**272506** 2005 $UX_{179}$ 3 13.0 126.°74 0.°4/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.25 | + 1 20.1 | 1.915 | 2.770 | 12.3 | 21.4 |
| 2 21 | 11 48.90 | + 2 6.4 | 1.849 | 2.776 | 8.7 | 21.1 |
| 3 2 | 11 41.77 | + 3 4.0 | 1.808 | 2.782 | 4.6 | 20.9 |
| 3 12 | 11 33.64 | + 4 7.1 | 1.795 | 2.788 | 0.5 | 20.6 |
| 3 22 | 11 25.43 | + 5 9.1 | 1.811 | 2.794 | 4.1 | 20.9 |
| 4 1 | 11 18.07 | + 6 3.6 | 1.855 | 2.800 | 8.2 | 21.1 |
| 4 11 | 11 12.34 | + 6 45.5 | 1.924 | 2.805 | 11.8 | 21.4 |
| 4 21 | 11 8.71 | + 7 12.5 | 2.015 | 2.811 | 14.8 | 21.6 |

**51970** 2001 $RK_3$ 3 13.0 32.°58 4.°7/18.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 50.90 | −14 0.1 | 1.998 | 2.794 | 14.2 | 18.6 |
| 2 21 | 11 46.57 | −13 44.2 | 1.922 | 2.799 | 11.3 | 18.5 |
| 3 2 | 11 40.54 | −13 5.6 | 1.868 | 2.804 | 8.1 | 18.3 |
| 3 12 | 11 33.53 | −12 6.3 | 1.839 | 2.809 | 5.4 | 18.1 |
| 3 22 | 11 26.39 | −10 51.1 | 1.838 | 2.815 | 5.0 | 18.1 |
| 4 1 | 11 20.02 | − 9 27.2 | 1.865 | 2.821 | 7.3 | 18.2 |
| 4 11 | 11 15.16 | − 8 2.8 | 1.918 | 2.827 | 10.4 | 18.4 |
| 4 21 | 11 12.29 | − 6 44.8 | 1.995 | 2.834 | 13.3 | 18.6 |

**498265** 2007 $UG_{135}$ 3 13.0 112.°72 0.°6/13.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.80 | − 1 20.4 | 2.271 | 3.113 | 11.1 | 21.9 |
| 2 21 | 11 47.65 | − 0 48.8 | 2.202 | 3.121 | 8.0 | 21.7 |
| 3 2 | 11 41.03 | − 0 5.9 | 2.159 | 3.129 | 4.5 | 21.5 |
| 3 12 | 11 33.58 | + 0 44.0 | 2.144 | 3.137 | 0.9 | 21.3 |
| 3 22 | 11 26.06 | + 1 36.0 | 2.159 | 3.144 | 3.2 | 21.5 |
| 4 1 | 11 19.24 | + 2 24.8 | 2.202 | 3.152 | 6.8 | 21.7 |
| 4 11 | 11 13.79 | + 3 5.9 | 2.272 | 3.159 | 10.0 | 21.9 |
| 4 21 | 11 10.12 | + 3 36.3 | 2.365 | 3.166 | 12.7 | 22.1 |

**459004** 2011 $WL_{151}$ 3 13.0 101.°39 6.°9/18.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.74 | −15 20.6 | 1.664 | 2.449 | 17.0 | 21.3 |
| 2 21 | 11 53.75 | −15 57.5 | 1.601 | 2.468 | 13.8 | 21.1 |
| 3 2 | 11 44.48 | −16 9.0 | 1.560 | 2.486 | 10.3 | 20.9 |
| 3 12 | 11 33.90 | −15 54.8 | 1.544 | 2.504 | 7.5 | 20.8 |
| 3 22 | 11 23.23 | −15 18.3 | 1.554 | 2.521 | 7.0 | 20.8 |
| 4 1 | 11 13.70 | −14 26.0 | 1.592 | 2.538 | 9.2 | 20.9 |
| 4 11 | 11 6.32 | −13 27.0 | 1.654 | 2.554 | 12.3 | 21.2 |
| 4 21 | 11 1.62 | −12 29.5 | 1.738 | 2.570 | 15.3 | 21.4 |

**68473** 2001 $SC_{289}$ 3 13.0 150.°22 2.°3/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.54 | + 9 28.2 | 2.733 | 3.595 | 8.8 | 20.2 |
| 2 21 | 11 47.27 | +10 21.7 | 2.671 | 3.602 | 6.1 | 20.0 |
| 3 2 | 11 40.75 | +11 17.7 | 2.636 | 3.610 | 3.5 | 19.8 |
| 3 12 | 11 33.55 | +12 11.3 | 2.632 | 3.617 | 2.4 | 19.8 |
| 3 22 | 11 26.31 | +12 58.1 | 2.658 | 3.623 | 4.5 | 19.9 |
| 4 1 | 11 19.67 | +13 34.2 | 2.712 | 3.629 | 7.3 | 20.1 |
| 4 11 | 11 14.20 | +13 57.5 | 2.793 | 3.635 | 9.8 | 20.3 |
| 4 21 | 11 10.26 | +14 7.2 | 2.896 | 3.640 | 11.9 | 20.4 |

**498700** 2008 $TR$ 3 13.0 161.°46 3.°4/ 8.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.72 | +13 6.2 | 2.585 | 3.449 | 9.2 | 22.4 |
| 2 21 | 11 48.86 | +14 5.2 | 2.525 | 3.455 | 6.5 | 22.2 |
| 3 2 | 11 41.63 | +15 4.4 | 2.493 | 3.461 | 4.1 | 22.1 |
| 3 12 | 11 33.63 | +15 58.0 | 2.491 | 3.467 | 3.6 | 22.0 |
| 3 22 | 11 25.60 | +16 41.4 | 2.518 | 3.472 | 5.6 | 22.2 |
| 4 1 | 11 18.25 | +17 10.9 | 2.575 | 3.476 | 8.3 | 22.3 |
| 4 11 | 11 12.19 | +17 25.0 | 2.656 | 3.480 | 10.8 | 22.5 |
| 4 21 | 11 7.82 | +17 23.7 | 2.759 | 3.483 | 12.9 | 22.7 |

**8229** Kozelský 3 13.0 147.°53 1.°1/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.07 | − 4 31.4 | 2.789 | 3.613 | 9.8 | 18.8 |
| 2 21 | 11 46.24 | − 3 44.3 | 2.714 | 3.622 | 7.2 | 18.6 |
| 3 2 | 11 40.21 | − 2 45.3 | 2.666 | 3.630 | 4.2 | 18.4 |
| 3 12 | 11 33.51 | − 1 38.2 | 2.648 | 3.638 | 1.4 | 18.2 |
| 3 22 | 11 26.75 | − 0 27.5 | 2.660 | 3.646 | 2.6 | 18.3 |
| 4 1 | 11 20.55 | + 0 41.6 | 2.703 | 3.653 | 5.6 | 18.5 |
| 4 11 | 11 15.44 | + 1 44.7 | 2.773 | 3.659 | 8.4 | 18.7 |
| 4 21 | 11 11.78 | + 2 38.2 | 2.868 | 3.666 | 10.8 | 18.9 |

**2642** Vésale 3 13.0 162.°40 3.°3/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.49 | −11 7.2 | 2.038 | 2.842 | 13.7 | 17.2 |
| 2 21 | 11 49.06 | −10 23.5 | 1.959 | 2.848 | 10.5 | 17.0 |
| 3 2 | 11 41.87 | − 9 17.9 | 1.904 | 2.853 | 7.0 | 16.8 |
| 3 12 | 11 33.67 | − 7 54.0 | 1.877 | 2.858 | 3.9 | 16.6 |
| 3 22 | 11 25.35 | − 6 18.2 | 1.879 | 2.862 | 4.0 | 16.6 |
| 4 1 | 11 17.81 | − 4 38.5 | 1.910 | 2.865 | 7.2 | 16.8 |
| 4 11 | 11 11.85 | − 3 3.5 | 1.969 | 2.868 | 10.7 | 17.0 |
| 4 21 | 11 7.93 | − 1 39.4 | 2.051 | 2.870 | 13.8 | 17.2 |

**91856** 1999 $UB_{13}$ 3 13.0 162.°32 3.°9/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.44 | −13 27.2 | 2.318 | 3.106 | 12.7 | 19.9 |
| 2 21 | 11 47.47 | −12 55.3 | 2.235 | 3.110 | 10.0 | 19.8 |
| 3 2 | 11 40.97 | −12 3.1 | 2.176 | 3.114 | 7.1 | 19.6 |
| 3 12 | 11 33.59 | −10 52.8 | 2.145 | 3.117 | 4.5 | 19.4 |
| 3 22 | 11 26.09 | − 9 29.3 | 2.142 | 3.120 | 4.2 | 19.4 |
| 4 1 | 11 19.26 | − 7 59.3 | 2.169 | 3.123 | 6.5 | 19.6 |
| 4 11 | 11 13.79 | − 6 30.0 | 2.224 | 3.125 | 9.5 | 19.7 |
| 4 21 | 11 10.11 | − 5 7.7 | 2.303 | 3.127 | 12.3 | 19.9 |

**107020** 2000 $YJ_{116}$ 3 13.0 114.°06 0.°5/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.24 | − 0 33.8 | 1.757 | 2.604 | 13.6 | 19.8 |
| 2 21 | 11 51.75 | − 0 3.0 | 1.699 | 2.621 | 9.7 | 19.6 |
| 3 2 | 11 43.31 | + 0 40.8 | 1.666 | 2.638 | 5.3 | 19.4 |
| 3 12 | 11 33.81 | + 1 32.1 | 1.661 | 2.654 | 0.8 | 19.1 |
| 3 22 | 11 24.33 | + 2 24.6 | 1.684 | 2.670 | 4.0 | 19.3 |
| 4 1 | 11 15.90 | + 3 11.7 | 1.736 | 2.685 | 8.3 | 19.6 |
| 4 11 | 11 9.38 | + 3 48.3 | 1.813 | 2.700 | 12.1 | 19.9 |
| 4 21 | 11 5.21 | + 4 11.5 | 1.911 | 2.714 | 15.3 | 20.1 |

**433046** 2012 $SP_{43}$ 3 13.0 160.°35 0.°8/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.04 | − 1 7.4 | 2.470 | 3.304 | 10.6 | 21.6 |
| 2 21 | 11 49.17 | − 0 56.3 | 2.394 | 3.309 | 7.6 | 21.4 |
| 3 2 | 11 41.84 | − 0 35.7 | 2.344 | 3.312 | 4.3 | 21.2 |
| 3 12 | 11 33.68 | − 0 8.6 | 2.324 | 3.316 | 1.1 | 21.0 |
| 3 22 | 11 25.42 | + 0 21.2 | 2.333 | 3.319 | 3.0 | 21.2 |
| 4 1 | 11 17.82 | + 0 49.7 | 2.373 | 3.322 | 6.4 | 21.4 |
| 4 11 | 11 11.53 | + 1 13.2 | 2.439 | 3.324 | 9.5 | 21.6 |
| 4 21 | 11 6.96 | + 1 28.9 | 2.529 | 3.326 | 12.1 | 21.8 |

**223689** 2004 $QA_{26}$ 3 13.0 79.°88 1.°4/11.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.15 | + 4 11.7 | 1.800 | 2.663 | 12.6 | 20.9 |
| 2 21 | 11 49.53 | + 4 59.8 | 1.747 | 2.679 | 8.7 | 20.7 |
| 3 2 | 11 42.09 | + 5 56.3 | 1.720 | 2.696 | 4.6 | 20.5 |
| 3 12 | 11 33.70 | + 6 54.6 | 1.720 | 2.712 | 1.4 | 20.3 |
| 3 22 | 11 25.34 | + 7 47.9 | 1.749 | 2.729 | 4.8 | 20.6 |
| 4 1 | 11 17.97 | + 8 30.5 | 1.805 | 2.745 | 8.7 | 20.9 |
| 4 11 | 11 12.37 | + 8 58.4 | 1.886 | 2.761 | 12.3 | 21.1 |
| 4 21 | 11 8.95 | + 9 10.3 | 1.988 | 2.777 | 15.2 | 21.4 |

**377961** 2006 $JE_{64}$ 3 13.0 224.°76 0.°0/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.90 | + 1 18.2 | 2.060 | 2.910 | 11.7 | 21.6 |
| 2 21 | 11 49.35 | + 1 42.2 | 1.982 | 2.907 | 8.4 | 21.4 |
| 3 2 | 11 42.05 | + 2 16.3 | 1.930 | 2.903 | 4.5 | 21.1 |
| 3 12 | 11 33.71 | + 2 56.0 | 1.906 | 2.900 | 0.4 | 20.8 |
| 3 22 | 11 25.20 | + 3 36.3 | 1.911 | 2.896 | 3.8 | 21.1 |
| 4 1 | 11 17.45 | + 4 11.9 | 1.945 | 2.892 | 7.7 | 21.3 |
| 4 11 | 11 11.22 | + 4 38.4 | 2.004 | 2.888 | 11.3 | 21.5 |
| 4 21 | 11 7.02 | + 4 53.2 | 2.085 | 2.883 | 14.3 | 21.7 |

**126595** 2002 $CM_{129}$ 3 13.0 139.°46 4.°3/17.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.39 | −11 9.6 | 2.171 | 2.966 | 13.2 | 20.3 |
| 2 21 | 11 51.04 | −11 26.6 | 2.095 | 2.974 | 10.4 | 20.1 |
| 3 2 | 11 42.93 | −11 26.2 | 2.043 | 2.982 | 7.3 | 20.0 |
| 3 12 | 11 33.79 | −11 9.3 | 2.018 | 2.990 | 4.8 | 19.8 |
| 3 22 | 11 24.52 | −10 39.0 | 2.022 | 2.998 | 4.7 | 19.8 |
| 4 1 | 11 16.02 | −10 0.0 | 2.055 | 3.005 | 7.2 | 20.0 |
| 4 11 | 11 9.08 | − 9 18.2 | 2.114 | 3.011 | 10.2 | 20.2 |
| 4 21 | 11 4.19 | − 8 39.1 | 2.197 | 3.017 | 13.0 | 20.4 |

**37841** 1998 $DQ_4$ 3 13.0 305.°21 1.°0/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.73 | + 1 7.1 | 1.416 | 2.286 | 14.9 | 18.4 |
| 2 21 | 11 48.46 | + 2 17.6 | 1.342 | 2.277 | 10.5 | 18.1 |
| 3 2 | 11 41.82 | + 3 46.1 | 1.291 | 2.268 | 5.6 | 17.8 |
| 3 12 | 11 33.70 | + 5 24.3 | 1.266 | 2.259 | 1.0 | 17.4 |
| 3 22 | 11 25.28 | + 7 1.2 | 1.268 | 2.251 | 5.6 | 17.7 |
| 4 1 | 11 17.84 | + 8 26.0 | 1.295 | 2.242 | 10.7 | 18.0 |
| 4 11 | 11 12.46 | + 9 30.7 | 1.345 | 2.234 | 15.3 | 18.2 |
| 4 21 | 11 9.78 | +10 11.5 | 1.414 | 2.227 | 19.2 | 18.5 |

**114045** 2002 $VC_{15}$ 3 13.0 212.°63 3.°7/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.00 | + 9 35.9 | 1.736 | 2.604 | 12.7 | 20.5 |
| 2 21 | 11 52.59 | +10 46.4 | 1.663 | 2.597 | 9.0 | 20.3 |
| 3 2 | 11 43.93 | +12 2.9 | 1.615 | 2.588 | 5.2 | 20.0 |
| 3 12 | 11 33.90 | +13 16.4 | 1.595 | 2.579 | 3.8 | 19.9 |
| 3 22 | 11 23.61 | +14 18.6 | 1.604 | 2.570 | 7.0 | 20.1 |
| 4 1 | 11 14.27 | +15 2.7 | 1.640 | 2.559 | 11.0 | 20.3 |
| 4 11 | 11 6.86 | +15 25.3 | 1.700 | 2.547 | 14.8 | 20.5 |
| 4 21 | 11 1.99 | +15 26.5 | 1.778 | 2.535 | 17.9 | 20.7 |

**284740** 2008 $UH_{198}$ 3 13.0 200.°71 4.°3/ 9.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.98 | +11 47.9 | 1.660 | 2.530 | 13.0 | 21.1 |
| 2 21 | 11 53.29 | +12 47.9 | 1.593 | 2.528 | 9.3 | 20.8 |
| 3 2 | 11 44.29 | +13 50.4 | 1.552 | 2.524 | 5.6 | 20.6 |
| 3 12 | 11 33.93 | +14 46.7 | 1.538 | 2.520 | 4.5 | 20.5 |
| 3 22 | 11 23.40 | +15 29.0 | 1.553 | 2.515 | 7.5 | 20.7 |
| 4 1 | 11 13.93 | +15 51.8 | 1.593 | 2.510 | 11.4 | 20.9 |
| 4 11 | 11 6.55 | +15 53.0 | 1.657 | 2.504 | 15.1 | 21.1 |
| 4 21 | 11 1.82 | +15 33.7 | 1.740 | 2.497 | 18.2 | 21.3 |

**233686** 2008 $RN_{129}$ 3 13.0 221.°38 0.°2/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.86 | + 1 24.5 | 2.130 | 2.981 | 11.4 | 21.1 |
| 2 21 | 11 48.57 | + 1 55.3 | 2.053 | 2.978 | 8.1 | 20.9 |
| 3 2 | 11 41.61 | + 2 36.0 | 2.001 | 2.975 | 4.4 | 20.7 |
| 3 12 | 11 33.68 | + 3 22.1 | 1.978 | 2.972 | 0.4 | 20.3 |
| 3 22 | 11 25.60 | + 4 8.3 | 1.985 | 2.969 | 3.7 | 20.6 |
| 4 1 | 11 18.23 | + 4 49.4 | 2.019 | 2.965 | 7.5 | 20.8 |
| 4 11 | 11 12.31 | + 5 20.9 | 2.080 | 2.962 | 11.0 | 21.0 |
| 4 21 | 11 8.33 | + 5 40.2 | 2.163 | 2.958 | 13.9 | 21.2 |

**522512** 2016 $EZ_{233}$ 3 13.0 295°.67 3°.5/16.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 51.14 | −10 25.4 | 1.689 | 2.512 | 15.2 | 21.8 |
| 2 21 | 11 47.16 | − 9 42.4 | 1.594 | 2.494 | 11.8 | 21.5 |
| 3 2 | 11 41.09 | − 8 32.5 | 1.521 | 2.476 | 7.8 | 21.2 |
| 3 12 | 11 33.65 | − 6 58.9 | 1.474 | 2.458 | 4.2 | 21.0 |
| 3 22 | 11 25.82 | − 5 8.7 | 1.454 | 2.439 | 4.4 | 20.9 |
| 4 1 | 11 18.72 | − 3 12.1 | 1.461 | 2.421 | 8.4 | 21.1 |
| 4 11 | 11 13.35 | − 1 20.3 | 1.494 | 2.403 | 12.8 | 21.3 |
| 4 21 | 11 10.35 | + 0 17.8 | 1.549 | 2.386 | 16.6 | 21.5 |

**400310** 2007 $TX_{185}$ 3 13.0 86°.74 1°.9/11.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.73 | + 4 45.6 | 1.539 | 2.406 | 14.1 | 20.8 |
| 2 21 | 11 51.53 | + 5 42.8 | 1.493 | 2.427 | 9.8 | 20.6 |
| 3 2 | 11 43.22 | + 6 48.9 | 1.471 | 2.448 | 5.1 | 20.4 |
| 3 12 | 11 33.82 | + 7 55.6 | 1.477 | 2.468 | 1.9 | 20.2 |
| 3 22 | 11 24.53 | + 8 54.9 | 1.510 | 2.489 | 5.6 | 20.5 |
| 4 1 | 11 16.49 | + 9 39.9 | 1.570 | 2.509 | 9.9 | 20.8 |
| 4 11 | 11 10.54 | +10 7.0 | 1.654 | 2.529 | 13.7 | 21.1 |
| 4 21 | 11 7.13 | +10 15.5 | 1.758 | 2.548 | 16.9 | 21.4 |

**28303** 1999 $CY_{72}$ 3 13.0 308°.77 7°.0/18.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.34 | −15 58.4 | 1.728 | 2.515 | 16.4 | 17.8 |
| 2 21 | 11 50.12 | −16 30.5 | 1.644 | 2.510 | 13.5 | 17.6 |
| 3 2 | 11 42.67 | −16 37.9 | 1.581 | 2.505 | 10.3 | 17.3 |
| 3 12 | 11 33.79 | −16 19.5 | 1.542 | 2.500 | 7.7 | 17.2 |
| 3 22 | 11 24.57 | −15 37.9 | 1.529 | 2.496 | 7.1 | 17.1 |
| 4 1 | 11 16.18 | −14 39.0 | 1.542 | 2.491 | 9.2 | 17.2 |
| 4 11 | 11 9.66 | −13 31.8 | 1.580 | 2.487 | 12.4 | 17.4 |
| 4 21 | 11 5.64 | −12 24.8 | 1.639 | 2.482 | 15.6 | 17.6 |

**297567** 2001 $RO_{64}$ 3 13.0 200°.87 3°.0/15.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.89 | − 8 9.2 | 1.836 | 2.655 | 14.3 | 21.8 |
| 2 21 | 11 51.01 | − 7 42.7 | 1.751 | 2.651 | 10.9 | 21.6 |
| 3 2 | 11 43.06 | − 6 55.5 | 1.690 | 2.647 | 7.0 | 21.4 |
| 3 12 | 11 33.83 | − 5 50.8 | 1.656 | 2.642 | 3.5 | 21.1 |
| 3 22 | 11 24.33 | − 4 34.5 | 1.651 | 2.636 | 4.2 | 21.2 |
| 4 1 | 11 15.66 | − 3 14.6 | 1.674 | 2.629 | 8.0 | 21.4 |
| 4 11 | 11 8.75 | − 1 59.5 | 1.723 | 2.622 | 12.0 | 21.6 |
| 4 21 | 11 4.18 | − 0 55.3 | 1.795 | 2.613 | 15.5 | 21.8 |

**50569** 2000 $ET_{38}$ 3 13.0 100°.99 1°.3/14.6 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 50.99 | − 4 49.0 | 2.103 | 2.938 | 12.1 | 18.9 |
| 2 21 | 11 46.55 | − 3 56.9 | 2.026 | 2.939 | 8.9 | 18.7 |
| 3 2 | 11 40.53 | − 2 48.4 | 1.974 | 2.941 | 5.2 | 18.5 |
| 3 12 | 11 33.59 | − 1 28.4 | 1.951 | 2.942 | 1.7 | 18.2 |
| 3 22 | 11 26.52 | − 0 3.4 | 1.956 | 2.943 | 3.3 | 18.3 |
| 4 1 | 11 20.14 | + 1 19.5 | 1.991 | 2.944 | 7.1 | 18.6 |
| 4 11 | 11 15.18 | + 2 33.7 | 2.051 | 2.945 | 10.6 | 18.8 |
| 4 21 | 11 12.08 | + 3 34.5 | 2.135 | 2.946 | 13.6 | 19.0 |

**410039** 2006 $YO_{17}$ 3 13.0 108°.39 1°.1/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.35 | − 2 35.4 | 2.060 | 2.893 | 12.4 | 21.5 |
| 2 21 | 11 50.88 | − 2 8.0 | 2.003 | 2.917 | 9.0 | 21.3 |
| 3 2 | 11 42.76 | − 1 27.9 | 1.972 | 2.940 | 5.1 | 21.1 |
| 3 12 | 11 33.79 | − 0 39.4 | 1.970 | 2.962 | 1.4 | 20.9 |
| 3 22 | 11 24.86 | + 0 11.9 | 1.998 | 2.983 | 3.4 | 21.1 |
| 4 1 | 11 16.86 | + 1 0.5 | 2.054 | 3.004 | 7.2 | 21.4 |
| 4 11 | 11 10.50 | + 1 41.4 | 2.138 | 3.025 | 10.5 | 21.6 |
| 4 21 | 11 6.18 | + 2 11.5 | 2.244 | 3.044 | 13.4 | 21.8 |

**245459** 2005 $LQ_{43}$ 3 13.0 200°.94 4°.1/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.25 | −13 2.7 | 2.559 | 3.343 | 11.7 | 20.8 |
| 2 21 | 11 47.28 | −12 59.9 | 2.470 | 3.341 | 9.3 | 20.6 |
| 3 2 | 11 40.88 | −12 40.1 | 2.406 | 3.339 | 6.7 | 20.4 |
| 3 12 | 11 33.63 | −12 4.5 | 2.369 | 3.337 | 4.5 | 20.3 |
| 3 22 | 11 26.22 | −11 16.3 | 2.361 | 3.335 | 4.3 | 20.3 |
| 4 1 | 11 19.38 | −10 20.0 | 2.381 | 3.332 | 6.3 | 20.4 |
| 4 11 | 11 13.74 | − 9 21.3 | 2.429 | 3.329 | 8.9 | 20.5 |
| 4 21 | 11 9.76 | − 8 25.3 | 2.501 | 3.326 | 11.4 | 20.7 |

**503039** 2015 $FR_{149}$ 3 13.0 223°.67 2°.5/ 9.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.17 | + 9 47.5 | 2.542 | 3.405 | 9.3 | 21.9 |
| 2 21 | 11 47.89 | +10 34.2 | 2.467 | 3.399 | 6.5 | 21.7 |
| 3 2 | 11 41.19 | +11 23.8 | 2.418 | 3.392 | 3.7 | 21.5 |
| 3 12 | 11 33.66 | +12 11.1 | 2.400 | 3.385 | 2.6 | 21.4 |
| 3 22 | 11 26.01 | +12 51.5 | 2.411 | 3.377 | 4.9 | 21.6 |
| 4 1 | 11 18.96 | +13 21.0 | 2.451 | 3.370 | 7.8 | 21.7 |
| 4 11 | 11 13.15 | +13 37.1 | 2.516 | 3.362 | 10.6 | 21.9 |
| 4 21 | 11 8.99 | +13 39.1 | 2.603 | 3.354 | 13.0 | 22.1 |

**238455** 2004 $QS_{26}$ 3 13.0 286°.18 0°.9/12.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.10 | + 1 39.6 | 1.373 | 2.243 | 15.3 | 20.8 |
| 2 21 | 11 50.28 | + 2 31.0 | 1.295 | 2.230 | 10.9 | 20.5 |
| 3 2 | 11 42.89 | + 3 39.3 | 1.240 | 2.217 | 5.8 | 20.2 |
| 3 12 | 11 33.84 | + 4 57.0 | 1.211 | 2.204 | 0.9 | 19.8 |
| 3 22 | 11 24.39 | + 6 14.1 | 1.208 | 2.191 | 5.6 | 20.1 |
| 4 1 | 11 15.95 | + 7 20.7 | 1.230 | 2.178 | 11.0 | 20.3 |
| 4 11 | 11 9.70 | + 8 9.1 | 1.274 | 2.166 | 15.8 | 20.6 |
| 4 21 | 11 6.35 | + 8 35.7 | 1.337 | 2.153 | 19.9 | 20.8 |

**83184** 2001 $QA_{293}$ 3 13.0 169°.29 4°.4/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.37 | −12 28.5 | 2.454 | 3.239 | 12.2 | 19.3 |
| 2 21 | 11 49.53 | −12 50.4 | 2.369 | 3.240 | 9.7 | 19.2 |
| 3 2 | 11 42.11 | −12 56.1 | 2.309 | 3.241 | 7.1 | 19.0 |
| 3 12 | 11 33.76 | −12 46.3 | 2.276 | 3.242 | 4.9 | 18.9 |
| 3 22 | 11 25.22 | −12 23.1 | 2.272 | 3.243 | 4.7 | 18.8 |
| 4 1 | 11 17.30 | −11 50.5 | 2.297 | 3.244 | 6.7 | 19.0 |
| 4 11 | 11 10.70 | −11 13.6 | 2.349 | 3.245 | 9.3 | 19.1 |
| 4 21 | 11 5.92 | −10 37.3 | 2.425 | 3.245 | 11.9 | 19.3 |

**424879** 2008 $VB_{73}$ 3 13.0 131°.45 3°.4/ 9.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.02 | +11 10.2 | 2.166 | 3.035 | 10.5 | 21.4 |
| 2 21 | 11 48.60 | +12 10.0 | 2.107 | 3.041 | 7.3 | 21.2 |
| 3 2 | 11 41.59 | +13 11.8 | 2.074 | 3.047 | 4.4 | 21.0 |
| 3 12 | 11 33.70 | +14 8.9 | 2.071 | 3.052 | 3.5 | 20.9 |
| 3 22 | 11 25.76 | +14 55.7 | 2.096 | 3.058 | 5.9 | 21.1 |
| 4 1 | 11 18.62 | +15 27.7 | 2.149 | 3.063 | 9.0 | 21.3 |
| 4 11 | 11 12.95 | +15 42.9 | 2.226 | 3.068 | 11.9 | 21.5 |
| 4 21 | 11 9.20 | +15 41.2 | 2.324 | 3.073 | 14.4 | 21.7 |

**69779** 1998 $QZ_{53}$ 3 13.0 260°.37 1°.9/11.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.19 | + 7 21.3 | 2.292 | 3.150 | 10.4 | 20.2 |
| 2 21 | 11 50.27 | + 7 56.6 | 2.198 | 3.128 | 7.3 | 19.9 |
| 3 2 | 11 42.59 | + 8 37.2 | 2.131 | 3.106 | 4.0 | 19.7 |
| 3 12 | 11 33.81 | + 9 18.1 | 2.093 | 3.083 | 2.0 | 19.5 |
| 3 22 | 11 24.74 | + 9 54.1 | 2.085 | 3.059 | 4.7 | 19.6 |
| 4 1 | 11 16.24 | +10 20.7 | 2.105 | 3.035 | 8.3 | 19.8 |
| 4 11 | 11 9.14 | +10 34.5 | 2.152 | 3.011 | 11.7 | 20.0 |
| 4 21 | 11 3.96 | +10 34.3 | 2.220 | 2.986 | 14.5 | 20.1 |

**466484** 2013 $VY_{3}$ 3 13.0 196°.01 4°.8/ 7.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.57 | +16 28.3 | 2.255 | 3.123 | 10.1 | 21.4 |
| 2 21 | 11 49.72 | +17 35.0 | 2.192 | 3.121 | 7.4 | 21.2 |
| 3 2 | 11 42.21 | +18 39.6 | 2.156 | 3.119 | 5.2 | 21.1 |
| 3 12 | 11 33.77 | +19 35.3 | 2.149 | 3.116 | 5.1 | 21.1 |
| 3 22 | 11 25.23 | +20 16.4 | 2.171 | 3.112 | 7.2 | 21.2 |
| 4 1 | 11 17.45 | +20 39.2 | 2.220 | 3.108 | 10.0 | 21.3 |
| 4 11 | 11 11.18 | +20 42.4 | 2.292 | 3.104 | 12.6 | 21.5 |
| 4 21 | 11 6.86 | +20 27.2 | 2.385 | 3.100 | 14.9 | 21.7 |

**434065** 2001 $WJ_{30}$ 3 13.0 96°.55 4°.9/ 7.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.51 | +17 31.0 | 2.298 | 3.167 | 9.9 | 20.9 |
| 2 21 | 11 48.87 | +18 27.0 | 2.246 | 3.175 | 7.3 | 20.7 |
| 3 2 | 11 41.70 | +19 19.4 | 2.221 | 3.182 | 5.2 | 20.6 |
| 3 12 | 11 33.72 | +20 2.0 | 2.225 | 3.189 | 5.1 | 20.6 |
| 3 22 | 11 25.74 | +20 29.9 | 2.257 | 3.197 | 7.1 | 20.7 |
| 4 1 | 11 18.56 | +20 40.4 | 2.316 | 3.204 | 9.6 | 20.9 |
| 4 11 | 11 12.85 | +20 32.7 | 2.398 | 3.211 | 12.1 | 21.1 |
| 4 21 | 11 9.02 | +20 8.3 | 2.500 | 3.218 | 14.2 | 21.2 |

**387403** 2013 $RQ_{44}$ 3 13.0 156°.90 2°.1/10.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.26 | + 6 57.7 | 2.168 | 3.031 | 10.7 | 21.3 |
| 2 21 | 11 48.78 | + 7 52.9 | 2.103 | 3.035 | 7.5 | 21.1 |
| 3 2 | 11 41.70 | + 8 53.8 | 2.064 | 3.040 | 4.0 | 20.9 |
| 3 12 | 11 33.72 | + 9 54.2 | 2.054 | 3.043 | 2.2 | 20.7 |
| 3 22 | 11 25.67 | +10 48.1 | 2.074 | 3.047 | 4.9 | 20.9 |
| 4 1 | 11 18.37 | +11 30.6 | 2.122 | 3.050 | 8.3 | 21.1 |
| 4 11 | 11 12.55 | +11 58.5 | 2.195 | 3.053 | 11.5 | 21.3 |
| 4 21 | 11 8.63 | +12 10.5 | 2.290 | 3.056 | 14.1 | 21.5 |

