 | 0.794 | 56.0 | 21.2 | 41 E | 11* | 35* |
| 10 13 | 15 56.65 | −19 7.6 | 1.137 | 0.767 | 59.5 | 21.1 | 41 E | 12* | 35* |
| 10 18 | 16 19.44 | −19 58.9 | 1.077 | 0.746 | 63.3 | 21.1 | 42 E | 12* | 35* |
| 10 23 | 16 43.58 | −20 40.8 | 1.015 | 0.732 | 67.2 | 21.0 | 43 E | 13* | 36* |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | −26° |
|---|---|---|---|---|---|---|---|---|---|
| | **199801** 2007 $AE_{12}$ *(continuation)* | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 28 | 17 9.12 | −21 11.2 | 0.953 | 0.725 | 71.1 | 21.0 | 44 E | 14* | 37* |
| 11 2 | 17 36.10 | −21 27.9 | 0.892 | 0.727 | 74.8 | 21.0 | 45 E | 16* | 38* |
| 11 7 | 18 4.62 | −21 28.3 | 0.834 | 0.736 | 78.0 | 21.0 | 47 E | 17* | 39* |
| 11 12 | 18 34.77 | −21 9.6 | 0.779 | 0.753 | 80.5 | 21.0 | 49 E | 19* | 40* |
| 11 17 | 19 6.62 | −20 28.8 | 0.729 | 0.777 | 82.0 | 20.9 | 51 E | 21* | 42* |
| 11 22 | 19 40.14 | −19 22.5 | 0.686 | 0.806 | 82.5 | 20.9 | 54 E | 23* | 44* |
| 11 27 | 20 15.19 | −17 48.2 | 0.652 | 0.840 | 81.8 | 20.9 | 57 E | 26* | 46* |
| 12 2 | 20 51.38 | −15 44.8 | 0.626 | 0.877 | 80.1 | 20.8 | 61 E | 28* | 48* |
| 12 7 | 21 28.08 | −13 14.4 | 0.612 | 0.918 | 77.4 | 20.7 | 65 E | 31* | 50* |
| 12 12 | 22 4.50 | −10 22.6 | 0.608 | 0.960 | 74.0 | 20.7 | 70 E | 35* | 51* |
| 12 17 | 22 39.82 | − 7 18.1 | 0.615 | 1.004 | 70.2 | 20.7 | 74 E | 38 | 52* |
| 12 22 | 23 13.37 | − 4 10.7 | 0.633 | 1.050 | 66.3 | 20.8 | 78 E | 41 | 53* |
| 12 27 | 23 44.69 | − 1 9.1 | 0.662 | 1.095 | 62.5 | 20.8 | 81 E | 44 | 53* |
| 1 1 | 0 13.60 | + 1 40.5 | 0.700 | 1.141 | 58.9 | 20.9 | 84 E | 47 | 52* |
| 1 6 | 0 40.13 | + 4 14.8 | 0.745 | 1.187 | 55.7 | 21.1 | 86 E | 49 | 51* |
| 1 11 | 1 4.41 | + 6 32.9 | 0.798 | 1.233 | 52.8 | 21.2 | 87 E | 52 | 50* |
| 1 16 | 1 26.65 | + 8 35.0 | 0.856 | 1.278 | 50.3 | 21.4 | 88 E | 54 | 48* |
| | **65909** 1998 $FH_{12}$ | | | | | | | | |
| 10 3 | 15 31.52 | −18 58.5 | 1.272 | 0.914 | 51.4 | 21.4 | 45 E | 11* | 39* |
| 10 13 | 15 59.37 | −20 57.8 | 1.187 | 0.810 | 56.2 | 21.2 | 42 E | 10* | 36* |
| 10 23 | 16 29.16 | −22 47.4 | 1.073 | 0.705 | 64.2 | 20.9 | 40 E | 10* | 33* |
| 11 2 | 16 58.82 | −24 21.1 | 0.927 | 0.606 | 77.6 | 20.7 | 37 E | 9* | 30* |
| 11 12 | 17 21.78 | −25 32.4 | 0.753 | 0.531 | 99.4 | 20.8 | 32 E | 7* | 25* |
| | **293054** 2006 $WP_{127}$ | | | | | | | | |
| 10 13 | 1 58.76 | + 7 57.9 | 3.387 | 4.369 | 2.6 | 24.5 | 168 W | 53 | 56 |
| 10 23 | 1 50.43 | + 7 6.5 | 3.360 | 4.353 | 1.0 | 24.4 | 176 W | 52 | 57 |
| 11 2 | 1 42.06 | + 6 16.4 | 3.367 | 4.336 | 3.2 | 24.5 | 166 E | 51 | 58 |
| 11 12 | 1 34.22 | + 5 30.9 | 3.406 | 4.317 | 5.8 | 24.7 | 154 E | 51 | 58 |
| 11 22 | 1 27.39 | + 4 53.0 | 3.474 | 4.298 | 8.1 | 24.8 | 142 E | 50 | 59 |
| | **445279** 2009 $WZ_{49}$ | | | | | | | | |
| 10 13 | 2 2.57 | +28 48.9 | 2.860 | 3.792 | 6.2 | 22.7 | 156 W | 74 | 35 |
| 10 18 | 1 58.11 | +28 35.6 | 2.835 | 3.786 | 5.2 | 22.6 | 160 W | 74 | 35 |
| 10 23 | 1 53.53 | +28 18.6 | 2.818 | 3.780 | 4.4 | 22.5 | 163 W | 73 | 36 |
| 10 28 | 1 48.92 | +27 58.3 | 2.808 | 3.774 | 4.1 | 22.5 | 164 E | 73 | 36 |
| 11 2 | 1 44.38 | +27 35.0 | 2.806 | 3.768 | 4.3 | 22.5 | 164 E | 73 | 36 |
| 11 7 | 1 40.00 | +27 9.2 | 2.812 | 3.762 | 5.0 | 22.5 | 161 E | 72 | 37 |
| 11 12 | 1 35.88 | +26 41.6 | 2.825 | 3.755 | 6.0 | 22.6 | 157 E | 72 | 37 |
| | **530974** 2012 $BN_{11}$ | | | | | | | | |
| 10 13 | 2 9.23 | + 5 45.5 | 0.991 | 1.973 | 7.2 | 22.8 | 166 W | 51 | 58 |
| 10 18 | 2 1.14 | + 4 51.7 | 0.991 | 1.982 | 4.4 | 22.7 | 171 W | 50 | 59 |
| 10 23 | 1 52.95 | + 3 59.7 | 0.999 | 1.990 | 3.7 | 22.6 | 173 W | 49 | 60 |
| 10 28 | 1 44.94 | + 3 11.5 | 1.014 | 1.997 | 5.7 | 22.8 | 169 E | 48 | 61 |
| 11 2 | 1 37.36 | + 2 28.3 | 1.035 | 2.004 | 8.6 | 23.0 | 162 E | 47 | 62 |
| 11 7 | 1 30.45 | + 1 51.6 | 1.064 | 2.010 | 11.5 | 23.2 | 156 E | 47 | 62 |
| 11 12 | 1 24.38 | + 1 22.1 | 1.098 | 2.015 | 14.3 | 23.3 | 150 E | 46 | 63 |
| | **480984** 2003 $YR_{70}$ | | | | | | | | |
| 10 13 | 2 12.84 | +18 21.7 | 1.249 | 2.219 | 8.1 | 22.9 | 162 W | 63 | 46 |
| 10 18 | 2 6.54 | +17 55.6 | 1.213 | 2.197 | 5.4 | 22.7 | 168 W | 63 | 46 |
| 10 23 | 1 59.73 | +17 24.5 | 1.184 | 2.175 | 3.0 | 22.5 | 173 W | 62 | 47 |
| 10 28 | 1 52.60 | +16 49.0 | 1.162 | 2.153 | 2.5 | 22.4 | 175 E | 62 | 47 |
| 11 2 | 1 45.37 | +16 10.0 | 1.147 | 2.130 | 4.9 | 22.5 | 170 E | 61 | 48 |
| 11 7 | 1 38.30 | +15 28.8 | 1.139 | 2.107 | 7.8 | 22.6 | 163 E | 60 | 49 |
| 11 12 | 1 31.63 | +14 47.0 | 1.138 | 2.084 | 10.9 | 22.7 | 157 E | 60 | 49 |
| | **497135** 2004 $QD_{20}$ | | | | | | | | |
| 10 13 | 2 15.48 | +18 39.3 | 2.695 | 3.653 | 5.1 | 23.4 | 161 W | 64 | 45 |
| 10 23 | 2 5.50 | +17 31.6 | 2.673 | 3.663 | 2.0 | 23.2 | 173 W | 63 | 46 |
| 11 2 | 1 55.44 | +16 17.8 | 2.685 | 3.671 | 2.2 | 23.2 | 172 E | 61 | 48 |
| 11 12 | 1 46.06 | +15 2.9 | 2.731 | 3.677 | 5.3 | 23.4 | 160 E | 60 | 49 |
| 11 22 | 1 38.03 | +13 52.2 | 2.807 | 3.682 | 8.2 | 23.6 | 148 E | 59 | 50 |
| | **539940** 2017 $HW_{1}$ | | | | | | | | |
| 10 13 | 2 18.24 | + 0 32.4 | 2.145 | 3.110 | 5.7 | 22.4 | 162 W | 46 | 63 |
| 10 23 | 2 5.65 | + 0 26.0 | 2.133 | 3.114 | 3.7 | 22.3 | 168 W | 45 | 64 |
| 11 2 | 1 52.89 | + 0 28.2 | 2.153 | 3.116 | 5.2 | 22.4 | 163 E | 45 | 64 |
| 11 12 | 1 40.99 | + 0 41.3 | 2.205 | 3.118 | 8.4 | 22.6 | 153 E | 46 | 63 |
| 11 22 | 1 30.83 | + 1 6.5 | 2.286 | 3.117 | 11.5 | 22.8 | 141 E | 46 | 63 |
| | **430439** 2000 $LF_{6}$ | | | | | | | | |
| 10 13 | 2 19.55 | − 5 16.0 | 2.903 | 3.850 | 5.4 | 25.5 | 159 W | 40 | 69 |
| 10 23 | 2 11.05 | − 5 52.9 | 2.930 | 3.889 | 4.5 | 25.5 | 162 W | 39 | 70 |
| 11 2 | 2 2.56 | − 6 18.3 | 2.988 | 3.926 | 5.4 | 25.6 | 158 E | 39 | 70 |
| 11 12 | 1 54.71 | − 6 30.3 | 3.076 | 3.963 | 7.2 | 25.8 | 150 E | 38 | 71 |
| 11 22 | 1 48.00 | − 6 28.3 | 3.191 | 3.999 | 9.1 | 25.9 | 140 E | 39 | 70 |

**452435** 2003 *GB*

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 2 26.36 | − 2 27.3 | 3.420 | 4.366 | 4.7 | 22.5 | 159 W | 43 | 66 |
| 10 23 | 2 19.69 | − 3 38.9 | 3.413 | 4.376 | 3.7 | 22.4 | 163 W | 41 | 68 |
| 11 2 | 2 12.78 | − 4 42.3 | 3.438 | 4.385 | 4.4 | 22.5 | 160 E | 40 | 69 |
| 11 12 | 2 6.15 | − 5 34.4 | 3.494 | 4.394 | 6.0 | 22.6 | 152 E | 39 | 70 |
| 11 22 | 2 0.25 | − 6 13.0 | 3.578 | 4.402 | 7.9 | 22.7 | 142 E | 39 | 70 |