**9143** Burkhead 3 13.0 201°.36 0°.9/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.33 | − 1 27.1 | 1.806 | 2.647 | 13.6 | 18.1 |
| 2 21 | 11 52.75 | − 1 4.8 | 1.725 | 2.643 | 9.9 | 17.8 |
| 3 2 | 11 44.02 | − 0 28.2 | 1.669 | 2.639 | 5.6 | 17.6 |
| 3 12 | 11 33.95 | + 0 18.1 | 1.640 | 2.633 | 1.2 | 17.3 |
| 3 22 | 11 23.63 | + 1 8.4 | 1.641 | 2.627 | 4.0 | 17.4 |
| 4 1 | 11 14.18 | + 1 55.9 | 1.670 | 2.620 | 8.5 | 17.7 |
| 4 11 | 11 6.58 | + 2 34.8 | 1.725 | 2.612 | 12.6 | 17.9 |
| 4 21 | 11 1.42 | + 3 1.2 | 1.801 | 2.603 | 16.1 | 18.1 |

**491169** 2011 $TF_{14}$ 3 13.0 154°.79 2°.4/15.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.61 | − 6 47.2 | 1.756 | 2.583 | 14.5 | 22.1 |
| 2 21 | 11 50.77 | − 6 13.0 | 1.684 | 2.590 | 10.8 | 21.9 |
| 3 2 | 11 42.90 | − 5 18.8 | 1.636 | 2.597 | 6.7 | 21.6 |
| 3 12 | 11 33.85 | − 4 8.9 | 1.614 | 2.603 | 2.9 | 21.4 |
| 3 22 | 11 24.66 | − 2 50.2 | 1.622 | 2.608 | 4.0 | 21.5 |
| 4 1 | 11 16.41 | − 1 31.1 | 1.658 | 2.613 | 8.1 | 21.8 |
| 4 11 | 11 10.01 | − 0 19.5 | 1.719 | 2.617 | 12.0 | 22.0 |
| 4 21 | 11 5.97 | + 0 39.1 | 1.802 | 2.620 | 15.4 | 22.2 |

**501442** 2014 $AW_{23}$ 3 13.0 111°.19 0°.1/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.74 | + 1 39.3 | 2.445 | 3.289 | 10.3 | 22.0 |
| 2 21 | 11 48.90 | + 2 5.7 | 2.384 | 3.306 | 7.3 | 21.8 |
| 3 2 | 11 41.68 | + 2 39.8 | 2.350 | 3.323 | 3.9 | 21.6 |
| 3 12 | 11 33.73 | + 3 17.6 | 2.346 | 3.339 | 0.3 | 21.3 |
| 3 22 | 11 25.78 | + 3 55.0 | 2.371 | 3.355 | 3.2 | 21.6 |
| 4 1 | 11 18.55 | + 4 27.6 | 2.427 | 3.371 | 6.6 | 21.9 |
| 4 11 | 11 12.66 | + 4 52.3 | 2.509 | 3.386 | 9.5 | 22.1 |
| 4 21 | 11 8.48 | + 5 7.0 | 2.614 | 3.400 | 12.0 | 22.3 |

**431543** 2007 $TS_{427}$ 3 13.0 40.°90 6.°9/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.47 | +21 11.2 | 1.767 | 2.640 | 12.2 | 20.6 |
| 2 21 | 11 51.17 | +22 2.9 | 1.732 | 2.658 | 9.3 | 20.4 |
| 3 2 | 11 42.96 | +22 45.5 | 1.723 | 2.676 | 7.2 | 20.3 |
| 3 12 | 11 33.84 | +23 11.5 | 1.739 | 2.695 | 7.2 | 20.4 |
| 3 22 | 11 24.90 | +23 16.3 | 1.783 | 2.714 | 9.2 | 20.5 |
| 4 1 | 11 17.19 | +22 58.2 | 1.851 | 2.734 | 11.9 | 20.7 |
| 4 11 | 11 11.46 | +22 18.8 | 1.941 | 2.754 | 14.6 | 21.0 |
| 4 21 | 11 8.08 | +21 21.6 | 2.050 | 2.774 | 16.8 | 21.2 |

**501032** 2013 $RQ_{70}$ 3 13.0 147.°76 0.°8/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.02 | − 1 39.4 | 2.155 | 2.994 | 11.7 | 22.4 |
| 2 21 | 11 49.34 | − 1 15.2 | 2.083 | 3.000 | 8.5 | 22.2 |
| 3 2 | 11 42.02 | − 0 39.1 | 2.037 | 3.006 | 4.8 | 21.9 |
| 3 12 | 11 33.77 | + 0 4.8 | 2.019 | 3.011 | 1.1 | 21.7 |
| 3 22 | 11 25.42 | + 0 51.7 | 2.030 | 3.016 | 3.3 | 21.9 |
| 4 1 | 11 17.83 | + 1 36.1 | 2.071 | 3.021 | 7.1 | 22.1 |
| 4 11 | 11 11.72 | + 2 13.4 | 2.138 | 3.025 | 10.5 | 22.3 |
| 4 21 | 11 7.55 | + 2 40.3 | 2.227 | 3.030 | 13.4 | 22.5 |

**28312** 1999 $CH_{94}$ 3 13.0 231.°41 2.°7/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.07 | +10 16.3 | 2.303 | 3.167 | 10.1 | 18.8 |
| 2 21 | 11 49.34 | +10 53.3 | 2.230 | 3.162 | 7.1 | 18.6 |
| 3 2 | 11 42.02 | +11 32.6 | 2.183 | 3.156 | 4.1 | 18.4 |
| 3 12 | 11 33.77 | +12 9.0 | 2.165 | 3.151 | 2.8 | 18.3 |
| 3 22 | 11 25.40 | +12 37.5 | 2.177 | 3.145 | 5.2 | 18.4 |
| 4 1 | 11 17.74 | +12 54.5 | 2.217 | 3.139 | 8.4 | 18.6 |
| 4 11 | 11 11.48 | +12 57.7 | 2.282 | 3.132 | 11.4 | 18.8 |
| 4 21 | 11 7.08 | +12 46.7 | 2.368 | 3.126 | 13.9 | 18.9 |

**462261** 2008 $EX_{58}$ 3 13.0 20.°75 3.°0/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.80 | + 5 52.9 | 1.152 | 2.043 | 15.9 | 20.8 |
| 2 21 | 11 47.93 | + 7 2.6 | 1.106 | 2.051 | 11.1 | 20.6 |
| 3 2 | 11 41.53 | + 8 23.5 | 1.081 | 2.061 | 5.9 | 20.3 |
| 3 12 | 11 33.73 | + 9 44.2 | 1.081 | 2.071 | 3.1 | 20.2 |
| 3 22 | 11 25.91 | +10 53.3 | 1.105 | 2.083 | 7.2 | 20.4 |
| 4 1 | 11 19.46 | +11 42.1 | 1.153 | 2.096 | 12.1 | 20.7 |
| 4 11 | 11 15.39 | +12 6.0 | 1.221 | 2.110 | 16.5 | 21.0 |
| 4 21 | 11 14.16 | +12 5.0 | 1.306 | 2.125 | 20.1 | 21.3 |

**59868** 1999 $RH_{106}$ 3 13.0 103.°39 2.°7/16.0 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.76 | − 8 13.8 | 2.089 | 2.906 | 12.9 | 20.1 |
| 2 21 | 11 48.45 | − 7 46.0 | 2.022 | 2.921 | 9.7 | 19.9 |
| 3 2 | 11 41.53 | − 7 0.8 | 1.980 | 2.936 | 6.3 | 19.7 |
| 3 12 | 11 33.73 | − 6 1.6 | 1.966 | 2.951 | 3.2 | 19.5 |
| 3 22 | 11 25.88 | − 4 53.8 | 1.980 | 2.965 | 3.6 | 19.6 |
| 4 1 | 11 18.84 | − 3 44.1 | 2.024 | 2.979 | 6.8 | 19.8 |
| 4 11 | 11 13.31 | − 2 38.9 | 2.094 | 2.993 | 10.1 | 20.0 |
| 4 21 | 11 9.73 | − 1 43.1 | 2.187 | 3.007 | 13.0 | 20.3 |

**139719** 2001 $QH_{241}$ 3 13.0 140.°35 0.°3/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.41 | + 1 46.9 | 2.005 | 2.855 | 12.0 | 20.5 |
| 2 21 | 11 50.39 | + 2 20.1 | 1.939 | 2.864 | 8.5 | 20.3 |
| 3 2 | 11 42.60 | + 3 3.2 | 1.899 | 2.872 | 4.5 | 20.1 |
| 3 12 | 11 33.84 | + 3 51.1 | 1.887 | 2.880 | 0.4 | 19.8 |
| 3 22 | 11 25.01 | + 4 38.1 | 1.904 | 2.888 | 3.9 | 20.1 |
| 4 1 | 11 17.05 | + 5 18.6 | 1.950 | 2.895 | 7.9 | 20.3 |
| 4 11 | 11 10.71 | + 5 48.5 | 2.022 | 2.901 | 11.4 | 20.5 |
| 4 21 | 11 6.45 | + 6 5.5 | 2.116 | 2.908 | 14.3 | 20.8 |

**126851** 2002 $EF_{73}$ 3 13.0 24.°85 0.°5/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.52 | + 3 56.9 | 1.728 | 2.586 | 13.2 | 19.1 |
| 2 21 | 11 52.13 | + 3 57.5 | 1.660 | 2.589 | 9.4 | 18.9 |
| 3 2 | 11 43.64 | + 4 5.8 | 1.617 | 2.591 | 5.0 | 18.6 |
| 3 12 | 11 33.94 | + 4 17.3 | 1.601 | 2.594 | 0.6 | 18.3 |
| 3 22 | 11 24.13 | + 4 27.4 | 1.613 | 2.597 | 4.4 | 18.6 |
| 4 1 | 11 15.33 | + 4 31.8 | 1.653 | 2.600 | 8.8 | 18.9 |
| 4 11 | 11 8.44 | + 4 27.0 | 1.718 | 2.604 | 12.7 | 19.1 |
| 4 21 | 11 4.01 | + 4 11.5 | 1.804 | 2.608 | 16.0 | 19.3 |

**510190** 2011 $CX_{7}$ 3 13.0 258.°98 15.°7/ 1.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 10.77 | +18 47.3 | 0.690 | 1.591 | 22.2 | 21.8 |
| 2 21 | 12 5.00 | +22 48.5 | 0.621 | 1.561 | 17.9 | 21.4 |
| 3 2 | 11 52.87 | +27 16.4 | 0.570 | 1.528 | 15.7 | 21.1 |
| 3 12 | 11 35.00 | +31 32.0 | 0.541 | 1.492 | 18.4 | 21.0 |
| 3 22 | 11 13.82 | +34 51.6 | 0.530 | 1.453 | 24.7 | 21.1 |
| 4 1 | 10 53.40 | +36 46.6 | 0.534 | 1.411 | 32.0 | 21.2 |
| 4 11 | 10 37.64 | +37 16.4 | 0.548 | 1.367 | 39.0 | 21.4 |
| 4 21 | 10 28.47 | +36 37.9 | 0.565 | 1.320 | 45.2 | 21.6 |

**496486** 2014 $SF_{316}$ 3 13.0 211.°93 3.°3/ 9.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.68 | + 9 45.6 | 1.921 | 2.787 | 11.7 | 22.3 |
| 2 21 | 11 51.48 | +10 43.5 | 1.847 | 2.781 | 8.3 | 22.0 |
| 3 2 | 11 43.29 | +11 45.8 | 1.800 | 2.774 | 4.8 | 21.8 |
| 3 12 | 11 33.92 | +12 45.1 | 1.781 | 2.766 | 3.4 | 21.7 |
| 3 22 | 11 24.34 | +13 34.6 | 1.791 | 2.758 | 6.2 | 21.9 |
| 4 1 | 11 15.62 | +14 8.7 | 1.829 | 2.749 | 10.0 | 22.1 |
| 4 11 | 11 8.63 | +14 24.6 | 1.891 | 2.740 | 13.4 | 22.3 |
| 4 21 | 11 3.91 | +14 21.8 | 1.973 | 2.730 | 16.4 | 22.4 |

**406496** 2007 $VR_{51}$ 3 13.0 57.°80 3.°1/15.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.43 | − 6 31.1 | 1.383 | 2.226 | 16.8 | 20.4 |
| 2 21 | 11 50.92 | − 6 21.8 | 1.328 | 2.242 | 12.6 | 20.2 |
| 3 2 | 11 43.05 | − 5 50.4 | 1.295 | 2.258 | 7.9 | 20.0 |
| 3 12 | 11 33.89 | − 5 1.1 | 1.287 | 2.275 | 3.7 | 19.8 |
| 3 22 | 11 24.71 | − 4 1.3 | 1.305 | 2.292 | 4.7 | 19.9 |
| 4 1 | 11 16.79 | − 2 59.7 | 1.349 | 2.309 | 9.1 | 20.2 |
| 4 11 | 11 11.12 | − 2 4.9 | 1.417 | 2.326 | 13.3 | 20.5 |
| 4 21 | 11 8.18 | − 1 22.7 | 1.504 | 2.343 | 17.0 | 20.7 |

**141782** 2002 $NN_{12}$ 3 13.0 142.°85 0.°5/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.33 | − 1 16.7 | 2.018 | 2.858 | 12.3 | 20.9 |
| 2 21 | 11 50.32 | − 0 35.6 | 1.951 | 2.870 | 8.8 | 20.7 |
| 3 2 | 11 42.56 | + 0 18.2 | 1.910 | 2.881 | 4.9 | 20.5 |
| 3 12 | 11 33.84 | + 1 19.8 | 1.898 | 2.891 | 0.8 | 20.2 |
| 3 22 | 11 25.06 | + 2 22.9 | 1.915 | 2.900 | 3.6 | 20.5 |
| 4 1 | 11 17.14 | + 3 21.2 | 1.961 | 2.909 | 7.6 | 20.7 |
| 4 11 | 11 10.83 | + 4 9.5 | 2.034 | 2.917 | 11.1 | 21.0 |
| 4 21 | 11 6.60 | + 4 44.6 | 2.128 | 2.925 | 14.1 | 21.2 |

**162619** 2000 $SK_{114}$ 3 13.0 215.°97 2.°2/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.32 | + 6 35.0 | 1.754 | 2.617 | 12.8 | 20.1 |
| 2 21 | 11 52.08 | + 7 20.5 | 1.679 | 2.611 | 9.0 | 19.8 |
| 3 2 | 11 43.68 | + 8 13.6 | 1.629 | 2.605 | 4.8 | 19.6 |
| 3 12 | 11 33.96 | + 9 7.3 | 1.607 | 2.598 | 2.3 | 19.4 |
| 3 22 | 11 24.02 | + 9 54.4 | 1.614 | 2.590 | 5.6 | 19.6 |
| 4 1 | 11 14.99 | +10 29.0 | 1.648 | 2.582 | 9.9 | 19.8 |
| 4 11 | 11 7.85 | +10 47.0 | 1.707 | 2.573 | 13.8 | 20.0 |
| 4 21 | 11 3.18 | +10 47.5 | 1.785 | 2.564 | 17.1 | 20.2 |

**103329** 2000 $AN_{69}$ 3 13.0 164.°91 1.°9/14.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.57 | − 4 47.4 | 1.703 | 2.536 | 14.6 | 20.1 |
| 2 21 | 11 52.23 | − 4 17.5 | 1.630 | 2.542 | 10.8 | 19.9 |
| 3 2 | 11 43.73 | − 3 29.3 | 1.582 | 2.547 | 6.4 | 19.6 |
| 3 12 | 11 33.97 | − 2 27.1 | 1.561 | 2.551 | 2.3 | 19.4 |
| 3 22 | 11 24.04 | − 1 17.9 | 1.569 | 2.555 | 4.1 | 19.5 |
| 4 1 | 11 15.10 | − 0 9.7 | 1.604 | 2.558 | 8.5 | 19.7 |
| 4 11 | 11 8.11 | + 0 50.0 | 1.665 | 2.560 | 12.6 | 20.0 |
| 4 21 | 11 3.62 | + 1 36.4 | 1.748 | 2.561 | 16.1 | 20.2 |

**282226** 2002 $AU_{17}$ 3 13.0 143.°15 3.°1/16.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.28 | − 9 1.0 | 2.189 | 2.990 | 12.9 | 21.8 |
| 2 21 | 11 52.29 | − 8 45.7 | 2.119 | 3.007 | 9.8 | 21.7 |
| 3 2 | 11 43.59 | − 8 13.3 | 2.073 | 3.023 | 6.5 | 21.5 |
| 3 12 | 11 33.95 | − 7 26.5 | 2.057 | 3.038 | 3.5 | 21.3 |
| 3 22 | 11 24.26 | − 6 29.8 | 2.070 | 3.052 | 3.9 | 21.4 |
| 4 1 | 11 15.42 | − 5 29.3 | 2.113 | 3.065 | 6.9 | 21.6 |
| 4 11 | 11 8.19 | − 4 31.1 | 2.184 | 3.076 | 10.1 | 21.8 |
| 4 21 | 11 3.02 | − 3 40.3 | 2.279 | 3.087 | 13.0 | 22.0 |

**184058** 2004 $FC_{139}$ 3 13.0 44.°34 0.°0/13.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.89 | − 0 23.4 | 1.353 | 2.220 | 15.6 | 20.5 |
| 2 21 | 11 49.13 | + 0 26.3 | 1.302 | 2.234 | 11.1 | 20.3 |
| 3 2 | 11 42.08 | + 1 32.7 | 1.273 | 2.249 | 6.0 | 20.1 |
| 3 12 | 11 33.81 | + 2 48.0 | 1.271 | 2.264 | 0.6 | 19.7 |
| 3 22 | 11 25.53 | + 4 2.5 | 1.294 | 2.280 | 4.8 | 20.1 |
| 4 1 | 11 18.50 | + 5 7.3 | 1.343 | 2.296 | 9.8 | 20.4 |
| 4 11 | 11 13.62 | + 5 55.6 | 1.415 | 2.313 | 14.1 | 20.7 |
| 4 21 | 11 11.38 | + 6 24.4 | 1.506 | 2.330 | 17.7 | 21.0 |

**190415** 1999 $UP_{1}$ 3 13.0 132.°75 2.°9/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.40 | +11 6.2 | 2.440 | 3.300 | 9.8 | 21.1 |
| 2 21 | 11 50.08 | +11 52.5 | 2.385 | 3.315 | 6.8 | 20.9 |
| 3 2 | 11 42.33 | +12 39.8 | 2.358 | 3.329 | 4.0 | 20.7 |
| 3 12 | 11 33.83 | +13 22.8 | 2.360 | 3.343 | 3.0 | 20.7 |
| 3 22 | 11 25.34 | +13 56.8 | 2.393 | 3.356 | 5.2 | 20.9 |
| 4 1 | 11 17.64 | +14 18.5 | 2.455 | 3.369 | 8.1 | 21.1 |
| 4 11 | 11 11.34 | +14 26.3 | 2.542 | 3.381 | 10.7 | 21.2 |
| 4 21 | 11 6.83 | +14 20.1 | 2.651 | 3.392 | 13.0 | 21.4 |

**427730** 2004 $PO_{65}$ 3 13.0 139.°39 2.°1/15.4 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.06 | − 5 48.0 | 2.442 | 3.257 | 11.3 | 22.4 |
| 2 21 | 11 49.90 | − 5 35.9 | 2.370 | 3.271 | 8.4 | 22.2 |
| 3 2 | 11 42.27 | − 5 10.9 | 2.325 | 3.283 | 5.2 | 22.0 |
| 3 12 | 11 33.83 | − 4 35.6 | 2.308 | 3.295 | 2.4 | 21.9 |
| 3 22 | 11 25.33 | − 3 53.9 | 2.322 | 3.306 | 3.2 | 21.9 |
| 4 1 | 11 17.54 | − 3 10.5 | 2.366 | 3.317 | 6.2 | 22.2 |
| 4 11 | 11 11.11 | − 2 30.2 | 2.437 | 3.327 | 9.3 | 22.4 |
| 4 21 | 11 6.45 | − 1 56.5 | 2.532 | 3.337 | 11.9 | 22.6 |

**406369** 2007 $RV_{233}$ 3 13.0 185.°97 2.°4/15.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.11 | − 5 18.7 | 2.054 | 2.873 | 13.0 | 21.8 |
| 2 21 | 11 53.11 | − 5 20.3 | 1.971 | 2.873 | 9.8 | 21.6 |
| 3 2 | 11 44.16 | − 5 7.5 | 1.913 | 2.872 | 6.1 | 21.4 |
| 3 12 | 11 34.03 | − 4 42.4 | 1.884 | 2.871 | 2.8 | 21.2 |
| 3 22 | 11 23.67 | − 4 9.1 | 1.885 | 2.869 | 3.8 | 21.2 |
| 4 1 | 11 14.12 | − 3 32.8 | 1.915 | 2.866 | 7.5 | 21.4 |
| 4 11 | 11 6.24 | − 2 58.8 | 1.971 | 2.862 | 11.1 | 21.6 |
| 4 21 | 11 0.58 | − 2 31.7 | 2.051 | 2.857 | 14.2 | 21.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **468520** 2005 $UW_{106}$ | | | 3 13.0 135°.13 | 13°.7/26.6 18 | | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 8.22 | +44 53.0 | 1.959 | 2.752 | 14.5 | 21.0 |
| 2 21 | 11 59.09 | +46 10.5 | 1.938 | 2.756 | 13.8 | 20.9 |
| 3 2 | 11 47.32 | +46 59.4 | 1.938 | 2.760 | 13.8 | 20.9 |
| 3 12 | 11 34.30 | +47 11.6 | 1.960 | 2.763 | 14.4 | 21.0 |
| 3 22 | 11 21.64 | +46 44.3 | 2.002 | 2.767 | 15.6 | 21.1 |
| 4 1 | 11 10.81 | +45 39.7 | 2.064 | 2.770 | 17.0 | 21.2 |
| 4 11 | 11 2.79 | +44 4.3 | 2.142 | 2.773 | 18.4 | 21.3 |
| 4 21 | 10 57.94 | +42 5.8 | 2.233 | 2.776 | 19.6 | 21.4 |
| **112010** 2002 $GR_{154}$ | | | 3 13.0 233°.62 | 3°.0/10.4 18 | | |
| 2 11 | 11 56.16 | + 7 26.9 | 1.611 | 2.483 | 13.3 | 20.0 |
| 2 21 | 11 50.69 | + 8 32.2 | 1.541 | 2.478 | 9.3 | 19.7 |
| 3 2 | 11 42.98 | + 9 45.7 | 1.496 | 2.472 | 5.1 | 19.5 |
| 3 12 | 11 33.92 | +10 58.8 | 1.478 | 2.466 | 3.1 | 19.3 |
| 3 22 | 11 24.65 | +12 2.8 | 1.488 | 2.460 | 6.5 | 19.5 |
| 4 1 | 11 16.35 | +12 50.3 | 1.524 | 2.454 | 10.8 | 19.7 |
| 4 11 | 11 10.02 | +13 17.2 | 1.583 | 2.448 | 14.8 | 20.0 |
| 4 21 | 11 6.23 | +13 22.7 | 1.661 | 2.441 | 18.1 | 20.2 |
| **316059** 2009 $HC_{64}$ | | | 3 13.0 275°.50 | 1°.7/11.6 17 | | |
| 2 11 | 11 56.06 | + 4 35.6 | 1.639 | 2.505 | 13.4 | 21.6 |
| 2 21 | 11 50.71 | + 5 20.2 | 1.555 | 2.488 | 9.5 | 21.4 |
| 3 2 | 11 43.06 | + 6 15.7 | 1.495 | 2.471 | 5.1 | 21.1 |
| 3 12 | 11 33.94 | + 7 15.4 | 1.462 | 2.454 | 1.7 | 20.8 |
| 3 22 | 11 24.44 | + 8 11.6 | 1.457 | 2.437 | 5.5 | 21.0 |
| 4 1 | 11 15.77 | + 8 56.6 | 1.478 | 2.419 | 10.2 | 21.2 |
| 4 11 | 11 9.01 | + 9 25.3 | 1.523 | 2.402 | 14.5 | 21.4 |
| 4 21 | 11 4.80 | + 9 35.3 | 1.588 | 2.384 | 18.1 | 21.6 |
| **373473** 2000 $SR_{137}$ | | | 3 13.0 223°.91 | 0°.5/12.5 17 | | |
| 2 11 | 11 58.66 | + 3 44.5 | 2.250 | 3.096 | 11.0 | 21.3 |
| 2 21 | 11 51.98 | + 3 57.3 | 2.163 | 3.087 | 7.8 | 21.1 |
| 3 2 | 11 43.52 | + 4 16.9 | 2.103 | 3.077 | 4.2 | 20.8 |
| 3 12 | 11 33.98 | + 4 39.4 | 2.073 | 3.066 | 0.6 | 20.5 |
| 3 22 | 11 24.21 | + 5 0.7 | 2.072 | 3.055 | 3.8 | 20.8 |
| 4 1 | 11 15.13 | + 5 16.7 | 2.102 | 3.043 | 7.6 | 21.0 |
| 4 11 | 11 7.54 | + 5 24.2 | 2.158 | 3.030 | 11.1 | 21.2 |
| 4 21 | 11 1.96 | + 5 21.3 | 2.236 | 3.017 | 14.0 | 21.3 |
| **152180** 2005 $QP_{8}$ | | | 3 13.0 198°.76 | 0°.2/13.3 18 | | |
| 2 11 | 11 51.28 | − 0 10.5 | 2.832 | 3.671 | 9.2 | 20.9 |
| 2 21 | 11 46.46 | + 0 27.6 | 2.749 | 3.668 | 6.6 | 20.7 |
| 3 2 | 11 40.42 | + 1 14.5 | 2.694 | 3.665 | 3.6 | 20.5 |
| 3 12 | 11 33.68 | + 2 6.8 | 2.668 | 3.662 | 0.5 | 20.2 |
| 3 22 | 11 26.82 | + 3 0.1 | 2.673 | 3.658 | 2.8 | 20.4 |
| 4 1 | 11 20.46 | + 3 50.3 | 2.708 | 3.654 | 5.9 | 20.6 |
| 4 11 | 11 15.16 | + 4 33.4 | 2.771 | 3.649 | 8.7 | 20.8 |
| 4 21 | 11 11.30 | + 5 6.8 | 2.857 | 3.644 | 11.1 | 21.0 |
| **267196** 2000 $RS_{88}$ | | | 3 13.0 201°.62 | 3°.2/16.1 17 | | |
| 2 11 | 11 56.96 | − 7 56.1 | 2.191 | 3.001 | 12.6 | 20.9 |
| 2 21 | 11 50.83 | − 8 2.7 | 2.104 | 2.998 | 9.7 | 20.7 |
| 3 2 | 11 42.92 | − 7 54.0 | 2.042 | 2.994 | 6.4 | 20.5 |
| 3 12 | 11 33.92 | − 7 31.4 | 2.009 | 2.990 | 3.6 | 20.3 |
| 3 22 | 11 24.70 | − 6 58.4 | 2.004 | 2.986 | 4.0 | 20.3 |
| 4 1 | 11 16.16 | − 6 19.8 | 2.028 | 2.981 | 7.0 | 20.5 |
| 4 11 | 11 9.12 | − 5 41.0 | 2.079 | 2.975 | 10.4 | 20.7 |
| 4 21 | 11 4.09 | − 5 7.1 | 2.154 | 2.970 | 13.3 | 20.9 |
| **434909** 2006 $TT_{51}$ | | | 3 13.0 163°.11 | 3°.4/ 8.2 17 | | |
| 2 11 | 11 53.16 | +14 59.5 | 3.014 | 3.877 | 8.0 | 22.0 |
| 2 21 | 11 47.68 | +15 50.6 | 2.954 | 3.882 | 5.8 | 21.9 |
| 3 2 | 11 41.02 | +16 40.5 | 2.922 | 3.887 | 3.8 | 21.7 |
| 3 12 | 11 33.73 | +17 24.6 | 2.920 | 3.892 | 3.6 | 21.7 |
| 3 22 | 11 26.40 | +17 58.9 | 2.949 | 3.896 | 5.2 | 21.8 |
| 4 1 | 11 19.64 | +18 20.9 | 3.006 | 3.899 | 7.5 | 22.0 |
| 4 11 | 11 13.98 | +18 29.1 | 3.089 | 3.903 | 9.7 | 22.1 |
| 4 21 | 11 9.75 | +18 23.8 | 3.193 | 3.905 | 11.5 | 22.3 |
| **352767** 2008 $UD_{25}$ | | | 3 13.0 161°.12 | 1°.0/12.2 18 | | |
| 2 11 | 12 0.24 | + 3 35.1 | 1.755 | 2.610 | 13.3 | 21.5 |
| 2 21 | 11 53.32 | + 4 11.6 | 1.689 | 2.617 | 9.3 | 21.2 |
| 3 2 | 11 44.29 | + 4 57.7 | 1.648 | 2.623 | 4.9 | 21.0 |
| 3 12 | 11 34.05 | + 5 47.1 | 1.635 | 2.628 | 1.0 | 20.7 |
| 3 22 | 11 23.72 | + 6 33.3 | 1.652 | 2.633 | 4.8 | 21.0 |
| 4 1 | 11 14.42 | + 7 10.1 | 1.696 | 2.637 | 9.2 | 21.3 |
| 4 11 | 11 7.07 | + 7 33.4 | 1.766 | 2.640 | 13.0 | 21.5 |
| 4 21 | 11 2.20 | + 7 41.4 | 1.856 | 2.642 | 16.2 | 21.7 |
| **459577** 2013 $GF_{110}$ | | | 3 13.0 295°.61 | 3°.2/10.6 17 | | |
| 2 11 | 11 56.73 | + 7 51.2 | 1.430 | 2.307 | 14.3 | 21.2 |
| 2 21 | 11 51.56 | + 8 41.3 | 1.343 | 2.282 | 10.2 | 20.9 |
| 3 2 | 11 43.70 | + 9 40.9 | 1.280 | 2.257 | 5.7 | 20.6 |
| 3 12 | 11 34.02 | +10 41.4 | 1.243 | 2.232 | 3.3 | 20.3 |
| 3 22 | 11 23.78 | +11 33.3 | 1.232 | 2.207 | 7.2 | 20.5 |
| 4 1 | 11 14.43 | +12 8.5 | 1.246 | 2.182 | 12.2 | 20.7 |
| 4 11 | 11 7.25 | +12 21.8 | 1.281 | 2.157 | 16.9 | 20.9 |
| 4 21 | 11 3.02 | +12 12.2 | 1.335 | 2.132 | 20.9 | 21.1 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **429381** 2010 $NZ_{65}$ | | | 3 13.0 311°.34 | 4°.8/ 7.4 17 | | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 52.67 | +15 36.7 | 2.159 | 3.033 | 10.3 | 20.3 |
| 2 21 | 11 47.77 | +16 47.4 | 2.097 | 3.030 | 7.5 | 20.2 |
| 3 2 | 11 41.23 | +17 57.1 | 2.062 | 3.027 | 5.2 | 20.0 |
| 3 12 | 11 33.76 | +18 58.4 | 2.055 | 3.024 | 5.1 | 20.0 |
| 3 22 | 11 26.19 | +19 45.5 | 2.076 | 3.021 | 7.3 | 20.1 |
| 4 1 | 11 19.37 | +20 14.0 | 2.124 | 3.018 | 10.1 | 20.3 |
| 4 11 | 11 14.01 | +20 22.4 | 2.194 | 3.015 | 12.8 | 20.5 |
| 4 21 | 11 10.57 | +20 11.6 | 2.284 | 3.012 | 15.2 | 20.6 |
| **43935** Danshechtman | | | 3 13.0 221°.00 | 2°.1/14.7 18 | | |
| 2 11 | 11 58.46 | − 4 32.4 | 1.559 | 2.399 | 15.4 | 19.7 |
| 2 21 | 11 52.48 | − 4 11.9 | 1.477 | 2.392 | 11.5 | 19.4 |
| 3 2 | 11 44.04 | − 3 31.6 | 1.418 | 2.384 | 6.9 | 19.2 |
| 3 12 | 11 34.05 | − 2 35.6 | 1.385 | 2.376 | 2.5 | 18.9 |
| 3 22 | 11 23.69 | − 1 30.5 | 1.380 | 2.367 | 4.4 | 19.0 |
| 4 1 | 11 14.28 | − 0 25.0 | 1.402 | 2.357 | 9.3 | 19.2 |
| 4 11 | 11 6.94 | + 0 32.6 | 1.449 | 2.347 | 13.8 | 19.4 |
| 4 21 | 11 2.33 | + 1 16.7 | 1.515 | 2.337 | 17.7 | 19.7 |
| **432067** 2008 $YU_{94}$ | | | 3 13.0 48°.03 | 1°.3/11.7 17 | | |
| 2 11 | 11 52.95 | + 4 18.1 | 1.930 | 2.794 | 11.8 | 21.3 |
| 2 21 | 11 48.00 | + 5 3.0 | 1.870 | 2.802 | 8.2 | 21.1 |
| 3 2 | 11 41.36 | + 5 56.0 | 1.835 | 2.811 | 4.3 | 20.8 |
| 3 12 | 11 33.78 | + 6 51.1 | 1.827 | 2.820 | 1.3 | 20.6 |
| 3 22 | 11 26.15 | + 7 42.2 | 1.849 | 2.829 | 4.5 | 20.9 |
| 4 1 | 11 19.36 | + 8 23.6 | 1.897 | 2.838 | 8.3 | 21.1 |
| 4 11 | 11 14.17 | + 8 51.5 | 1.971 | 2.847 | 11.8 | 21.4 |
| 4 21 | 11 10.99 | + 9 4.2 | 2.066 | 2.857 | 14.7 | 21.6 |
| **235688** 2004 $SM_{17}$ | | | 3 13.0 141°.05 | 3°.1/ 9.2 18 | | |
| 2 11 | 11 53.35 | + 9 5.0 | 2.208 | 3.075 | 10.4 | 20.8 |
| 2 21 | 11 48.14 | +10 32.8 | 2.150 | 3.084 | 7.2 | 20.6 |
| 3 2 | 11 41.39 | +12 4.9 | 2.120 | 3.093 | 4.2 | 20.5 |
| 3 12 | 11 33.79 | +13 33.8 | 2.119 | 3.102 | 3.3 | 20.4 |
| 3 22 | 11 26.12 | +14 52.5 | 2.148 | 3.110 | 5.8 | 20.6 |
| 4 1 | 11 19.21 | +15 55.5 | 2.206 | 3.118 | 8.9 | 20.8 |
| 4 11 | 11 13.73 | +16 39.7 | 2.288 | 3.125 | 11.8 | 21.0 |
| 4 21 | 11 10.09 | +17 4.6 | 2.391 | 3.132 | 14.3 | 21.2 |
| **28027** 1998 $CC_{5}$ | | | 3 13.0 153°.99 | 1°.9/14.7 18 | | |
| 2 11 | 11 58.53 | − 4 9.3 | 1.852 | 2.684 | 13.7 | 19.0 |
| 2 21 | 11 52.07 | − 3 56.0 | 1.781 | 2.691 | 10.1 | 18.8 |
| 3 2 | 11 43.62 | − 3 27.1 | 1.734 | 2.698 | 6.1 | 18.5 |
| 3 12 | 11 34.01 | − 2 46.4 | 1.714 | 2.704 | 2.3 | 18.3 |
| 3 22 | 11 24.28 | − 1 59.1 | 1.724 | 2.710 | 3.8 | 18.4 |
| 4 1 | 11 15.47 | − 1 11.6 | 1.762 | 2.715 | 7.9 | 18.7 |
| 4 11 | 11 8.47 | − 0 29.8 | 1.826 | 2.719 | 11.7 | 18.9 |
| 4 21 | 11 3.78 | + 0 1.9 | 1.912 | 2.723 | 14.9 | 19.1 |
| **448442** 2009 $WF_{254}$ | | | 3 13.0 231°.25 | 4°.2/16.2 18 | | |
| 2 11 | 11 57.91 | − 8 40.7 | 1.413 | 2.244 | 17.2 | 21.0 |
| 2 21 | 11 52.29 | − 8 40.4 | 1.334 | 2.239 | 13.3 | 20.7 |
| 3 2 | 11 44.03 | − 8 15.6 | 1.277 | 2.233 | 8.8 | 20.5 |
| 3 12 | 11 34.07 | − 7 28.3 | 1.244 | 2.228 | 4.8 | 20.2 |
| 3 22 | 11 23.72 | − 6 24.4 | 1.237 | 2.222 | 5.3 | 20.2 |
| 4 1 | 11 14.41 | − 5 13.0 | 1.256 | 2.215 | 9.7 | 20.5 |
| 4 11 | 11 7.37 | − 4 4.4 | 1.299 | 2.209 | 14.3 | 20.7 |
| 4 21 | 11 3.28 | − 3 6.5 | 1.362 | 2.202 | 18.3 | 20.9 |
| **409380** 2005 $CW_{29}$ | | | 3 13.0 331°.07 | 1°.9/11.6 17 | | |
| 2 11 | 11 54.20 | + 4 45.1 | 1.260 | 2.142 | 15.5 | 20.7 |
| 2 21 | 11 49.80 | + 5 25.9 | 1.189 | 2.130 | 11.0 | 20.4 |
| 3 2 | 11 42.72 | + 6 19.3 | 1.140 | 2.119 | 5.9 | 20.1 |
| 3 12 | 11 33.95 | + 7 17.3 | 1.116 | 2.108 | 1.9 | 19.8 |
| 3 22 | 11 24.83 | + 8 10.1 | 1.117 | 2.098 | 6.3 | 20.0 |
| 4 1 | 11 16.82 | + 8 49.2 | 1.141 | 2.090 | 11.7 | 20.3 |
| 4 11 | 11 11.16 | + 9 8.6 | 1.187 | 2.081 | 16.5 | 20.6 |
| 4 21 | 11 8.50 | + 9 6.4 | 1.251 | 2.074 | 20.6 | 20.8 |
| **227499** 2005 $XV_{76}$ | | | 3 13.1 222°.33 | 5°.1/ 7.7 17 | | |
| 2 11 | 11 58.08 | +17 11.1 | 2.161 | 3.027 | 10.6 | 20.8 |
| 2 21 | 11 51.64 | +18 8.9 | 2.091 | 3.018 | 7.8 | 20.6 |
| 3 2 | 11 43.36 | +19 4.1 | 2.048 | 3.009 | 5.6 | 20.4 |
| 3 12 | 11 34.01 | +19 49.6 | 2.033 | 2.999 | 5.4 | 20.4 |
| 3 22 | 11 24.50 | +20 19.5 | 2.047 | 2.989 | 7.6 | 20.5 |
| 4 1 | 11 15.79 | +20 30.3 | 2.088 | 2.978 | 10.5 | 20.6 |
| 4 11 | 11 8.71 | +20 21.2 | 2.153 | 2.966 | 13.3 | 20.8 |
| 4 21 | 11 3.75 | +19 53.4 | 2.237 | 2.954 | 15.7 | 21.0 |
| **434839** 2006 $SS_{95}$ | | | 3 13.1 187°.86 | 2°.5/ 9.8 17 | | |
| 2 11 | 11 54.32 | +11 16.4 | 2.848 | 3.707 | 8.6 | 21.9 |
| 2 21 | 11 48.58 | +11 53.5 | 2.777 | 3.707 | 6.0 | 21.7 |
| 3 2 | 11 41.56 | +12 31.7 | 2.734 | 3.705 | 3.5 | 21.6 |
| 3 12 | 11 33.83 | +13 6.6 | 2.721 | 3.704 | 2.6 | 21.5 |
| 3 22 | 11 26.03 | +13 34.3 | 2.738 | 3.702 | 4.6 | 21.6 |
| 4 1 | 11 18.80 | +13 51.9 | 2.785 | 3.699 | 7.2 | 21.8 |
| 4 11 | 11 12.72 | +13 57.5 | 2.858 | 3.697 | 9.7 | 22.0 |
| 4 21 | 11 8.17 | +13 51.0 | 2.954 | 3.693 | 11.8 | 22.1 |