**137120** 1999 $BJ_8$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 27.24 | +26 14.6 | 1.911 | 2.843 | 8.8 | 22.4 | 154 W | 71 | 38 |
| 10 18 | 2 21.05 | +26 1.8 | 1.878 | 2.833 | 7.0 | 22.2 | 160 W | 71 | 38 |
| 10 23 | 2 14.49 | +25 44.0 | 1.851 | 2.823 | 5.4 | 22.1 | 164 W | 71 | 38 |
| 10 28 | 2 7.70 | +25 21.3 | 1.833 | 2.811 | 4.3 | 22.0 | 168 E | 70 | 39 |
| 11 2 | 2 0.85 | +24 54.1 | 1.822 | 2.800 | 4.3 | 22.0 | 168 E | 70 | 39 |
| 11 7 | 1 54.11 | +24 23.2 | 1.819 | 2.788 | 5.3 | 22.1 | 165 E | 69 | 40 |
| 11 12 | 1 47.66 | +23 49.4 | 1.824 | 2.775 | 6.9 | 22.1 | 160 E | 69 | 40 |
| 11 17 | 1 41.65 | +23 13.9 | 1.836 | 2.762 | 8.8 | 22.2 | 155 E | 68 | 41 |
| 11 22 | 1 36.21 | +22 37.8 | 1.855 | 2.749 | 10.7 | 22.3 | 149 E | 68 | 41 |

**20461** Dioretsa

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 27.29 | − 6 42.2 | 31.869 | 32.786 | 0.7 | 29.0 | 156 W | 38 | 71 |
| 10 23 | 2 26.06 | − 6 49.6 | 31.872 | 32.807 | 0.6 | 29.0 | 160 W | 38 | 71 |
| 11 2 | 2 24.80 | − 6 56.0 | 31.904 | 32.828 | 0.6 | 29.0 | 158 E | 38 | 71 |
| 11 12 | 2 23.55 | − 7 1.1 | 31.964 | 32.849 | 0.8 | 29.0 | 153 E | 38 | 71 |
| 11 22 | 2 22.34 | − 7 4.9 | 32.053 | 32.870 | 1.0 | 29.1 | 145 E | 38 | 71 |

**429746** 2011 $SA_{16}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 29.98 | +37 23.4 | 3.186 | 4.047 | 8.0 | 23.4 | 145 W | 82 | 27 |
| 10 18 | 2 25.48 | +37 9.8 | 3.163 | 4.055 | 7.1 | 23.4 | 150 W | 82 | 27 |
| 10 23 | 2 20.81 | +36 51.7 | 3.148 | 4.063 | 6.3 | 23.3 | 153 W | 82 | 27 |
| 10 28 | 2 16.05 | +36 29.4 | 3.140 | 4.070 | 5.6 | 23.3 | 156 W | 81 | 28 |
| 11 2 | 2 11.31 | +36 3.1 | 3.139 | 4.077 | 5.2 | 23.3 | 158 E | 81 | 28 |
| 11 7 | 2 6.68 | +35 33.2 | 3.146 | 4.084 | 5.1 | 23.3 | 159 E | 81 | 28 |
| 11 12 | 2 2.25 | +35 0.3 | 3.160 | 4.091 | 5.4 | 23.3 | 157 E | 80 | 29 |
| 11 17 | 1 58.11 | +34 25.0 | 3.182 | 4.098 | 5.9 | 23.3 | 155 E | 79 | 30 |

**455149** 1995 *LF*

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 30.68 | + 8 17.1 | 2.349 | 3.307 | 5.8 | 25.5 | 161 W | 53 | 56 |
| 10 23 | 2 21.63 | + 7 25.3 | 2.315 | 3.302 | 2.6 | 25.3 | 171 W | 52 | 57 |
| 11 2 | 2 12.09 | + 6 34.7 | 2.311 | 3.295 | 2.7 | 25.3 | 171 E | 52 | 57 |
| 11 12 | 2 2.86 | + 5 50.1 | 2.339 | 3.288 | 5.9 | 25.5 | 160 E | 51 | 58 |
| 11 22 | 1 54.75 | + 5 15.3 | 2.397 | 3.279 | 9.1 | 25.7 | 148 E | 50 | 59 |

**163694** 2003 $DP_{13}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 30.93 | +28 13.5 | 2.529 | 3.444 | 7.7 | 22.5 | 152 W | 73 | 36 |
| 10 18 | 2 25.96 | +28 0.7 | 2.521 | 3.462 | 6.3 | 22.4 | 157 W | 73 | 36 |
| 10 23 | 2 20.82 | +27 44.0 | 2.520 | 3.480 | 5.1 | 22.3 | 162 W | 73 | 36 |
| 10 28 | 2 15.62 | +27 24.0 | 2.527 | 3.498 | 4.1 | 22.3 | 166 W | 72 | 37 |
| 11 2 | 2 10.47 | +27 0.9 | 2.541 | 3.515 | 3.7 | 22.3 | 167 E | 72 | 37 |
| 11 7 | 2 5.49 | +26 35.4 | 2.563 | 3.532 | 4.0 | 22.3 | 166 E | 72 | 37 |
| 11 12 | 2 0.77 | +26 8.1 | 2.593 | 3.548 | 4.9 | 22.4 | 162 E | 71 | 38 |
| 11 17 | 1 56.41 | +25 39.7 | 2.631 | 3.565 | 6.1 | 22.5 | 158 E | 71 | 38 |

**528650** 2008 $WX_{32}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 36.31 | − 3 30.1 | 1.768 | 2.711 | 8.5 | 23.3 | 156 W | 42 | 67 |
| 10 18 | 2 30.24 | − 3 47.5 | 1.727 | 2.686 | 7.2 | 23.2 | 160 W | 41 | 68 |
| 10 23 | 2 23.67 | − 4 2.2 | 1.694 | 2.660 | 6.5 | 23.1 | 162 W | 41 | 68 |
| 10 28 | 2 16.72 | − 4 13.4 | 1.668 | 2.634 | 6.5 | 23.0 | 163 W | 41 | 68 |
| 11 2 | 2 9.54 | − 4 20.3 | 1.651 | 2.607 | 7.3 | 23.0 | 160 E | 41 | 68 |
| 11 7 | 2 2.32 | − 4 22.3 | 1.640 | 2.580 | 8.8 | 23.0 | 157 E | 41 | 68 |
| 11 12 | 1 55.23 | − 4 18.7 | 1.637 | 2.552 | 10.6 | 23.1 | 152 E | 41 | 68 |
| 11 17 | 1 48.45 | − 4 9.4 | 1.642 | 2.524 | 12.6 | 23.1 | 146 E | 41 | 68 |

**404151** 2013 $CQ_{33}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 37.02 | +41 4.9 | 3.834 | 4.658 | 7.6 | 22.9 | 142 W | 86 | 23 |
| 10 18 | 2 32.81 | +41 6.5 | 3.804 | 4.660 | 6.9 | 22.9 | 146 W | 86 | 23 |
| 10 23 | 2 28.38 | +41 4.1 | 3.781 | 4.662 | 6.3 | 22.8 | 149 W | 86 | 23 |
| 10 28 | 2 23.83 | +40 57.8 | 3.764 | 4.664 | 5.8 | 22.8 | 152 W | 86 | 23 |
| 11 2 | 2 19.22 | +40 47.6 | 3.755 | 4.666 | 5.4 | 22.8 | 154 E | 86 | 23 |
| 11 7 | 2 14.64 | +40 33.6 | 3.753 | 4.667 | 5.2 | 22.7 | 155 E | 86 | 23 |
| 11 12 | 2 10.19 | +40 16.2 | 3.758 | 4.668 | 5.3 | 22.8 | 154 E | 85 | 24 |
| 11 17 | 2 5.94 | +39 55.9 | 3.771 | 4.670 | 5.6 | 22.8 | 152 E | 85 | 24 |

**360192** 1991 *FB*

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 38.78 | +19 42.1 | 2.473 | 3.408 | 6.9 | 24.1 | 156 W | 65 | 44 |
| 10 23 | 2 28.58 | +19 12.4 | 2.456 | 3.435 | 3.5 | 24.0 | 168 W | 64 | 45 |
| 11 2 | 2 17.98 | +18 35.1 | 2.471 | 3.461 | 1.3 | 23.8 | 175 E | 64 | 45 |
| 11 12 | 2 7.83 | +17 53.9 | 2.518 | 3.486 | 4.0 | 24.1 | 166 E | 63 | 46 |
| 11 22 | 1 58.92 | +17 13.2 | 2.596 | 3.509 | 7.2 | 24.3 | 154 E | 62 | 47 |

**468005** 2012 $XD_{112}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 2 39.67 | + 6 37.7 | 0.683 | 1.652 | 12.9 | 22.1 | 158 W | 52 | 57 |
| 10 18 | 2 31.67 | + 5 46.8 | 0.654 | 1.636 | 9.4 | 21.9 | 164 W | 51 | 58 |
| 10 23 | 2 22.49 | + 4 53.2 | 0.630 | 1.618 | 6.3 | 21.6 | 170 W | 50 | 59 |
| 10 28 | 2 12.38 | + 3 59.0 | 0.611 | 1.600 | 5.6 | 21.5 | 171 W | 49 | 60 |
| 11 2 | 2 1.74 | + 3 6.6 | 0.599 | 1.581 | 8.3 | 21.6 | 167 E | 48 | 61 |
| 11 7 | 1 51.02 | + 2 18.6 | 0.592 | 1.561 | 12.4 | 21.7 | 160 E | 47 | 62 |
| 11 12 | 1 40.69 | + 1 37.6 | 0.591 | 1.541 | 16.8 | 21.8 | 153 E | 47 | 62 |
| 11 17 | 1 31.19 | + 1 5.6 | 0.595 | 1.520 | 21.3 | 21.9 | 146 E | 46 | 63 |
| 11 22 | 1 22.84 | + 0 43.8 | 0.603 | 1.497 | 25.5 | 22.0 | 139 E | 46 | 63 |
| 11 27 | 1 15.89 | + 0 32.5 | 0.615 | 1.474 | 29.5 | 22.2 | 133 E | 46 | 63 |

**455146** 1993 *FS*

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 40.05 | + 6 53.3 | 2.162 | 3.111 | 6.8 | 24.2 | 158 W | 52 | 57 |
| 10 23 | 2 31.07 | + 5 41.7 | 2.117 | 3.098 | 3.7 | 24.0 | 168 W | 51 | 58 |
| 11 2 | 2 21.32 | + 4 32.2 | 2.102 | 3.083 | 3.3 | 24.0 | 170 E | 50 | 59 |
| 11 12 | 2 11.69 | + 3 30.4 | 2.118 | 3.068 | 6.3 | 24.1 | 160 E | 49 | 60 |
| 11 22 | 2 3.09 | + 2 41.4 | 2.163 | 3.051 | 9.7 | 24.3 | 149 E | 48 | 61 |

**523636** 2010 $EX_{119}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 41.74 | +14 30.9 | 1.854 | 2.800 | 8.0 | 23.4 | 157 W | 60 | 49 |
| 10 18 | 2 35.92 | +13 45.0 | 1.845 | 2.815 | 5.8 | 23.3 | 164 W | 59 | 50 |
| 10 23 | 2 29.85 | +12 57.6 | 1.844 | 2.830 | 3.5 | 23.2 | 170 W | 58 | 51 |
| 10 28 | 2 23.69 | +12 9.4 | 1.851 | 2.844 | 1.3 | 23.1 | 176 W | 57 | 52 |
| 11 2 | 2 17.57 | +11 21.5 | 1.867 | 2.857 | 1.5 | 23.1 | 176 E | 56 | 53 |
| 11 7 | 2 11.66 | +10 34.8 | 1.890 | 2.870 | 3.6 | 23.3 | 170 E | 56 | 53 |
| 11 12 | 2 6.07 | + 9 50.4 | 1.922 | 2.883 | 5.8 | 23.5 | 163 E | 55 | 54 |
| 11 17 | 2 0.93 | + 9 9.1 | 1.961 | 2.895 | 7.8 | 23.6 | 157 E | 54 | 55 |

**506443** 2001 $CM_{35}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 42.49 | + 6 1.2 | 2.417 | 3.361 | 6.5 | 22.7 | 158 W | 51 | 58 |
| 10 23 | 2 34.26 | + 5 21.5 | 2.355 | 3.333 | 3.7 | 22.5 | 167 W | 50 | 59 |
| 11 2 | 2 25.16 | + 4 44.1 | 2.323 | 3.305 | 3.0 | 22.4 | 170 E | 50 | 59 |
| 11 12 | 2 15.98 | + 4 13.2 | 2.322 | 3.275 | 5.5 | 22.6 | 161 E | 49 | 60 |
| 11 22 | 2 7.55 | + 3 52.3 | 2.350 | 3.245 | 8.7 | 22.7 | 150 E | 49 | 60 |

**474574** 2004 $FG_1$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 42.65 | − 1 53.6 | 1.303 | 2.250 | 10.6 | 22.4 | 156 W | 43 | 66 |
| 10 18 | 2 37.46 | − 3 23.7 | 1.290 | 2.249 | 9.1 | 22.3 | 159 W | 42 | 67 |
| 10 23 | 2 31.83 | − 4 51.0 | 1.284 | 2.247 | 8.4 | 22.3 | 161 W | 40 | 69 |
| 10 28 | 2 25.93 | − 6 13.5 | 1.285 | 2.246 | 8.6 | 22.3 | 160 W | 39 | 70 |
| 11 2 | 2 19.95 | − 7 29.2 | 1.293 | 2.243 | 9.6 | 22.3 | 158 E | 38 | 71 |
| 11 7 | 2 14.09 | − 8 36.5 | 1.308 | 2.241 | 11.3 | 22.4 | 154 E | 36 | 73 |
| 11 12 | 2 8.53 | − 9 34.1 | 1.330 | 2.237 | 13.1 | 22.5 | 149 E | 35 | 74 |
| 11 17 | 2 3.44 | −10 21.5 | 1.357 | 2.234 | 15.1 | 22.6 | 144 E | 35 | 74 |

**96177** 1984 *BC*

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 47.12 | −12 20.6 | 3.396 | 4.283 | 6.9 | 22.3 | 149 W | 33 | 76 |
| 10 23 | 2 40.62 | −13 13.8 | 3.339 | 4.246 | 6.2 | 22.2 | 152 W | 32 | 77 |
| 11 2 | 2 33.45 | −13 55.1 | 3.310 | 4.209 | 6.5 | 22.2 | 151 W | 31 | 78 |
| 11 12 | 2 26.14 | −14 21.4 | 3.310 | 4.171 | 7.6 | 22.2 | 146 E | 31 | 78 |
| 11 22 | 2 19.23 | −14 30.5 | 3.336 | 4.132 | 9.0 | 22.3 | 139 E | 30 | 79 |
| 12 2 | 2 13.23 | −14 22.2 | 3.386 | 4.093 | 10.6 | 22.4 | 130 E | 31 | 78 |

**191094** 2002 $EA_3$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 50.45 | +55 9.6 | 2.439 | 3.160 | 14.3 | 25.3 | 129 W | 80 | 9 |
| 10 18 | 2 41.58 | +55 28.4 | 2.422 | 3.176 | 13.5 | 25.3 | 132 W | 80 | 9 |
| 10 23 | 2 32.13 | +55 37.8 | 2.410 | 3.191 | 12.8 | 25.3 | 135 W | 79 | 8 |
| 10 28 | 2 22.36 | +55 37.4 | 2.404 | 3.206 | 12.1 | 25.3 | 137 W | 79 | 8 |
| 11 2 | 2 12.54 | +55 27.0 | 2.405 | 3.221 | 11.6 | 25.3 | 139 E | 80 | 9 |
| 11 7 | 2 2.95 | +55 7.0 | 2.411 | 3.235 | 11.3 | 25.3 | 140 E | 80 | 9 |
| 11 12 | 1 53.86 | +54 38.1 | 2.425 | 3.249 | 11.2 | 25.3 | 140 E | 80 | 9 |
| 11 17 | 1 45.49 | +54 1.5 | 2.445 | 3.262 | 11.3 | 25.3 | 140 E | 81 | 10 |

**256670** 2007 $XT_{58}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 53.33 | +19 36.5 | 1.465 | 2.396 | 11.0 | 21.4 | 153 W | 65 | 44 |
| 10 23 | 2 43.09 | +18 52.6 | 1.389 | 2.364 | 6.2 | 21.1 | 165 W | 64 | 45 |
| 11 2 | 2 30.87 | +17 53.2 | 1.339 | 2.330 | 1.4 | 20.7 | 177 W | 63 | 46 |
| 11 12 | 2 18.08 | +16 43.3 | 1.318 | 2.295 | 5.2 | 20.8 | 168 E | 62 | 47 |
| 11 22 | 2 6.37 | +15 31.7 | 1.325 | 2.259 | 10.6 | 21.1 | 155 E | 61 | 48 |
| 12 2 | 1 57.08 | +14 27.5 | 1.356 | 2.221 | 15.7 | 21.3 | 143 E | 59 | 50 |
| 12 12 | 1 51.11 | +13 38.5 | 1.408 | 2.182 | 20.0 | 21.4 | 131 E | 59 | 50 |

**162922** 2001 $OY_{13}$

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 2 54.96 | +36 51.7 | 0.925 | 1.822 | 19.4 | 22.9 | 143 W | 82 | 27 |
| 10 18 | 2 46.05 | +36 40.1 | 0.899 | 1.822 | 16.9 | 22.8 | 148 W | 82 | 27 |
| 10 23 | 2 36.09 | +36 14.7 | 0.878 | 1.821 | 14.4 | 22.6 | 153 W | 81 | 28 |
| 10 28 | 2 25.45 | +35 34.6 | 0.862 | 1.819 | 12.3 | 22.5 | 157 W | 81 | 28 |
| 11 2 | 2 14.57 | +34 40.1 | 0.853 | 1.817 | 10.9 | 22.4 | 160 E | 80 | 29 |
| 11 7 | 2 3.91 | +33 32.4 | 0.850 | 1.813 | 10.8 | 22.4 | 160 E | 79 | 30 |
| 11 12 | 1 53.93 | +32 14.3 | 0.854 | 1.809 | 12.0 | 22.5 | 158 E | 77 | 32 |
| 11 17 | 1 45.00 | +30 49.1 | 0.864 | 1.804 | 14.0 | 22.6 | 154 E | 76 | 33 |