**152010** 2004 $JC_{33}$ 3 13.1 187°.01 0°.3/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.14 | + 0 33.7 | 2.024 | 2.874 | 11.9 | 20.5 |
| 2 21 | 11 48.88 | + 1 26.6 | 1.949 | 2.874 | 8.5 | 20.3 |
| 3 2 | 11 41.89 | + 2 31.8 | 1.899 | 2.873 | 4.5 | 20.1 |
| 3 12 | 11 33.87 | + 3 43.6 | 1.879 | 2.872 | 0.4 | 19.8 |
| 3 22 | 11 25.71 | + 4 55.2 | 1.887 | 2.871 | 3.9 | 20.0 |
| 4 1 | 11 18.30 | + 5 59.9 | 1.924 | 2.869 | 8.0 | 20.3 |
| 4 11 | 11 12.42 | + 6 52.4 | 1.987 | 2.867 | 11.5 | 20.5 |
| 4 21 | 11 8.56 | + 7 29.7 | 2.072 | 2.864 | 14.6 | 20.7 |

**49419** 1998 $XJ_{74}$ 3 13.1 75°.22 7°.8/ 6.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.77 | +21 49.9 | 1.604 | 2.476 | 13.3 | 18.1 |
| 2 21 | 11 53.72 | +22 55.0 | 1.569 | 2.493 | 10.2 | 17.9 |
| 3 2 | 11 44.45 | +23 49.7 | 1.558 | 2.509 | 8.1 | 17.8 |
| 3 12 | 11 34.11 | +24 24.8 | 1.574 | 2.526 | 8.1 | 17.9 |
| 3 22 | 11 23.96 | +24 34.8 | 1.615 | 2.543 | 10.3 | 18.0 |
| 4 1 | 11 15.23 | +24 18.0 | 1.681 | 2.559 | 13.2 | 18.2 |
| 4 11 | 11 8.77 | +23 36.8 | 1.768 | 2.576 | 16.0 | 18.5 |
| 4 21 | 11 4.99 | +22 35.6 | 1.872 | 2.592 | 18.3 | 18.7 |

**84676** 2002 $VM_{88}$ 3 13.1 39°.98 4°.3/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.61 | +10 37.7 | 1.395 | 2.278 | 14.2 | 19.1 |
| 2 21 | 11 50.35 | +11 42.3 | 1.347 | 2.288 | 10.0 | 18.9 |
| 3 2 | 11 42.78 | +12 50.3 | 1.324 | 2.298 | 5.9 | 18.7 |
| 3 12 | 11 33.96 | +13 51.6 | 1.325 | 2.309 | 4.5 | 18.6 |
| 3 22 | 11 25.15 | +14 37.8 | 1.353 | 2.321 | 7.7 | 18.8 |
| 4 1 | 11 17.61 | +15 3.0 | 1.406 | 2.332 | 11.9 | 19.1 |
| 4 11 | 11 12.29 | +15 5.2 | 1.480 | 2.344 | 15.6 | 19.4 |
| 4 21 | 11 9.64 | +14 45.7 | 1.572 | 2.357 | 18.8 | 19.6 |

**246016** 2006 $TT_{73}$ 3 13.1 198°.46 0°.7/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.16 | + 3 18.5 | 2.878 | 3.726 | 8.9 | 21.8 |
| 2 21 | 11 47.08 | + 3 58.2 | 2.797 | 3.722 | 6.2 | 21.6 |
| 3 2 | 11 40.78 | + 4 44.5 | 2.744 | 3.719 | 3.3 | 21.4 |
| 3 12 | 11 33.78 | + 5 33.4 | 2.722 | 3.714 | 0.7 | 21.1 |
| 3 22 | 11 26.66 | + 6 20.9 | 2.729 | 3.710 | 3.2 | 21.3 |
| 4 1 | 11 20.05 | + 7 3.0 | 2.767 | 3.705 | 6.2 | 21.5 |
| 4 11 | 11 14.49 | + 7 36.4 | 2.832 | 3.699 | 8.9 | 21.7 |
| 4 21 | 11 10.37 | + 7 59.3 | 2.920 | 3.694 | 11.2 | 21.9 |

**118382** 1999 $JH_{6}$ 3 13.1 196°.41 7°.1/20.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.19 | −20 35.4 | 1.384 | 2.162 | 20.2 | 19.7 |
| 2 21 | 11 51.16 | −19 39.1 | 1.299 | 2.161 | 16.7 | 19.4 |
| 3 2 | 11 43.45 | −17 58.4 | 1.234 | 2.159 | 12.5 | 19.2 |
| 3 12 | 11 34.05 | −15 34.4 | 1.191 | 2.155 | 8.6 | 18.9 |
| 3 22 | 11 24.31 | −12 36.2 | 1.176 | 2.152 | 7.2 | 18.8 |
| 4 1 | 11 15.70 | − 9 20.3 | 1.187 | 2.147 | 10.0 | 19.0 |
| 4 11 | 11 9.45 | − 6 6.5 | 1.226 | 2.142 | 14.4 | 19.2 |
| 4 21 | 11 6.21 | − 3 11.2 | 1.286 | 2.135 | 18.7 | 19.5 |

**502829** 2015 $DK_{148}$ 3 13.1 228°.39 3°.4/ 8.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.41 | + 8 55.1 | 2.047 | 2.918 | 10.9 | 21.1 |
| 2 21 | 11 47.70 | +10 29.8 | 1.976 | 2.913 | 7.6 | 20.8 |
| 3 2 | 11 41.27 | +12 10.9 | 1.933 | 2.907 | 4.4 | 20.6 |
| 3 12 | 11 33.83 | +13 50.1 | 1.918 | 2.901 | 3.6 | 20.6 |
| 3 22 | 11 26.21 | +15 19.2 | 1.933 | 2.895 | 6.3 | 20.7 |
| 4 1 | 11 19.30 | +16 31.4 | 1.976 | 2.888 | 9.8 | 20.9 |
| 4 11 | 11 13.87 | +17 22.8 | 2.042 | 2.882 | 13.0 | 21.1 |
| 4 21 | 11 10.42 | +17 52.4 | 2.129 | 2.875 | 15.6 | 21.3 |

**175440** 2006 $QR_{32}$ 3 13.1 106°.48 1°.2/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.64 | − 1 56.3 | 2.600 | 3.427 | 10.4 | 20.2 |
| 2 21 | 11 50.22 | − 1 57.6 | 2.535 | 3.444 | 7.5 | 20.0 |
| 3 2 | 11 42.45 | − 1 49.9 | 2.496 | 3.461 | 4.4 | 19.9 |
| 3 12 | 11 33.95 | − 1 35.6 | 2.487 | 3.478 | 1.4 | 19.7 |
| 3 22 | 11 25.44 | − 1 17.8 | 2.509 | 3.494 | 2.9 | 19.8 |
| 4 1 | 11 17.62 | − 0 59.9 | 2.561 | 3.510 | 6.0 | 20.0 |
| 4 11 | 11 11.11 | − 0 45.3 | 2.641 | 3.526 | 8.8 | 20.2 |
| 4 21 | 11 6.27 | − 0 36.3 | 2.744 | 3.542 | 11.3 | 20.4 |

**495388** 2014 $QL_{236}$ 3 13.1 242°.56 0°.2/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.80 | + 0 42.2 | 1.666 | 2.521 | 13.8 | 22.0 |
| 2 21 | 11 51.20 | + 1 23.2 | 1.583 | 2.510 | 9.9 | 21.7 |
| 3 2 | 11 43.34 | + 2 18.8 | 1.524 | 2.498 | 5.4 | 21.4 |
| 3 12 | 11 34.06 | + 3 23.1 | 1.492 | 2.486 | 0.5 | 21.0 |
| 3 22 | 11 24.43 | + 4 28.5 | 1.489 | 2.473 | 4.6 | 21.3 |
| 4 1 | 11 15.65 | + 5 27.2 | 1.512 | 2.460 | 9.4 | 21.6 |
| 4 11 | 11 8.76 | + 6 12.6 | 1.560 | 2.446 | 13.8 | 21.8 |
| 4 21 | 11 4.40 | + 6 41.1 | 1.629 | 2.433 | 17.4 | 22.0 |

**89133** 2001 $UV_{13}$ 3 13.1 132°.42 4°.4/ 8.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.54 | +12 7.2 | 1.784 | 2.653 | 12.4 | 20.3 |
| 2 21 | 11 52.73 | +13 22.8 | 1.736 | 2.669 | 8.7 | 20.1 |
| 3 2 | 11 43.94 | +14 39.4 | 1.714 | 2.684 | 5.4 | 20.0 |
| 3 12 | 11 34.10 | +15 48.2 | 1.720 | 2.698 | 4.6 | 19.9 |
| 3 22 | 11 24.29 | +16 41.9 | 1.755 | 2.712 | 7.3 | 20.1 |
| 4 1 | 11 15.61 | +17 15.5 | 1.816 | 2.725 | 10.7 | 20.3 |
| 4 11 | 11 8.88 | +17 27.6 | 1.902 | 2.737 | 13.9 | 20.6 |
| 4 21 | 11 4.55 | +17 19.5 | 2.006 | 2.748 | 16.6 | 20.8 |

**225578** 2000 $UG_{101}$ 3 13.1 129°.27 3°.6/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.44 | −10 0.1 | 2.155 | 2.959 | 13.0 | 20.2 |
| 2 21 | 11 49.71 | − 9 55.5 | 2.082 | 2.969 | 10.0 | 20.0 |
| 3 2 | 11 42.30 | − 9 33.2 | 2.033 | 2.979 | 6.8 | 19.8 |
| 3 12 | 11 33.95 | − 8 55.4 | 2.011 | 2.989 | 4.1 | 19.7 |
| 3 22 | 11 25.49 | − 8 6.2 | 2.018 | 2.998 | 4.1 | 19.7 |
| 4 1 | 11 17.80 | − 7 11.3 | 2.053 | 3.007 | 6.9 | 19.9 |
| 4 11 | 11 11.62 | − 6 16.8 | 2.116 | 3.016 | 10.0 | 20.1 |
| 4 21 | 11 7.40 | − 5 28.1 | 2.202 | 3.024 | 12.9 | 20.3 |

**108734** 2001 $OD_{32}$ 3 13.1 184°.59 4°.0/16.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.91 | −10 13.4 | 2.130 | 2.929 | 13.3 | 20.1 |
| 2 21 | 11 51.57 | −10 25.5 | 2.046 | 2.930 | 10.4 | 20.0 |
| 3 2 | 11 43.38 | −10 20.3 | 1.986 | 2.930 | 7.2 | 19.8 |
| 3 12 | 11 34.06 | − 9 58.8 | 1.953 | 2.929 | 4.5 | 19.6 |
| 3 22 | 11 24.52 | − 9 24.3 | 1.949 | 2.928 | 4.6 | 19.6 |
| 4 1 | 11 15.71 | − 8 41.8 | 1.975 | 2.926 | 7.3 | 19.7 |
| 4 11 | 11 8.47 | − 7 57.3 | 2.026 | 2.923 | 10.5 | 19.9 |
| 4 21 | 11 3.33 | − 7 16.4 | 2.102 | 2.921 | 13.5 | 20.1 |

**456893** 2007 $VX_{157}$ 3 13.1 163°.30 1°.3/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.25 | + 3 48.9 | 1.987 | 2.841 | 11.9 | 22.5 |
| 2 21 | 11 51.06 | + 4 41.5 | 1.919 | 2.847 | 8.4 | 22.3 |
| 3 2 | 11 43.06 | + 5 43.2 | 1.878 | 2.853 | 4.4 | 22.0 |
| 3 12 | 11 34.04 | + 6 47.6 | 1.866 | 2.858 | 1.3 | 21.8 |
| 3 22 | 11 24.91 | + 7 48.0 | 1.883 | 2.862 | 4.6 | 22.1 |
| 4 1 | 11 16.65 | + 8 38.5 | 1.929 | 2.866 | 8.5 | 22.3 |
| 4 11 | 11 10.04 | + 9 14.9 | 2.001 | 2.869 | 12.0 | 22.5 |
| 4 21 | 11 5.58 | + 9 35.4 | 2.093 | 2.871 | 14.9 | 22.7 |

**291540** 2006 $EY_{42}$ 3 13.1 225°.97 1°.4/14.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.33 | − 3 5.5 | 2.085 | 2.921 | 12.2 | 20.9 |
| 2 21 | 11 49.03 | − 2 47.0 | 2.004 | 2.918 | 8.9 | 20.6 |
| 3 2 | 11 42.00 | − 2 15.1 | 1.948 | 2.914 | 5.3 | 20.4 |
| 3 12 | 11 33.94 | − 1 33.3 | 1.920 | 2.911 | 1.7 | 20.2 |
| 3 22 | 11 25.69 | − 0 46.3 | 1.921 | 2.907 | 3.4 | 20.3 |
| 4 1 | 11 18.16 | + 0 0.1 | 1.950 | 2.903 | 7.2 | 20.5 |
| 4 11 | 11 12.11 | + 0 40.7 | 2.006 | 2.899 | 10.8 | 20.7 |
| 4 21 | 11 8.04 | + 1 11.5 | 2.084 | 2.895 | 13.9 | 20.9 |

**221791** 2008 $AN_{114}$ 3 13.1 195°.37 1°.3/11.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.23 | + 2 51.9 | 2.146 | 3.002 | 11.1 | 20.5 |
| 2 21 | 11 48.19 | + 4 11.5 | 2.071 | 3.000 | 7.8 | 20.3 |
| 3 2 | 11 41.52 | + 5 42.0 | 2.022 | 2.997 | 4.1 | 20.1 |
| 3 12 | 11 33.89 | + 7 16.7 | 2.002 | 2.994 | 1.4 | 19.9 |
| 3 22 | 11 26.09 | + 8 47.9 | 2.013 | 2.991 | 4.5 | 20.1 |
| 4 1 | 11 18.99 | +10 8.6 | 2.053 | 2.987 | 8.2 | 20.3 |
| 4 11 | 11 13.30 | +11 13.6 | 2.119 | 2.983 | 11.6 | 20.5 |
| 4 21 | 11 9.52 | +12 0.4 | 2.207 | 2.978 | 14.4 | 20.7 |

**264416** 2000 $PZ_{17}$ 3 13.1 205°.35 0°.2/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.94 | + 1 34.6 | 2.339 | 3.183 | 10.8 | 21.5 |
| 2 21 | 11 50.01 | + 2 5.8 | 2.256 | 3.178 | 7.7 | 21.3 |
| 3 2 | 11 42.48 | + 2 46.2 | 2.199 | 3.172 | 4.1 | 21.1 |
| 3 12 | 11 33.99 | + 3 31.5 | 2.172 | 3.165 | 0.4 | 20.8 |
| 3 22 | 11 25.32 | + 4 16.8 | 2.174 | 3.158 | 3.5 | 21.0 |
| 4 1 | 11 17.29 | + 4 57.4 | 2.207 | 3.150 | 7.2 | 21.2 |
| 4 11 | 11 10.63 | + 5 29.1 | 2.266 | 3.141 | 10.5 | 21.4 |
| 4 21 | 11 5.82 | + 5 49.3 | 2.348 | 3.132 | 13.3 | 21.6 |

**473839** 2016 $EB_{126}$ 3 13.1 179°.34 0°.6/13.7 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.61 | − 1 17.8 | 1.997 | 2.839 | 12.4 | 21.6 |
| 2 21 | 11 49.96 | − 0 45.6 | 1.921 | 2.840 | 8.9 | 21.4 |
| 3 2 | 11 42.50 | − 0 0.5 | 1.871 | 2.841 | 5.0 | 21.1 |
| 3 12 | 11 33.99 | + 0 53.1 | 1.849 | 2.841 | 1.0 | 20.9 |
| 3 22 | 11 25.33 | + 1 49.3 | 1.856 | 2.841 | 3.6 | 21.1 |
| 4 1 | 11 17.45 | + 2 42.0 | 1.891 | 2.841 | 7.7 | 21.3 |
| 4 11 | 11 11.16 | + 3 25.7 | 1.953 | 2.840 | 11.3 | 21.5 |
| 4 21 | 11 6.96 | + 3 57.1 | 2.036 | 2.839 | 14.5 | 21.7 |

**499894** 2011 $FC_{134}$ 3 13.1 40°.03 0°.0/13.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.79 | + 1 22.1 | 1.727 | 2.584 | 13.3 | 21.2 |
| 2 21 | 11 50.25 | + 1 41.2 | 1.660 | 2.588 | 9.5 | 21.0 |
| 3 2 | 11 42.70 | + 2 11.6 | 1.618 | 2.592 | 5.1 | 20.7 |
| 3 12 | 11 34.01 | + 2 48.1 | 1.603 | 2.596 | 0.5 | 20.4 |
| 3 22 | 11 25.21 | + 3 25.0 | 1.616 | 2.601 | 4.2 | 20.7 |
| 4 1 | 11 17.35 | + 3 56.5 | 1.656 | 2.606 | 8.5 | 21.0 |
| 4 11 | 11 11.32 | + 4 17.8 | 1.720 | 2.611 | 12.4 | 21.2 |
| 4 21 | 11 7.62 | + 4 26.4 | 1.806 | 2.616 | 15.7 | 21.4 |

**70658** 1999 $TZ_{260}$ 3 13.1 239°.89 0°.3/12.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.40 | + 0 53.3 | 1.904 | 2.754 | 12.6 | 20.2 |
| 2 21 | 11 50.74 | + 1 40.3 | 1.814 | 2.739 | 9.0 | 20.0 |
| 3 2 | 11 43.05 | + 2 40.8 | 1.749 | 2.723 | 4.9 | 19.7 |
| 3 12 | 11 34.06 | + 3 49.1 | 1.713 | 2.706 | 0.5 | 19.3 |
| 3 22 | 11 24.73 | + 4 58.3 | 1.706 | 2.689 | 4.3 | 19.6 |
| 4 1 | 11 16.11 | + 6 1.1 | 1.727 | 2.672 | 8.7 | 19.8 |
| 4 11 | 11 9.14 | + 6 51.6 | 1.774 | 2.653 | 12.7 | 20.0 |
| 4 21 | 11 4.41 | + 7 26.0 | 1.842 | 2.634 | 16.1 | 20.2 |

**312994** 1999 $TG_{175}$ 3 13.1 168°.76 0°.9/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.76 | + 3 23.3 | 2.138 | 2.987 | 11.4 | 22.1 |
| 2 21 | 11 51.34 | + 4 4.0 | 2.067 | 2.992 | 8.0 | 21.9 |
| 3 2 | 11 43.19 | + 4 53.0 | 2.023 | 2.997 | 4.2 | 21.7 |
| 3 12 | 11 34.06 | + 5 45.0 | 2.008 | 3.001 | 0.9 | 21.4 |
| 3 22 | 11 24.84 | + 6 34.5 | 2.023 | 3.004 | 4.1 | 21.7 |
| 4 1 | 11 16.41 | + 7 16.1 | 2.067 | 3.006 | 7.9 | 21.9 |
| 4 11 | 11 9.55 | + 7 46.0 | 2.138 | 3.007 | 11.3 | 22.1 |
| 4 21 | 11 4.72 | + 8 2.3 | 2.231 | 3.008 | 14.1 | 22.3 |

**199270** 2006 $BC_{29}$ 3 13.1 57°.89 2°.5/10.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.54 | + 5 36.0 | 1.711 | 2.583 | 12.6 | 20.0 |
| 2 21 | 11 47.91 | + 6 57.7 | 1.657 | 2.594 | 8.7 | 19.8 |
| 3 2 | 11 41.42 | + 8 28.2 | 1.628 | 2.605 | 4.6 | 19.5 |
| 3 12 | 11 33.90 | + 9 58.7 | 1.627 | 2.616 | 2.6 | 19.4 |
| 3 22 | 11 26.34 | +11 20.5 | 1.653 | 2.627 | 5.8 | 19.7 |
| 4 1 | 11 19.74 | +12 26.2 | 1.707 | 2.639 | 9.8 | 19.9 |
| 4 11 | 11 14.88 | +13 11.6 | 1.784 | 2.650 | 13.3 | 20.1 |
| 4 21 | 11 12.21 | +13 35.7 | 1.882 | 2.662 | 16.3 | 20.4 |

**409015** 2003 $AZ_{81}$ 3 13.1 81°.12 1°.5/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.51 | − 3 26.2 | 1.716 | 2.555 | 14.2 | 21.0 |
| 2 21 | 11 51.29 | − 3 0.1 | 1.665 | 2.581 | 10.3 | 20.8 |
| 3 2 | 11 43.17 | − 2 18.4 | 1.639 | 2.606 | 6.0 | 20.6 |
| 3 12 | 11 34.07 | − 1 26.1 | 1.640 | 2.631 | 1.9 | 20.4 |
| 3 22 | 11 25.05 | − 0 29.8 | 1.669 | 2.656 | 3.8 | 20.6 |
| 4 1 | 11 17.14 | + 0 23.6 | 1.726 | 2.680 | 8.0 | 20.9 |
| 4 11 | 11 11.14 | + 1 8.3 | 1.809 | 2.704 | 11.7 | 21.2 |
| 4 21 | 11 7.46 | + 1 40.6 | 1.913 | 2.728 | 14.8 | 21.4 |

**132264** 2002 $EO_{124}$ 3 13.1 232°.45 0°.8/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.34 | − 1 43.3 | 1.900 | 2.740 | 13.0 | 20.6 |
| 2 21 | 11 51.41 | − 1 14.9 | 1.810 | 2.728 | 9.5 | 20.4 |
| 3 2 | 11 43.42 | − 0 32.0 | 1.745 | 2.715 | 5.4 | 20.1 |
| 3 12 | 11 34.12 | + 0 21.3 | 1.708 | 2.701 | 1.2 | 19.8 |
| 3 22 | 11 24.48 | + 1 18.8 | 1.701 | 2.687 | 3.9 | 20.0 |
| 4 1 | 11 15.58 | + 2 14.0 | 1.721 | 2.671 | 8.3 | 20.2 |
| 4 11 | 11 8.36 | + 3 0.6 | 1.768 | 2.656 | 12.3 | 20.4 |
| 4 21 | 11 3.42 | + 3 34.4 | 1.836 | 2.639 | 15.8 | 20.6 |

**17861** 1998 $KN_{24}$ 3 13.1 193°.17 5°.5/ 6.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.61 | +21 49.9 | 2.625 | 3.486 | 9.1 | 17.9 |
| 2 21 | 11 49.63 | +22 41.2 | 2.567 | 3.485 | 7.0 | 17.8 |
| 3 2 | 11 42.20 | +23 26.3 | 2.537 | 3.484 | 5.6 | 17.7 |
| 3 12 | 11 33.98 | +23 59.8 | 2.535 | 3.482 | 5.8 | 17.7 |
| 3 22 | 11 25.73 | +24 17.5 | 2.562 | 3.481 | 7.4 | 17.8 |
| 4 1 | 11 18.19 | +24 17.3 | 2.615 | 3.479 | 9.6 | 17.9 |
| 4 11 | 11 12.00 | +23 59.2 | 2.692 | 3.476 | 11.7 | 18.1 |
| 4 21 | 11 7.57 | +23 24.8 | 2.789 | 3.474 | 13.6 | 18.2 |

**141145** 2001 $XQ_{104}$ 3 13.1 233°.92 0°.7/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.90 | + 3 30.1 | 2.630 | 3.480 | 9.5 | 21.3 |
| 2 21 | 11 47.76 | + 4 7.3 | 2.543 | 3.469 | 6.7 | 21.1 |
| 3 2 | 11 41.25 | + 4 51.7 | 2.484 | 3.458 | 3.5 | 20.9 |
| 3 12 | 11 33.90 | + 5 39.1 | 2.454 | 3.447 | 0.8 | 20.7 |
| 3 22 | 11 26.38 | + 6 25.1 | 2.454 | 3.435 | 3.5 | 20.9 |
| 4 1 | 11 19.40 | + 7 5.3 | 2.484 | 3.423 | 6.7 | 21.1 |
| 4 11 | 11 13.56 | + 7 36.3 | 2.541 | 3.410 | 9.7 | 21.2 |
| 4 21 | 11 9.31 | + 7 55.9 | 2.620 | 3.397 | 12.3 | 21.4 |

**146152** 2000 $SU_{147}$ 3 13.1 165°.83 2°.2/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.14 | + 9 41.7 | 2.642 | 3.500 | 9.2 | 20.1 |
| 2 21 | 11 49.24 | +10 9.1 | 2.573 | 3.503 | 6.4 | 20.0 |
| 3 2 | 11 41.98 | +10 38.3 | 2.532 | 3.505 | 3.6 | 19.8 |
| 3 12 | 11 33.97 | +11 5.1 | 2.520 | 3.507 | 2.2 | 19.7 |
| 3 22 | 11 25.90 | +11 25.8 | 2.539 | 3.509 | 4.4 | 19.8 |
| 4 1 | 11 18.48 | +11 37.2 | 2.587 | 3.511 | 7.3 | 20.0 |
| 4 11 | 11 12.30 | +11 37.6 | 2.661 | 3.512 | 9.9 | 20.2 |
| 4 21 | 11 7.76 | +11 26.5 | 2.758 | 3.513 | 12.2 | 20.4 |