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | | **513492** 2009 $FA_{14}$ | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 2 56.68 | −10 29.4 | 1.900 | 2.798 | 10.8 | 22.3 | 148 W | 35 | 74 |
| 10 18 | 2 53.05 | −11 10.4 | 1.865 | 2.778 | 10.0 | 22.2 | 151 W | 34 | 75 |
| 10 23 | 2 48.97 | −11 48.1 | 1.836 | 2.757 | 9.6 | 22.2 | 153 W | 33 | 76 |
| 10 28 | 2 44.52 | −12 21.4 | 1.813 | 2.737 | 9.4 | 22.1 | 153 W | 33 | 76 |
| 11 2 | 2 39.82 | −12 49.4 | 1.797 | 2.716 | 9.8 | 22.1 | 152 W | 32 | 77 |
| 11 7 | 2 34.98 | −13 11.1 | 1.788 | 2.695 | 10.4 | 22.1 | 150 E | 32 | 77 |
| 11 12 | 2 30.15 | −13 25.8 | 1.785 | 2.674 | 11.5 | 22.1 | 148 E | 32 | 77 |
| 11 17 | 2 25.47 | −13 33.1 | 1.788 | 2.653 | 12.7 | 22.1 | 144 E | 31 | 78 |
| 11 22 | 2 21.07 | −13 32.8 | 1.797 | 2.631 | 14.0 | 22.2 | 140 E | 31 | 78 |
| 11 27 | 2 17.04 | −13 25.0 | 1.811 | 2.610 | 15.3 | 22.2 | 136 E | 32 | 77 |
| 12 2 | 2 13.51 | −13 9.9 | 1.831 | 2.588 | 16.7 | 22.3 | 131 E | 32 | 77 |
| | | **416680** 2004 $XD_{50}$ | | | | | | | |
| 10 13 | 2 59.39 | −19 18.9 | 1.360 | 2.234 | 15.9 | 21.7 | 142 W | 26 | 83 |
| 10 18 | 2 53.92 | −20 7.9 | 1.333 | 2.218 | 15.3 | 21.6 | 144 W | 25 | 84 |
| 10 23 | 2 47.75 | −20 49.5 | 1.312 | 2.202 | 15.1 | 21.5 | 145 W | 24 | 85 |
| 10 28 | 2 41.03 | −21 22.1 | 1.297 | 2.185 | 15.2 | 21.5 | 145 W | 24 | 85 |
| 11 2 | 2 33.97 | −21 44.2 | 1.287 | 2.168 | 15.8 | 21.5 | 144 W | 23 | 86 |
| 11 7 | 2 26.76 | −21 54.5 | 1.283 | 2.150 | 16.7 | 21.5 | 142 E | 23 | 86 |
| 11 12 | 2 19.66 | −21 52.4 | 1.285 | 2.132 | 17.8 | 21.5 | 139 E | 23 | 86 |
| 11 17 | 2 12.88 | −21 37.9 | 1.292 | 2.113 | 19.2 | 21.6 | 135 E | 23 | 86 |
| 11 22 | 2 6.62 | −21 11.4 | 1.303 | 2.094 | 20.6 | 21.6 | 132 E | 24 | 85 |
| 11 27 | 2 1.04 | −20 33.6 | 1.319 | 2.075 | 22.1 | 21.7 | 128 E | 24 | 85 |
| 12 2 | 1 56.27 | −19 45.7 | 1.338 | 2.055 | 23.6 | 21.7 | 124 E | 25 | 84 |
| | | **171839** 2001 $JM_1$ | | | | | | | |
| 10 13 | 3 6.92 | +25 11.3 | 0.913 | 1.834 | 17.0 | 21.1 | 148 W | 70 | 39 |
| 10 18 | 3 1.31 | +24 2.3 | 0.875 | 1.824 | 13.9 | 20.9 | 154 W | 69 | 40 |
| 10 23 | 2 54.67 | +22 41.2 | 0.844 | 1.813 | 10.4 | 20.7 | 161 W | 68 | 41 |
| 10 28 | 2 47.20 | +21 8.4 | 0.818 | 1.802 | 6.7 | 20.4 | 168 W | 66 | 43 |
| 11 2 | 2 39.17 | +19 25.3 | 0.799 | 1.789 | 3.0 | 20.2 | 175 W | 64 | 45 |
| 11 7 | 2 30.90 | +17 34.5 | 0.787 | 1.777 | 2.4 | 20.1 | 176 E | 63 | 46 |
| 11 12 | 2 22.76 | +15 39.2 | 0.781 | 1.763 | 6.2 | 20.3 | 169 E | 61 | 48 |
| 11 17 | 2 15.10 | +13 43.5 | 0.783 | 1.749 | 10.3 | 20.4 | 162 E | 59 | 50 |
| 11 22 | 2 8.20 | +11 51.1 | 0.791 | 1.735 | 14.3 | 20.6 | 154 E | 57 | 52 |
| 11 27 | 2 2.29 | +10 5.4 | 0.804 | 1.719 | 18.1 | 20.7 | 147 E | 55 | 54 |
| 12 2 | 1 57.52 | + 8 29.1 | 0.823 | 1.704 | 21.6 | 20.9 | 140 E | 53 | 56 |
| 12 7 | 1 53.99 | + 7 3.9 | 0.847 | 1.687 | 24.8 | 21.0 | 134 E | 52 | 57 |
| 12 12 | 1 51.75 | + 5 50.8 | 0.873 | 1.670 | 27.7 | 21.2 | 128 E | 51 | 58 |
| 12 17 | 1 50.76 | + 4 49.8 | 0.903 | 1.653 | 30.2 | 21.3 | 122 E | 50 | 59 |
| 12 22 | 1 50.97 | + 4 0.7 | 0.934 | 1.635 | 32.4 | 21.4 | 117 E | 49 | 60 |
| 12 27 | 1 52.32 | + 3 22.5 | 0.967 | 1.616 | 34.4 | 21.5 | 112 E | 48 | 61 |
| | | **304640** 2006 $WW_1$ | | | | | | | |
| 10 13 | 3 7.06 | +24 38.5 | 1.162 | 2.076 | 14.9 | 21.8 | 148 W | 70 | 39 |
| 10 18 | 3 0.16 | +24 3.8 | 1.122 | 2.066 | 12.1 | 21.7 | 154 W | 69 | 40 |
| 10 23 | 2 52.31 | +23 20.7 | 1.088 | 2.054 | 9.1 | 21.5 | 161 W | 68 | 41 |
| 10 28 | 2 43.70 | +22 29.4 | 1.061 | 2.043 | 6.1 | 21.3 | 167 W | 67 | 42 |
| 11 2 | 2 34.57 | +21 30.4 | 1.041 | 2.030 | 3.4 | 21.1 | 173 W | 67 | 42 |
| 11 7 | 2 25.25 | +20 24.8 | 1.029 | 2.016 | 3.4 | 21.0 | 173 E | 65 | 44 |
| 11 12 | 2 16.05 | +19 14.7 | 1.024 | 2.002 | 6.1 | 21.1 | 168 E | 64 | 45 |
| 11 17 | 2 7.32 | +18 2.4 | 1.026 | 1.987 | 9.5 | 21.3 | 161 E | 63 | 46 |
| 11 22 | 1 59.30 | +16 50.4 | 1.036 | 1.970 | 12.8 | 21.4 | 154 E | 62 | 47 |
| 11 27 | 1 52.22 | +15 40.9 | 1.052 | 1.953 | 16.1 | 21.5 | 147 E | 61 | 48 |
| 12 2 | 1 46.23 | +14 35.9 | 1.073 | 1.935 | 19.1 | 21.7 | 140 E | 60 | 49 |
| | | **285567** 2000 $OM$ | | | | | | | |
| 10 13 | 3 8.57 | − 4 21.4 | 1.691 | 2.595 | 11.6 | 22.4 | 149 W | 41 | 68 |
| 10 18 | 3 2.94 | − 5 10.5 | 1.653 | 2.579 | 10.2 | 22.3 | 153 W | 40 | 69 |
| 10 23 | 2 56.67 | − 5 57.8 | 1.621 | 2.562 | 9.1 | 22.2 | 156 W | 39 | 70 |
| 10 28 | 2 49.87 | − 6 42.1 | 1.597 | 2.545 | 8.5 | 22.1 | 158 W | 38 | 71 |
| 11 2 | 2 42.70 | − 7 22.0 | 1.580 | 2.527 | 8.6 | 22.1 | 158 W | 38 | 71 |
| 11 7 | 2 35.32 | − 7 56.4 | 1.571 | 2.508 | 9.4 | 22.1 | 156 E | 37 | 72 |
| 11 12 | 2 27.93 | − 8 24.1 | 1.570 | 2.488 | 10.7 | 22.1 | 152 E | 37 | 72 |
| 11 17 | 2 20.72 | − 8 44.5 | 1.575 | 2.468 | 12.4 | 22.2 | 148 E | 36 | 73 |
| 11 22 | 2 13.87 | − 8 57.2 | 1.587 | 2.447 | 14.2 | 22.3 | 143 E | 36 | 73 |
| 11 27 | 2 7.53 | − 9 2.2 | 1.605 | 2.425 | 16.0 | 22.3 | 137 E | 36 | 73 |
| 12 2 | 2 1.84 | − 8 59.4 | 1.629 | 2.402 | 17.8 | 22.4 | 132 E | 36 | 73 |
| | | **192642** 1999 $RD_{32}$ | | | | | | | |
| 10 13 | 3 9.07 | +27 7.8 | 2.571 | 3.445 | 9.3 | 21.7 | 146 W | 72 | 37 |
| 10 18 | 3 3.72 | +26 53.7 | 2.562 | 3.474 | 7.7 | 21.6 | 152 W | 72 | 37 |
| 10 23 | 2 58.09 | +26 36.3 | 2.560 | 3.502 | 6.2 | 21.5 | 158 W | 72 | 37 |
| 10 28 | 2 52.30 | +26 15.6 | 2.566 | 3.530 | 4.6 | 21.5 | 163 W | 71 | 38 |
| 11 2 | 2 46.45 | +25 52.0 | 2.580 | 3.557 | 3.3 | 21.4 | 168 W | 71 | 38 |
| 11 7 | 2 40.66 | +25 26.0 | 2.602 | 3.584 | 2.6 | 21.4 | 171 E | 70 | 39 |
| 11 12 | 2 35.06 | +24 58.2 | 2.633 | 3.610 | 2.9 | 21.5 | 169 E | 70 | 39 |
| 11 17 | 2 29.74 | +24 29.1 | 2.671 | 3.636 | 4.0 | 21.6 | 165 E | 69 | 40 |
| 11 22 | 2 24.80 | +23 59.6 | 2.718 | 3.662 | 5.3 | 21.7 | 160 E | 69 | 40 |
| 11 27 | 2 20.29 | +23 30.2 | 2.772 | 3.687 | 6.6 | 21.8 | 154 E | 69 | 40 |
| 12 2 | 2 16.28 | +23 1.6 | 2.834 | 3.712 | 7.9 | 22.0 | 149 E | 68 | 41 |

| 2021 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | | **187799** 1999 $FK_{16}$ | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 3 11.42 | + 7 43.4 | 4.422 | 5.313 | 5.3 | 21.5 | 150 W | 53 | 56 |
| 10 23 | 3 6.86 | + 7 1.8 | 4.355 | 5.303 | 3.6 | 21.4 | 161 W | 52 | 57 |
| 11 2 | 3 1.70 | + 6 20.9 | 4.317 | 5.293 | 2.2 | 21.2 | 168 W | 51 | 58 |
| 11 12 | 2 56.27 | + 5 42.7 | 4.311 | 5.282 | 2.3 | 21.2 | 168 E | 51 | 58 |
| 11 22 | 2 50.96 | + 5 9.5 | 4.336 | 5.272 | 3.8 | 21.3 | 159 E | 50 | 59 |
| 12 2 | 2 46.12 | + 4 42.9 | 4.390 | 5.261 | 5.5 | 21.5 | 149 E | 50 | 59 |
| | | **535149** 2014 $XJ_8$ | | | | | | | |
| 10 13 | 3 11.83 | +19 14.0 | 1.898 | 2.800 | 10.6 | 22.2 | 149 W | 64 | 45 |
| 10 23 | 3 3.06 | +19 1.4 | 1.811 | 2.770 | 6.8 | 21.9 | 161 W | 64 | 45 |
| 11 2 | 2 52.36 | +18 39.1 | 1.751 | 2.739 | 2.5 | 21.6 | 173 W | 64 | 45 |
| 11 12 | 2 40.75 | +18 9.2 | 1.721 | 2.707 | 2.4 | 21.5 | 173 E | 63 | 46 |
| 11 22 | 2 29.47 | +17 35.9 | 1.720 | 2.673 | 6.9 | 21.7 | 161 E | 63 | 46 |
| 12 2 | 2 19.69 | +17 4.3 | 1.748 | 2.639 | 11.3 | 21.9 | 148 E | 62 | 47 |
| | | **1221** Amor | | | | | | | |
| 10 13 | 3 14.53 | + 4 22.6 | 1.726 | 2.635 | 11.1 | 21.5 | 149 W | 49 | 60 |
| 10 18 | 3 10.19 | + 3 36.7 | 1.689 | 2.625 | 9.4 | 21.4 | 155 W | 49 | 60 |
| 10 23 | 3 5.27 | + 2 50.3 | 1.659 | 2.614 | 7.7 | 21.2 | 159 W | 48 | 61 |
| 10 28 | 2 59.89 | + 2 4.6 | 1.635 | 2.603 | 6.3 | 21.1 | 163 W | 47 | 62 |
| 11 2 | 2 54.16 | + 1 20.4 | 1.619 | 2.591 | 5.6 | 21.1 | 165 W | 46 | 63 |
| 11 7 | 2 48.23 | + 0 39.0 | 1.610 | 2.579 | 5.9 | 21.1 | 164 W | 46 | 63 |
| 11 12 | 2 42.27 | + 0 1.5 | 1.609 | 2.566 | 7.1 | 21.1 | 161 E | 45 | 64 |
| 11 17 | 2 36.44 | − 0 31.4 | 1.615 | 2.553 | 8.8 | 21.2 | 157 E | 44 | 65 |
| 11 22 | 2 30.89 | − 0 58.9 | 1.628 | 2.540 | 10.7 | 21.3 | 151 E | 44 | 65 |
| 11 27 | 2 25.76 | − 1 20.5 | 1.647 | 2.526 | 12.6 | 21.3 | 146 E | 44 | 65 |
| 12 2 | 2 21.17 | − 1 35.9 | 1.672 | 2.511 | 14.5 | 21.4 | 140 E | 43 | 66 |
| 12 7 | 2 17.21 | − 1 45.1 | 1.703 | 2.496 | 16.3 | 21.5 | 135 E | 43 | 66 |
| | | **136795** 1997 $BQ$ | | | | | | | |
| 10 13 | 3 22.11 | +15 3.7 | 1.527 | 2.428 | 12.8 | 21.6 | 147 W | 60 | 49 |
| 10 23 | 3 10.61 | +14 47.0 | 1.442 | 2.401 | 8.1 | 21.3 | 160 W | 60 | 49 |
| 11 2 | 2 56.34 | +14 22.6 | 1.383 | 2.371 | 2.8 | 20.9 | 173 W | 59 | 50 |
| 11 12 | 2 40.64 | +13 53.4 | 1.355 | 2.340 | 3.2 | 20.8 | 172 E | 59 | 50 |
| 11 22 | 2 25.28 | +13 24.7 | 1.357 | 2.306 | 8.9 | 21.1 | 159 E | 58 | 51 |
| 12 2 | 2 11.92 | +13 2.6 | 1.387 | 2.270 | 14.3 | 21.3 | 145 E | 58 | 51 |
| 12 12 | 2 1.79 | +12 52.6 | 1.440 | 2.231 | 18.8 | 21.5 | 133 E | 58 | 51 |
| | | **368866** 2006 $QL_{25}$ | | | | | | | |
| 10 13 | 3 22.17 | +33 32.0 | 2.018 | 2.858 | 12.9 | 21.7 | 140 W | 79 | 30 |
| 10 18 | 3 17.53 | +33 39.7 | 1.991 | 2.869 | 11.3 | 21.6 | 146 W | 79 | 30 |
| 10 23 | 3 12.34 | +33 42.5 | 1.970 | 2.879 | 9.7 | 21.5 | 151 W | 79 | 30 |
| 10 28 | 3 6.71 | +33 40.2 | 1.956 | 2.889 | 8.2 | 21.4 | 156 W | 79 | 30 |
| 11 2 | 3 0.77 | +33 32.5 | 1.948 | 2.899 | 6.8 | 21.4 | 160 W | 79 | 30 |
| 11 7 | 2 54.68 | +33 19.7 | 1.947 | 2.909 | 5.8 | 21.3 | 163 W | 78 | 31 |
| 11 12 | 2 48.63 | +33 2.0 | 1.954 | 2.918 | 5.4 | 21.3 | 164 E | 78 | 31 |
| 11 17 | 2 42.77 | +32 40.1 | 1.968 | 2.927 | 5.7 | 21.4 | 163 E | 78 | 31 |
| 11 22 | 2 37.25 | +32 14.9 | 1.990 | 2.936 | 6.7 | 21.4 | 160 E | 77 | 32 |
| 11 27 | 2 32.21 | +31 47.1 | 2.018 | 2.945 | 8.0 | 21.5 | 156 E | 77 | 32 |
| 12 2 | 2 27.73 | +31 17.8 | 2.054 | 2.953 | 9.4 | 21.6 | 151 E | 76 | 33 |
| 12 7 | 2 23.92 | +30 47.9 | 2.095 | 2.962 | 10.8 | 21.7 | 146 E | 76 | 33 |
| | | **516868** 2011 $GC_{60}$ | | | | | | | |
| 10 13 | 3 22.48 | +58 1.3 | 1.648 | 2.353 | 20.6 | 23.0 | 124 W | 77 | 6 |
| 10 18 | 3 9.84 | +59 23.4 | 1.629 | 2.364 | 19.7 | 22.9 | 127 W | 76 | 5 |
| 10 23 | 2 55.16 | +60 31.6 | 1.617 | 2.375 | 18.9 | 22.9 | 129 W | 74 | 3 |
| 10 28 | 2 38.78 | +61 23.2 | 1.609 | 2.385 | 18.2 | 22.9 | 131 W | 74 | 3 |
| 11 2 | 2 21.29 | +61 56.1 | 1.608 | 2.395 | 17.7 | 22.9 | 133 E | 73 | 2 |
| 11 7 | 2 3.45 | +62 9.5 | 1.613 | 2.404 | 17.4 | 22.9 | 133 E | 73 | 2 |
| 11 12 | 1 46.11 | +62 3.9 | 1.624 | 2.413 | 17.4 | 22.9 | 133 E | 73 | 2 |
| 11 17 | 1 30.03 | +61 41.4 | 1.641 | 2.421 | 17.5 | 22.9 | 132 E | 73 | 2 |
| | | **334703** 2003 $EN_{43}$ | | | | | | | |
| 10 13 | 3 23.95 | − 0 23.9 | 3.297 | 4.164 | 7.7 | 21.7 | 146 W | 45 | 64 |
| 10 23 | 3 17.77 | − 1 29.2 | 3.267 | 4.188 | 5.8 | 21.6 | 155 W | 44 | 65 |
| 11 2 | 3 10.77 | − 2 28.2 | 3.266 | 4.212 | 4.6 | 21.6 | 160 W | 43 | 66 |
| 11 12 | 3 3.45 | − 3 17.6 | 3.296 | 4.235 | 4.8 | 21.6 | 159 E | 42 | 67 |
| 11 22 | 2 56.36 | − 3 54.5 | 3.356 | 4.258 | 6.1 | 21.8 | 153 E | 41 | 68 |
| 12 2 | 2 50.00 | − 4 17.6 | 3.444 | 4.279 | 7.8 | 21.9 | 144 E | 41 | 68 |
| | | **434620** 2005 $VD$ | | | | | | | |
| 10 13 | 3 27.13 | +26 2.7 | 4.627 | 5.457 | 6.3 | 21.6 | 143 W | 71 | 38 |
| 10 23 | 3 14.79 | +25 23.2 | 4.523 | 5.443 | 4.4 | 21.4 | 155 W | 70 | 39 |
| 11 2 | 3 1.55 | +24 32.9 | 4.457 | 5.430 | 2.3 | 21.3 | 167 W | 70 | 39 |
| 11 12 | 2 47.99 | +23 33.3 | 4.433 | 5.416 | 1.4 | 21.2 | 172 E | 69 | 40 |
| 11 22 | 2 34.78 | +22 27.0 | 4.452 | 5.402 | 3.2 | 21.3 | 162 E | 67 | 42 |
| 12 2 | 2 22.51 | +21 17.6 | 4.513 | 5.389 | 5.3 | 21.5 | 150 E | 66 | 43 |