**308734** 2006 $HU_{73}$ 3 13.1 17°.93 3°.4/10.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.30 | + 7 23.1 | 1.286 | 2.169 | 15.1 | 20.8 |
| 2 21 | 11 50.41 | + 8 28.2 | 1.230 | 2.171 | 10.6 | 20.5 |
| 3 2 | 11 42.98 | + 9 42.3 | 1.196 | 2.174 | 5.8 | 20.2 |
| 3 12 | 11 34.08 | +10 55.1 | 1.188 | 2.177 | 3.5 | 20.1 |
| 3 22 | 11 25.05 | +11 56.3 | 1.205 | 2.180 | 7.3 | 20.3 |
| 4 1 | 11 17.28 | +12 37.8 | 1.246 | 2.184 | 12.1 | 20.6 |
| 4 11 | 11 11.85 | +12 55.6 | 1.309 | 2.188 | 16.4 | 20.9 |
| 4 21 | 11 9.30 | +12 49.9 | 1.390 | 2.192 | 20.0 | 21.1 |

**427008** 2014 $SJ_{165}$ 3 13.1 163°.86 0°.9/12.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.77 | + 2 45.6 | 2.013 | 2.865 | 11.9 | 22.2 |
| 2 21 | 11 50.73 | + 3 35.4 | 1.944 | 2.870 | 8.4 | 22.0 |
| 3 2 | 11 42.91 | + 4 35.0 | 1.901 | 2.876 | 4.4 | 21.8 |
| 3 12 | 11 34.07 | + 5 38.5 | 1.887 | 2.880 | 0.9 | 21.5 |
| 3 22 | 11 25.13 | + 6 39.4 | 1.903 | 2.884 | 4.3 | 21.8 |
| 4 1 | 11 17.03 | + 7 31.6 | 1.948 | 2.887 | 8.2 | 22.0 |
| 4 11 | 11 10.54 | + 8 10.6 | 2.018 | 2.890 | 11.7 | 22.2 |
| 4 21 | 11 6.15 | + 8 34.4 | 2.110 | 2.892 | 14.7 | 22.4 |

**341635** 2007 $VS_{18}$ 3 13.1 331°.38 1°.1/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 52.64 | + 3 41.2 | 1.951 | 2.813 | 11.8 | 20.7 |
| 2 21 | 11 47.92 | + 4 22.0 | 1.877 | 2.809 | 8.3 | 20.5 |
| 3 2 | 11 41.45 | + 5 12.1 | 1.828 | 2.804 | 4.4 | 20.2 |
| 3 12 | 11 33.93 | + 6 5.7 | 1.807 | 2.799 | 1.1 | 20.0 |
| 3 22 | 11 26.25 | + 6 56.8 | 1.814 | 2.795 | 4.4 | 20.2 |
| 4 1 | 11 19.33 | + 7 39.5 | 1.848 | 2.791 | 8.4 | 20.4 |
| 4 11 | 11 13.94 | + 8 9.4 | 1.908 | 2.787 | 12.0 | 20.7 |
| 4 21 | 11 10.58 | + 8 24.4 | 1.988 | 2.784 | 15.0 | 20.8 |

**21430** Brubrew 3 13.1 204°.28 3°.5/16.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.71 | − 8 57.9 | 1.890 | 2.704 | 14.2 | 19.2 |
| 2 21 | 11 50.94 | − 8 48.4 | 1.805 | 2.701 | 10.9 | 19.0 |
| 3 2 | 11 43.15 | − 8 19.1 | 1.744 | 2.697 | 7.2 | 18.8 |
| 3 12 | 11 34.11 | − 7 32.5 | 1.710 | 2.692 | 4.0 | 18.6 |
| 3 22 | 11 24.80 | − 6 33.2 | 1.704 | 2.687 | 4.3 | 18.6 |
| 4 1 | 11 16.28 | − 5 28.0 | 1.726 | 2.681 | 7.8 | 18.8 |
| 4 11 | 11 9.47 | − 4 24.7 | 1.774 | 2.675 | 11.6 | 19.0 |
| 4 21 | 11 4.93 | − 3 29.3 | 1.844 | 2.668 | 14.9 | 19.2 |

**139135** 2001 $FK_{76}$ 3 13.1 306°.38 3°.0/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.32 | + 7 55.9 | 1.452 | 2.329 | 14.1 | 19.4 |
| 2 21 | 11 51.13 | + 8 40.1 | 1.376 | 2.315 | 10.0 | 19.2 |
| 3 2 | 11 43.43 | + 9 32.0 | 1.325 | 2.301 | 5.5 | 18.9 |
| 3 12 | 11 34.15 | +10 23.5 | 1.299 | 2.288 | 3.1 | 18.7 |
| 3 22 | 11 24.52 | +11 6.1 | 1.299 | 2.275 | 6.7 | 18.9 |
| 4 1 | 11 15.91 | +11 32.7 | 1.325 | 2.262 | 11.5 | 19.1 |
| 4 11 | 11 9.44 | +11 39.3 | 1.373 | 2.250 | 15.9 | 19.3 |
| 4 21 | 11 5.77 | +11 25.2 | 1.439 | 2.238 | 19.6 | 19.5 |

**35327** 1997 $EP_{13}$ 3 13.1 102°.26 0°.3/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.07 | − 0 37.5 | 2.429 | 3.271 | 10.5 | 20.0 |
| 2 21 | 11 47.16 | − 0 0.1 | 2.361 | 3.281 | 7.5 | 19.8 |
| 3 2 | 11 40.90 | + 0 47.3 | 2.320 | 3.292 | 4.1 | 19.6 |
| 3 12 | 11 33.89 | + 1 40.7 | 2.308 | 3.302 | 0.6 | 19.3 |
| 3 22 | 11 26.82 | + 2 35.0 | 2.326 | 3.312 | 3.1 | 19.5 |
| 4 1 | 11 20.41 | + 3 25.5 | 2.373 | 3.321 | 6.4 | 19.8 |
| 4 11 | 11 15.25 | + 4 7.9 | 2.447 | 3.331 | 9.5 | 20.0 |
| 4 21 | 11 11.73 | + 4 39.5 | 2.544 | 3.341 | 12.1 | 20.2 |

**456041** 2005 $YE_{180}$ 3 13.1 45°.58 16°.4/24.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.56 | +34 54.8 | 1.099 | 1.975 | 17.8 | 19.6 |
| 2 21 | 11 51.11 | +38 23.4 | 1.100 | 1.993 | 16.5 | 19.6 |
| 3 2 | 11 43.45 | +41 13.1 | 1.123 | 2.012 | 16.8 | 19.7 |
| 3 12 | 11 34.13 | +43 8.5 | 1.166 | 2.032 | 18.3 | 19.8 |
| 3 22 | 11 25.04 | +44 4.3 | 1.227 | 2.052 | 20.3 | 20.0 |
| 4 1 | 11 17.91 | +44 4.0 | 1.304 | 2.073 | 22.4 | 20.2 |
| 4 11 | 11 13.85 | +43 17.2 | 1.392 | 2.094 | 24.2 | 20.5 |
| 4 21 | 11 13.17 | +41 54.6 | 1.490 | 2.116 | 25.6 | 20.7 |

**19212** 1993 $FL_{18}$ 3 13.1 117°.14 2°.6/10.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.00 | + 8 13.0 | 1.970 | 2.837 | 11.4 | 18.5 |
| 2 21 | 11 49.49 | + 9 8.7 | 1.910 | 2.845 | 8.0 | 18.3 |
| 3 2 | 11 42.23 | +10 9.3 | 1.877 | 2.852 | 4.4 | 18.1 |
| 3 12 | 11 34.02 | +11 7.8 | 1.872 | 2.859 | 2.7 | 18.0 |
| 3 22 | 11 25.76 | +11 58.0 | 1.895 | 2.866 | 5.5 | 18.2 |
| 4 1 | 11 18.36 | +12 34.6 | 1.946 | 2.873 | 9.1 | 18.4 |
| 4 11 | 11 12.58 | +12 54.8 | 2.022 | 2.880 | 12.3 | 18.7 |
| 4 21 | 11 8.87 | +12 58.1 | 2.118 | 2.886 | 15.1 | 18.9 |

**348909** 2006 $SE_{402}$ 3 13.1 152°.09 2°.9/ 8.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.97 | +12 29.3 | 3.117 | 3.979 | 7.8 | 21.9 |
| 2 21 | 11 46.87 | +13 33.1 | 3.058 | 3.988 | 5.5 | 21.8 |
| 3 2 | 11 40.67 | +14 37.3 | 3.028 | 3.997 | 3.4 | 21.6 |
| 3 12 | 11 33.87 | +15 37.3 | 3.029 | 4.005 | 3.0 | 21.6 |
| 3 22 | 11 27.03 | +16 28.9 | 3.061 | 4.013 | 4.8 | 21.8 |
| 4 1 | 11 20.71 | +17 8.8 | 3.121 | 4.021 | 7.0 | 21.9 |
| 4 11 | 11 15.42 | +17 35.3 | 3.208 | 4.028 | 9.2 | 22.1 |
| 4 21 | 11 11.47 | +17 48.1 | 3.316 | 4.034 | 11.0 | 22.2 |

**209482** 2004 $HH_{34}$ 3 13.1 19°.98 4°.8/ 8.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.87 | +13 13.4 | 1.641 | 2.523 | 12.4 | 19.6 |
| 2 21 | 11 48.23 | +14 17.2 | 1.592 | 2.531 | 8.8 | 19.4 |
| 3 2 | 11 41.63 | +15 21.1 | 1.568 | 2.539 | 5.6 | 19.3 |
| 3 12 | 11 33.97 | +16 16.5 | 1.570 | 2.548 | 5.0 | 19.2 |
| 3 22 | 11 26.30 | +16 56.4 | 1.599 | 2.558 | 7.7 | 19.4 |
| 4 1 | 11 19.67 | +17 16.1 | 1.654 | 2.569 | 11.2 | 19.6 |
| 4 11 | 11 14.90 | +17 14.1 | 1.730 | 2.580 | 14.4 | 19.9 |
| 4 21 | 11 12.42 | +16 51.9 | 1.825 | 2.592 | 17.2 | 20.1 |

**214071** 2004 $GQ_{29}$ 3 13.1 249°.47 3°.0/ 9.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.89 | +11 21.9 | 2.292 | 3.157 | 10.1 | 20.1 |
| 2 21 | 11 49.28 | +11 59.0 | 2.222 | 3.155 | 7.1 | 20.0 |
| 3 2 | 11 42.10 | +12 37.4 | 2.180 | 3.152 | 4.2 | 19.8 |
| 3 12 | 11 34.02 | +13 11.7 | 2.166 | 3.150 | 3.1 | 19.7 |
| 3 22 | 11 25.85 | +13 37.3 | 2.182 | 3.147 | 5.4 | 19.8 |
| 4 1 | 11 18.40 | +13 50.6 | 2.226 | 3.145 | 8.5 | 20.0 |
| 4 11 | 11 12.37 | +13 49.6 | 2.294 | 3.142 | 11.4 | 20.2 |
| 4 21 | 11 8.19 | +13 34.4 | 2.384 | 3.140 | 13.9 | 20.4 |

**410026** 2006 $XX_9$ 3 13.1 91°.68 2°.1/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.71 | − 5 25.2 | 1.855 | 2.683 | 13.8 | 21.4 |
| 2 21 | 11 51.36 | − 5 3.3 | 1.801 | 2.709 | 10.2 | 21.2 |
| 3 2 | 11 43.21 | − 4 25.1 | 1.772 | 2.734 | 6.2 | 21.0 |
| 3 12 | 11 34.13 | − 3 34.8 | 1.770 | 2.759 | 2.5 | 20.8 |
| 3 22 | 11 25.11 | − 2 38.3 | 1.797 | 2.783 | 3.7 | 20.9 |
| 4 1 | 11 17.12 | − 1 42.2 | 1.853 | 2.807 | 7.5 | 21.2 |
| 4 11 | 11 10.93 | − 0 52.7 | 1.935 | 2.831 | 11.0 | 21.5 |
| 4 21 | 11 6.95 | − 0 13.9 | 2.039 | 2.854 | 14.0 | 21.7 |

**390651** 2002 $PR_{167}$ 3 13.1 251°.63 1°.4/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.45 | + 2 48.2 | 1.456 | 2.322 | 14.8 | 21.3 |
| 2 21 | 11 51.99 | + 3 46.5 | 1.375 | 2.308 | 10.5 | 21.0 |
| 3 2 | 11 43.95 | + 5 0.4 | 1.318 | 2.294 | 5.6 | 20.7 |
| 3 12 | 11 34.23 | + 6 21.8 | 1.286 | 2.279 | 1.4 | 20.3 |
| 3 22 | 11 24.08 | + 7 40.9 | 1.282 | 2.264 | 5.8 | 20.6 |
| 4 1 | 11 14.87 | + 8 47.9 | 1.304 | 2.248 | 11.0 | 20.8 |
| 4 11 | 11 7.81 | + 9 35.8 | 1.349 | 2.232 | 15.7 | 21.1 |
| 4 21 | 11 3.61 | +10 1.5 | 1.413 | 2.215 | 19.7 | 21.3 |

**165509** 2001 $CO_4$ 3 13.1 44°.24 0°.4/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.62 | + 2 29.6 | 1.245 | 2.116 | 16.4 | 19.0 |
| 2 21 | 11 52.65 | + 2 42.9 | 1.198 | 2.132 | 11.6 | 18.7 |
| 3 2 | 11 44.12 | + 3 8.7 | 1.172 | 2.148 | 6.2 | 18.5 |
| 3 12 | 11 34.23 | + 3 40.3 | 1.172 | 2.165 | 0.6 | 18.1 |
| 3 22 | 11 24.40 | + 4 10.6 | 1.197 | 2.183 | 5.2 | 18.5 |
| 4 1 | 11 16.03 | + 4 32.5 | 1.247 | 2.201 | 10.4 | 18.9 |
| 4 11 | 11 10.17 | + 4 41.5 | 1.320 | 2.219 | 14.9 | 19.2 |
| 4 21 | 11 7.25 | + 4 35.6 | 1.411 | 2.238 | 18.5 | 19.4 |

**431603** 2007 $VN_{213}$ 3 13.1 195°.93 4°.3/ 7.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.12 | +15 54.6 | 2.482 | 3.350 | 9.4 | 21.3 |
| 2 21 | 11 48.66 | +16 55.7 | 2.419 | 3.348 | 6.8 | 21.2 |
| 3 2 | 11 41.75 | +17 55.4 | 2.382 | 3.346 | 4.7 | 21.0 |
| 3 12 | 11 34.00 | +18 47.4 | 2.375 | 3.343 | 4.6 | 21.0 |
| 3 22 | 11 26.16 | +19 26.8 | 2.397 | 3.341 | 6.5 | 21.1 |
| 4 1 | 11 19.00 | +19 50.2 | 2.447 | 3.338 | 9.1 | 21.3 |
| 4 11 | 11 13.15 | +19 56.2 | 2.520 | 3.335 | 11.6 | 21.4 |
| 4 21 | 11 9.05 | +19 45.4 | 2.614 | 3.331 | 13.7 | 21.6 |

**299317** 2005 $QM_{96}$ 3 13.1 218°.32 0°.2/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.46 | + 2 18.2 | 2.768 | 3.611 | 9.3 | 21.6 |
| 2 21 | 11 48.10 | + 2 41.7 | 2.683 | 3.605 | 6.6 | 21.4 |
| 3 2 | 11 41.42 | + 3 12.0 | 2.625 | 3.598 | 3.5 | 21.2 |
| 3 12 | 11 33.98 | + 3 46.0 | 2.597 | 3.590 | 0.4 | 20.9 |
| 3 22 | 11 26.39 | + 4 19.8 | 2.599 | 3.582 | 3.0 | 21.2 |
| 4 1 | 11 19.32 | + 4 49.6 | 2.632 | 3.574 | 6.2 | 21.3 |
| 4 11 | 11 13.36 | + 5 12.3 | 2.691 | 3.566 | 9.1 | 21.5 |
| 4 21 | 11 8.92 | + 5 26.0 | 2.774 | 3.557 | 11.5 | 21.7 |

**151739** 2003 $CU_9$ 3 13.1 330°.32 3°.2/10.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.87 | + 8 22.5 | 1.470 | 2.349 | 13.8 | 19.8 |
| 2 21 | 11 50.02 | + 9 7.0 | 1.399 | 2.339 | 9.8 | 19.5 |
| 3 2 | 11 42.80 | + 9 58.3 | 1.352 | 2.328 | 5.4 | 19.2 |
| 3 12 | 11 34.12 | +10 48.3 | 1.330 | 2.319 | 3.2 | 19.1 |
| 3 22 | 11 25.18 | +11 28.8 | 1.335 | 2.310 | 6.7 | 19.3 |
| 4 1 | 11 17.24 | +11 53.1 | 1.365 | 2.301 | 11.3 | 19.5 |
| 4 11 | 11 11.39 | +11 57.7 | 1.417 | 2.294 | 15.5 | 19.7 |
| 4 21 | 11 8.21 | +11 42.1 | 1.487 | 2.287 | 19.0 | 19.9 |

**501399** 2013 $YH_{92}$ 3 13.1 50°.62 3°.8/ 8.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.38 | +10 38.5 | 1.867 | 2.744 | 11.5 | 21.1 |
| 2 21 | 11 47.70 | +11 59.0 | 1.817 | 2.755 | 8.0 | 20.9 |
| 3 2 | 11 41.29 | +13 22.4 | 1.794 | 2.767 | 4.8 | 20.7 |
| 3 12 | 11 33.96 | +14 40.3 | 1.798 | 2.779 | 4.1 | 20.7 |
| 3 22 | 11 26.60 | +15 45.3 | 1.830 | 2.791 | 6.7 | 20.8 |
| 4 1 | 11 20.14 | +16 32.0 | 1.888 | 2.803 | 10.0 | 21.1 |
| 4 11 | 11 15.31 | +16 58.0 | 1.970 | 2.816 | 13.1 | 21.3 |
| 4 21 | 11 12.54 | +17 3.5 | 2.072 | 2.828 | 15.7 | 21.5 |

**242833** 2006 $DW_{42}$ 3 13.1 274°.28 0°.2/12.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.12 | + 0 55.0 | 1.563 | 2.421 | 14.4 | 21.3 |
| 2 21 | 11 51.72 | + 1 30.1 | 1.471 | 2.400 | 10.4 | 21.0 |
| 3 2 | 11 43.82 | + 2 20.7 | 1.403 | 2.377 | 5.7 | 20.7 |
| 3 12 | 11 34.24 | + 3 21.1 | 1.361 | 2.354 | 0.5 | 20.2 |
| 3 22 | 11 24.12 | + 4 23.7 | 1.346 | 2.331 | 4.9 | 20.5 |
| 4 1 | 11 14.79 | + 5 20.1 | 1.359 | 2.308 | 10.1 | 20.7 |
| 4 11 | 11 7.44 | + 6 2.9 | 1.394 | 2.284 | 14.8 | 20.9 |
| 4 21 | 11 2.81 | + 6 28.2 | 1.450 | 2.260 | 18.9 | 21.1 |

**222474** 2001 $SE_{21}$ 3 13.1 216°.80 3°.3/ 9.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.20 | +12 33.7 | 2.423 | 3.281 | 9.9 | 21.7 |
| 2 21 | 11 52.33 | +13 15.3 | 2.343 | 3.270 | 7.1 | 21.5 |
| 3 2 | 11 43.78 | +13 57.6 | 2.290 | 3.259 | 4.3 | 21.3 |
| 3 12 | 11 34.22 | +14 35.0 | 2.267 | 3.247 | 3.4 | 21.3 |
| 3 22 | 11 24.47 | +15 2.7 | 2.274 | 3.234 | 5.7 | 21.4 |
| 4 1 | 11 15.41 | +15 17.0 | 2.311 | 3.220 | 8.7 | 21.6 |
| 4 11 | 11 7.79 | +15 16.2 | 2.373 | 3.206 | 11.6 | 21.7 |
| 4 21 | 11 2.09 | +15 0.5 | 2.457 | 3.190 | 14.1 | 21.9 |

**281787** 2009 $UG_{35}$ 3 13.1 77°.28 1°.1/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.26 | + 2 57.7 | 1.219 | 2.091 | 16.6 | 20.7 |
| 2 21 | 11 53.26 | + 3 36.6 | 1.167 | 2.102 | 11.7 | 20.5 |
| 3 2 | 11 44.53 | + 4 29.0 | 1.136 | 2.113 | 6.2 | 20.2 |
| 3 12 | 11 34.29 | + 5 26.6 | 1.131 | 2.124 | 1.2 | 19.9 |
| 3 22 | 11 24.02 | + 6 19.9 | 1.151 | 2.135 | 5.8 | 20.2 |
| 4 1 | 11 15.20 | + 7 0.6 | 1.196 | 2.146 | 11.2 | 20.5 |
| 4 11 | 11 8.96 | + 7 23.3 | 1.263 | 2.157 | 15.8 | 20.8 |
| 4 21 | 11 5.82 | + 7 26.4 | 1.349 | 2.167 | 19.6 | 21.1 |

**81415** 2000 $GV_{97}$ 3 13.1 70°.16 2°.1/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.93 | − 4 52.6 | 1.649 | 2.490 | 14.6 | 19.5 |
| 2 21 | 11 49.77 | − 4 29.4 | 1.579 | 2.494 | 10.8 | 19.3 |
| 3 2 | 11 42.54 | − 3 47.6 | 1.533 | 2.499 | 6.6 | 19.0 |
| 3 12 | 11 34.09 | − 2 51.6 | 1.513 | 2.503 | 2.5 | 18.8 |
| 3 22 | 11 25.49 | − 1 48.2 | 1.521 | 2.508 | 4.0 | 18.9 |
| 4 1 | 11 17.85 | − 0 45.0 | 1.556 | 2.513 | 8.3 | 19.1 |
| 4 11 | 11 12.08 | + 0 10.5 | 1.615 | 2.518 | 12.4 | 19.4 |
| 4 21 | 11 8.70 | + 0 53.3 | 1.696 | 2.523 | 15.9 | 19.6 |

**147387** 2003 $EJ_{53}$ 3 13.1 30°.08 5°.6/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.31 | +12 52.7 | 1.594 | 2.478 | 12.6 | 19.2 |
| 2 21 | 11 47.98 | +14 52.4 | 1.542 | 2.481 | 9.0 | 19.0 |
| 3 2 | 11 41.58 | +16 54.8 | 1.515 | 2.485 | 6.1 | 18.9 |
| 3 12 | 11 34.00 | +18 47.9 | 1.517 | 2.488 | 6.1 | 18.9 |
| 3 22 | 11 26.30 | +20 21.2 | 1.545 | 2.492 | 9.0 | 19.0 |
| 4 1 | 11 19.60 | +21 27.5 | 1.598 | 2.496 | 12.6 | 19.2 |
| 4 11 | 11 14.79 | +22 4.4 | 1.672 | 2.501 | 15.8 | 19.5 |
| 4 21 | 11 12.36 | +22 13.4 | 1.764 | 2.505 | 18.6 | 19.7 |

**204427** 2004 $XC_{10}$ 3 13.1 149°.30 1°.6/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.42 | + 4 39.8 | 1.838 | 2.696 | 12.6 | 20.9 |
| 2 21 | 11 52.01 | + 5 31.7 | 1.776 | 2.706 | 8.8 | 20.7 |
| 3 2 | 11 43.65 | + 6 32.0 | 1.739 | 2.715 | 4.6 | 20.5 |
| 3 12 | 11 34.21 | + 7 34.1 | 1.731 | 2.723 | 1.6 | 20.3 |
| 3 22 | 11 24.70 | + 8 30.9 | 1.752 | 2.731 | 5.0 | 20.5 |
| 4 1 | 11 16.17 | + 9 16.3 | 1.801 | 2.738 | 9.0 | 20.8 |
| 4 11 | 11 9.46 | + 9 46.3 | 1.876 | 2.744 | 12.7 | 21.0 |
| 4 21 | 11 5.04 | + 9 59.7 | 1.971 | 2.749 | 15.7 | 21.2 |

**191832** 2004 $VS_7$ 3 13.1 201°.39 2°.5/10.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.84 | + 8 23.6 | 2.178 | 3.042 | 10.6 | 20.5 |
| 2 21 | 11 49.34 | + 9 17.7 | 2.106 | 3.039 | 7.4 | 20.3 |
| 3 2 | 11 42.19 | +10 16.4 | 2.061 | 3.036 | 4.1 | 20.1 |
| 3 12 | 11 34.07 | +11 13.8 | 2.046 | 3.033 | 2.6 | 19.9 |
| 3 22 | 11 25.82 | +12 3.9 | 2.059 | 3.029 | 5.2 | 20.1 |
| 4 1 | 11 18.28 | +12 41.7 | 2.100 | 3.025 | 8.6 | 20.3 |
| 4 11 | 11 12.21 | +13 4.1 | 2.167 | 3.021 | 11.8 | 20.5 |
| 4 21 | 11 8.07 | +13 10.5 | 2.255 | 3.016 | 14.5 | 20.7 |

**321726** 2010 $KJ_{50}$ 3 13.1 139°.29 1°.0/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.30 | − 2 15.5 | 1.967 | 2.805 | 12.8 | 22.1 |
| 2 21 | 11 51.13 | − 1 45.4 | 1.900 | 2.816 | 9.2 | 21.9 |
| 3 2 | 11 43.15 | − 1 1.8 | 1.859 | 2.827 | 5.3 | 21.6 |
| 3 12 | 11 34.17 | − 0 9.2 | 1.845 | 2.838 | 1.3 | 21.4 |
| 3 22 | 11 25.11 | + 0 46.5 | 1.861 | 2.848 | 3.6 | 21.6 |
| 4 1 | 11 16.94 | + 1 39.2 | 1.906 | 2.857 | 7.6 | 21.8 |
| 4 11 | 11 10.44 | + 2 23.5 | 1.977 | 2.865 | 11.2 | 22.1 |
| 4 21 | 11 6.08 | + 2 55.9 | 2.071 | 2.873 | 14.2 | 22.3 |

**345976** 2007 $TZ_{117}$ 3 13.1 121°.57 0°.8/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.76 | − 3 8.3 | 2.348 | 3.184 | 11.0 | 21.1 |
| 2 21 | 11 47.03 | − 2 20.7 | 2.277 | 3.192 | 8.0 | 20.9 |
| 3 2 | 11 40.88 | − 1 20.1 | 2.231 | 3.199 | 4.6 | 20.7 |
| 3 12 | 11 33.94 | − 0 11.1 | 2.215 | 3.207 | 1.2 | 20.4 |
| 3 22 | 11 26.92 | + 1 0.7 | 2.228 | 3.214 | 3.0 | 20.6 |
| 4 1 | 11 20.56 | + 2 9.6 | 2.270 | 3.221 | 6.5 | 20.8 |
| 4 11 | 11 15.48 | + 3 10.2 | 2.340 | 3.228 | 9.7 | 21.0 |
| 4 21 | 11 12.08 | + 3 59.0 | 2.432 | 3.235 | 12.4 | 21.2 |

**100723** 1998 $BM_{35}$ 3 13.1 72°.96 3°.0/10.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.67 | + 5 57.9 | 1.378 | 2.254 | 14.8 | 19.9 |
| 2 21 | 11 51.06 | + 7 21.7 | 1.337 | 2.275 | 10.2 | 19.7 |
| 3 2 | 11 43.19 | + 8 54.2 | 1.320 | 2.297 | 5.5 | 19.5 |
| 3 12 | 11 34.17 | +10 24.6 | 1.330 | 2.319 | 3.1 | 19.4 |
| 3 22 | 11 25.25 | +11 42.5 | 1.366 | 2.340 | 6.7 | 19.6 |
| 4 1 | 11 17.68 | +12 40.3 | 1.428 | 2.362 | 11.1 | 19.9 |
| 4 11 | 11 12.33 | +13 14.5 | 1.513 | 2.383 | 15.0 | 20.2 |
| 4 21 | 11 9.64 | +13 25.2 | 1.616 | 2.404 | 18.2 | 20.5 |

**15701** 1987 $RG_1$ 3 13.1 201°.88 0°.1/13.1 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.90 | + 0 23.3 | 2.030 | 2.875 | 12.1 | 18.9 |
| 2 21 | 11 50.93 | + 0 58.4 | 1.950 | 2.871 | 8.7 | 18.6 |
| 3 2 | 11 43.11 | + 1 45.3 | 1.895 | 2.867 | 4.7 | 18.4 |
| 3 12 | 11 34.18 | + 2 39.0 | 1.868 | 2.862 | 0.5 | 18.0 |
| 3 22 | 11 25.04 | + 3 33.9 | 1.871 | 2.856 | 3.8 | 18.3 |
| 4 1 | 11 16.66 | + 4 23.7 | 1.903 | 2.849 | 7.9 | 18.5 |
| 4 11 | 11 9.86 | + 5 3.5 | 1.961 | 2.842 | 11.6 | 18.7 |
| 4 21 | 11 5.16 | + 5 30.2 | 2.041 | 2.835 | 14.7 | 18.9 |

**265333** 2004 $PN_{37}$ 3 13.1 240°.62 0°.8/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.14 | + 2 21.9 | 1.956 | 2.813 | 12.0 | 21.0 |
| 2 21 | 11 49.04 | + 3 12.0 | 1.877 | 2.806 | 8.5 | 20.8 |
| 3 2 | 11 42.12 | + 4 13.2 | 1.823 | 2.798 | 4.5 | 20.5 |
| 3 12 | 11 34.09 | + 5 19.7 | 1.797 | 2.790 | 0.8 | 20.2 |
| 3 22 | 11 25.84 | + 6 24.8 | 1.800 | 2.782 | 4.3 | 20.5 |
| 4 1 | 11 18.33 | + 7 21.9 | 1.831 | 2.774 | 8.4 | 20.7 |
| 4 11 | 11 12.38 | + 8 5.7 | 1.887 | 2.765 | 12.1 | 20.9 |
| 4 21 | 11 8.52 | + 8 33.6 | 1.965 | 2.756 | 15.3 | 21.1 |

**233709** 2008 $SS_{95}$ 3 13.1 173°.50 1°.0/14.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.19 | − 2 28.8 | 2.320 | 3.154 | 11.2 | 21.4 |
| 2 21 | 11 48.79 | − 2 0.5 | 2.242 | 3.156 | 8.1 | 21.2 |
| 3 2 | 11 41.87 | − 1 20.1 | 2.190 | 3.158 | 4.7 | 21.0 |
| 3 12 | 11 34.06 | − 0 31.6 | 2.167 | 3.159 | 1.3 | 20.8 |
| 3 22 | 11 26.13 | + 0 20.5 | 2.174 | 3.160 | 3.1 | 20.9 |
| 4 1 | 11 18.86 | + 1 10.9 | 2.210 | 3.160 | 6.7 | 21.1 |
| 4 11 | 11 12.93 | + 1 54.7 | 2.273 | 3.161 | 9.9 | 21.3 |
| 4 21 | 11 8.79 | + 2 28.5 | 2.359 | 3.161 | 12.7 | 21.5 |

**498813** 2008 $UK_{329}$ 3 13.1 197°.51 0°.0/13.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.48 | + 0 43.3 | 2.624 | 3.463 | 9.9 | 22.5 |
| 2 21 | 11 48.88 | + 1 16.6 | 2.540 | 3.460 | 7.0 | 22.3 |
| 3 2 | 11 41.89 | + 1 58.7 | 2.484 | 3.456 | 3.8 | 22.1 |
| 3 12 | 11 34.07 | + 2 45.9 | 2.457 | 3.451 | 0.4 | 21.8 |
| 3 22 | 11 26.10 | + 3 33.7 | 2.462 | 3.446 | 3.1 | 22.1 |
| 4 1 | 11 18.71 | + 4 17.7 | 2.496 | 3.440 | 6.4 | 22.3 |
| 4 11 | 11 12.50 | + 4 54.0 | 2.557 | 3.433 | 9.4 | 22.4 |
| 4 21 | 11 7.91 | + 5 20.1 | 2.642 | 3.426 | 12.0 | 22.6 |

**347924** 2003 $BP_{93}$ 3 13.1 118°.40 4°.2/17.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.51 | −11 29.4 | 2.409 | 3.200 | 12.2 | 20.7 |
| 2 21 | 11 49.73 | −11 50.0 | 2.329 | 3.205 | 9.6 | 20.5 |
| 3 2 | 11 42.39 | −11 54.8 | 2.273 | 3.209 | 6.9 | 20.3 |
| 3 12 | 11 34.12 | −11 44.6 | 2.244 | 3.214 | 4.6 | 20.2 |
| 3 22 | 11 25.69 | −11 21.7 | 2.244 | 3.218 | 4.5 | 20.2 |
| 4 1 | 11 17.91 | −10 50.3 | 2.273 | 3.223 | 6.6 | 20.3 |
| 4 11 | 11 11.48 | −10 15.4 | 2.329 | 3.227 | 9.3 | 20.5 |
| 4 21 | 11 6.85 | − 9 41.7 | 2.409 | 3.231 | 11.9 | 20.7 |