**231792** 2000 $DH_8$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 3 28.34 | −32 32.4 | 1.505 | 2.264 | 20.2 | 22.2 | 128 W | 12 | 83 |
| 10 18 | 3 24.41 | −34 13.3 | 1.492 | 2.253 | 20.2 | 22.1 | 129 W | 11 | 82 |
| 10 23 | 3 19.68 | −35 45.2 | 1.485 | 2.242 | 20.4 | 22.1 | 128 W | 9 | 80 |
| 10 28 | 3 14.24 | −37 6.2 | 1.482 | 2.231 | 20.7 | 22.1 | 128 W | 8 | 79 |
| 11 2 | 3 8.24 | −38 14.4 | 1.483 | 2.220 | 21.1 | 22.1 | 126 W | 7 | 78 |
| 11 7 | 3 1.86 | −39 8.7 | 1.489 | 2.208 | 21.7 | 22.1 | 125 W | 6 | 77 |
| 11 12 | 2 55.34 | −39 48.1 | 1.498 | 2.195 | 22.4 | 22.2 | 123 E | 5 | 76 |
| 11 17 | 2 48.89 | −40 12.4 | 1.511 | 2.183 | 23.1 | 22.2 | 120 E | 5 | 76 |
| 11 22 | 2 42.73 | −40 21.9 | 1.527 | 2.169 | 23.8 | 22.2 | 118 E | 5 | 76 |
| 11 27 | 2 37.07 | −40 17.3 | 1.546 | 2.156 | 24.5 | 22.3 | 115 E | 5 | 76 |
| 12 2 | 2 32.05 | −39 59.4 | 1.567 | 2.142 | 25.3 | 22.3 | 112 E | 5 | 76 |
| 12 7 | 2 27.83 | −39 29.3 | 1.590 | 2.128 | 25.9 | 22.3 | 109 E | 6 | 77 |

**358046** 2006 $GR_{35}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 3 30.09 | +32 39.6 | 1.945 | 2.780 | 13.5 | 21.5 | 139 W | 78 | 31 |
| 10 18 | 3 24.95 | +33 7.0 | 1.917 | 2.790 | 11.9 | 21.5 | 145 W | 78 | 31 |
| 10 23 | 3 19.15 | +33 29.8 | 1.895 | 2.800 | 10.3 | 21.4 | 150 W | 78 | 31 |
| 10 28 | 3 12.78 | +33 47.6 | 1.879 | 2.809 | 8.7 | 21.3 | 155 W | 79 | 30 |
| 11 2 | 3 6.01 | +34 0.0 | 1.870 | 2.819 | 7.3 | 21.2 | 159 W | 79 | 30 |
| 11 7 | 2 59.01 | +34 6.6 | 1.869 | 2.828 | 6.2 | 21.2 | 162 W | 79 | 30 |
| 11 12 | 2 51.96 | +34 7.7 | 1.874 | 2.836 | 5.8 | 21.2 | 163 E | 79 | 30 |
| 11 17 | 2 45.06 | +34 3.5 | 1.888 | 2.845 | 6.2 | 21.2 | 162 E | 79 | 30 |
| 11 22 | 2 38.50 | +33 54.9 | 1.909 | 2.853 | 7.1 | 21.3 | 159 E | 79 | 30 |
| 11 27 | 2 32.42 | +33 42.5 | 1.937 | 2.861 | 8.4 | 21.4 | 155 E | 79 | 30 |
| 12 2 | 2 26.95 | +33 27.2 | 1.971 | 2.869 | 9.9 | 21.5 | 150 E | 78 | 31 |
| 12 7 | 2 22.21 | +33 10.2 | 2.013 | 2.876 | 11.3 | 21.6 | 145 E | 78 | 31 |

**360557** 2003 $SW_{386}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 3 35.61 | +11 32.6 | 1.695 | 2.573 | 13.0 | 22.0 | 144 W | 57 | 52 |
| 10 23 | 3 27.51 | +10 41.0 | 1.660 | 2.601 | 9.0 | 21.8 | 156 W | 56 | 53 |
| 11 2 | 3 17.64 | + 9 48.6 | 1.651 | 2.628 | 4.9 | 21.6 | 167 W | 55 | 54 |
| 11 12 | 3 7.06 | + 9 0.5 | 1.671 | 2.654 | 3.2 | 21.6 | 171 E | 54 | 55 |
| 11 22 | 2 56.98 | + 8 21.9 | 1.720 | 2.679 | 6.3 | 21.8 | 163 E | 53 | 56 |
| 12 2 | 2 48.41 | + 7 56.5 | 1.796 | 2.703 | 10.1 | 22.1 | 151 E | 53 | 56 |

**14402** 1991 $DB$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 3 41.03 | + 3 7.2 | 1.504 | 2.376 | 14.7 | 22.3 | 143 W | 48 | 61 |
| 10 18 | 3 36.90 | + 2 18.5 | 1.467 | 2.370 | 12.9 | 22.2 | 148 W | 47 | 62 |
| 10 23 | 3 32.00 | + 1 29.6 | 1.435 | 2.364 | 11.1 | 22.0 | 153 W | 46 | 63 |
| 10 28 | 3 26.44 | + 0 41.5 | 1.410 | 2.357 | 9.4 | 21.9 | 157 W | 46 | 63 |
| 11 2 | 3 20.33 | − 0 4.4 | 1.392 | 2.350 | 8.1 | 21.8 | 160 W | 45 | 64 |
| 11 7 | 3 13.83 | − 0 46.9 | 1.380 | 2.343 | 7.6 | 21.8 | 162 W | 44 | 65 |
| 11 12 | 3 7.14 | − 1 24.8 | 1.376 | 2.334 | 7.9 | 21.8 | 161 E | 44 | 65 |
| 11 17 | 3 0.45 | − 1 56.9 | 1.379 | 2.326 | 9.2 | 21.8 | 158 E | 43 | 66 |
| 11 22 | 2 53.96 | − 2 22.5 | 1.389 | 2.316 | 10.9 | 21.9 | 154 E | 43 | 66 |
| 11 27 | 2 47.83 | − 2 41.1 | 1.405 | 2.306 | 12.8 | 22.0 | 149 E | 42 | 67 |
| 12 2 | 2 42.24 | − 2 52.3 | 1.428 | 2.296 | 14.8 | 22.1 | 143 E | 42 | 67 |
| 12 7 | 2 37.31 | − 2 56.2 | 1.456 | 2.285 | 16.8 | 22.2 | 138 E | 42 | 67 |

**303450** 2005 $BY_2$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 3 56.78 | +10 38.2 | 0.782 | 1.671 | 22.9 | 22.2 | 139 W | 56 | 53 |
| 10 23 | 3 44.99 | +10 3.8 | 0.714 | 1.658 | 16.5 | 21.8 | 152 W | 55 | 54 |
| 11 2 | 3 27.27 | + 9 25.7 | 0.664 | 1.642 | 9.2 | 21.3 | 165 W | 54 | 55 |
| 11 12 | 3 5.36 | + 8 50.6 | 0.637 | 1.622 | 5.4 | 21.0 | 171 E | 54 | 55 |
| 11 22 | 2 42.65 | + 8 28.3 | 0.635 | 1.599 | 12.1 | 21.3 | 160 E | 53 | 56 |
| 12 2 | 2 22.80 | + 8 27.2 | 0.655 | 1.573 | 20.5 | 21.6 | 146 E | 53 | 56 |