**313707** 2003 $UT_{61}$ 3 13.1 193°.87 2°.6/10.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.72 | + 8 4.7 | 2.097 | 2.957 | 11.2 | 22.0 |
| 2 21 | 11 51.45 | + 9 3.3 | 2.024 | 2.955 | 7.8 | 21.7 |
| 3 2 | 11 43.37 | +10 7.2 | 1.977 | 2.952 | 4.3 | 21.5 |
| 3 12 | 11 34.22 | +11 10.0 | 1.960 | 2.948 | 2.7 | 21.4 |
| 3 22 | 11 24.91 | +12 5.0 | 1.973 | 2.943 | 5.4 | 21.6 |
| 4 1 | 11 16.38 | +12 47.0 | 2.014 | 2.937 | 9.0 | 21.8 |
| 4 11 | 11 9.44 | +13 12.7 | 2.081 | 2.931 | 12.3 | 22.0 |
| 4 21 | 11 4.59 | +13 21.3 | 2.168 | 2.924 | 15.1 | 22.1 |

**135301** 2001 $SO_{245}$ 3 13.1 144°.99 0°.2/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.75 | + 1 12.9 | 2.704 | 3.546 | 9.5 | 20.6 |
| 2 21 | 11 47.56 | + 1 50.1 | 2.633 | 3.555 | 6.7 | 20.5 |
| 3 2 | 11 41.12 | + 2 35.2 | 2.590 | 3.563 | 3.6 | 20.3 |
| 3 12 | 11 33.99 | + 3 24.3 | 2.577 | 3.571 | 0.3 | 20.0 |
| 3 22 | 11 26.80 | + 4 13.1 | 2.595 | 3.578 | 3.0 | 20.2 |
| 4 1 | 11 20.19 | + 4 57.4 | 2.642 | 3.585 | 6.1 | 20.5 |
| 4 11 | 11 14.73 | + 5 33.6 | 2.716 | 3.592 | 8.9 | 20.6 |
| 4 21 | 11 10.78 | + 5 59.5 | 2.814 | 3.598 | 11.3 | 20.8 |

**187976** 2001 $QK_{169}$ 3 13.1 169°.59 2°.0/11.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.07 | + 6 32.6 | 1.999 | 2.859 | 11.6 | 21.0 |
| 2 21 | 11 51.00 | + 7 16.2 | 1.931 | 2.862 | 8.1 | 20.8 |
| 3 2 | 11 43.12 | + 8 5.8 | 1.890 | 2.865 | 4.4 | 20.6 |
| 3 12 | 11 34.20 | + 8 55.6 | 1.877 | 2.867 | 2.0 | 20.4 |
| 3 22 | 11 25.18 | + 9 39.5 | 1.893 | 2.869 | 5.0 | 20.6 |
| 4 1 | 11 17.01 | +10 12.3 | 1.937 | 2.870 | 8.7 | 20.8 |
| 4 11 | 11 10.47 | +10 30.8 | 2.007 | 2.871 | 12.1 | 21.0 |
| 4 21 | 11 6.07 | +10 34.1 | 2.097 | 2.871 | 15.0 | 21.2 |

**79604** 1998 $RD_{46}$ 3 13.1 188°.72 0°.9/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.94 | − 1 35.4 | 2.201 | 3.034 | 11.7 | 20.2 |
| 2 21 | 11 51.55 | − 1 17.1 | 2.120 | 3.034 | 8.5 | 20.0 |
| 3 2 | 11 43.41 | − 0 47.2 | 2.064 | 3.032 | 4.9 | 19.8 |
| 3 12 | 11 34.24 | − 0 9.2 | 2.038 | 3.030 | 1.2 | 19.5 |
| 3 22 | 11 24.89 | + 0 32.1 | 2.041 | 3.027 | 3.4 | 19.7 |
| 4 1 | 11 16.26 | + 1 11.8 | 2.075 | 3.024 | 7.2 | 19.9 |
| 4 11 | 11 9.13 | + 1 45.0 | 2.135 | 3.019 | 10.6 | 20.1 |
| 4 21 | 11 4.00 | + 2 8.6 | 2.218 | 3.014 | 13.6 | 20.3 |

**488571** 2001 $XS_{219}$ 3 13.1 128°.63 3°.2/17.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.73 | −11 34.8 | 2.827 | 3.613 | 10.7 | 21.9 |
| 2 21 | 11 47.53 | −11 20.5 | 2.752 | 3.627 | 8.3 | 21.8 |
| 3 2 | 11 41.11 | −10 51.2 | 2.702 | 3.641 | 5.8 | 21.6 |
| 3 12 | 11 34.01 | −10 9.2 | 2.680 | 3.654 | 3.6 | 21.5 |
| 3 22 | 11 26.85 | − 9 17.6 | 2.689 | 3.667 | 3.5 | 21.5 |
| 4 1 | 11 20.26 | − 8 20.9 | 2.727 | 3.679 | 5.5 | 21.7 |
| 4 11 | 11 14.80 | − 7 24.0 | 2.793 | 3.691 | 8.0 | 21.8 |
| 4 21 | 11 10.82 | − 6 31.1 | 2.885 | 3.702 | 10.3 | 22.0 |

**176468** 2001 $XA_{147}$ 3 13.1 146°.65 0°.2/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 52.52 | + 1 24.2 | 2.792 | 3.634 | 9.2 | 21.3 |
| 2 21 | 11 47.38 | + 2 1.0 | 2.721 | 3.643 | 6.5 | 21.2 |
| 3 2 | 11 41.03 | + 2 45.4 | 2.678 | 3.651 | 3.5 | 21.0 |
| 3 12 | 11 34.00 | + 3 33.4 | 2.665 | 3.658 | 0.3 | 20.7 |
| 3 22 | 11 26.92 | + 4 21.1 | 2.682 | 3.665 | 2.9 | 21.0 |
| 4 1 | 11 20.40 | + 5 4.3 | 2.729 | 3.672 | 6.0 | 21.2 |
| 4 11 | 11 14.99 | + 5 39.7 | 2.804 | 3.679 | 8.7 | 21.4 |
| 4 21 | 11 11.05 | + 6 5.1 | 2.902 | 3.685 | 11.1 | 21.5 |

**289575** 2005 $EC_{312}$ 3 13.1 288°.07 1°.4/12.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.73 | + 4 6.3 | 1.527 | 2.395 | 14.1 | 21.0 |
| 2 21 | 11 51.40 | + 4 41.0 | 1.445 | 2.379 | 10.1 | 20.7 |
| 3 2 | 11 43.64 | + 5 27.1 | 1.387 | 2.363 | 5.4 | 20.4 |
| 3 12 | 11 34.29 | + 6 18.1 | 1.354 | 2.347 | 1.4 | 20.1 |
| 3 22 | 11 24.54 | + 7 6.2 | 1.349 | 2.331 | 5.5 | 20.3 |
| 4 1 | 11 15.69 | + 7 44.1 | 1.370 | 2.315 | 10.4 | 20.6 |
| 4 11 | 11 8.87 | + 8 6.1 | 1.414 | 2.300 | 14.9 | 20.8 |
| 4 21 | 11 4.77 | + 8 10.1 | 1.477 | 2.284 | 18.8 | 21.0 |

**462789** 2010 $LY_{96}$ 3 13.1 171°.36 0°.2/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.13 | − 2 33.2 | 1.933 | 2.775 | 12.7 | 22.0 |
| 2 21 | 11 49.01 | − 1 14.2 | 1.858 | 2.778 | 9.1 | 21.8 |
| 3 2 | 11 42.09 | + 0 21.9 | 1.810 | 2.781 | 5.0 | 21.5 |
| 3 12 | 11 34.12 | + 2 8.1 | 1.790 | 2.783 | 0.6 | 21.2 |
| 3 22 | 11 26.00 | + 3 55.9 | 1.800 | 2.785 | 3.9 | 21.5 |
| 4 1 | 11 18.68 | + 5 36.5 | 1.839 | 2.786 | 8.1 | 21.7 |
| 4 11 | 11 12.94 | + 7 2.5 | 1.904 | 2.786 | 11.9 | 21.9 |
| 4 21 | 11 9.29 | + 8 9.9 | 1.992 | 2.786 | 15.0 | 22.2 |

**496722** 2016 $GQ_{23}$ 3 13.1 353°.75 2°.3/14.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.28 | − 3 24.3 | 1.467 | 2.318 | 15.6 | 20.2 |
| 2 21 | 11 51.03 | − 3 30.7 | 1.395 | 2.315 | 11.6 | 20.0 |
| 3 2 | 11 43.38 | − 3 20.0 | 1.346 | 2.313 | 7.0 | 19.7 |
| 3 12 | 11 34.26 | − 2 55.4 | 1.321 | 2.311 | 2.7 | 19.4 |
| 3 22 | 11 24.87 | − 2 22.2 | 1.323 | 2.310 | 4.4 | 19.5 |
| 4 1 | 11 16.51 | − 1 47.5 | 1.351 | 2.310 | 9.1 | 19.8 |
| 4 11 | 11 10.26 | − 1 18.0 | 1.402 | 2.309 | 13.6 | 20.0 |
| 4 21 | 11 6.73 | − 0 58.7 | 1.473 | 2.310 | 17.4 | 20.3 |

**229628** 2006 $DA_{164}$ 3 13.1 171°.88 0°.5/13.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.67 | − 1 26.4 | 2.260 | 3.100 | 11.2 | 20.9 |
| 2 21 | 11 48.47 | − 0 46.1 | 2.184 | 3.102 | 8.1 | 20.7 |
| 3 2 | 11 41.72 | + 0 6.2 | 2.134 | 3.104 | 4.5 | 20.5 |
| 3 12 | 11 34.08 | + 1 6.0 | 2.113 | 3.106 | 0.8 | 20.2 |
| 3 22 | 11 26.32 | + 2 7.9 | 2.121 | 3.107 | 3.3 | 20.4 |
| 4 1 | 11 19.23 | + 3 6.2 | 2.159 | 3.108 | 6.9 | 20.6 |
| 4 11 | 11 13.51 | + 3 56.0 | 2.223 | 3.108 | 10.3 | 20.9 |
| 4 21 | 11 9.59 | + 4 33.9 | 2.310 | 3.108 | 13.1 | 21.0 |

**292655** 2006 $UP_{52}$ 3 13.1 254°.43 2°.0/15.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.15 | − 6 7.6 | 2.439 | 3.260 | 11.1 | 21.2 |
| 2 21 | 11 47.41 | − 5 41.8 | 2.345 | 3.248 | 8.4 | 21.0 |
| 3 2 | 11 41.18 | − 5 1.6 | 2.276 | 3.236 | 5.2 | 20.8 |
| 3 12 | 11 34.03 | − 4 9.7 | 2.235 | 3.223 | 2.3 | 20.5 |
| 3 22 | 11 26.67 | − 3 10.6 | 2.224 | 3.210 | 3.1 | 20.6 |
| 4 1 | 11 19.84 | − 2 9.4 | 2.242 | 3.197 | 6.3 | 20.8 |
| 4 11 | 11 14.22 | − 1 11.8 | 2.287 | 3.183 | 9.5 | 20.9 |
| 4 21 | 11 10.28 | − 0 22.2 | 2.356 | 3.170 | 12.4 | 21.1 |

**174839** 2003 $YP_{120}$ 3 13.1 159°.88 2°.2/11.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.60 | + 7 21.5 | 1.964 | 2.824 | 11.8 | 20.6 |
| 2 21 | 11 52.09 | + 8 3.9 | 1.899 | 2.830 | 8.3 | 20.4 |
| 3 2 | 11 43.71 | + 8 51.4 | 1.861 | 2.836 | 4.5 | 20.2 |
| 3 12 | 11 34.29 | + 9 38.0 | 1.851 | 2.841 | 2.2 | 20.1 |
| 3 22 | 11 24.78 | +10 17.6 | 1.870 | 2.845 | 5.2 | 20.3 |
| 4 1 | 11 16.19 | +10 45.5 | 1.918 | 2.849 | 8.9 | 20.5 |
| 4 11 | 11 9.32 | +10 58.7 | 1.991 | 2.852 | 12.4 | 20.7 |
| 4 21 | 11 4.66 | +10 56.5 | 2.085 | 2.854 | 15.2 | 20.9 |

**466700** 2014 $WW_{382}$ 3 13.1 24°.76 8°.4/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.62 | +21 50.1 | 1.422 | 2.301 | 14.2 | 19.5 |
| 2 21 | 11 53.30 | +22 48.6 | 1.380 | 2.307 | 11.0 | 19.3 |
| 3 2 | 11 44.49 | +23 36.4 | 1.360 | 2.314 | 8.7 | 19.2 |
| 3 12 | 11 34.36 | +24 3.5 | 1.365 | 2.321 | 8.7 | 19.2 |
| 3 22 | 11 24.33 | +24 3.6 | 1.395 | 2.329 | 11.1 | 19.3 |
| 4 1 | 11 15.76 | +23 34.8 | 1.448 | 2.337 | 14.2 | 19.6 |
| 4 11 | 11 9.63 | +22 39.9 | 1.522 | 2.346 | 17.3 | 19.8 |
| 4 21 | 11 6.38 | +21 23.7 | 1.612 | 2.356 | 20.0 | 20.0 |

**66104** 1998 $SB_{25}$ 3 13.1 179°.90 1°.8/11.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.49 | + 6 18.8 | 2.215 | 3.070 | 10.9 | 20.8 |
| 2 21 | 11 51.19 | + 7 3.7 | 2.143 | 3.072 | 7.6 | 20.6 |
| 3 2 | 11 43.20 | + 7 54.6 | 2.098 | 3.073 | 4.1 | 20.4 |
| 3 12 | 11 34.24 | + 8 45.7 | 2.083 | 3.073 | 1.8 | 20.3 |
| 3 22 | 11 25.17 | + 9 31.7 | 2.098 | 3.073 | 4.6 | 20.4 |
| 4 1 | 11 16.85 | +10 7.6 | 2.141 | 3.072 | 8.1 | 20.7 |
| 4 11 | 11 10.04 | +10 30.3 | 2.211 | 3.070 | 11.4 | 20.9 |
| 4 21 | 11 5.19 | +10 38.5 | 2.302 | 3.067 | 14.1 | 21.0 |

**226781** 2004 $RJ_{145}$ 3 13.1 119°.76 0°.5/12.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.21 | + 1 23.6 | 2.029 | 2.881 | 11.8 | 21.3 |
| 2 21 | 11 48.92 | + 2 15.9 | 1.965 | 2.892 | 8.3 | 21.0 |
| 3 2 | 11 41.98 | + 3 18.8 | 1.927 | 2.902 | 4.4 | 20.8 |
| 3 12 | 11 34.12 | + 4 26.6 | 1.918 | 2.911 | 0.6 | 20.5 |
| 3 22 | 11 26.19 | + 5 32.8 | 1.938 | 2.921 | 3.9 | 20.8 |
| 4 1 | 11 19.08 | + 6 31.1 | 1.986 | 2.930 | 7.8 | 21.1 |
| 4 11 | 11 13.50 | + 7 16.9 | 2.060 | 2.939 | 11.2 | 21.3 |
| 4 21 | 11 9.89 | + 7 47.7 | 2.156 | 2.947 | 14.1 | 21.5 |

**230454** 2002 $RB_{87}$ 3 13.1 174°.35 0°.3/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.18 | − 1 21.0 | 1.727 | 2.572 | 13.9 | 21.4 |
| 2 21 | 11 52.05 | − 0 28.6 | 1.655 | 2.576 | 10.0 | 21.2 |
| 3 2 | 11 43.81 | + 0 39.9 | 1.607 | 2.579 | 5.5 | 20.9 |
| 3 12 | 11 34.31 | + 1 58.1 | 1.587 | 2.581 | 0.7 | 20.6 |
| 3 22 | 11 24.64 | + 3 18.2 | 1.597 | 2.582 | 4.2 | 20.9 |
| 4 1 | 11 15.92 | + 4 31.7 | 1.634 | 2.582 | 8.8 | 21.1 |
| 4 11 | 11 9.08 | + 5 31.9 | 1.697 | 2.582 | 12.9 | 21.4 |
| 4 21 | 11 4.68 | + 6 15.1 | 1.781 | 2.580 | 16.3 | 21.6 |

**496022** 2008 $QV_{25}$ 3 13.1 160°.46 6°.9/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.83 | −23 45.1 | 2.682 | 3.387 | 13.1 | 21.8 |
| 2 21 | 11 49.95 | −24 6.7 | 2.595 | 3.394 | 11.3 | 21.6 |
| 3 2 | 11 42.53 | −24 6.8 | 2.531 | 3.400 | 9.3 | 21.5 |
| 3 12 | 11 34.19 | −23 44.7 | 2.491 | 3.406 | 7.6 | 21.4 |
| 3 22 | 11 25.67 | −23 2.1 | 2.479 | 3.411 | 6.9 | 21.4 |
| 4 1 | 11 17.77 | −22 2.9 | 2.495 | 3.416 | 7.6 | 21.4 |
| 4 11 | 11 11.17 | −20 53.1 | 2.537 | 3.420 | 9.2 | 21.5 |
| 4 21 | 11 6.35 | −19 39.3 | 2.604 | 3.423 | 11.2 | 21.6 |

**100833** 1998 $HW_{10}$ 3 13.1 226°.50 2°.0/10.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.29 | + 8 9.9 | 2.587 | 3.447 | 9.3 | 20.2 |
| 2 21 | 11 48.09 | + 8 51.4 | 2.509 | 3.440 | 6.5 | 20.0 |
| 3 2 | 11 41.49 | + 9 36.8 | 2.459 | 3.433 | 3.6 | 19.8 |
| 3 12 | 11 34.09 | +10 21.4 | 2.438 | 3.426 | 2.1 | 19.7 |
| 3 22 | 11 26.55 | +11 0.5 | 2.447 | 3.419 | 4.4 | 19.8 |
| 4 1 | 11 19.58 | +11 30.3 | 2.485 | 3.411 | 7.4 | 20.0 |
| 4 11 | 11 13.82 | +11 48.1 | 2.549 | 3.403 | 10.2 | 20.1 |
| 4 21 | 11 9.67 | +11 52.9 | 2.635 | 3.395 | 12.6 | 20.3 |

**318776** 2005 $SC_{92}$ 3 13.1 240°.40 8°.2/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 14.06 | +19 55.3 | 1.154 | 2.023 | 17.6 | 20.0 |
| 2 21 | 12 4.44 | +20 18.4 | 1.089 | 2.016 | 13.4 | 19.7 |
| 3 2 | 11 50.93 | +20 29.9 | 1.046 | 2.008 | 9.5 | 19.4 |
| 3 12 | 11 35.07 | +20 18.0 | 1.029 | 2.000 | 8.4 | 19.3 |
| 3 22 | 11 18.98 | +19 35.2 | 1.037 | 1.992 | 11.4 | 19.5 |
| 4 1 | 11 4.87 | +18 21.2 | 1.069 | 1.983 | 16.0 | 19.7 |
| 4 11 | 10 54.34 | +16 41.3 | 1.123 | 1.974 | 20.5 | 19.9 |
| 4 21 | 10 48.01 | +14 43.7 | 1.193 | 1.964 | 24.3 | 20.2 |

**80072** 1999 $JT_{98}$ 3 13.1 298°.50 2°.3/15.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 50.60 | − 7 27.0 | 2.137 | 2.962 | 12.4 | 19.3 |
| 2 21 | 11 46.51 | − 6 48.0 | 2.043 | 2.947 | 9.4 | 19.1 |
| 3 2 | 11 40.78 | − 5 50.5 | 1.973 | 2.932 | 5.9 | 18.9 |
| 3 12 | 11 34.02 | − 4 37.9 | 1.930 | 2.917 | 2.7 | 18.6 |
| 3 22 | 11 27.02 | − 3 15.8 | 1.917 | 2.903 | 3.4 | 18.7 |
| 4 1 | 11 20.60 | − 1 51.2 | 1.931 | 2.889 | 7.0 | 18.8 |
| 4 11 | 11 15.52 | − 0 31.4 | 1.973 | 2.874 | 10.5 | 19.0 |
| 4 21 | 11 12.31 | + 0 37.8 | 2.037 | 2.860 | 13.7 | 19.2 |

**171913** 2001 $SA_{74}$ 3 13.1 148°.40 2°.4/16.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.54 | − 7 39.7 | 2.691 | 3.498 | 10.6 | 20.6 |
| 2 21 | 11 48.19 | − 7 28.9 | 2.613 | 3.506 | 8.0 | 20.5 |
| 3 2 | 11 41.52 | − 7 5.1 | 2.560 | 3.513 | 5.2 | 20.3 |
| 3 12 | 11 34.10 | − 6 30.4 | 2.536 | 3.519 | 2.8 | 20.1 |
| 3 22 | 11 26.58 | − 5 48.4 | 2.542 | 3.526 | 3.1 | 20.2 |
| 4 1 | 11 19.65 | − 5 3.2 | 2.578 | 3.531 | 5.7 | 20.4 |
| 4 11 | 11 13.88 | − 4 19.4 | 2.642 | 3.537 | 8.5 | 20.5 |
| 4 21 | 11 9.67 | − 3 40.7 | 2.730 | 3.542 | 10.9 | 20.7 |

**438410** 2006 $VK_{19}$ 3 13.1 85°.99 4°.2/18.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.83 | −13 26.8 | 2.407 | 3.193 | 12.3 | 21.4 |
| 2 21 | 11 47.16 | −13 19.8 | 2.325 | 3.196 | 9.8 | 21.2 |
| 3 2 | 11 41.03 | −12 54.5 | 2.266 | 3.199 | 7.1 | 21.0 |
| 3 12 | 11 34.05 | −12 12.3 | 2.234 | 3.202 | 4.8 | 20.9 |
| 3 22 | 11 26.93 | −11 16.8 | 2.231 | 3.206 | 4.4 | 20.9 |
| 4 1 | 11 20.42 | −10 13.2 | 2.256 | 3.209 | 6.4 | 21.0 |
| 4 11 | 11 15.18 | − 9 7.6 | 2.308 | 3.212 | 9.1 | 21.2 |
| 4 21 | 11 11.65 | − 8 5.7 | 2.384 | 3.215 | 11.7 | 21.3 |

**334772** 2003 $SQ_{89}$ 3 13.1 216°.74 2°.6/15.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.83 | − 4 47.3 | 2.219 | 3.037 | 12.2 | 20.4 |
| 2 21 | 11 52.95 | − 5 11.1 | 2.132 | 3.033 | 9.2 | 20.2 |
| 3 2 | 11 44.24 | − 5 23.2 | 2.070 | 3.028 | 5.8 | 19.9 |
| 3 12 | 11 34.39 | − 5 24.8 | 2.037 | 3.023 | 2.9 | 19.7 |
| 3 22 | 11 24.29 | − 5 18.4 | 2.034 | 3.018 | 3.7 | 19.8 |
| 4 1 | 11 14.88 | − 5 7.6 | 2.061 | 3.012 | 7.1 | 20.0 |
| 4 11 | 11 6.99 | − 4 56.7 | 2.115 | 3.006 | 10.4 | 20.2 |
| 4 21 | 11 1.17 | − 4 49.3 | 2.193 | 3.001 | 13.4 | 20.4 |

**422983** 2003 $RC_1$ 3 13.1 219°.39 4°.8/18.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.10 | −15 48.5 | 2.522 | 3.288 | 12.4 | 21.1 |
| 2 21 | 11 48.81 | −15 44.6 | 2.424 | 3.279 | 10.1 | 21.0 |
| 3 2 | 11 41.97 | −15 21.3 | 2.349 | 3.270 | 7.6 | 20.8 |
| 3 12 | 11 34.16 | −14 39.4 | 2.301 | 3.260 | 5.4 | 20.6 |
| 3 22 | 11 26.11 | −13 41.7 | 2.281 | 3.249 | 4.9 | 20.6 |
| 4 1 | 11 18.61 | −12 33.2 | 2.291 | 3.238 | 6.7 | 20.7 |
| 4 11 | 11 12.35 | −11 20.1 | 2.328 | 3.227 | 9.3 | 20.8 |
| 4 21 | 11 7.83 | −10 8.7 | 2.390 | 3.214 | 11.9 | 20.9 |

**208048** 1999 $TL_{149}$ 3 13.1 224°.93 1°.0/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.36 | + 3 42.4 | 2.054 | 2.905 | 11.8 | 21.0 |
| 2 21 | 11 52.06 | + 4 18.8 | 1.967 | 2.893 | 8.3 | 20.8 |
| 3 2 | 11 43.81 | + 5 4.1 | 1.906 | 2.880 | 4.5 | 20.5 |
| 3 12 | 11 34.37 | + 5 53.3 | 1.874 | 2.867 | 1.0 | 20.2 |
| 3 22 | 11 24.63 | + 6 40.5 | 1.872 | 2.853 | 4.4 | 20.4 |
| 4 1 | 11 15.61 | + 7 20.0 | 1.899 | 2.838 | 8.4 | 20.6 |
| 4 11 | 11 8.17 | + 7 47.4 | 1.952 | 2.822 | 12.1 | 20.8 |
| 4 21 | 11 2.89 | + 8 0.7 | 2.026 | 2.806 | 15.3 | 21.0 |

**114074** 2002 $VF_{33}$ 3 13.1 107°.72 1°.1/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.96 | + 4 26.1 | 2.431 | 3.284 | 10.1 | 20.5 |
| 2 21 | 11 48.50 | + 5 10.1 | 2.373 | 3.301 | 7.0 | 20.3 |
| 3 2 | 11 41.68 | + 6 0.3 | 2.343 | 3.318 | 3.7 | 20.1 |
| 3 12 | 11 34.14 | + 6 51.7 | 2.342 | 3.334 | 1.1 | 19.9 |
| 3 22 | 11 26.60 | + 7 39.5 | 2.371 | 3.350 | 3.8 | 20.2 |
| 4 1 | 11 19.78 | + 8 19.4 | 2.429 | 3.366 | 7.0 | 20.4 |
| 4 11 | 11 14.26 | + 8 48.2 | 2.514 | 3.381 | 9.9 | 20.6 |
| 4 21 | 11 10.42 | + 9 4.5 | 2.621 | 3.396 | 12.3 | 20.8 |

**258757** 2002 $HM_{12}$ 3 13.1 311°.12 9°.7/ 1.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.51 | +24 49.0 | 1.622 | 2.501 | 12.8 | 18.9 |
| 2 21 | 11 49.21 | +26 55.8 | 1.558 | 2.477 | 10.6 | 18.7 |
| 3 2 | 11 42.51 | +28 55.2 | 1.518 | 2.454 | 9.7 | 18.6 |
| 3 12 | 11 34.26 | +30 34.2 | 1.504 | 2.430 | 10.8 | 18.6 |
| 3 22 | 11 25.63 | +31 42.6 | 1.514 | 2.407 | 13.3 | 18.7 |
| 4 1 | 11 17.91 | +32 14.8 | 1.545 | 2.385 | 16.2 | 18.8 |
| 4 11 | 11 12.23 | +32 10.8 | 1.595 | 2.362 | 19.1 | 19.0 |
| 4 21 | 11 9.24 | +31 34.5 | 1.658 | 2.341 | 21.6 | 19.1 |

**337818** 2001 $VH_{10}$ 3 13.1 118°.33 2°.0/15.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.90 | − 6 53.6 | 2.459 | 3.277 | 11.2 | 21.0 |
| 2 21 | 11 47.13 | − 6 21.2 | 2.385 | 3.286 | 8.4 | 20.8 |
| 3 2 | 11 40.99 | − 5 34.4 | 2.337 | 3.295 | 5.2 | 20.7 |
| 3 12 | 11 34.09 | − 4 36.4 | 2.316 | 3.303 | 2.4 | 20.5 |
| 3 22 | 11 27.11 | − 3 32.0 | 2.326 | 3.311 | 3.0 | 20.5 |
| 4 1 | 11 20.75 | − 2 26.6 | 2.364 | 3.319 | 6.0 | 20.7 |
| 4 11 | 11 15.62 | − 1 25.5 | 2.430 | 3.327 | 9.0 | 20.9 |
| 4 21 | 11 12.13 | − 0 33.0 | 2.521 | 3.335 | 11.7 | 21.1 |

**93910** 2000 $WZ_{155}$ 3 13.1 276°.63 6°.2/18.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.62 | −15 14.7 | 1.968 | 2.750 | 14.9 | 19.1 |
| 2 21 | 11 50.36 | −15 39.6 | 1.869 | 2.734 | 12.2 | 18.9 |
| 3 2 | 11 43.03 | −15 42.6 | 1.792 | 2.717 | 9.3 | 18.7 |
| 3 12 | 11 34.32 | −15 23.1 | 1.740 | 2.700 | 6.8 | 18.5 |
| 3 22 | 11 25.17 | −14 43.2 | 1.715 | 2.683 | 6.3 | 18.4 |
| 4 1 | 11 16.65 | −13 47.8 | 1.717 | 2.666 | 8.4 | 18.5 |
| 4 11 | 11 9.72 | −12 44.6 | 1.745 | 2.649 | 11.6 | 18.6 |
| 4 21 | 11 5.04 | −11 41.3 | 1.795 | 2.631 | 14.7 | 18.8 |

**24065** Barbfriedman 3 13.1 117°.65 1°.1/14.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.50 | − 2 54.3 | 2.071 | 2.908 | 12.2 | 19.6 |
| 2 21 | 11 49.15 | − 2 24.8 | 2.002 | 2.917 | 8.9 | 19.4 |
| 3 2 | 11 42.15 | − 1 41.7 | 1.958 | 2.925 | 5.1 | 19.2 |
| 3 12 | 11 34.22 | − 0 49.4 | 1.942 | 2.934 | 1.5 | 19.0 |
| 3 22 | 11 26.20 | + 0 6.7 | 1.955 | 2.942 | 3.3 | 19.1 |
| 4 1 | 11 18.96 | + 1 0.7 | 1.997 | 2.950 | 7.1 | 19.4 |
| 4 11 | 11 13.23 | + 1 47.1 | 2.065 | 2.958 | 10.6 | 19.6 |
| 4 21 | 11 9.46 | + 2 22.5 | 2.156 | 2.965 | 13.5 | 19.8 |

**125367** 2001 $VZ_{70}$ 3 13.1 41°.57 3°.8/16.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.09 | − 7 46.1 | 1.292 | 2.135 | 17.8 | 19.7 |
| 2 21 | 11 51.08 | − 7 41.4 | 1.230 | 2.142 | 13.5 | 19.5 |
| 3 2 | 11 43.49 | − 7 11.7 | 1.188 | 2.148 | 8.8 | 19.2 |
| 3 12 | 11 34.38 | − 6 20.3 | 1.170 | 2.156 | 4.5 | 19.0 |
| 3 22 | 11 25.08 | − 5 14.6 | 1.177 | 2.163 | 5.1 | 19.1 |
| 4 1 | 11 17.00 | − 4 4.5 | 1.209 | 2.171 | 9.6 | 19.3 |
| 4 11 | 11 11.28 | − 3 0.0 | 1.264 | 2.179 | 14.2 | 19.6 |
| 4 21 | 11 8.48 | − 2 8.5 | 1.339 | 2.188 | 18.1 | 19.9 |

**180612** 2004 $FP_{106}$ 3 13.1 282°.92 1°.6/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.75 | − 3 44.3 | 1.691 | 2.535 | 14.2 | 20.4 |
| 2 21 | 11 49.81 | − 3 20.8 | 1.607 | 2.525 | 10.5 | 20.1 |
| 3 2 | 11 42.73 | − 2 39.6 | 1.547 | 2.514 | 6.3 | 19.8 |
| 3 12 | 11 34.31 | − 1 44.8 | 1.513 | 2.504 | 2.1 | 19.5 |
| 3 22 | 11 25.56 | − 0 42.8 | 1.507 | 2.494 | 4.0 | 19.6 |
| 4 1 | 11 17.62 | + 0 18.9 | 1.528 | 2.484 | 8.5 | 19.9 |
| 4 11 | 11 11.47 | + 1 12.8 | 1.573 | 2.474 | 12.8 | 20.1 |
| 4 21 | 11 7.73 | + 1 53.7 | 1.639 | 2.464 | 16.4 | 20.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **491609** 2012 $TO_{45}$ | | | 3 13.1 112°.73 | | 1°.5/14.9 17 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.89 | − 3 43.1 | 2.492 | 3.317 | 10.8 | 21.7 |
| 2 21 | 11 49.18 | − 3 32.0 | 2.424 | 3.331 | 7.9 | 21.5 |
| 3 2 | 11 42.08 | − 3 9.8 | 2.382 | 3.345 | 4.7 | 21.3 |
| 3 12 | 11 34.22 | − 2 39.4 | 2.369 | 3.359 | 1.8 | 21.1 |
| 3 22 | 11 26.32 | − 2 4.4 | 2.386 | 3.372 | 2.9 | 21.2 |
| 4 1 | 11 19.09 | − 1 29.1 | 2.433 | 3.385 | 6.1 | 21.5 |
| 4 11 | 11 13.15 | − 0 57.7 | 2.507 | 3.398 | 9.0 | 21.7 |
| 4 21 | 11 8.90 | − 0 33.2 | 2.605 | 3.410 | 11.6 | 21.9 |
| **210345** 2007 $UQ$ | | | 3 13.1 52°.95 | | 4°.4/ 8.9 18 | |
| 2 11 | 11 56.16 | +14 33.2 | 1.954 | 2.826 | 11.3 | 20.0 |
| 2 21 | 11 50.33 | +15 18.6 | 1.905 | 2.838 | 8.1 | 19.8 |
| 3 2 | 11 42.76 | +16 2.1 | 1.883 | 2.851 | 5.2 | 19.7 |
| 3 12 | 11 34.29 | +16 37.2 | 1.888 | 2.864 | 4.6 | 19.7 |
| 3 22 | 11 25.86 | +16 58.6 | 1.921 | 2.877 | 6.9 | 19.8 |
| 4 1 | 11 18.40 | +17 3.1 | 1.981 | 2.890 | 9.9 | 20.0 |
| 4 11 | 11 12.64 | +16 50.0 | 2.064 | 2.904 | 12.8 | 20.2 |
| 4 21 | 11 8.99 | +16 20.7 | 2.168 | 2.918 | 15.3 | 20.4 |
| **240575** 2004 $TC_{52}$ | | | 3 13.1 151°.16 | | 0°.9/14.0 18 | |
| 2 11 | 11 58.15 | − 2 23.9 | 1.833 | 2.672 | 13.5 | 21.5 |
| 2 21 | 11 51.92 | − 1 49.0 | 1.765 | 2.681 | 9.8 | 21.3 |
| 3 2 | 11 43.72 | − 0 59.2 | 1.721 | 2.690 | 5.6 | 21.1 |
| 3 12 | 11 34.40 | + 0 0.7 | 1.705 | 2.697 | 1.3 | 20.8 |
| 3 22 | 11 24.97 | + 1 3.9 | 1.718 | 2.704 | 3.8 | 21.0 |
| 4 1 | 11 16.47 | + 2 3.5 | 1.760 | 2.711 | 8.1 | 21.3 |
| 4 11 | 11 9.77 | + 2 53.4 | 1.827 | 2.716 | 11.9 | 21.5 |
| 4 21 | 11 5.36 | + 3 29.9 | 1.916 | 2.721 | 15.2 | 21.7 |
| **473049** 2015 $HY_{83}$ | | | 3 13.1 294°.23 | | 2°.2/15.8 17 | |
| 2 11 | 11 50.97 | − 7 28.1 | 2.277 | 3.097 | 11.8 | 20.9 |
| 2 21 | 11 46.64 | − 6 50.9 | 2.193 | 3.095 | 8.9 | 20.7 |
| 3 2 | 11 40.81 | − 5 57.1 | 2.135 | 3.093 | 5.7 | 20.5 |
| 3 12 | 11 34.10 | − 4 50.1 | 2.104 | 3.091 | 2.6 | 20.2 |
| 3 22 | 11 27.24 | − 3 35.0 | 2.103 | 3.089 | 3.2 | 20.3 |
| 4 1 | 11 20.99 | − 2 18.3 | 2.130 | 3.087 | 6.5 | 20.5 |
| 4 11 | 11 16.03 | − 1 6.4 | 2.185 | 3.085 | 9.7 | 20.7 |
| 4 21 | 11 12.81 | − 0 4.0 | 2.263 | 3.083 | 12.6 | 20.9 |
| **494827** 2007 $TF_{199}$ | | | 3 13.1 230°.76 | | 1°.7/14.8 17 | |
| 2 11 | 11 57.15 | − 4 57.2 | 2.001 | 2.827 | 13.0 | 23.0 |
| 2 21 | 11 51.32 | − 4 25.0 | 1.905 | 2.813 | 9.7 | 22.8 |
| 3 2 | 11 43.50 | − 3 35.7 | 1.834 | 2.798 | 5.9 | 22.5 |
| 3 12 | 11 34.39 | − 2 32.7 | 1.792 | 2.782 | 2.1 | 22.2 |
| 3 22 | 11 24.93 | − 1 21.9 | 1.779 | 2.765 | 3.7 | 22.3 |
| 4 1 | 11 16.13 | − 0 10.3 | 1.795 | 2.747 | 7.8 | 22.5 |
| 4 11 | 11 8.90 | + 0 54.9 | 1.837 | 2.729 | 11.7 | 22.7 |
| 4 21 | 11 3.86 | + 1 48.6 | 1.902 | 2.709 | 15.2 | 22.9 |
| **375355** 2008 $SR_{80}$ | | | 3 13.1 63°.49 | | 1°.2/14.2 18 | |
| 2 11 | 11 55.25 | − 2 7.4 | 1.847 | 2.691 | 13.2 | 20.4 |
| 2 21 | 11 49.82 | − 1 50.2 | 1.783 | 2.702 | 9.6 | 20.2 |
| 3 2 | 11 42.56 | − 1 19.5 | 1.744 | 2.713 | 5.5 | 20.0 |
| 3 12 | 11 34.28 | − 0 39.5 | 1.732 | 2.724 | 1.5 | 19.8 |
| 3 22 | 11 25.93 | + 0 4.4 | 1.748 | 2.735 | 3.6 | 19.9 |
| 4 1 | 11 18.49 | + 0 46.2 | 1.793 | 2.747 | 7.7 | 20.2 |
| 4 11 | 11 12.74 | + 1 20.6 | 1.862 | 2.758 | 11.4 | 20.5 |
| 4 21 | 11 9.15 | + 1 44.1 | 1.953 | 2.770 | 14.5 | 20.7 |
| **991** McDonalda | | | 3 13.1 225°.06 | | 0°.8/12.2 18 | |
| 2 11 | 11 52.75 | + 3 39.5 | 2.702 | 3.552 | 9.3 | 16.6 |
| 2 21 | 11 47.70 | + 4 16.3 | 2.618 | 3.544 | 6.5 | 16.5 |
| 3 2 | 11 41.32 | + 4 59.8 | 2.561 | 3.536 | 3.5 | 16.2 |
| 3 12 | 11 34.16 | + 5 46.0 | 2.534 | 3.527 | 0.8 | 16.0 |
| 3 22 | 11 26.85 | + 6 30.7 | 2.537 | 3.518 | 3.4 | 16.2 |
| 4 1 | 11 20.06 | + 7 9.7 | 2.570 | 3.509 | 6.5 | 16.4 |
| 4 11 | 11 14.38 | + 7 39.5 | 2.630 | 3.499 | 9.4 | 16.6 |
| 4 21 | 11 10.24 | + 7 58.4 | 2.713 | 3.490 | 11.9 | 16.7 |
| **160742** 2000 $RT_{83}$ | | | 3 13.1 163°.60 | | 0°.8/13.9 18 | |
| 2 11 | 11 59.15 | − 1 9.6 | 1.780 | 2.623 | 13.6 | 20.1 |
| 2 21 | 11 52.72 | − 0 50.5 | 1.709 | 2.627 | 9.9 | 19.9 |
| 3 2 | 11 44.20 | − 0 17.9 | 1.662 | 2.631 | 5.6 | 19.7 |
| 3 12 | 11 34.46 | + 0 23.7 | 1.642 | 2.635 | 1.2 | 19.4 |
| 3 22 | 11 24.57 | + 1 8.6 | 1.652 | 2.638 | 3.9 | 19.6 |
| 4 1 | 11 15.62 | + 1 50.4 | 1.689 | 2.640 | 8.3 | 19.8 |
| 4 11 | 11 8.54 | + 2 23.6 | 1.752 | 2.642 | 12.3 | 20.1 |
| 4 21 | 11 3.85 | + 2 44.9 | 1.837 | 2.644 | 15.6 | 20.3 |
| **343463** 2010 $EH_{45}$ | | | 3 13.1 290°.03 | | 1°.6/11.5 17 | |
| 2 11 | 11 53.86 | + 5 27.6 | 2.047 | 2.909 | 11.3 | 21.2 |
| 2 21 | 11 48.80 | + 6 9.3 | 1.973 | 2.905 | 7.9 | 21.0 |
| 3 2 | 11 42.02 | + 6 58.3 | 1.925 | 2.901 | 4.2 | 20.7 |
| 3 12 | 11 34.24 | + 7 48.8 | 1.905 | 2.897 | 1.6 | 20.5 |
| 3 22 | 11 26.29 | + 8 35.2 | 1.914 | 2.893 | 4.6 | 20.7 |
| 4 1 | 11 19.08 | + 9 11.9 | 1.951 | 2.889 | 8.4 | 20.9 |
| 4 11 | 11 13.37 | + 9 35.5 | 2.013 | 2.885 | 11.8 | 21.1 |
| 4 21 | 11 9.65 | + 9 44.1 | 2.096 | 2.881 | 14.7 | 21.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **83965** 2001 $XU_{256}$ | | | 3 13.1 272°.05 | | 8°.1/ 2.7 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.46 | +28 15.4 | 2.303 | 3.158 | 10.5 | 19.0 |
| 2 21 | 11 50.64 | +29 32.2 | 2.244 | 3.144 | 8.8 | 18.8 |
| 3 2 | 11 43.02 | +30 38.2 | 2.210 | 3.130 | 8.1 | 18.8 |
| 3 12 | 11 34.34 | +31 26.0 | 2.204 | 3.115 | 8.6 | 18.8 |
| 3 22 | 11 25.51 | +31 50.3 | 2.223 | 3.101 | 10.3 | 18.9 |
| 4 1 | 11 17.48 | +31 48.8 | 2.266 | 3.086 | 12.4 | 19.0 |
| 4 11 | 11 11.06 | +31 22.3 | 2.330 | 3.071 | 14.5 | 19.1 |
| 4 21 | 11 6.73 | +30 34.1 | 2.412 | 3.057 | 16.3 | 19.2 |
| **426431** 2013 $QD_{32}$ | | | 3 13.1 153°.00 | | 3°.0/ 9.2 15 | |
| 2 11 | 11 53.48 | + 9 10.0 | 2.378 | 3.242 | 9.8 | 22.3 |
| 2 21 | 11 48.30 | +10 39.4 | 2.317 | 3.250 | 6.9 | 22.1 |
| 3 2 | 11 41.65 | +12 12.9 | 2.285 | 3.257 | 4.0 | 21.9 |
| 3 12 | 11 34.20 | +13 43.4 | 2.282 | 3.264 | 3.2 | 21.9 |
| 3 22 | 11 26.66 | +15 4.4 | 2.310 | 3.271 | 5.5 | 22.0 |
| 4 1 | 11 19.81 | +16 10.5 | 2.367 | 3.277 | 8.5 | 22.2 |
| 4 11 | 11 14.27 | +16 58.5 | 2.449 | 3.282 | 11.3 | 22.4 |
| 4 21 | 11 10.46 | +17 27.9 | 2.552 | 3.287 | 13.6 | 22.6 |
| **483736** 2005 $TL_{185}$ | | | 3 13.1 299°.59 | | 2°.4/11.6 17 | |
| 2 11 | 11 59.19 | + 6 21.8 | 1.243 | 2.120 | 16.0 | 21.1 |
| 2 21 | 11 53.63 | + 6 50.2 | 1.168 | 2.106 | 11.4 | 20.8 |
| 3 2 | 11 45.09 | + 7 28.4 | 1.115 | 2.092 | 6.2 | 20.4 |
| 3 12 | 11 34.60 | + 8 8.5 | 1.087 | 2.078 | 2.4 | 20.1 |
| 3 22 | 11 23.62 | + 8 41.7 | 1.084 | 2.065 | 6.7 | 20.4 |
| 4 1 | 11 13.81 | + 9 0.3 | 1.105 | 2.051 | 12.3 | 20.6 |
| 4 11 | 11 6.54 | + 8 59.5 | 1.148 | 2.038 | 17.3 | 20.9 |
| 4 21 | 11 2.56 | + 8 38.6 | 1.208 | 2.026 | 21.5 | 21.1 |
| **521264** 2015 $HS_{192}$ | | | 3 13.1 128°.99 | | 3°.9/17.8 17 | |
| 2 11 | 11 52.96 | −12 4.0 | 2.472 | 3.263 | 11.9 | 21.9 |
| 2 21 | 11 47.95 | −12 2.2 | 2.391 | 3.267 | 9.4 | 21.7 |
| 3 2 | 11 41.50 | −11 43.7 | 2.334 | 3.271 | 6.7 | 21.5 |
| 3 12 | 11 34.20 | −11 9.9 | 2.304 | 3.275 | 4.4 | 21.4 |
| 3 22 | 11 26.77 | −10 24.1 | 2.303 | 3.279 | 4.1 | 21.4 |
| 4 1 | 11 19.95 | − 9 31.1 | 2.330 | 3.283 | 6.3 | 21.5 |
| 4 11 | 11 14.38 | − 8 36.4 | 2.385 | 3.286 | 9.0 | 21.7 |
| 4 21 | 11 10.49 | − 7 45.0 | 2.464 | 3.290 | 11.5 | 21.9 |
| **377452** 2004 $VF_{42}$ | | | 3 13.1 227°.37 | | 2°.1/15.3 17 | |
| 2 11 | 11 53.65 | − 5 41.3 | 1.985 | 2.816 | 12.9 | 21.2 |
| 2 21 | 11 48.73 | − 5 15.1 | 1.905 | 2.813 | 9.7 | 21.0 |
| 3 2 | 11 42.03 | − 4 32.2 | 1.849 | 2.811 | 6.0 | 20.7 |
| 3 12 | 11 34.27 | − 3 36.1 | 1.820 | 2.809 | 2.5 | 20.5 |
| 3 22 | 11 26.32 | − 2 32.4 | 1.820 | 2.807 | 3.5 | 20.6 |
| 4 1 | 11 19.09 | − 1 27.6 | 1.848 | 2.804 | 7.3 | 20.8 |
| 4 11 | 11 13.40 | − 0 28.5 | 1.902 | 2.802 | 11.0 | 21.0 |
| 4 21 | 11 9.74 | + 0 20.1 | 1.979 | 2.799 | 14.2 | 21.2 |
| **6132** Danielson | | | 3 13.2 276°.69 | | 0°.5/13.6 18 | |
| 2 11 | 11 56.77 | − 0 13.9 | 1.684 | 2.536 | 13.8 | 17.7 |
| 2 21 | 11 51.35 | + 0 7.0 | 1.594 | 2.519 | 10.1 | 17.5 |
| 3 2 | 11 43.65 | + 0 42.1 | 1.529 | 2.501 | 5.7 | 17.2 |
| 3 12 | 11 34.47 | + 1 26.8 | 1.491 | 2.484 | 0.9 | 16.8 |
| 3 22 | 11 24.86 | + 2 15.1 | 1.480 | 2.466 | 4.3 | 17.0 |
| 4 1 | 11 16.03 | + 2 59.8 | 1.496 | 2.448 | 9.1 | 17.2 |
| 4 11 | 11 9.04 | + 3 34.8 | 1.537 | 2.430 | 13.5 | 17.4 |
| 4 21 | 11 4.56 | + 3 55.9 | 1.598 | 2.413 | 17.2 | 17.6 |
| **12598** Sierra | | | 3 13.2 358°.85 | | 1°.9/11.2 18 | |
| 2 11 | 11 51.88 | + 3 55.1 | 1.668 | 2.539 | 13.0 | 18.1 |
| 2 21 | 11 47.69 | + 5 11.9 | 1.602 | 2.538 | 9.1 | 17.9 |
| 3 2 | 11 41.53 | + 6 40.7 | 1.560 | 2.537 | 4.8 | 17.6 |
| 3 12 | 11 34.23 | + 8 13.0 | 1.546 | 2.537 | 2.0 | 17.4 |
| 3 22 | 11 26.76 | + 9 39.7 | 1.559 | 2.537 | 5.5 | 17.6 |
| 4 1 | 11 20.17 | +10 52.4 | 1.599 | 2.537 | 9.8 | 17.9 |
| 4 11 | 11 15.33 | +11 45.5 | 1.662 | 2.538 | 13.6 | 18.1 |
| 4 21 | 11 12.73 | +12 17.0 | 1.746 | 2.539 | 16.9 | 18.3 |
| **260960** 2005 $SG_{40}$ | | | 3 13.2 160°.68 | | 1°.1/12.1 17 | |
| 2 11 | 11 56.73 | + 4 0.5 | 1.902 | 2.760 | 12.2 | 20.8 |
| 2 21 | 11 50.90 | + 4 35.2 | 1.833 | 2.762 | 8.6 | 20.6 |
| 3 2 | 11 43.19 | + 5 18.4 | 1.790 | 2.765 | 4.6 | 20.4 |
| 3 12 | 11 34.40 | + 6 4.5 | 1.774 | 2.767 | 1.1 | 20.1 |
| 3 22 | 11 25.48 | + 6 47.5 | 1.788 | 2.769 | 4.5 | 20.4 |
| 4 1 | 11 17.43 | + 7 22.0 | 1.829 | 2.771 | 8.5 | 20.6 |
| 4 11 | 11 11.07 | + 7 43.9 | 1.895 | 2.772 | 12.2 | 20.8 |
| 4 21 | 11 6.89 | + 7 51.6 | 1.983 | 2.773 | 15.2 | 21.0 |
| **383766** 2007 $VU_{237}$ | | | 3 13.2 41°.34 | | 6°.4/ 7.9 18 | |
| 2 11 | 11 59.90 | +20 28.4 | 1.810 | 2.679 | 12.2 | 20.3 |
| 2 21 | 11 53.03 | +21 3.7 | 1.770 | 2.695 | 9.2 | 20.1 |
| 3 2 | 11 44.23 | +21 30.7 | 1.755 | 2.711 | 6.9 | 20.0 |
| 3 12 | 11 34.49 | +21 42.6 | 1.766 | 2.727 | 6.6 | 20.0 |
| 3 22 | 11 24.93 | +21 35.0 | 1.805 | 2.744 | 8.6 | 20.2 |
| 4 1 | 11 16.58 | +21 6.7 | 1.870 | 2.762 | 11.4 | 20.4 |
| 4 11 | 11 10.24 | +20 19.3 | 1.958 | 2.779 | 14.1 | 20.6 |
| 4 21 | 11 6.29 | +19 16.0 | 2.065 | 2.797 | 16.5 | 20.8 |

**49845** 1999 $XA_{93}$ 3 13.2 194°.04 1°.3/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.97 | + 3 17.5 | 1.825 | 2.679 | 12.8 | 20.0 |
| 2 21 | 11 52.63 | + 4 14.2 | 1.749 | 2.677 | 9.1 | 19.8 |
| 3 2 | 11 44.20 | + 5 22.0 | 1.699 | 2.674 | 4.8 | 19.5 |
| 3 12 | 11 34.52 | + 6 34.2 | 1.678 | 2.670 | 1.3 | 19.2 |
| 3 22 | 11 24.61 | + 7 43.1 | 1.685 | 2.665 | 4.9 | 19.5 |
| 4 1 | 11 15.58 | + 8 41.4 | 1.722 | 2.659 | 9.2 | 19.7 |
| 4 11 | 11 8.36 | + 9 24.0 | 1.783 | 2.653 | 13.1 | 19.9 |
| 4 21 | 11 3.51 | + 9 48.8 | 1.865 | 2.645 | 16.4 | 20.1 |

**377290** 2004 $FE_{30}$ 3 13.2 4°.06 22°.6/28.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 18.67 | +46 49.8 | 0.954 | 1.780 | 23.9 | 19.8 |
| 2 21 | 12 8.56 | +48 22.0 | 0.932 | 1.779 | 22.9 | 19.7 |
| 3 2 | 11 53.20 | +49 3.3 | 0.925 | 1.778 | 22.7 | 19.7 |
| 3 12 | 11 35.41 | +48 36.7 | 0.934 | 1.779 | 23.4 | 19.7 |
| 3 22 | 11 18.64 | +46 58.8 | 0.957 | 1.780 | 24.9 | 19.8 |
| 4 1 | 11 5.71 | +44 18.4 | 0.995 | 1.782 | 26.8 | 20.0 |
| 4 11 | 10 57.94 | +40 53.0 | 1.047 | 1.784 | 28.7 | 20.1 |
| 4 21 | 10 55.24 | +37 0.1 | 1.110 | 1.788 | 30.5 | 20.3 |

**78838** 2003 $QY_{43}$ 3 13.2 177°.12 0°.4/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.86 | + 1 20.1 | 2.253 | 3.101 | 10.9 | 20.3 |
| 2 21 | 11 48.67 | + 2 4.3 | 2.178 | 3.103 | 7.8 | 20.1 |
| 3 2 | 11 41.92 | + 2 58.4 | 2.130 | 3.104 | 4.2 | 19.9 |
| 3 12 | 11 34.28 | + 3 57.5 | 2.111 | 3.104 | 0.5 | 19.6 |
| 3 22 | 11 26.51 | + 4 56.2 | 2.121 | 3.104 | 3.6 | 19.8 |
| 4 1 | 11 19.42 | + 5 48.8 | 2.160 | 3.104 | 7.3 | 20.1 |
| 4 11 | 11 13.69 | + 6 31.0 | 2.226 | 3.104 | 10.5 | 20.3 |
| 4 21 | 11 9.77 | + 7 0.2 | 2.314 | 3.103 | 13.3 | 20.5 |

**254672** 2005 $LG_{41}$ 3 13.2 268°.02 0°.4/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.44 | + 1 1.5 | 1.740 | 2.596 | 13.3 | 21.0 |
| 2 21 | 11 50.34 | + 1 46.9 | 1.652 | 2.579 | 9.5 | 20.8 |
| 3 2 | 11 43.07 | + 2 46.6 | 1.588 | 2.562 | 5.2 | 20.5 |
| 3 12 | 11 34.42 | + 3 54.9 | 1.551 | 2.544 | 0.6 | 20.1 |
| 3 22 | 11 25.38 | + 5 4.2 | 1.542 | 2.526 | 4.5 | 20.3 |
| 4 1 | 11 17.09 | + 6 6.6 | 1.561 | 2.508 | 9.2 | 20.6 |
| 4 11 | 11 10.54 | + 6 55.7 | 1.604 | 2.490 | 13.5 | 20.8 |
| 4 21 | 11 6.38 | + 7 27.7 | 1.668 | 2.471 | 17.1 | 21.0 |

**250617** 2005 $GD_{27}$ 3 13.2 347°.72 6°.0/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.89 | − 9 3.1 | 1.216 | 2.058 | 18.7 | 19.7 |
| 2 21 | 11 51.32 | − 9 51.7 | 1.142 | 2.050 | 14.8 | 19.5 |
| 3 2 | 11 43.86 | −10 16.5 | 1.089 | 2.043 | 10.3 | 19.2 |
| 3 12 | 11 34.52 | −10 17.0 | 1.058 | 2.037 | 6.6 | 19.0 |
| 3 22 | 11 24.69 | − 9 56.1 | 1.050 | 2.032 | 6.7 | 19.0 |
| 4 1 | 11 15.97 | − 9 20.8 | 1.066 | 2.028 | 10.6 | 19.1 |
| 4 11 | 11 9.74 | − 8 40.8 | 1.104 | 2.025 | 15.1 | 19.4 |
| 4 21 | 11 6.72 | − 8 5.1 | 1.160 | 2.024 | 19.3 | 19.6 |

**502940** 2015 $EE_{46}$ 3 13.2 85°.02 0°.0/13.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.58 | − 0 21.9 | 2.022 | 2.872 | 11.9 | 21.6 |
| 2 21 | 11 47.90 | + 0 28.3 | 1.951 | 2.875 | 8.5 | 21.4 |
| 3 2 | 11 41.55 | + 1 31.2 | 1.906 | 2.879 | 4.6 | 21.2 |
| 3 12 | 11 34.25 | + 2 41.2 | 1.888 | 2.882 | 0.5 | 20.9 |
| 3 22 | 11 26.83 | + 3 51.9 | 1.900 | 2.885 | 3.7 | 21.1 |
| 4 1 | 11 20.15 | + 4 56.7 | 1.940 | 2.888 | 7.6 | 21.4 |
| 4 11 | 11 14.96 | + 5 50.1 | 2.005 | 2.891 | 11.2 | 21.6 |
| 4 21 | 11 11.69 | + 6 28.8 | 2.092 | 2.894 | 14.1 | 21.8 |

**332791** 2009 $WJ_{9}$ 3 13.2 175°.51 3°.8/ 9.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.23 | +12 19.2 | 2.140 | 3.007 | 10.7 | 21.0 |
| 2 21 | 11 50.40 | +13 18.5 | 2.077 | 3.009 | 7.6 | 20.8 |
| 3 2 | 11 42.88 | +14 19.0 | 2.040 | 3.010 | 4.7 | 20.6 |
| 3 12 | 11 34.40 | +15 13.9 | 2.032 | 3.011 | 3.9 | 20.6 |
| 3 22 | 11 25.82 | +15 57.4 | 2.053 | 3.012 | 6.3 | 20.7 |
| 4 1 | 11 18.04 | +16 25.2 | 2.102 | 3.012 | 9.4 | 20.9 |
| 4 11 | 11 11.80 | +16 35.2 | 2.175 | 3.012 | 12.4 | 21.1 |
| 4 21 | 11 7.56 | +16 27.9 | 2.269 | 3.011 | 14.9 | 21.3 |

**327405** 2005 $VO_{32}$ 3 13.2 182°.83 5°.9/19.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.51 | −18 8.4 | 2.199 | 2.959 | 14.2 | 20.8 |
| 2 21 | 11 49.30 | −18 4.4 | 2.111 | 2.959 | 11.7 | 20.6 |
| 3 2 | 11 42.35 | −17 36.8 | 2.046 | 2.959 | 9.0 | 20.4 |
| 3 12 | 11 34.35 | −16 46.3 | 2.006 | 2.959 | 6.6 | 20.3 |
| 3 22 | 11 26.14 | −15 36.2 | 1.994 | 2.958 | 5.9 | 20.2 |
| 4 1 | 11 18.63 | −14 12.7 | 2.010 | 2.957 | 7.5 | 20.3 |
| 4 11 | 11 12.59 | −12 43.7 | 2.053 | 2.956 | 10.1 | 20.5 |
| 4 21 | 11 8.53 | −11 16.9 | 2.120 | 2.954 | 12.9 | 20.6 |

**269390** Igortkachenko 3 13.2 126°.88 0°.9/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.30 | − 1 54.7 | 2.296 | 3.127 | 11.4 | 22.2 |
| 2 21 | 11 50.97 | − 1 31.8 | 2.232 | 3.145 | 8.2 | 22.0 |
| 3 2 | 11 43.11 | − 0 57.8 | 2.194 | 3.162 | 4.7 | 21.8 |
| 3 12 | 11 34.42 | − 0 16.5 | 2.186 | 3.178 | 1.2 | 21.6 |
| 3 22 | 11 25.71 | + 0 27.3 | 2.208 | 3.194 | 3.1 | 21.8 |
| 4 1 | 11 17.79 | + 1 8.9 | 2.259 | 3.209 | 6.6 | 22.0 |
| 4 11 | 11 11.33 | + 1 44.0 | 2.338 | 3.223 | 9.8 | 22.2 |
| 4 21 | 11 6.73 | + 2 9.6 | 2.440 | 3.236 | 12.5 | 22.4 |

**182262** Solene 3 13.2 13°.19 1°.7/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.86 | + 4 43.6 | 1.246 | 2.126 | 15.8 | 20.1 |
| 2 21 | 11 50.97 | + 5 14.7 | 1.189 | 2.128 | 11.2 | 19.8 |
| 3 2 | 11 43.48 | + 5 56.7 | 1.153 | 2.131 | 5.9 | 19.5 |
| 3 12 | 11 34.47 | + 6 41.9 | 1.143 | 2.135 | 1.7 | 19.2 |
| 3 22 | 11 25.33 | + 7 21.7 | 1.157 | 2.140 | 5.9 | 19.5 |
| 4 1 | 11 17.48 | + 7 48.7 | 1.196 | 2.146 | 11.1 | 19.8 |
| 4 11 | 11 12.01 | + 7 58.2 | 1.256 | 2.152 | 15.7 | 20.1 |
| 4 21 | 11 9.48 | + 7 49.0 | 1.335 | 2.159 | 19.5 | 20.4 |

**130579** 2000 $RX_{69}$ 3 13.2 209°.89 2°.5/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.99 | + 7 42.7 | 1.760 | 2.622 | 12.8 | 20.3 |
| 2 21 | 11 53.43 | + 8 22.5 | 1.686 | 2.618 | 9.0 | 20.0 |
| 3 2 | 11 44.68 | + 9 8.3 | 1.637 | 2.612 | 5.0 | 19.8 |
| 3 12 | 11 34.60 | + 9 53.3 | 1.617 | 2.606 | 2.5 | 19.6 |
| 3 22 | 11 24.30 | +10 30.6 | 1.625 | 2.600 | 5.8 | 19.8 |
| 4 1 | 11 14.95 | +10 54.9 | 1.661 | 2.593 | 9.9 | 20.0 |
| 4 11 | 11 7.51 | +11 2.8 | 1.721 | 2.585 | 13.8 | 20.2 |
| 4 21 | 11 2.56 | +10 53.9 | 1.801 | 2.577 | 17.0 | 20.4 |

**255691** 2006 $QD_{61}$ 3 13.2 221°.99 4°.2/16.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.81 | − 9 15.6 | 1.766 | 2.581 | 15.0 | 21.1 |
| 2 21 | 11 51.97 | − 9 25.8 | 1.683 | 2.577 | 11.6 | 20.9 |
| 3 2 | 11 43.94 | − 9 16.1 | 1.622 | 2.573 | 7.9 | 20.7 |
| 3 12 | 11 34.54 | − 8 48.0 | 1.588 | 2.568 | 4.7 | 20.5 |
| 3 22 | 11 24.81 | − 8 5.3 | 1.581 | 2.563 | 4.9 | 20.5 |
| 4 1 | 11 15.92 | − 7 14.4 | 1.602 | 2.557 | 8.3 | 20.6 |
| 4 11 | 11 8.85 | − 6 23.0 | 1.647 | 2.552 | 12.1 | 20.8 |
| 4 21 | 11 4.23 | − 5 37.4 | 1.715 | 2.546 | 15.6 | 21.1 |

**502375** 2015 $BO_{242}$ 3 13.2 273°.26 1°.3/14.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.09 | − 3 4.9 | 1.918 | 2.759 | 12.9 | 21.3 |
| 2 21 | 11 49.10 | − 2 38.4 | 1.840 | 2.757 | 9.4 | 21.1 |
| 3 2 | 11 42.27 | − 1 56.9 | 1.787 | 2.755 | 5.5 | 20.8 |
| 3 12 | 11 34.35 | − 1 4.7 | 1.762 | 2.753 | 1.7 | 20.5 |
| 3 22 | 11 26.25 | − 0 7.4 | 1.764 | 2.751 | 3.6 | 20.7 |
| 4 1 | 11 18.90 | + 0 48.3 | 1.795 | 2.749 | 7.6 | 20.9 |
| 4 11 | 11 13.15 | + 1 36.6 | 1.851 | 2.747 | 11.4 | 21.1 |
| 4 21 | 11 9.49 | + 2 13.1 | 1.929 | 2.745 | 14.6 | 21.3 |

**380873** 2006 $CW_{22}$ 3 13.2 200°.48 0°.6/13.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.96 | − 0 0.4 | 2.194 | 3.034 | 11.5 | 21.3 |
| 2 21 | 11 50.94 | + 0 10.2 | 2.113 | 3.031 | 8.3 | 21.1 |
| 3 2 | 11 43.20 | + 0 30.5 | 2.059 | 3.029 | 4.7 | 20.9 |
| 3 12 | 11 34.46 | + 0 57.4 | 2.033 | 3.026 | 0.9 | 20.6 |
| 3 22 | 11 25.53 | + 1 26.4 | 2.037 | 3.023 | 3.4 | 20.8 |
| 4 1 | 11 17.31 | + 1 53.2 | 2.071 | 3.020 | 7.2 | 21.0 |
| 4 11 | 11 10.57 | + 2 13.6 | 2.130 | 3.016 | 10.6 | 21.2 |
| 4 21 | 11 5.78 | + 2 24.8 | 2.212 | 3.012 | 13.5 | 21.4 |

**301614** 2010 $DT_{38}$ 3 13.2 308°.78 1°.9/11.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.93 | + 3 4.3 | 1.229 | 2.108 | 16.0 | 20.7 |
| 2 21 | 11 49.89 | + 4 9.9 | 1.153 | 2.093 | 11.4 | 20.4 |
| 3 2 | 11 43.08 | + 5 33.7 | 1.099 | 2.077 | 6.1 | 20.1 |
| 3 12 | 11 34.47 | + 7 6.1 | 1.070 | 2.062 | 1.9 | 19.8 |
| 3 22 | 11 25.37 | + 8 35.2 | 1.066 | 2.048 | 6.6 | 20.0 |
| 4 1 | 11 17.33 | + 9 49.2 | 1.086 | 2.034 | 12.2 | 20.3 |
| 4 11 | 11 11.63 | +10 39.9 | 1.127 | 2.020 | 17.3 | 20.5 |
| 4 21 | 11 9.02 | +11 3.9 | 1.185 | 2.007 | 21.6 | 20.7 |