**153219** 2000 $YM_{29}$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 4 6.54 | −55 49.5 | 1.191 | 1.764 | 32.7 | 21.4 | 107 W | — | 60 |
| 10 18 | 4 4.84 | −57 10.2 | 1.169 | 1.735 | 33.5 | 21.3 | 106 W | — | 59 |
| 10 23 | 4 1.55 | −58 20.4 | 1.147 | 1.706 | 34.2 | 21.3 | 105 W | — | 58 |
| 10 28 | 3 56.65 | −59 18.2 | 1.126 | 1.678 | 35.0 | 21.2 | 104 W | — | 57 |
| 11 2 | 3 50.20 | −60 1.5 | 1.105 | 1.649 | 35.8 | 21.2 | 104 W | — | 56 |
| 11 7 | 3 42.40 | −60 27.9 | 1.084 | 1.620 | 36.7 | 21.1 | 103 W | — | 56 |
| 11 12 | 3 33.58 | −60 35.4 | 1.063 | 1.592 | 37.5 | 21.1 | 102 W | — | 55 |
| 11 17 | 3 24.17 | −60 22.4 | 1.041 | 1.563 | 38.4 | 21.0 | 101 E | — | 56 |
| 11 22 | 3 14.64 | −59 47.7 | 1.019 | 1.535 | 39.3 | 20.9 | 100 E | — | 56 |
| 11 27 | 3 5.47 | −58 50.2 | 0.996 | 1.507 | 40.3 | 20.9 | 99 E | — | 57 |
| 12 2 | 2 57.10 | −57 29.3 | 0.973 | 1.480 | 41.3 | 20.8 | 98 E | — | 59 |
| 12 7 | 2 49.88 | −55 44.7 | 0.949 | 1.453 | 42.3 | 20.7 | 97 E | — | 60 |
| 12 12 | 2 44.06 | −53 36.3 | 0.925 | 1.427 | 43.3 | 20.7 | 97 E | — | 62 |
| 12 17 | 2 39.75 | −51 4.4 | 0.901 | 1.401 | 44.3 | 20.6 | 96 E | — | 65 |
| 12 22 | 2 36.96 | −48 9.1 | 0.878 | 1.376 | 45.4 | 20.5 | 95 E | — | 68 |
| 12 27 | 2 35.64 | −44 50.5 | 0.855 | 1.352 | 46.5 | 20.5 | 94 E | — | 71 |
| 1 1 | 2 35.73 | −41 8.5 | 0.832 | 1.329 | 47.6 | 20.4 | 94 E | 4 | 75 |
| 1 6 | 2 37.12 | −37 3.6 | 0.812 | 1.308 | 48.7 | 20.4 | 93 E | 8 | 79 |
| 1 11 | 2 39.73 | −32 36.5 | 0.793 | 1.287 | 49.8 | 20.3 | 92 E | 12 | 83* |
| 1 16 | 2 43.43 | −27 48.6 | 0.778 | 1.268 | 50.8 | 20.3 | 91 E | 17 | 85* |
| 1 21 | 2 48.13 | −22 41.9 | 0.765 | 1.251 | 51.9 | 20.2 | 90 E | 22 | 82* |

**509073** 2005 $UM_5$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 4 8.12 | +14 14.7 | 0.545 | 1.442 | 28.5 | 21.3 | 136 W | 59 | 50 |
| 10 18 | 3 53.85 | +13 36.4 | 0.545 | 1.476 | 22.9 | 21.2 | 145 W | 59 | 50 |
| 10 23 | 3 38.54 | +12 54.3 | 0.550 | 1.507 | 17.2 | 21.1 | 153 W | 58 | 51 |
| 10 28 | 3 22.79 | +12 10.0 | 0.562 | 1.538 | 11.5 | 21.0 | 162 W | 57 | 52 |
| 11 2 | 3 7.22 | +11 25.4 | 0.580 | 1.567 | 6.3 | 20.9 | 170 W | 56 | 53 |
| 11 7 | 2 52.47 | +10 43.1 | 0.605 | 1.594 | 3.5 | 20.9 | 174 W | 56 | 53 |
| 11 12 | 2 39.08 | +10 5.3 | 0.637 | 1.620 | 6.3 | 21.2 | 170 E | 55 | 54 |
| 11 17 | 2 27.38 | + 9 33.7 | 0.675 | 1.645 | 10.4 | 21.5 | 162 E | 55 | 54 |
| 11 22 | 2 17.53 | + 9 9.4 | 0.720 | 1.669 | 14.3 | 21.8 | 155 E | 54 | 55 |
| 11 27 | 2 9.57 | + 8 52.6 | 0.770 | 1.691 | 17.8 | 22.1 | 148 E | 54 | 55 |
| 12 2 | 2 3.42 | + 8 43.3 | 0.824 | 1.712 | 20.8 | 22.4 | 142 E | 54 | 55 |

**242708** 2005 $UK_1$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 4 14.70 | +20 17.3 | 1.203 | 2.028 | 20.7 | 21.1 | 134 W | 65 | 44 |
| 10 18 | 4 14.23 | +20 11.8 | 1.119 | 1.983 | 19.2 | 20.8 | 139 W | 65 | 44 |
| 10 23 | 4 12.72 | +20 3.2 | 1.039 | 1.937 | 17.3 | 20.5 | 145 W | 65 | 44 |
| 10 28 | 4 10.02 | +19 51.0 | 0.963 | 1.891 | 15.1 | 20.2 | 150 W | 65 | 44 |
| 11 2 | 4 6.03 | +19 34.7 | 0.892 | 1.843 | 12.6 | 19.9 | 156 W | 65 | 44 |
| 11 7 | 4 0.63 | +19 13.7 | 0.825 | 1.796 | 9.6 | 19.6 | 162 W | 64 | 45 |
| 11 12 | 3 53.79 | +18 47.3 | 0.765 | 1.747 | 6.1 | 19.2 | 169 W | 64 | 45 |
| 11 22 | 3 35.82 | +17 36.5 | 0.662 | 1.648 | 2.4 | 18.6 | 176 E | 63 | 46 |
| 12 2 | 3 13.07 | +16 0.5 | 0.582 | 1.547 | 12.3 | 18.6 | 160 E | 61 | 48 |
| 12 12 | 2 48.13 | +14 6.0 | 0.526 | 1.444 | 23.7 | 18.6 | 144 E | 59 | 50 |
| 12 17 | 2 35.92 | +13 6.6 | 0.505 | 1.392 | 29.6 | 18.6 | 136 E | 58 | 51 |
| 12 22 | 2 24.40 | +12 8.7 | 0.488 | 1.339 | 35.5 | 18.6 | 128 E | 57 | 52 |
| 12 27 | 2 13.86 | +11 14.3 | 0.473 | 1.286 | 41.5 | 18.6 | 120 E | 56 | 53 |
| 1 1 | 2 4.47 | +10 24.9 | 0.460 | 1.234 | 47.5 | 18.7 | 112 E | 55 | 54 |
| 1 6 | 1 56.28 | + 9 41.2 | 0.447 | 1.181 | 53.5 | 18.7 | 105 E | 55 | 54* |
| 1 11 | 1 49.21 | + 9 3.1 | 0.433 | 1.130 | 59.5 | 18.7 | 98 E | 54 | 53* |
| 1 16 | 1 43.00 | + 8 29.5 | 0.418 | 1.079 | 65.7 | 18.7 | 91 E | 53 | 50* |
| 1 21 | 1 37.29 | + 7 58.4 | 0.401 | 1.029 | 72.3 | 18.7 | 85 E | 53 | 48* |

**482111** 2010 $NT_1$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 4 21.98 | +79 15.1 | 1.224 | 1.766 | 33.1 | 22.5 | 105 W | 56 | — |
| 10 15 | 4 16.59 | +79 32.5 | 1.213 | 1.768 | 32.9 | 22.4 | 106 W | 55 | — |
| 10 17 | 4 10.09 | +79 47.9 | 1.201 | 1.769 | 32.6 | 22.4 | 107 W | 55 | — |
| 10 19 | 4 2.46 | +80 1.0 | 1.190 | 1.770 | 32.4 | 22.4 | 108 W | 55 | — |
| 10 21 | 3 53.71 | +80 11.4 | 1.179 | 1.771 | 32.2 | 22.4 | 109 W | 55 | — |
| 10 23 | 3 43.92 | +80 18.9 | 1.168 | 1.772 | 31.9 | 22.3 | 110 W | 55 | — |
| 10 24 | 3 38.67 | +80 21.4 | 1.162 | 1.772 | 31.8 | 22.3 | 110 W | 55 | — |
| 10 25 | 3 33.20 | +80 23.0 | 1.157 | 1.773 | 31.6 | 22.3 | 111 W | 55 | — |
| 10 26 | 3 27.54 | +80 23.7 | 1.151 | 1.773 | 31.5 | 22.3 | 111 W | 55 | — |
| 10 27 | 3 21.72 | +80 23.4 | 1.146 | 1.773 | 31.4 | 22.3 | 112 W | 55 | — |
| 10 28 | 3 15.76 | +80 22.0 | 1.141 | 1.774 | 31.2 | 22.3 | 112 W | 55 | — |
| 10 29 | 3 9.70 | +80 19.6 | 1.135 | 1.774 | 31.1 | 22.3 | 113 W | 55 | — |
| 10 30 | 3 3.57 | +80 16.1 | 1.130 | 1.774 | 31.0 | 22.2 | 113 W | 55 | — |
| 10 31 | 2 57.42 | +80 11.5 | 1.125 | 1.775 | 30.8 | 22.2 | 114 W | 55 | — |
| 11 1 | 2 51.26 | +80 5.7 | 1.120 | 1.775 | 30.7 | 22.2 | 114 W | 55 | — |
| 11 2 | 2 45.15 | +79 58.7 | 1.115 | 1.775 | 30.5 | 22.2 | 115 W | 55 | — |
| 11 3 | 2 39.11 | +79 50.6 | 1.110 | 1.775 | 30.4 | 22.2 | 115 W | 55 | — |
| 11 4 | 2 33.18 | +79 41.3 | 1.105 | 1.775 | 30.3 | 22.2 | 116 E | 55 | — |
| 11 5 | 2 27.38 | +79 30.8 | 1.100 | 1.776 | 30.1 | 22.2 | 116 E | 55 | — |
| 11 6 | 2 21.75 | +79 19.1 | 1.096 | 1.776 | 30.0 | 22.1 | 117 E | 56 | — |
| 11 7 | 2 16.31 | +79 6.3 | 1.091 | 1.776 | 29.8 | 22.1 | 117 E | 56 | — |
| 11 8 | 2 11.08 | +78 52.3 | 1.087 | 1.776 | 29.7 | 22.1 | 117 E | 56 | — |
| 11 9 | 2 6.08 | +78 37.1 | 1.082 | 1.776 | 29.5 | 22.1 | 118 E | 56 | — |
| 11 10 | 2 1.32 | +78 20.9 | 1.078 | 1.776 | 29.4 | 22.1 | 118 E | 57 | — |
| 11 11 | 1 56.80 | +78 3.6 | 1.074 | 1.776 | 29.3 | 22.1 | 119 E | 57 | — |
| 11 12 | 1 52.54 | +77 45.2 | 1.070 | 1.776 | 29.1 | 22.1 | 119 E | 57 | — |
| 11 14 | 1 44.79 | +77 5.4 | 1.062 | 1.776 | 28.9 | 22.0 | 120 E | 58 | — |
| 11 16 | 1 38.06 | +76 21.7 | 1.055 | 1.776 | 28.6 | 22.0 | 121 E | 59 | — |
| 11 18 | 1 32.32 | +75 34.5 | 1.048 | 1.776 | 28.4 | 22.0 | 121 E | 59 | — |
| 11 20 | 1 27.51 | +74 43.8 | 1.041 | 1.776 | 28.1 | 22.0 | 122 E | 60 | — |
| 11 22 | 1 23.57 | +73 50.0 | 1.036 | 1.776 | 27.9 | 22.0 | 123 E | 61 | — |
| 11 24 | 1 20.42 | +72 53.4 | 1.031 | 1.775 | 27.7 | 21.9 | 123 E | 62 | — |
| 11 26 | 1 18.01 | +71 54.1 | 1.026 | 1.775 | 27.6 | 21.9 | 124 E | 63 | — |
| 11 28 | 1 16.24 | +70 52.3 | 1.022 | 1.774 | 27.4 | 21.9 | 124 E | 64 | — |
| 11 30 | 1 15.08 | +69 48.4 | 1.019 | 1.774 | 27.3 | 21.9 | 124 E | 65 | — |
| 12 2 | 1 14.44 | +68 42.4 | 1.017 | 1.773 | 27.3 | 21.9 | 125 E | 66 | — |