**60586** 2000 $EZ_{136}$ 3 13.2 43°.25 2°.0/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.16 | + 4 45.5 | 1.452 | 2.326 | 14.3 | 18.8 |
| 2 21 | 11 50.15 | + 5 41.0 | 1.397 | 2.334 | 10.0 | 18.5 |
| 3 2 | 11 42.92 | + 6 46.8 | 1.365 | 2.342 | 5.3 | 18.3 |
| 3 12 | 11 34.43 | + 7 54.6 | 1.359 | 2.351 | 2.0 | 18.1 |
| 3 22 | 11 25.87 | + 8 55.6 | 1.380 | 2.360 | 5.8 | 18.3 |
| 4 1 | 11 18.45 | + 9 42.2 | 1.427 | 2.369 | 10.4 | 18.6 |
| 4 11 | 11 13.11 | +10 10.0 | 1.496 | 2.379 | 14.4 | 18.9 |
| 4 21 | 11 10.33 | +10 17.8 | 1.585 | 2.389 | 17.8 | 19.1 |

**135122** 2001 $QH_{139}$ 3 13.2 149°.37 1°.6/15.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.69 | − 4 4.4 | 2.617 | 3.439 | 10.4 | 19.9 |
| 2 21 | 11 49.08 | − 3 56.7 | 2.540 | 3.445 | 7.7 | 19.8 |
| 3 2 | 11 42.10 | − 3 38.0 | 2.489 | 3.451 | 4.7 | 19.6 |
| 3 12 | 11 34.34 | − 3 11.1 | 2.468 | 3.457 | 1.9 | 19.4 |
| 3 22 | 11 26.48 | − 2 39.1 | 2.476 | 3.462 | 2.9 | 19.5 |
| 4 1 | 11 19.22 | − 2 6.1 | 2.514 | 3.466 | 5.9 | 19.7 |
| 4 11 | 11 13.17 | − 1 36.1 | 2.580 | 3.471 | 8.8 | 19.9 |
| 4 21 | 11 8.74 | − 1 12.3 | 2.670 | 3.475 | 11.3 | 20.0 |

**363622** 2004 $PN_{91}$ 3 13.2 166°.85 2°.1/16.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.20 | − 9 36.0 | 2.526 | 3.328 | 11.4 | 21.2 |
| 2 21 | 11 48.09 | − 8 26.6 | 2.442 | 3.333 | 8.6 | 21.0 |
| 3 2 | 11 41.59 | − 6 59.1 | 2.384 | 3.337 | 5.5 | 20.8 |
| 3 12 | 11 34.29 | − 5 17.7 | 2.356 | 3.341 | 2.6 | 20.7 |
| 3 22 | 11 26.89 | − 3 28.5 | 2.359 | 3.345 | 3.0 | 20.7 |
| 4 1 | 11 20.10 | − 1 38.8 | 2.394 | 3.347 | 6.1 | 20.9 |
| 4 11 | 11 14.54 | + 0 4.4 | 2.458 | 3.349 | 9.1 | 21.1 |
| 4 21 | 11 10.61 | + 1 35.9 | 2.547 | 3.351 | 11.8 | 21.3 |

**111617** 2002 $AV_{112}$ 3 13.2 351.°77 5.°6/18.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.01 | −13 56.4 | 2.184 | 2.966 | 13.6 | 18.9 |
| 2 21 | 11 50.40 | −14 37.6 | 2.099 | 2.964 | 11.0 | 18.8 |
| 3 2 | 11 42.98 | −15 0.8 | 2.037 | 2.962 | 8.3 | 18.6 |
| 3 12 | 11 34.45 | −15 5.6 | 2.001 | 2.961 | 6.1 | 18.4 |
| 3 22 | 11 25.65 | −14 53.7 | 1.993 | 2.959 | 5.8 | 18.4 |
| 4 1 | 11 17.51 | −14 28.7 | 2.013 | 2.958 | 7.6 | 18.5 |
| 4 11 | 11 10.84 | −13 56.3 | 2.059 | 2.958 | 10.3 | 18.7 |
| 4 21 | 11 6.19 | −13 22.4 | 2.127 | 2.957 | 13.0 | 18.9 |

**322437** 2011 $SK_{256}$ 3 13.2 268.°20 2.°7/10.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.49 | + 9 57.9 | 2.453 | 3.317 | 9.6 | 21.0 |
| 2 21 | 11 48.41 | +10 43.8 | 2.370 | 3.302 | 6.8 | 20.8 |
| 3 2 | 11 41.82 | +11 32.9 | 2.315 | 3.288 | 3.9 | 20.6 |
| 3 12 | 11 34.33 | +12 20.0 | 2.288 | 3.273 | 2.7 | 20.5 |
| 3 22 | 11 26.64 | +12 59.9 | 2.292 | 3.259 | 5.0 | 20.6 |
| 4 1 | 11 19.53 | +13 28.6 | 2.323 | 3.244 | 8.1 | 20.8 |
| 4 11 | 11 13.67 | +13 43.4 | 2.380 | 3.229 | 11.0 | 20.9 |
| 4 21 | 11 9.53 | +13 43.4 | 2.458 | 3.214 | 13.5 | 21.1 |

**9173** 1989 $TZ_{15}$ 3 13.2 293.°79 0.°1/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.84 | + 2 9.3 | 1.878 | 2.731 | 12.6 | 16.9 |
| 2 21 | 11 51.16 | + 2 18.4 | 1.794 | 2.720 | 9.0 | 16.6 |
| 3 2 | 11 43.46 | + 2 37.0 | 1.734 | 2.708 | 4.9 | 16.4 |
| 3 12 | 11 34.51 | + 3 1.0 | 1.703 | 2.696 | 0.5 | 16.0 |
| 3 22 | 11 25.26 | + 3 25.5 | 1.699 | 2.684 | 4.0 | 16.3 |
| 4 1 | 11 16.78 | + 3 45.6 | 1.724 | 2.673 | 8.4 | 16.5 |
| 4 11 | 11 9.98 | + 3 56.9 | 1.773 | 2.661 | 12.3 | 16.7 |
| 4 21 | 11 5.43 | + 3 57.0 | 1.844 | 2.650 | 15.6 | 16.9 |

**502359** 2015 $BW_{222}$ 3 13.2 274.°73 1.°5/14.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.95 | − 2 36.6 | 1.839 | 2.681 | 13.3 | 20.7 |
| 2 21 | 11 50.56 | − 2 25.4 | 1.754 | 2.671 | 9.8 | 20.5 |
| 3 2 | 11 43.15 | − 1 59.9 | 1.694 | 2.662 | 5.8 | 20.2 |
| 3 12 | 11 34.48 | − 1 23.4 | 1.660 | 2.652 | 1.8 | 19.9 |
| 3 22 | 11 25.51 | − 0 41.1 | 1.655 | 2.642 | 3.8 | 20.1 |
| 4 1 | 11 17.29 | + 0 1.0 | 1.678 | 2.632 | 8.1 | 20.3 |
| 4 11 | 11 10.77 | + 0 36.8 | 1.725 | 2.623 | 12.0 | 20.5 |
| 4 21 | 11 6.51 | + 1 2.3 | 1.795 | 2.613 | 15.5 | 20.7 |

**130475** 2000 $QC_{90}$ 3 13.2 174.°28 2.°7/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.72 | − 6 10.9 | 1.795 | 2.620 | 14.3 | 19.6 |
| 2 21 | 11 52.50 | − 6 2.1 | 1.718 | 2.623 | 10.8 | 19.3 |
| 3 2 | 11 44.18 | − 5 35.5 | 1.665 | 2.625 | 6.8 | 19.1 |
| 3 12 | 11 34.58 | − 4 54.1 | 1.639 | 2.626 | 3.1 | 18.9 |
| 3 22 | 11 24.78 | − 4 3.0 | 1.642 | 2.627 | 4.1 | 18.9 |
| 4 1 | 11 15.86 | − 3 9.2 | 1.672 | 2.627 | 8.0 | 19.2 |
| 4 11 | 11 8.78 | − 2 19.4 | 1.728 | 2.627 | 11.9 | 19.4 |
| 4 21 | 11 4.10 | − 1 39.0 | 1.807 | 2.626 | 15.3 | 19.6 |

**248836** 2006 $SF_{387}$ 3 13.2 235.°59 0.°1/13.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.80 | − 0 1.8 | 2.532 | 3.375 | 10.1 | 21.5 |
| 2 21 | 11 47.16 | + 0 49.0 | 2.444 | 3.365 | 7.2 | 21.3 |
| 3 2 | 11 41.13 | + 1 50.5 | 2.384 | 3.356 | 3.9 | 21.1 |
| 3 12 | 11 34.26 | + 2 58.2 | 2.352 | 3.346 | 0.4 | 20.8 |
| 3 22 | 11 27.21 | + 4 7.1 | 2.351 | 3.336 | 3.2 | 21.0 |
| 4 1 | 11 20.68 | + 5 11.5 | 2.380 | 3.325 | 6.6 | 21.2 |
| 4 11 | 11 15.32 | + 6 6.9 | 2.435 | 3.314 | 9.7 | 21.4 |
| 4 21 | 11 11.54 | + 6 50.0 | 2.514 | 3.303 | 12.4 | 21.5 |

**190463** 2000 $CE_{57}$ 3 13.2 76.°71 0.°6/13.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.44 | + 0 21.9 | 1.960 | 2.803 | 12.5 | 19.8 |
| 2 21 | 11 51.95 | + 0 25.2 | 1.902 | 2.822 | 9.0 | 19.7 |
| 3 2 | 11 43.71 | + 0 38.4 | 1.869 | 2.840 | 5.0 | 19.4 |
| 3 12 | 11 34.53 | + 0 57.8 | 1.865 | 2.858 | 0.9 | 19.2 |
| 3 22 | 11 25.35 | + 1 19.1 | 1.890 | 2.876 | 3.5 | 19.4 |
| 4 1 | 11 17.14 | + 1 37.8 | 1.943 | 2.894 | 7.5 | 19.7 |
| 4 11 | 11 10.63 | + 1 50.0 | 2.023 | 2.912 | 10.9 | 19.9 |
| 4 21 | 11 6.26 | + 1 53.4 | 2.125 | 2.929 | 13.9 | 20.2 |

**109888** 2001 $SY_9$ 3 13.2 91.°46 4.°3/ 9.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.33 | +13 10.6 | 1.780 | 2.650 | 12.3 | 19.5 |
| 2 21 | 11 52.74 | +13 55.5 | 1.730 | 2.663 | 8.8 | 19.3 |
| 3 2 | 11 44.17 | +14 39.8 | 1.706 | 2.676 | 5.4 | 19.1 |
| 3 12 | 11 34.58 | +15 16.1 | 1.710 | 2.689 | 4.4 | 19.1 |
| 3 22 | 11 25.03 | +15 38.6 | 1.741 | 2.703 | 6.9 | 19.3 |
| 4 1 | 11 16.60 | +15 43.8 | 1.800 | 2.715 | 10.4 | 19.5 |
| 4 11 | 11 10.10 | +15 30.8 | 1.881 | 2.728 | 13.6 | 19.7 |
| 4 21 | 11 5.97 | +15 1.0 | 1.983 | 2.741 | 16.3 | 20.0 |

**204703** 2006 $FD_{24}$ 3 13.2 303.°71 0.°8/12.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.28 | + 1 30.3 | 1.410 | 2.278 | 15.1 | 20.4 |
| 2 21 | 11 50.49 | + 2 20.7 | 1.338 | 2.272 | 10.8 | 20.1 |
| 3 2 | 11 43.25 | + 3 27.2 | 1.290 | 2.266 | 5.8 | 19.8 |
| 3 12 | 11 34.50 | + 4 42.0 | 1.267 | 2.260 | 0.8 | 19.4 |
| 3 22 | 11 25.46 | + 5 55.9 | 1.270 | 2.255 | 5.3 | 19.7 |
| 4 1 | 11 17.45 | + 6 59.3 | 1.300 | 2.249 | 10.4 | 20.0 |
| 4 11 | 11 11.57 | + 7 45.4 | 1.352 | 2.244 | 15.0 | 20.2 |
| 4 21 | 11 8.44 | + 8 10.7 | 1.423 | 2.239 | 18.9 | 20.5 |

**108340** 2001 $KH_5$ 3 13.2 260.°92 3.°1/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.54 | + 7 16.0 | 1.467 | 2.340 | 14.3 | 19.5 |
| 2 21 | 11 52.89 | + 8 15.9 | 1.388 | 2.324 | 10.1 | 19.2 |
| 3 2 | 11 44.63 | + 9 25.8 | 1.332 | 2.308 | 5.6 | 18.9 |
| 3 12 | 11 34.66 | +10 36.7 | 1.302 | 2.291 | 3.2 | 18.7 |
| 3 22 | 11 24.24 | +11 39.0 | 1.300 | 2.274 | 6.9 | 18.9 |
| 4 1 | 11 14.79 | +12 24.3 | 1.323 | 2.257 | 11.8 | 19.1 |
| 4 11 | 11 7.50 | +12 47.5 | 1.369 | 2.239 | 16.3 | 19.3 |
| 4 21 | 11 3.10 | +12 47.8 | 1.432 | 2.221 | 20.1 | 19.5 |

**250245** 2003 $AR_{34}$ 3 13.2 116.°48 2.°6/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.45 | + 7 13.7 | 1.935 | 2.799 | 11.8 | 20.0 |
| 2 21 | 11 50.60 | + 8 23.8 | 1.883 | 2.816 | 8.2 | 19.8 |
| 3 2 | 11 42.99 | + 9 39.5 | 1.857 | 2.832 | 4.5 | 19.6 |
| 3 12 | 11 34.46 | +10 53.3 | 1.860 | 2.848 | 2.7 | 19.5 |
| 3 22 | 11 25.93 | +11 58.1 | 1.892 | 2.863 | 5.5 | 19.7 |
| 4 1 | 11 18.34 | +12 48.2 | 1.952 | 2.878 | 9.1 | 20.0 |
| 4 11 | 11 12.42 | +13 20.5 | 2.037 | 2.892 | 12.3 | 20.2 |
| 4 21 | 11 8.61 | +13 34.6 | 2.142 | 2.906 | 15.0 | 20.4 |

**166959** 2003 $MF_{12}$ 3 13.2 300.°03 15.°5/27.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.42 | −34 5.6 | 1.540 | 2.219 | 22.3 | 19.6 |
| 2 21 | 11 50.46 | −35 22.5 | 1.444 | 2.199 | 20.6 | 19.4 |
| 3 2 | 11 43.58 | −36 1.6 | 1.363 | 2.180 | 18.7 | 19.2 |
| 3 12 | 11 34.57 | −35 54.7 | 1.298 | 2.161 | 16.9 | 19.0 |
| 3 22 | 11 24.75 | −34 57.6 | 1.252 | 2.142 | 15.7 | 18.9 |
| 4 1 | 11 15.73 | −33 12.4 | 1.226 | 2.123 | 15.7 | 18.8 |
| 4 11 | 11 9.04 | −30 49.8 | 1.220 | 2.104 | 16.9 | 18.8 |
| 4 21 | 11 5.65 | −28 5.2 | 1.234 | 2.086 | 19.1 | 18.9 |

**143044** 2002 $VO_{128}$ 3 13.2 106.°08 1.°4/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.90 | + 4 7.5 | 1.744 | 2.605 | 13.0 | 20.1 |
| 2 21 | 11 51.11 | + 4 51.6 | 1.685 | 2.616 | 9.1 | 19.9 |
| 3 2 | 11 43.35 | + 5 44.7 | 1.650 | 2.625 | 4.8 | 19.7 |
| 3 12 | 11 34.51 | + 6 40.3 | 1.643 | 2.635 | 1.4 | 19.5 |
| 3 22 | 11 25.61 | + 7 31.4 | 1.664 | 2.645 | 4.8 | 19.7 |
| 4 1 | 11 17.70 | + 8 12.1 | 1.713 | 2.654 | 9.0 | 20.0 |
| 4 11 | 11 11.63 | + 8 38.1 | 1.786 | 2.663 | 12.7 | 20.2 |
| 4 21 | 11 7.86 | + 8 47.9 | 1.880 | 2.672 | 15.8 | 20.5 |

**283941** 2004 $PJ_{59}$ 3 13.2 130.°70 0.°6/12.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.98 | + 0 41.0 | 1.885 | 2.732 | 12.8 | 21.5 |
| 2 21 | 11 51.71 | + 1 48.8 | 1.826 | 2.750 | 9.0 | 21.3 |
| 3 2 | 11 43.61 | + 3 8.9 | 1.794 | 2.768 | 4.8 | 21.1 |
| 3 12 | 11 34.53 | + 4 34.2 | 1.791 | 2.784 | 0.7 | 20.8 |
| 3 22 | 11 25.44 | + 5 56.8 | 1.818 | 2.800 | 4.2 | 21.1 |
| 4 1 | 11 17.32 | + 7 9.4 | 1.874 | 2.815 | 8.4 | 21.4 |
| 4 11 | 11 10.95 | + 8 6.9 | 1.955 | 2.829 | 12.0 | 21.6 |
| 4 21 | 11 6.77 | + 8 46.7 | 2.058 | 2.842 | 14.9 | 21.9 |

**433580** 2013 $YP_{31}$ 3 13.2 277.°49 3.°1/ 9.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.18 | + 9 36.4 | 2.190 | 3.060 | 10.3 | 20.7 |
| 2 21 | 11 47.57 | +10 47.8 | 2.123 | 3.058 | 7.2 | 20.5 |
| 3 2 | 11 41.39 | +12 3.4 | 2.083 | 3.056 | 4.2 | 20.3 |
| 3 12 | 11 34.31 | +13 16.4 | 2.071 | 3.055 | 3.2 | 20.2 |
| 3 22 | 11 27.10 | +14 20.3 | 2.089 | 3.053 | 5.7 | 20.4 |
| 4 1 | 11 20.58 | +15 9.8 | 2.134 | 3.051 | 8.9 | 20.6 |
| 4 11 | 11 15.43 | +15 41.9 | 2.204 | 3.050 | 11.9 | 20.8 |
| 4 21 | 11 12.12 | +15 55.8 | 2.294 | 3.048 | 14.4 | 20.9 |

**437228** 2012 $XM_5$ 3 13.2 172.°58 5.°3/20.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.47 | −18 6.9 | 2.436 | 3.194 | 13.0 | 21.4 |
| 2 21 | 11 47.02 | −17 55.6 | 2.347 | 3.194 | 10.7 | 21.2 |
| 3 2 | 11 41.09 | −17 22.6 | 2.282 | 3.195 | 8.2 | 21.1 |
| 3 12 | 11 34.28 | −16 29.1 | 2.242 | 3.195 | 6.1 | 20.9 |
| 3 22 | 11 27.32 | −15 18.3 | 2.230 | 3.195 | 5.4 | 20.9 |
| 4 1 | 11 20.95 | −13 55.9 | 2.247 | 3.195 | 6.8 | 21.0 |
| 4 11 | 11 15.85 | −12 28.8 | 2.291 | 3.195 | 9.2 | 21.1 |
| 4 21 | 11 12.46 | −11 3.8 | 2.359 | 3.195 | 11.7 | 21.3 |

**292086** 2006 $RT_{34}$ 3 13.2 142.°80 1.°6/15.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.75 | − 6 11.7 | 2.748 | 3.565 | 10.2 | 21.3 |
| 2 21 | 11 46.97 | − 5 32.1 | 2.672 | 3.573 | 7.6 | 21.1 |
| 3 2 | 11 40.96 | − 4 39.7 | 2.622 | 3.582 | 4.6 | 21.0 |
| 3 12 | 11 34.26 | − 3 37.8 | 2.602 | 3.590 | 2.0 | 20.8 |
| 3 22 | 11 27.49 | − 2 30.7 | 2.611 | 3.597 | 2.7 | 20.8 |
| 4 1 | 11 21.28 | − 1 23.5 | 2.651 | 3.605 | 5.6 | 21.1 |
| 4 11 | 11 16.16 | − 0 21.1 | 2.719 | 3.612 | 8.3 | 21.2 |
| 4 21 | 11 12.51 | + 0 33.0 | 2.812 | 3.618 | 10.8 | 21.4 |

**436866** 2012 $TZ_{10}$ 3 13.2 157.°62 2.°5/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.22 | − 8 55.8 | 2.554 | 3.360 | 11.1 | 21.7 |
| 2 21 | 11 47.41 | − 8 27.5 | 2.472 | 3.364 | 8.5 | 21.5 |
| 3 2 | 11 41.24 | − 7 43.8 | 2.417 | 3.368 | 5.6 | 21.3 |
| 3 12 | 11 34.30 | − 6 47.6 | 2.389 | 3.371 | 3.0 | 21.1 |
| 3 22 | 11 27.24 | − 5 42.9 | 2.391 | 3.375 | 3.2 | 21.2 |
| 4 1 | 11 20.76 | − 4 35.3 | 2.423 | 3.378 | 5.9 | 21.3 |
| 4 11 | 11 15.46 | − 3 30.1 | 2.482 | 3.381 | 8.8 | 21.5 |
| 4 21 | 11 11.77 | − 2 32.0 | 2.566 | 3.383 | 11.4 | 21.7 |

**402902** 2007 $TG_{38}$ 3 13.2 164°.56 0°.7/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.44 | + 2 16.7 | 1.946 | 2.795 | 12.4 | 22.5 |
| 2 21 | 11 52.10 | + 2 58.6 | 1.876 | 2.801 | 8.8 | 22.3 |
| 3 2 | 11 43.88 | + 3 50.6 | 1.833 | 2.806 | 4.7 | 22.1 |
| 3 12 | 11 34.58 | + 4 47.3 | 1.818 | 2.811 | 0.7 | 21.8 |
| 3 22 | 11 25.16 | + 5 42.1 | 1.832 | 2.815 | 4.2 | 22.0 |
| 4 1 | 11 16.62 | + 6 29.1 | 1.876 | 2.818 | 8.3 | 22.3 |
| 4 11 | 11 9.77 | + 7 3.8 | 1.944 | 2.820 | 11.9 | 22.5 |
| 4 21 | 11 5.12 | + 7 23.8 | 2.035 | 2.822 | 15.0 | 22.7 |

**488943** 2005 $UL_{147}$ 3 13.2 206°.87 3°.0/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.52 | + 9 3.3 | 1.902 | 2.761 | 12.2 | 22.0 |
| 2 21 | 11 54.45 | + 9 54.1 | 1.824 | 2.754 | 8.6 | 21.8 |
| 3 2 | 11 45.25 | +10 49.6 | 1.773 | 2.746 | 4.9 | 21.6 |
| 3 12 | 11 34.74 | +11 43.0 | 1.751 | 2.738 | 3.1 | 21.4 |
| 3 22 | 11 23.98 | +12 27.3 | 1.758 | 2.728 | 6.0 | 21.6 |
| 4 1 | 11 14.10 | +12 57.0 | 1.794 | 2.717 | 9.9 | 21.8 |
| 4 11 | 11 6.04 | +13 9.2 | 1.855 | 2.705 | 13.6 | 22.0 |
| 4 21 | 11 0.40 | +13 3.6 | 1.935 | 2.693 | 16.6 | 22.2 |

**89266** 2001 $VH_{7}$ 3 13.2 72°.82 4°.4/18.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.83 | −14 17.4 | 2.261 | 3.046 | 13.1 | 19.8 |
| 2 21 | 11 47.29 | −14 0.7 | 2.184 | 3.054 | 10.4 | 19.6 |
| 3 2 | 11 41.23 | −13 23.6 | 2.131 | 3.063 | 7.5 | 19.4 |
| 3 12 | 11 34.31 | −12 27.9 | 2.103 | 3.071 | 5.1 | 19.3 |
| 3 22 | 11 27.27 | −11 18.1 | 2.104 | 3.080 | 4.6 | 19.3 |
| 4 1 | 11 20.92 | −10 0.2 | 2.134 | 3.088 | 6.6 | 19.4 |
| 4 11 | 11 15.92 | − 8 41.2 | 2.190 | 3.097 | 9.4 | 19.6 |
| 4 21 | 11 12.70 | − 7 27.4 | 2.271 | 3.105 | 12.1 | 19.8 |

**361695** 2007 $VE_{108}$ 3 13.2 301°.58 1°.4/12.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.17 | + 3 44.9 | 1.415 | 2.286 | 14.8 | 20.7 |
| 2 21 | 11 51.24 | + 4 23.1 | 1.336 | 2.271 | 10.6 | 20.4 |
| 3 2 | 11 43.75 | + 5 14.3 | 1.280 | 2.257 | 5.7 | 20.1 |
| 3 12 | 11 34.60 | + 6 11.2 | 1.249 | 2.242 | 1.4 | 19.7 |
| 3 22 | 11 25.04 | + 7 5.4 | 1.245 | 2.228 | 5.7 | 20.0 |
| 4 1 | 11 16.44 | + 7 48.6 | 1.266 | 2.214 | 10.9 | 20.2 |
| 4 11 | 11 9.98 | + 8 14.7 | 1.310 | 2.200 | 15.6 | 20.5 |
| 4 21 | 11 6.36 | + 8 21.1 | 1.372 | 2.187 | 19.5 | 20.7 |

**499895** 2011 $FV_{137}$ 3 13.2 300°.99 0°.2/13.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.64 | + 0 16.1 | 1.767 | 2.622 | 13.2 | 21.3 |
| 2 21 | 11 49.74 | + 0 40.9 | 1.682 | 2.607 | 9.5 | 21.0 |
| 3 2 | 11 42.76 | + 1 18.9 | 1.621 | 2.593 | 5.3 | 20.8 |
| 3 12 | 11 34.49 | + 2 5.3 | 1.586 | 2.580 | 0.7 | 20.4 |
| 3 22 | 11 25.89 | + 2 54.1 | 1.580 | 2.566 | 4.1 | 20.6 |
| 4 1 | 11 18.04 | + 3 38.7 | 1.601 | 2.553 | 8.6 | 20.8 |
| 4 11 | 11 11.90 | + 4 13.2 | 1.646 | 2.539 | 12.8 | 21.1 |
| 4 21 | 11 8.07 | + 4 34.0 | 1.712 | 2.526 | 16.3 | 21.3 |

**431461** 2007 $RU_{284}$ 3 13.2 195°.91 0°.3/13.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.88 | − 0 51.2 | 2.257 | 3.100 | 11.1 | 21.7 |
| 2 21 | 11 48.03 | − 0 10.0 | 2.179 | 3.099 | 8.0 | 21.5 |
| 3 2 | 11 41.64 | + 0 42.8 | 2.127 | 3.098 | 4.4 | 21.3 |
| 3 12 | 11 34.36 | + 1 42.9 | 2.104 | 3.097 | 0.7 | 21.0 |
| 3 22 | 11 26.93 | + 2 44.7 | 2.110 | 3.095 | 3.3 | 21.2 |
| 4 1 | 11 20.15 | + 3 42.5 | 2.145 | 3.094 | 7.0 | 21.4 |
| 4 11 | 11 14.70 | + 4 31.3 | 2.206 | 3.092 | 10.3 | 21.6 |
| 4 21 | 11 11.03 | + 5 8.0 | 2.290 | 3.090 | 13.1 | 21.8 |

**429092** 2009 $RP_{59}$ 3 13.2 114°.42 2°.0/10.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.41 | + 5 49.3 | 2.196 | 3.054 | 10.8 | 21.8 |
| 2 21 | 11 49.69 | + 7 1.9 | 2.144 | 3.075 | 7.5 | 21.6 |
| 3 2 | 11 42.46 | + 8 20.6 | 2.120 | 3.095 | 4.0 | 21.5 |
| 3 12 | 11 34.44 | + 9 38.6 | 2.126 | 3.115 | 2.1 | 21.3 |
| 3 22 | 11 26.43 | +10 49.4 | 2.161 | 3.134 | 4.7 | 21.6 |
| 4 1 | 11 19.25 | +11 47.6 | 2.225 | 3.153 | 8.1 | 21.8 |
| 4 11 | 11 13.53 | +12 30.1 | 2.316 | 3.171 | 11.1 | 22.0 |
| 4 21 | 11 9.67 | +12 55.6 | 2.427 | 3.188 | 13.6 | 22.2 |

**135352** 2001 $TV_{74}$ 3 13.2 196°.46 0°.3/12.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.82 | + 1 49.4 | 2.897 | 3.739 | 9.0 | 21.0 |
| 2 21 | 11 47.72 | + 2 27.8 | 2.814 | 3.735 | 6.3 | 20.8 |
| 3 2 | 11 41.38 | + 3 13.7 | 2.759 | 3.732 | 3.4 | 20.6 |
| 3 12 | 11 34.33 | + 4 3.3 | 2.734 | 3.728 | 0.4 | 20.3 |
| 3 22 | 11 27.16 | + 4 52.5 | 2.741 | 3.723 | 2.9 | 20.5 |
| 4 1 | 11 20.49 | + 5 37.4 | 2.777 | 3.718 | 6.0 | 20.7 |
| 4 11 | 11 14.86 | + 6 14.4 | 2.840 | 3.713 | 8.7 | 20.9 |
| 4 21 | 11 10.65 | + 6 41.4 | 2.928 | 3.707 | 11.1 | 21.1 |

**505222** 2012 $TT_{309}$ 3 13.2 167°.88 2°.8/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.24 | − 9 44.7 | 2.493 | 3.296 | 11.5 | 22.0 |
| 2 21 | 11 47.48 | − 9 15.5 | 2.410 | 3.299 | 8.8 | 21.8 |
| 3 2 | 11 41.31 | − 8 30.0 | 2.352 | 3.301 | 5.9 | 21.6 |
| 3 12 | 11 34.33 | − 7 30.7 | 2.322 | 3.303 | 3.3 | 21.4 |
| 3 22 | 11 27.22 | − 6 22.1 | 2.321 | 3.304 | 3.4 | 21.5 |
| 4 1 | 11 20.70 | − 5 9.8 | 2.350 | 3.306 | 6.0 | 21.6 |
| 4 11 | 11 15.40 | − 3 59.7 | 2.407 | 3.307 | 9.0 | 21.8 |
| 4 21 | 11 11.73 | − 2 56.7 | 2.488 | 3.308 | 11.6 | 22.0 |

**211591** 2003 $SJ_{249}$ 3 13.2 135°.31 2°.9/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.52 | + 8 33.6 | 1.728 | 2.593 | 12.9 | 20.2 |
| 2 21 | 11 53.00 | + 9 18.6 | 1.669 | 2.602 | 9.0 | 20.0 |
| 3 2 | 11 44.41 | +10 8.2 | 1.635 | 2.610 | 5.0 | 19.8 |
| 3 12 | 11 34.67 | +10 55.1 | 1.629 | 2.617 | 2.9 | 19.7 |
| 3 22 | 11 24.87 | +11 32.7 | 1.652 | 2.625 | 5.9 | 19.9 |
| 4 1 | 11 16.14 | +11 55.8 | 1.702 | 2.632 | 9.9 | 20.1 |
| 4 11 | 11 9.36 | +12 2.0 | 1.775 | 2.638 | 13.5 | 20.3 |
| 4 21 | 11 5.02 | +11 51.1 | 1.869 | 2.644 | 16.6 | 20.6 |

**196257** 2003 $EM_{3}$ 3 13.2 69°.89 3°.4/10.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.73 | + 7 38.3 | 1.266 | 2.145 | 15.6 | 19.9 |
| 2 21 | 11 52.88 | + 8 41.0 | 1.220 | 2.159 | 10.9 | 19.7 |
| 3 2 | 11 44.46 | + 9 51.0 | 1.197 | 2.174 | 6.0 | 19.4 |
| 3 12 | 11 34.67 | +10 58.0 | 1.199 | 2.188 | 3.5 | 19.3 |
| 3 22 | 11 24.92 | +11 52.1 | 1.228 | 2.203 | 7.2 | 19.6 |
| 4 1 | 11 16.62 | +12 26.4 | 1.281 | 2.217 | 11.9 | 19.9 |
| 4 11 | 11 10.77 | +12 37.8 | 1.355 | 2.232 | 16.1 | 20.2 |
| 4 21 | 11 7.86 | +12 27.2 | 1.448 | 2.246 | 19.5 | 20.4 |