**322652** 1999 $JO_8$

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| 10 13 | 4 54.34 | + 8 21.0 | 2.044 | 2.741 | 17.3 | 21.5 | 125 W | 53 | 56 |
| 10 23 | 4 47.27 | + 8 23.8 | 1.995 | 2.799 | 14.2 | 21.3 | 136 W | 53 | 56 |
| 11 2 | 4 37.62 | + 8 30.5 | 1.967 | 2.856 | 10.7 | 21.2 | 148 W | 54 | 55 |
| 11 12 | 4 26.04 | + 8 42.7 | 1.965 | 2.911 | 7.0 | 21.1 | 159 W | 54 | 55 |
| 11 22 | 4 13.55 | + 9 1.5 | 1.993 | 2.965 | 4.1 | 21.0 | 168 W | 54 | 55 |
| 12 2 | 4 1.23 | + 9 27.3 | 2.053 | 3.017 | 4.7 | 21.2 | 165 E | 54 | 55 |
| 12 12 | 3 50.15 | +10 0.1 | 2.144 | 3.068 | 7.6 | 21.4 | 156 E | 55 | 54 |
| 12 22 | 3 41.10 | +10 39.4 | 2.264 | 3.118 | 10.6 | 21.7 | 145 E | 56 | 53 |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | **244689** 2003 $PW_5$ | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 10 13 | 4 54.97 | +22 50.1 | 1.801 | 2.506 | 19.2 | 21.4 | 125 W | 68 | 41 |
| 10 23 | 4 51.27 | +22 34.0 | 1.728 | 2.534 | 16.0 | 21.3 | 135 W | 68 | 41 |
| 11 2 | 4 44.43 | +22 11.1 | 1.672 | 2.562 | 12.2 | 21.1 | 147 W | 67 | 42 |
| 11 12 | 4 34.94 | +21 41.2 | 1.639 | 2.588 | 7.8 | 20.9 | 159 W | 67 | 42 |
| 11 22 | 4 23.80 | +21 5.5 | 1.632 | 2.614 | 3.0 | 20.7 | 172 W | 66 | 43 |
| 12 2 | 4 12.27 | +20 26.4 | 1.655 | 2.639 | 1.8 | 20.6 | 175 E | 65 | 44 |
| 12 12 | 4 1.67 | +19 48.1 | 1.708 | 2.663 | 6.4 | 21.0 | 162 E | 65 | 44 |
| 12 22 | 3 53.09 | +19 14.8 | 1.788 | 2.686 | 10.5 | 21.3 | 150 E | 64 | 45 |
| | **331990** 2005 $FD$ | | | | | | | | |
| 10 13 | 5 4.81 | +34 45.4 | 0.781 | 1.547 | 33.8 | 21.4 | 120 W | 80 | 29 |
| 10 18 | 5 0.07 | +35 52.6 | 0.766 | 1.573 | 30.9 | 21.3 | 126 W | 81 | 28 |
| 10 23 | 4 53.40 | +36 55.6 | 0.754 | 1.598 | 27.8 | 21.2 | 132 W | 82 | 27 |
| 10 28 | 4 44.81 | +37 51.9 | 0.745 | 1.623 | 24.5 | 21.2 | 137 W | 83 | 26 |
| 11 2 | 4 34.44 | +38 38.7 | 0.740 | 1.647 | 21.1 | 21.1 | 143 W | 84 | 25 |
| 11 7 | 4 22.60 | +39 13.2 | 0.740 | 1.670 | 17.8 | 21.0 | 149 W | 84 | 25 |
| 11 12 | 4 9.76 | +39 33.1 | 0.745 | 1.692 | 14.7 | 20.9 | 154 W | 85 | 24 |
| 11 17 | 3 56.53 | +39 37.7 | 0.756 | 1.714 | 12.2 | 20.9 | 158 W | 85 | 24 |
| 11 22 | 3 43.53 | +39 27.1 | 0.772 | 1.735 | 10.9 | 20.9 | 161 E | 84 | 25 |
| 11 27 | 3 31.32 | +39 3.3 | 0.795 | 1.756 | 11.0 | 21.0 | 160 E | 84 | 25 |
| 12 2 | 3 20.39 | +38 29.0 | 0.824 | 1.775 | 12.3 | 21.2 | 157 E | 83 | 26 |
| 12 7 | 3 11.04 | +37 47.5 | 0.859 | 1.794 | 14.3 | 21.3 | 153 E | 83 | 26 |
| 12 12 | 3 3.47 | +37 2.3 | 0.899 | 1.812 | 16.6 | 21.5 | 148 E | 82 | 27 |
| 12 17 | 2 57.70 | +36 16.4 | 0.944 | 1.830 | 18.8 | 21.7 | 143 E | 81 | 28 |
| | **518424** 2000 $WK_{107}$ | | | | | | | | |
| 10 13 | 5 8.13 | +24 22.0 | 1.184 | 1.905 | 26.6 | 21.2 | 121 W | 69 | 40 |
| 10 18 | 5 12.25 | +23 13.4 | 1.107 | 1.871 | 25.7 | 21.0 | 125 W | 68 | 41 |
| 10 23 | 5 15.68 | +21 52.9 | 1.033 | 1.836 | 24.6 | 20.7 | 130 W | 67 | 42 |
| 10 28 | 5 18.33 | +20 19.1 | 0.962 | 1.802 | 23.3 | 20.5 | 134 W | 65 | 44 |
| 11 2 | 5 20.10 | +18 30.2 | 0.895 | 1.767 | 21.7 | 20.3 | 139 W | 64 | 45 |
| 11 7 | 5 20.93 | +16 24.9 | 0.833 | 1.733 | 19.9 | 20.0 | 143 W | 61 | 48 |
| 11 12 | 5 20.75 | +14 1.8 | 0.776 | 1.699 | 18.0 | 19.7 | 148 W | 59 | 50 |
| 11 22 | 5 17.31 | + 8 19.8 | 0.679 | 1.631 | 14.4 | 19.2 | 156 W | 53 | 56 |
| 12 2 | 5 9.90 | + 1 30.1 | 0.607 | 1.564 | 13.9 | 18.9 | 158 W | 47 | 62 |
| 12 12 | 4 59.55 | − 5 56.4 | 0.562 | 1.500 | 18.7 | 18.8 | 151 E | 39 | 70 |
| 12 17 | 4 53.89 | − 9 37.7 | 0.549 | 1.469 | 22.4 | 18.8 | 145 E | 35 | 74 |
| 12 22 | 4 48.30 | −13 8.7 | 0.541 | 1.439 | 26.4 | 18.9 | 139 E | 32 | 77 |
| 12 27 | 4 43.08 | −16 23.9 | 0.539 | 1.409 | 30.4 | 18.9 | 133 E | 29 | 80 |
| 1 1 | 4 38.54 | −19 19.3 | 0.540 | 1.381 | 34.3 | 19.0 | 128 E | 26 | 83 |
| 1 6 | 4 34.97 | −21 53.1 | 0.544 | 1.354 | 37.9 | 19.1 | 122 E | 23 | 86 |
| 1 11 | 4 32.57 | −24 5.2 | 0.550 | 1.329 | 41.2 | 19.1 | 117 E | 21 | 88 |
| 1 16 | 4 31.51 | −25 57.0 | 0.557 | 1.305 | 44.0 | 19.2 | 113 E | 19 | 90 |
| 1 21 | 4 31.85 | −27 30.4 | 0.565 | 1.282 | 46.6 | 19.3 | 109 E | 17 | 88 |
| | **498143** 2007 $TR_{65}$ | | | | | | | | |
| 10 13 | 5 12.60 | +59 36.0 | 1.179 | 1.802 | 31.0 | 21.9 | 111 W | 75 | 4 |
| 10 15 | 5 10.29 | +60 43.7 | 1.164 | 1.802 | 30.7 | 21.8 | 113 W | 74 | 3 |
| 10 17 | 5 7.40 | +61 51.9 | 1.150 | 1.802 | 30.3 | 21.8 | 114 W | 73 | 2 |
| 10 19 | 5 3.85 | +63 0.1 | 1.136 | 1.802 | 30.0 | 21.8 | 115 W | 72 | 1 |
| 10 21 | 4 59.57 | +64 8.2 | 1.123 | 1.802 | 29.7 | 21.7 | 116 W | 71 | — |
| 10 23 | 4 54.46 | +65 15.7 | 1.111 | 1.802 | 29.3 | 21.7 | 118 W | 70 | — |
| 10 25 | 4 48.41 | +66 22.3 | 1.099 | 1.801 | 29.0 | 21.7 | 119 W | 69 | — |
| 10 27 | 4 41.30 | +67 27.3 | 1.089 | 1.800 | 28.7 | 21.6 | 120 W | 68 | — |
| 10 29 | 4 33.03 | +68 30.3 | 1.079 | 1.799 | 28.4 | 21.6 | 120 W | 66 | — |
| 10 31 | 4 23.46 | +69 30.5 | 1.070 | 1.798 | 28.2 | 21.6 | 121 W | 65 | — |
| 11 2 | 4 12.49 | +70 27.2 | 1.062 | 1.796 | 28.0 | 21.5 | 122 W | 65 | — |
| 11 4 | 4 0.02 | +71 19.4 | 1.054 | 1.795 | 27.8 | 21.5 | 123 W | 64 | — |
| 11 6 | 3 46.02 | +72 6.3 | 1.048 | 1.793 | 27.6 | 21.5 | 123 W | 63 | — |
| 11 8 | 3 30.52 | +72 46.8 | 1.043 | 1.791 | 27.5 | 21.5 | 123 W | 62 | — |
| 11 10 | 3 13.62 | +73 20.2 | 1.038 | 1.789 | 27.4 | 21.5 | 124 W | 62 | — |
| 11 12 | 2 55.55 | +73 45.4 | 1.034 | 1.786 | 27.4 | 21.5 | 124 E | 61 | — |
| 11 13 | 2 46.18 | +73 54.9 | 1.033 | 1.785 | 27.4 | 21.5 | 124 E | 61 | — |
| 11 14 | 2 36.64 | +74 2.1 | 1.032 | 1.783 | 27.4 | 21.4 | 124 E | 61 | — |
| 11 15 | 2 27.00 | +74 7.0 | 1.031 | 1.782 | 27.5 | 21.4 | 124 E | 61 | — |
| 11 16 | 2 17.32 | +74 9.7 | 1.030 | 1.780 | 27.5 | 21.4 | 124 E | 61 | — |
| 11 17 | 2 7.65 | +74 10.1 | 1.029 | 1.779 | 27.6 | 21.4 | 124 E | 61 | — |
| 11 18 | 1 58.05 | +74 8.3 | 1.029 | 1.777 | 27.6 | 21.4 | 123 E | 61 | — |
| 11 19 | 1 48.58 | +74 4.3 | 1.029 | 1.776 | 27.7 | 21.4 | 123 E | 61 | — |
| 11 20 | 1 39.29 | +73 58.2 | 1.029 | 1.774 | 27.8 | 21.4 | 123 E | 61 | — |
| 11 21 | 1 30.23 | +73 50.1 | 1.029 | 1.772 | 27.9 | 21.4 | 123 E | 61 | — |
| 11 22 | 1 21.45 | +73 40.0 | 1.030 | 1.771 | 28.0 | 21.4 | 123 E | 61 | — |
| 11 23 | 1 12.98 | +73 28.1 | 1.031 | 1.769 | 28.1 | 21.4 | 122 E | 62 | — |
| 11 24 | 1 4.85 | +73 14.5 | 1.031 | 1.767 | 28.2 | 21.5 | 122 E | 62 | — |
| 11 25 | 0 57.08 | +72 59.3 | 1.033 | 1.765 | 28.4 | 21.5 | 122 E | 62 | — |
| 11 26 | 0 49.68 | +72 42.7 | 1.034 | 1.763 | 28.5 | 21.5 | 121 E | 62 | — |
| 11 27 | 0 42.66 | +72 24.7 | 1.035 | 1.761 | 28.7 | 21.5 | 121 E | 63 | — |
| 11 28 | 0 36.03 | +72 5.6 | 1.037 | 1.759 | 28.8 | 21.5 | 121 E | 63 | — |
| 11 29 | 0 29.79 | +71 45.4 | 1.039 | 1.757 | 29.0 | 21.5 | 120 E | 63 | — |
| 11 30 | 0 23.93 | +71 24.2 | 1.041 | 1.754 | 29.2 | 21.5 | 120 E | 64 | — |

| 21/22 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ | $\psi$ | 45° | –26° |
|---|---|---|---|---|---|---|---|---|---|
| | **498143** 2007 $TR_{65}$ *(continuation)* | | | | | | | | |
| | h m | ° ′ | | | ° | m | ° | ° | ° |
| 12 1 | 0 18.45 | +71 2.3 | 1.043 | 1.752 | 29.4 | 21.5 | 119 E | 64 | — |
| 12 2 | 0 13.32 | +70 39.6 | 1.046 | 1.750 | 29.6 | 21.5 | 119 E | 64 | — |
| 12 4 | 0 4.12 | +69 52.5 | 1.051 | 1.745 | 30.0 | 21.5 | 118 E | 65 | — |
| 12 6 | 23 56.21 | +69 3.9 | 1.057 | 1.740 | 30.4 | 21.5 | 117 E | 66 | — |
| 12 8 | 23 49.47 | +68 14.2 | 1.063 | 1.735 | 30.8 | 21.6 | 116 E | 67 | — |
| 12 10 | 23 43.78 | +67 24.2 | 1.070 | 1.729 | 31.2 | 21.6 | 115 E | 68 | — |
| | **412983** 1996 $FO_3$ | | | | | | | | |
| 10 13 | 5 26.58 | +35 57.6 | 0.578 | 1.353 | 41.6 | 21.3 | 116 W | 81 | 28 |
| 10 18 | 5 40.97 | +37 10.6 | 0.535 | 1.331 | 41.6 | 21.1 | 118 W | 82 | 27 |
| 10 23 | 5 56.09 | +38 24.1 | 0.495 | 1.310 | 41.6 | 20.9 | 119 W | 83 | 26 |
| 10 28 | 6 12.08 | +39 37.7 | 0.457 | 1.288 | 41.6 | 20.7 | 121 W | 85 | 24 |
| 11 2 | 6 29.07 | +40 50.5 | 0.421 | 1.266 | 41.7 | 20.5 | 122 W | 86 | 23 |
| 11 7 | 6 47.26 | +42 1.4 | 0.387 | 1.245 | 41.8 | 20.2 | 123 W | 87 | 22 |
| 11 12 | 7 6.86 | +43 8.6 | 0.355 | 1.224 | 42.1 | 20.0 | 124 W | 88 | 21 |
| 11 17 | 7 28.15 | +44 9.4 | 0.325 | 1.203 | 42.6 | 19.8 | 125 W | 89 | 20 |
| 11 22 | 7 51.38 | +45 0.4 | 0.298 | 1.183 | 43.3 | 19.6 | 125 W | 90 | 19 |
| 11 27 | 8 16.72 | +45 37.0 | 0.272 | 1.163 | 44.3 | 19.4 | 125 W | 89 | 18 |
| 12 2 | 8 44.24 | +45 53.1 | 0.249 | 1.145 | 45.5 | 19.2 | 124 W | 89 | 18 |
| 12 4 | 8 55.83 | +45 52.3 | 0.241 | 1.137 | 46.1 | 19.1 | 124 W | 89 | 18 |
| 12 6 | 9 7.74 | +45 46.5 | 0.232 | 1.130 | 46.7 | 19.1 | 123 W | 89 | 18 |
| 12 8 | 9 19.94 | +45 35.3 | 0.224 | 1.123 | 47.4 | 19.0 | 123 W | 89 | 18 |
| 12 10 | 9 32.40 | +45 18.0 | 0.217 | 1.116 | 48.1 | 18.9 | 122 W | 90 | 19 |
| 12 12 | 9 45.08 | +44 54.2 | 0.210 | 1.110 | 48.9 | 18.9 | 122 W | 90 | 19 |
| 12 14 | 9 57.94 | +44 23.3 | 0.203 | 1.103 | 49.7 | 18.8 | 121 W | 89 | 20 |
| 12 16 | 10 10.93 | +43 44.8 | 0.196 | 1.097 | 50.6 | 18.7 | 121 W | 89 | 20 |
| 12 18 | 10 23.99 | +42 58.4 | 0.190 | 1.091 | 51.6 | 18.7 | 120 W | 88 | 21* |
| 12 20 | 10 37.06 | +42 3.7 | 0.184 | 1.085 | 52.6 | 18.6 | 119 W | 87 | 22* |
| 12 22 | 10 50.07 | +41 0.5 | 0.179 | 1.079 | 53.6 | 18.6 | 118 W | 86 | 23* |
| 12 24 | 11 2.97 | +39 48.5 | 0.174 | 1.074 | 54.7 | 18.5 | 117 W | 85 | 24* |
| 12 26 | 11 15.69 | +38 27.8 | 0.169 | 1.069 | 55.8 | 18.5 | 116 W | 83 | 25* |
| 12 28 | 11 28.18 | +36 58.4 | 0.165 | 1.064 | 56.9 | 18.5 | 115 W | 82 | 27* |
| 12 30 | 11 40.38 | +35 20.5 | 0.161 | 1.059 | 58.0 | 18.4 | 114 W | 80 | 28* |
| 1 1 | 11 52.25 | +33 34.4 | 0.157 | 1.055 | 59.2 | 18.4 | 113 W | 79 | 30* |
| 1 6 | 12 20.29 | +28 36.6 | 0.150 | 1.045 | 62.0 | 18.4 | 110 W | 74 | 35* |
| 1 11 | 12 45.80 | +23 0.2 | 0.145 | 1.037 | 64.7 | 18.4 | 108 W | 68 | 40* |
| 1 16 | 13 8.77 | +16 58.4 | 0.142 | 1.030 | 67.0 | 18.4 | 105 W | 62 | 46* |
| 1 21 | 13 29.32 | +10 46.2 | 0.142 | 1.026 | 68.9 | 18.4 | 103 W | 56 | 53* |
| | **497887** 2006 $UM_{266}$ | | | | | | | | |
| 10 13 | 5 33.01 | +26 12.3 | 1.473 | 2.106 | 25.3 | 21.4 | 116 W | 71 | 38 |
| 10 23 | 5 33.33 | +27 5.2 | 1.408 | 2.144 | 22.2 | 21.3 | 125 W | 72 | 37 |
| 11 2 | 5 29.51 | +27 57.3 | 1.355 | 2.181 | 18.4 | 21.1 | 136 W | 73 | 36 |
| 11 12 | 5 21.66 | +28 45.1 | 1.318 | 2.218 | 13.9 | 20.9 | 148 W | 74 | 35 |
| 11 22 | 5 10.49 | +29 23.6 | 1.304 | 2.255 | 8.8 | 20.7 | 159 W | 74 | 35 |
| 12 2 | 4 57.36 | +29 48.5 | 1.314 | 2.292 | 4.2 | 20.6 | 170 W | 75 | 34 |
| 12 12 | 4 44.06 | +29 58.0 | 1.352 | 2.328 | 4.2 | 20.7 | 170 E | 75 | 34 |
| 12 22 | 4 32.42 | +29 54.7 | 1.418 | 2.364 | 8.4 | 21.0 | 159 E | 75 | 34 |
| 1 1 | 4 23.70 | +29 43.9 | 1.509 | 2.400 | 12.6 | 21.3 | 148 E | 75 | 34 |
| | **459046** 2012 $AS_{10}$ | | | | | | | | |
| 10 13 | 5 33.24 | +26 28.6 | 1.761 | 2.369 | 22.3 | 21.4 | 116 W | 71 | 38 |
| 10 23 | 5 30.21 | +27 15.7 | 1.647 | 2.373 | 19.8 | 21.2 | 126 W | 72 | 37 |
| 11 2 | 5 22.99 | +28 3.5 | 1.547 | 2.374 | 16.4 | 20.9 | 137 W | 73 | 36 |
| 11 12 | 5 11.42 | +28 47.6 | 1.465 | 2.373 | 12.2 | 20.6 | 150 W | 74 | 35 |
| 11 22 | 4 56.03 | +29 22.0 | 1.409 | 2.369 | 7.3 | 20.3 | 162 W | 74 | 35 |
| 11 27 | 4 47.29 | +29 33.6 | 1.392 | 2.367 | 4.9 | 20.2 | 168 W | 75 | 34 |
| 12 2 | 4 38.14 | +29 40.6 | 1.383 | 2.363 | 3.3 | 20.1 | 172 W | 75 | 34 |
| 12 7 | 4 28.87 | +29 42.8 | 1.381 | 2.359 | 3.8 | 20.1 | 171 E | 75 | 34 |
| 12 12 | 4 19.77 | +29 40.6 | 1.387 | 2.354 | 5.9 | 20.2 | 166 E | 75 | 34 |
| 12 17 | 4 11.11 | +29 34.4 | 1.401 | 2.349 | 8.4 | 20.4 | 160 E | 75 | 34 |
| 12 22 | 4 3.14 | +29 25.2 | 1.422 | 2.343 | 10.9 | 20.5 | 153 E | 74 | 35 |
| 12 27 | 3 56.03 | +29 13.9 | 1.450 | 2.336 | 13.3 | 20.6 | 147 E | 74 | 35 |
| 1 1 | 3 49.92 | +29 1.7 | 1.484 | 2.329 | 15.6 | 20.7 | 141 E | 74 | 35 |
| 1 6 | 3 44.90 | +28 49.4 | 1.523 | 2.321 | 17.6 | 20.9 | 134 E | 74 | 35 |
| 1 11 | 3 41.01 | +28 38.2 | 1.567 | 2.312 | 19.4 | 21.0 | 129 E | 74 | 35 |
| 1 16 | 3 38.24 | +28 28.5 | 1.614 | 2.303 | 21.0 | 21.1 | 123 E | 73 | 36 |
| 1 21 | 3 36.55 | +28 20.9 | 1.665 | 2.293 | 22.4 | 21.2 | 118 E | 73 | 36 |
| | **363080** 2000 $QY_{129}$ | | | | | | | | |
| 10 13 | 5 37.03 | + 1 59.0 | 2.555 | 3.097 | 17.1 | 21.5 | 114 W | 47 | 62 |
| 10 23 | 5 35.30 | + 1 0.1 | 2.481 | 3.137 | 15.4 | 21.4 | 123 W | 46 | 63 |
| 11 2 | 5 31.26 | + 0 5.5 | 2.422 | 3.178 | 13.3 | 21.3 | 133 W | 45 | 64 |
| 11 12 | 5 25.10 | − 0 40.8 | 2.381 | 3.217 | 11.0 | 21.2 | 142 W | 44 | 65 |
| 11 22 | 5 17.28 | − 1 14.9 | 2.364 | 3.256 | 8.8 | 21.1 | 150 W | 44 | 65 |
| 12 2 | 5 8.43 | − 1 33.6 | 2.374 | 3.293 | 7.3 | 21.1 | 155 W | 43 | 66 |
| 12 12 | 4 59.34 | − 1 35.0 | 2.412 | 3.331 | 7.2 | 21.2 | 155 E | 43 | 66 |
| 12 22 | 4 50.83 | − 1 19.1 | 2.479 | 3.367 | 8.4 | 21.3 | 150 E | 44 | 65 |
| 1 1 | 4 43.57 | − 0 47.5 | 2.572 | 3.402 | 10.2 | 21.5 | 142 E | 44 | 65 |