**435388** 2007 $XP_{57}$ 3 13.2 46°.45 4°.2/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.29 | −12 8.8 | 2.248 | 3.043 | 12.8 | 21.3 |
| 2 21 | 11 48.37 | −12 13.1 | 2.168 | 3.046 | 10.2 | 21.2 |
| 3 2 | 11 41.85 | −11 59.3 | 2.111 | 3.049 | 7.2 | 21.0 |
| 3 12 | 11 34.40 | −11 28.8 | 2.082 | 3.053 | 4.8 | 20.8 |
| 3 22 | 11 26.78 | −10 44.9 | 2.080 | 3.056 | 4.5 | 20.8 |
| 4 1 | 11 19.83 | − 9 52.7 | 2.106 | 3.060 | 6.7 | 21.0 |
| 4 11 | 11 14.25 | − 8 58.3 | 2.159 | 3.063 | 9.6 | 21.1 |
| 4 21 | 11 10.51 | − 8 7.2 | 2.235 | 3.067 | 12.4 | 21.3 |

**31335** 1998 $HY_{124}$ 3 13.2 217°.03 9°.1/28.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.77 | +35 1.8 | 2.519 | 3.353 | 10.4 | 18.0 |
| 2 21 | 11 50.82 | +36 25.4 | 2.481 | 3.350 | 9.4 | 17.9 |
| 3 2 | 11 43.15 | +37 33.6 | 2.469 | 3.347 | 9.1 | 17.9 |
| 3 12 | 11 34.54 | +38 19.8 | 2.482 | 3.344 | 9.8 | 17.9 |
| 3 22 | 11 25.88 | +38 40.1 | 2.519 | 3.341 | 11.1 | 18.0 |
| 4 1 | 11 18.09 | +38 33.3 | 2.578 | 3.338 | 12.7 | 18.1 |
| 4 11 | 11 11.90 | +38 1.5 | 2.657 | 3.334 | 14.2 | 18.2 |
| 4 21 | 11 7.76 | +37 8.3 | 2.750 | 3.331 | 15.6 | 18.4 |

**431866** 2008 $SM_{122}$ 3 13.2 184°.97 1°.5/14.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.60 | − 4 32.0 | 2.180 | 3.010 | 11.9 | 21.9 |
| 2 21 | 11 48.60 | − 3 59.5 | 2.100 | 3.010 | 8.8 | 21.7 |
| 3 2 | 11 41.98 | − 3 12.3 | 2.045 | 3.010 | 5.3 | 21.5 |
| 3 12 | 11 34.42 | − 2 14.1 | 2.019 | 3.009 | 1.9 | 21.2 |
| 3 22 | 11 26.70 | − 1 10.5 | 2.022 | 3.009 | 3.2 | 21.3 |
| 4 1 | 11 19.65 | − 0 7.3 | 2.054 | 3.008 | 6.9 | 21.6 |
| 4 11 | 11 14.00 | + 0 49.6 | 2.112 | 3.007 | 10.3 | 21.8 |
| 4 21 | 11 10.21 | + 1 35.9 | 2.193 | 3.005 | 13.2 | 22.0 |

**87344** 2000 $QM_{25}$ 3 13.2 169°.65 3°.0/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 5.64 | − 4 24.8 | 2.038 | 2.851 | 13.3 | 19.4 |
| 2 21 | 11 57.28 | − 5 10.7 | 1.955 | 2.853 | 10.1 | 19.2 |
| 3 2 | 11 46.77 | − 5 45.2 | 1.899 | 2.855 | 6.4 | 19.0 |
| 3 12 | 11 34.96 | − 6 8.7 | 1.872 | 2.856 | 3.3 | 18.8 |
| 3 22 | 11 22.89 | − 6 22.9 | 1.876 | 2.857 | 4.2 | 18.8 |
| 4 1 | 11 11.69 | − 6 30.7 | 1.910 | 2.858 | 7.7 | 19.0 |
| 4 11 | 11 2.30 | − 6 36.2 | 1.972 | 2.859 | 11.3 | 19.3 |
| 4 21 | 10 55.33 | − 6 43.1 | 2.057 | 2.859 | 14.3 | 19.5 |

**73358** 2002 $KT_{1}$ 3 13.2 223°.18 1°.8/15.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.79 | − 4 29.6 | 2.097 | 2.928 | 12.4 | 20.1 |
| 2 21 | 11 49.53 | − 4 12.8 | 2.015 | 2.924 | 9.2 | 19.9 |
| 3 2 | 11 42.53 | − 3 41.5 | 1.957 | 2.920 | 5.6 | 19.6 |
| 3 12 | 11 34.50 | − 2 59.0 | 1.927 | 2.916 | 2.2 | 19.4 |
| 3 22 | 11 26.25 | − 2 9.9 | 1.926 | 2.912 | 3.4 | 19.5 |
| 4 1 | 11 18.70 | − 1 19.9 | 1.953 | 2.908 | 7.1 | 19.7 |
| 4 11 | 11 12.61 | − 0 34.7 | 2.007 | 2.903 | 10.6 | 19.9 |
| 4 21 | 11 8.50 | + 0 1.4 | 2.083 | 2.898 | 13.7 | 20.1 |

**128633** Queyras 3 13.2 160°.64 1°.9/10.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.79 | + 8 28.8 | 2.734 | 3.593 | 8.9 | 20.0 |
| 2 21 | 11 47.73 | + 9 5.8 | 2.664 | 3.595 | 6.2 | 19.8 |
| 3 2 | 11 41.40 | + 9 45.7 | 2.622 | 3.596 | 3.4 | 19.6 |
| 3 12 | 11 34.37 | +10 24.3 | 2.610 | 3.598 | 2.0 | 19.5 |
| 3 22 | 11 27.26 | +10 57.7 | 2.627 | 3.599 | 4.1 | 19.7 |
| 4 1 | 11 20.72 | +11 22.2 | 2.674 | 3.600 | 6.9 | 19.8 |
| 4 11 | 11 15.31 | +11 35.7 | 2.747 | 3.602 | 9.5 | 20.0 |
| 4 21 | 11 11.41 | +11 37.4 | 2.842 | 3.603 | 11.8 | 20.2 |

**261999** 2006 $QK_{49}$ 3 13.2 151°.44 2°.6/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.22 | + 8 34.6 | 2.143 | 3.002 | 11.0 | 22.1 |
| 2 21 | 11 51.79 | + 9 27.8 | 2.082 | 3.013 | 7.7 | 21.9 |
| 3 2 | 11 43.66 | +10 25.0 | 2.049 | 3.022 | 4.3 | 21.7 |
| 3 12 | 11 34.61 | +11 19.8 | 2.044 | 3.031 | 2.7 | 21.6 |
| 3 22 | 11 25.52 | +12 6.4 | 2.069 | 3.039 | 5.2 | 21.8 |
| 4 1 | 11 17.27 | +12 40.2 | 2.123 | 3.046 | 8.6 | 22.0 |
| 4 11 | 11 10.59 | +12 58.7 | 2.202 | 3.053 | 11.7 | 22.3 |
| 4 21 | 11 5.95 | +13 1.4 | 2.303 | 3.059 | 14.3 | 22.4 |

**295868** 2008 $WK_{16}$ 3 13.2 127°.01 0°.1/13.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.85 | + 0 56.2 | 2.110 | 2.959 | 11.6 | 21.5 |
| 2 21 | 11 49.48 | + 1 27.2 | 2.041 | 2.964 | 8.2 | 21.3 |
| 3 2 | 11 42.45 | + 2 8.4 | 1.996 | 2.969 | 4.5 | 21.1 |
| 3 12 | 11 34.50 | + 2 55.1 | 1.981 | 2.974 | 0.5 | 20.7 |
| 3 22 | 11 26.44 | + 3 42.1 | 1.994 | 2.979 | 3.6 | 21.0 |
| 4 1 | 11 19.13 | + 4 23.9 | 2.036 | 2.984 | 7.4 | 21.3 |
| 4 11 | 11 13.30 | + 4 56.4 | 2.104 | 2.988 | 10.8 | 21.5 |
| 4 21 | 11 9.40 | + 5 16.8 | 2.194 | 2.993 | 13.7 | 21.7 |

**102376** 1999 $TX_{145}$ 3 13.2 357°.37 4°.9/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.17 | +12 35.4 | 1.276 | 2.160 | 15.2 | 18.0 |
| 2 21 | 11 53.41 | +13 11.5 | 1.217 | 2.157 | 10.9 | 17.8 |
| 3 2 | 11 44.89 | +13 48.4 | 1.182 | 2.155 | 6.6 | 17.5 |
| 3 12 | 11 34.77 | +14 16.5 | 1.171 | 2.154 | 5.1 | 17.4 |
| 3 22 | 11 24.50 | +14 28.3 | 1.185 | 2.154 | 8.3 | 17.6 |
| 4 1 | 11 15.59 | +14 18.8 | 1.223 | 2.154 | 12.8 | 17.9 |
| 4 11 | 11 9.20 | +13 47.3 | 1.282 | 2.155 | 17.0 | 18.1 |
| 4 21 | 11 5.88 | +12 55.9 | 1.359 | 2.157 | 20.5 | 18.4 |

**365189** 2009 $FM_{29}$ 3 13.2 0°.85 3°.3/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.18 | + 7 13.1 | 1.250 | 2.134 | 15.4 | 20.7 |
| 2 21 | 11 50.59 | + 8 10.4 | 1.191 | 2.133 | 10.8 | 20.4 |
| 3 2 | 11 43.38 | + 9 17.0 | 1.154 | 2.132 | 5.9 | 20.1 |
| 3 12 | 11 34.62 | +10 23.1 | 1.143 | 2.132 | 3.3 | 20.0 |
| 3 22 | 11 25.67 | +11 18.5 | 1.156 | 2.133 | 7.2 | 20.2 |
| 4 1 | 11 17.96 | +11 55.1 | 1.193 | 2.134 | 12.1 | 20.5 |
| 4 11 | 11 12.61 | +12 8.6 | 1.251 | 2.136 | 16.6 | 20.7 |
| 4 21 | 11 10.19 | +11 58.8 | 1.327 | 2.138 | 20.3 | 21.0 |

**130678** 2000 $SS_{118}$ 3 13.2 161°.87 1°.6/11.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.99 | + 5 4.3 | 1.918 | 2.773 | 12.2 | 20.1 |
| 2 21 | 11 52.53 | + 5 51.9 | 1.851 | 2.780 | 8.6 | 19.8 |
| 3 2 | 11 44.16 | + 6 47.3 | 1.811 | 2.786 | 4.6 | 19.6 |
| 3 12 | 11 34.70 | + 7 44.2 | 1.800 | 2.791 | 1.6 | 19.4 |
| 3 22 | 11 25.14 | + 8 36.0 | 1.818 | 2.796 | 4.8 | 19.6 |
| 4 1 | 11 16.49 | + 9 16.9 | 1.864 | 2.799 | 8.8 | 19.9 |
| 4 11 | 11 9.59 | + 9 43.3 | 1.935 | 2.803 | 12.4 | 20.1 |
| 4 21 | 11 4.92 | + 9 53.8 | 2.028 | 2.805 | 15.4 | 20.3 |

**241051** 2006 $SE_{5}$ 3 13.2 185°.64 1°.3/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.59 | − 4 17.8 | 2.741 | 3.564 | 10.0 | 21.2 |
| 2 21 | 11 47.63 | − 3 49.8 | 2.657 | 3.563 | 7.4 | 21.0 |
| 3 2 | 11 41.39 | − 3 10.3 | 2.600 | 3.563 | 4.4 | 20.8 |
| 3 12 | 11 34.40 | − 2 22.4 | 2.572 | 3.562 | 1.6 | 20.6 |
| 3 22 | 11 27.29 | − 1 29.9 | 2.574 | 3.561 | 2.7 | 20.7 |
| 4 1 | 11 20.70 | − 0 37.5 | 2.607 | 3.559 | 5.7 | 20.9 |
| 4 11 | 11 15.21 | + 0 10.6 | 2.667 | 3.557 | 8.6 | 21.1 |
| 4 21 | 11 11.22 | + 0 50.8 | 2.751 | 3.555 | 11.1 | 21.2 |

**160885** 2001 $QF_{110}$ 3 13.2 125°.94 2°.4/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.31 | + 6 50.9 | 1.842 | 2.707 | 12.2 | 19.8 |
| 2 21 | 11 50.66 | + 7 51.5 | 1.783 | 2.716 | 8.5 | 19.6 |
| 3 2 | 11 43.15 | + 8 58.8 | 1.749 | 2.725 | 4.6 | 19.4 |
| 3 12 | 11 34.60 | +10 5.3 | 1.744 | 2.733 | 2.5 | 19.3 |
| 3 22 | 11 25.98 | +11 3.8 | 1.767 | 2.741 | 5.5 | 19.5 |
| 4 1 | 11 18.29 | +11 48.5 | 1.818 | 2.749 | 9.3 | 19.7 |
| 4 11 | 11 12.33 | +12 15.9 | 1.893 | 2.756 | 12.8 | 19.9 |
| 4 21 | 11 8.57 | +12 25.2 | 1.988 | 2.763 | 15.7 | 20.2 |

**298306** 2003 $DG_{1}$ 3 13.2 320°.07 2°.7/14.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.89 | − 2 55.9 | 1.270 | 2.125 | 17.3 | 20.0 |
| 2 21 | 11 54.15 | − 3 20.4 | 1.195 | 2.116 | 13.0 | 19.7 |
| 3 2 | 11 45.47 | − 3 27.6 | 1.141 | 2.108 | 7.9 | 19.4 |
| 3 12 | 11 34.88 | − 3 19.8 | 1.111 | 2.101 | 3.2 | 19.1 |
| 3 22 | 11 23.81 | − 3 1.6 | 1.106 | 2.094 | 5.1 | 19.1 |
| 4 1 | 11 13.88 | − 2 39.9 | 1.127 | 2.087 | 10.4 | 19.4 |
| 4 11 | 11 6.44 | − 2 22.1 | 1.169 | 2.080 | 15.4 | 19.7 |
| 4 21 | 11 2.23 | − 2 13.6 | 1.231 | 2.075 | 19.7 | 19.9 |

**149567** 2003 $XG_{11}$ 3 13.2 88°.67 5°.9/15.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 16.75 | − 3 42.9 | 1.026 | 1.866 | 21.5 | 18.9 |
| 2 21 | 12 6.68 | − 5 37.3 | 0.965 | 1.876 | 16.5 | 18.6 |
| 3 2 | 11 52.46 | − 7 16.5 | 0.926 | 1.886 | 10.8 | 18.3 |
| 3 12 | 11 35.64 | − 8 35.9 | 0.912 | 1.895 | 6.3 | 18.1 |
| 3 22 | 11 18.49 | − 9 32.9 | 0.924 | 1.905 | 7.7 | 18.2 |
| 4 1 | 11 3.41 | −10 10.4 | 0.962 | 1.914 | 12.8 | 18.5 |
| 4 11 | 10 52.14 | −10 35.5 | 1.021 | 1.923 | 17.9 | 18.8 |
| 4 21 | 10 45.41 | −10 56.2 | 1.098 | 1.932 | 22.2 | 19.1 |

**89148** 2001 $US_{33}$ 3 13.2 109°.62 1°.5/11.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.87 | + 5 29.6 | 2.471 | 3.328 | 9.8 | 20.0 |
| 2 21 | 11 47.85 | + 6 25.2 | 2.412 | 3.341 | 6.8 | 19.8 |
| 3 2 | 11 41.50 | + 7 26.4 | 2.380 | 3.355 | 3.6 | 19.7 |
| 3 12 | 11 34.42 | + 8 28.1 | 2.377 | 3.368 | 1.6 | 19.5 |
| 3 22 | 11 27.31 | + 9 25.0 | 2.405 | 3.381 | 4.0 | 19.7 |
| 4 1 | 11 20.87 | +10 12.5 | 2.462 | 3.394 | 7.2 | 19.9 |
| 4 11 | 11 15.67 | +10 47.4 | 2.545 | 3.406 | 10.0 | 20.1 |
| 4 21 | 11 12.10 | +11 8.6 | 2.650 | 3.418 | 12.4 | 20.3 |

**102203** 1999 $SC_{19}$ 3 13.2 107°.78 5°.0/ 8.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.71 | +12 55.2 | 1.687 | 2.562 | 12.6 | 19.8 |
| 2 21 | 11 51.73 | +14 22.2 | 1.643 | 2.577 | 9.0 | 19.6 |
| 3 2 | 11 43.73 | +15 49.6 | 1.624 | 2.593 | 5.8 | 19.5 |
| 3 12 | 11 34.66 | +17 7.7 | 1.632 | 2.608 | 5.2 | 19.5 |
| 3 22 | 11 25.62 | +18 8.3 | 1.668 | 2.622 | 7.9 | 19.7 |
| 4 1 | 11 17.69 | +18 46.5 | 1.731 | 2.637 | 11.3 | 19.9 |
| 4 11 | 11 11.72 | +19 0.8 | 1.816 | 2.650 | 14.5 | 20.1 |
| 4 21 | 11 8.15 | +18 52.9 | 1.919 | 2.664 | 17.2 | 20.4 |

**386836** 2010 $JO_{39}$ 3 13.2 94°.71 6°.3/ 4.6 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.98 | +20 55.7 | 2.270 | 3.141 | 10.0 | 20.5 |
| 2 21 | 11 48.13 | +22 35.6 | 2.226 | 3.149 | 7.7 | 20.4 |
| 3 2 | 11 41.72 | +24 9.8 | 2.210 | 3.157 | 6.4 | 20.3 |
| 3 12 | 11 34.45 | +25 30.1 | 2.223 | 3.165 | 6.8 | 20.3 |
| 3 22 | 11 27.13 | +26 30.8 | 2.262 | 3.173 | 8.7 | 20.5 |
| 4 1 | 11 20.56 | +27 8.3 | 2.328 | 3.181 | 11.0 | 20.6 |
| 4 11 | 11 15.44 | +27 22.3 | 2.415 | 3.188 | 13.2 | 20.8 |
| 4 21 | 11 12.17 | +27 14.6 | 2.520 | 3.196 | 15.1 | 21.0 |

**204687** 2006 $DD_{190}$ 3 13.2 352°.75 1°.6/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.94 | + 4 24.7 | 1.226 | 2.104 | 16.1 | 20.2 |
| 2 21 | 11 51.93 | + 4 55.0 | 1.163 | 2.101 | 11.4 | 19.9 |
| 3 2 | 11 44.17 | + 5 37.2 | 1.121 | 2.099 | 6.1 | 19.6 |
| 3 12 | 11 34.74 | + 6 23.6 | 1.104 | 2.097 | 1.6 | 19.3 |
| 3 22 | 11 25.05 | + 7 5.4 | 1.112 | 2.095 | 6.0 | 19.6 |
| 4 1 | 11 16.62 | + 7 34.6 | 1.144 | 2.095 | 11.4 | 19.9 |
| 4 11 | 11 10.65 | + 7 46.0 | 1.198 | 2.095 | 16.2 | 20.2 |
| 4 21 | 11 7.75 | + 7 38.0 | 1.269 | 2.095 | 20.2 | 20.4 |

**111656** 2002 $AP_{186}$ 3 13.2 145°.69 7°.8/ 4.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.35 | +23 44.6 | 1.940 | 2.808 | 11.6 | 19.8 |
| 2 21 | 11 51.44 | +25 14.3 | 1.895 | 2.812 | 9.2 | 19.6 |
| 3 2 | 11 43.59 | +26 34.7 | 1.876 | 2.815 | 7.9 | 19.6 |
| 3 12 | 11 34.66 | +27 36.9 | 1.884 | 2.819 | 8.3 | 19.6 |
| 3 22 | 11 25.69 | +28 14.7 | 1.918 | 2.822 | 10.3 | 19.7 |
| 4 1 | 11 17.73 | +28 25.2 | 1.976 | 2.825 | 12.8 | 19.9 |
| 4 11 | 11 11.59 | +28 9.5 | 2.055 | 2.828 | 15.2 | 20.1 |
| 4 21 | 11 7.75 | +27 30.9 | 2.151 | 2.831 | 17.2 | 20.2 |

**341283** 2007 $RA_{290}$ 3 13.2 107°.57 5°.0/ 7.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.95 | +17 23.2 | 2.227 | 3.095 | 10.2 | 20.7 |
| 2 21 | 11 50.21 | +18 15.4 | 2.170 | 3.098 | 7.6 | 20.6 |
| 3 2 | 11 42.84 | +19 4.2 | 2.139 | 3.100 | 5.4 | 20.4 |
| 3 12 | 11 34.58 | +19 43.1 | 2.137 | 3.103 | 5.2 | 20.4 |
| 3 22 | 11 26.27 | +20 7.3 | 2.163 | 3.105 | 7.2 | 20.6 |
| 4 1 | 11 18.78 | +20 13.8 | 2.216 | 3.108 | 9.8 | 20.7 |
| 4 11 | 11 12.79 | +20 1.9 | 2.292 | 3.110 | 12.4 | 20.9 |
| 4 21 | 11 8.75 | +19 33.1 | 2.389 | 3.113 | 14.7 | 21.1 |

**260460** 2005 $AH_{57}$ 3 13.2 357°.89 6°.0/18.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.06 | −13 6.6 | 1.316 | 2.140 | 18.6 | 19.9 |
| 2 21 | 11 49.13 | −13 8.9 | 1.243 | 2.138 | 14.9 | 19.7 |
| 3 2 | 11 42.66 | −12 40.3 | 1.190 | 2.136 | 10.7 | 19.4 |
| 3 12 | 11 34.60 | −11 42.0 | 1.160 | 2.135 | 7.0 | 19.2 |
| 3 22 | 11 26.20 | −10 20.4 | 1.154 | 2.135 | 6.4 | 19.1 |
| 4 1 | 11 18.88 | − 8 45.7 | 1.173 | 2.135 | 9.7 | 19.3 |
| 4 11 | 11 13.78 | − 7 10.7 | 1.214 | 2.137 | 14.0 | 19.6 |
| 4 21 | 11 11.54 | − 5 45.8 | 1.276 | 2.138 | 18.0 | 19.8 |

**457185** 2008 $GW_{124}$ 3 13.2 7°.33 3°.6/10.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.47 | + 7 22.1 | 1.258 | 2.146 | 15.0 | 20.6 |
| 2 21 | 11 48.62 | + 8 38.0 | 1.203 | 2.146 | 10.5 | 20.3 |
| 3 2 | 11 42.30 | +10 3.5 | 1.170 | 2.148 | 5.8 | 20.1 |
| 3 12 | 11 34.55 | +11 27.8 | 1.162 | 2.150 | 3.8 | 19.9 |
| 3 22 | 11 26.65 | +12 39.5 | 1.180 | 2.154 | 7.5 | 20.2 |
| 4 1 | 11 19.94 | +13 30.0 | 1.221 | 2.158 | 12.2 | 20.4 |
| 4 11 | 11 15.46 | +13 54.9 | 1.283 | 2.164 | 16.5 | 20.7 |
| 4 21 | 11 13.76 | +13 54.1 | 1.362 | 2.170 | 20.0 | 21.0 |

**521075** 2015 $DT_{239}$ 3 13.2 282°.59 4°.7/ 7.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.22 | +14 45.6 | 2.258 | 3.131 | 9.9 | 21.3 |
| 2 21 | 11 47.73 | +16 14.7 | 2.181 | 3.113 | 7.2 | 21.1 |
| 3 2 | 11 41.61 | +17 45.4 | 2.131 | 3.095 | 5.1 | 20.9 |
| 3 12 | 11 34.47 | +19 9.8 | 2.109 | 3.077 | 5.1 | 20.9 |
| 3 22 | 11 27.10 | +20 21.0 | 2.117 | 3.059 | 7.3 | 21.0 |
| 4 1 | 11 20.31 | +21 13.6 | 2.151 | 3.041 | 10.2 | 21.1 |
| 4 11 | 11 14.87 | +21 44.9 | 2.209 | 3.022 | 13.0 | 21.3 |
| 4 21 | 11 11.27 | +21 54.8 | 2.286 | 3.004 | 15.4 | 21.4 |

**216922** 1997 $MZ_{7}$ 3 13.2 110°.39 4°.0/17.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.64 | −10 45.3 | 2.184 | 2.983 | 13.0 | 20.5 |
| 2 21 | 11 50.07 | −10 52.8 | 2.108 | 2.991 | 10.2 | 20.4 |
| 3 2 | 11 42.82 | −10 42.8 | 2.057 | 2.999 | 7.1 | 20.2 |
| 3 12 | 11 34.60 | −10 16.9 | 2.032 | 3.007 | 4.5 | 20.0 |
| 3 22 | 11 26.24 | − 9 38.6 | 2.036 | 3.014 | 4.4 | 20.0 |
| 4 1 | 11 18.61 | − 8 52.7 | 2.068 | 3.022 | 6.9 | 20.2 |
| 4 11 | 11 12.45 | − 8 5.5 | 2.127 | 3.029 | 9.9 | 20.4 |
| 4 21 | 11 8.23 | − 7 22.0 | 2.209 | 3.036 | 12.7 | 20.6 |

**403933** 2012 $BZ_{15}$ 3 13.2 153°.52 1°.4/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.24 | + 3 53.0 | 1.941 | 2.797 | 12.1 | 21.3 |
| 2 21 | 11 51.28 | + 4 49.1 | 1.876 | 2.805 | 8.5 | 21.1 |
| 3 2 | 11 43.49 | + 5 54.3 | 1.837 | 2.812 | 4.5 | 20.9 |
| 3 12 | 11 34.67 | + 7 2.0 | 1.827 | 2.819 | 1.4 | 20.6 |
| 3 22 | 11 25.76 | + 8 5.5 | 1.846 | 2.825 | 4.6 | 20.9 |
| 4 1 | 11 17.72 | + 8 58.4 | 1.893 | 2.831 | 8.6 | 21.1 |
| 4 11 | 11 11.35 | + 9 36.5 | 1.966 | 2.835 | 12.1 | 21.4 |
| 4 21 | 11 7.12 | + 9 58.0 | 2.060 | 2.840 | 15.1 | 21.6 |

**361581** 2007 $RE_{208}$ 3 13.2 124°.83 0°.8/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.15 | + 2 4.8 | 1.828 | 2.680 | 12.9 | 21.6 |
| 2 21 | 11 51.94 | + 2 58.9 | 1.770 | 2.696 | 9.1 | 21.4 |
| 3 2 | 11 43.83 | + 4 3.8 | 1.738 | 2.712 | 4.8 | 21.2 |
| 3 12 | 11 34.71 | + 5 12.8 | 1.734 | 2.728 | 0.9 | 20.9 |
| 3 22 | 11 25.58 | + 6 18.7 | 1.760 | 2.742 | 4.4 | 21.2 |
| 4 1 | 11 17.43 | + 7 14.8 | 1.814 | 2.756 | 8.5 | 21.5 |
| 4 11 | 11 11.08 | + 7 56.5 | 1.893 | 2.769 | 12.2 | 21.7 |
| 4 21 | 11 6.97 | + 8 21.7 | 1.994 | 2.782 | 15.2 | 22.0 |

**435976** 2009 $DY_{84}$ 3 13.2 227°.91 2°.2/10.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.83 | + 8 26.8 | 2.605 | 3.466 | 9.2 | 21.5 |
| 2 21 | 11 47.90 | + 9 18.9 | 2.528 | 3.459 | 6.4 | 21.3 |
| 3 2 | 11 41.59 | +10 15.1 | 2.477 | 3.451 | 3.6 | 21.1 |
| 3 12 | 11 34.48 | +11 10.3 | 2.457 | 3.444 | 2.3 | 21.0 |
| 3 22 | 11 27.22 | +11 59.7 | 2.466 | 3.435 | 4.5 | 21.1 |
| 4 1 | 11 20.51 | +12 38.8 | 2.504 | 3.427 | 7.5 | 21.3 |
| 4 11 | 11 14.97 | +13 5.0 | 2.568 | 3.418 | 10.3 | 21.5 |
| 4 21 | 11 11.01 | +13 17.2 | 2.654 | 3.410 | 12.6 | 21.6 |

**425207** 2009 $VD_{31}$ 3 13.2 103°.20 1°.6/14.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.12 | − 3 36.8 | 1.955 | 2.790 | 12.9 | 21.7 |
| 2 21 | 11 50.48 | − 3 19.4 | 1.888 | 2.800 | 9.5 | 21.5 |
| 3 2 | 11 43.06 | − 2 47.9 | 1.846 | 2.811 | 5.6 | 21.3 |
| 3 12 | 11 34.64 | − 2 5.9 | 1.831 | 2.821 | 2.0 | 21.1 |
| 3 22 | 11 26.13 | − 1 18.6 | 1.845 | 2.831 | 3.5 | 21.2 |
| 4 1 | 11 18.47 | − 0 32.0 | 1.887 | 2.841 | 7.3 | 21.5 |
| 4 11 | 11 12.43 | + 0 8.5 | 1.955 | 2.851 | 10.9 | 21.7 |
| 4 21 | 11 8.48 | + 0 38.9 | 2.046 | 2.861 | 14.0 | 21.9 |

**447036** 2004 $RV_{16}$ 3 13.2 109°.47 1°.5/12.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.70 | + 4 41.9 | 1.665 | 2.522 | 13.7 | 21.3 |
| 2 21 | 11 54.51 | + 5 19.2 | 1.615 | 2.543 | 9.6 | 21.1 |
| 3 2 | 11 45.23 | + 6 4.5 | 1.590 | 2.564 | 5.1 | 20.9 |
| 3 12 | 11 34.87 | + 6 51.1 | 1.592 | 2.584 | 1.5 | 20.7 |
| 3 22 | 11 24.59 | + 7 32.3 | 1.624 | 2.604 | 5.0 | 20.9 |
| 4 1 | 11 15.52 | + 8 2.5 | 1.683 | 2.623 | 9.3 | 21.2 |
| 4 11 | 11 8.53 | + 8 18.3 | 1.767 | 2.641 | 13.0 | 21.5 |
| 4 21 | 11 4.05 | + 8 18.9 | 1.871 | 2.658 | 16.1 | 21.8 |

**75131** 1999 $VH_{71}$ 3 13.2 93°.97 0°.7/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.25 | − 1 59.0 | 1.651 | 2.498 | 14.3 | 19.8 |
| 2 21 | 11 51.45 | − 1 20.2 | 1.595 | 2.515 | 10.3 | 19.6 |
| 3 2 | 11 43.62 | − 0 25.8 | 1.562 | 2.533 | 5.8 | 19.3 |
| 3 12 | 11 34.70 | + 0 38.1 | 1.557 | 2.550 | 1.2 | 19.1 |
| 3 22 | 11 25.76 | + 1 44.1 | 1.580 | 2.566 | 4.0 | 19.3 |
| 4 1 | 11 17.90 | + 2 44.8 | 1.630 | 2.583 | 8.4 | 19.6 |
| 4 11 | 11 11.96 | + 3 33.8 | 1.705 | 2.599 | 12.4 | 19.9 |
| 4 21 | 11 8.40 | + 4 7.7 | 1.801 | 2.614 | 15.6 | 20.1 |

**414106** 2007 $TK_{385}$ 3 13.2 247°.62 0°.5/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.50 | + 1 43.2 | 1.770 | 2.622 | 13.3 | 22.4 |
| 2 21 | 11 52.59 | + 2 18.8 | 1.680 | 2.606 | 9.5 | 22.1 |
| 3 2 | 11 44.43 | + 3 7.1 | 1.615 | 2.589 | 5.2 | 21.8 |
| 3 12 | 11 34.82 | + 4 2.6 | 1.578 | 2.571 | 0.6 | 21.5 |
| 3 22 | 11 24.78 | + 4 58.6 | 1.569 | 2.553 | 4.5 | 21.7 |
| 4 1 | 11 15.50 | + 5 47.9 | 1.588 | 2.534 | 9.2 | 21.9 |
| 4 11 | 11 8.01 | + 6 24.8 | 1.632 | 2.514 | 13.5 | 22.1 |
| 4 21 | 11 2.98 | + 6 45.9 | 1.696 | 2.494 | 17.1 | 22.3 |

**375973** 2009 $WS_{220}$ 3 13.2 194°.34 1°.6/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.66 | − 4 39.3 | 2.137 | 2.966 | 12.2 | 21.9 |
| 2 21 | 11 49.43 | − 4 6.9 | 2.055 | 2.964 | 9.0 | 21.7 |
| 3 2 | 11 42.52 | − 3 19.2 | 1.999 | 2.963 | 5.4 | 21.5 |
| 3 12 | 11 34.59 | − 2 20.2 | 1.970 | 2.960 | 2.0 | 21.3 |
| 3 22 | 11 26.49 | − 1 15.2 | 1.971 | 2.958 | 3.3 | 21.4 |
| 4 1 | 11 19.06 | − 0 10.6 | 2.001 | 2.955 | 7.0 | 21.6 |
| 4 11 | 11 13.08 | + 0 47.7 | 2.057 | 2.951 | 10.5 | 21.8 |
| 4 21 | 11 9.03 | + 1 35.2 | 2.136 | 2.947 | 13.6 | 22.0 |

**497453** 2005 $YB_{58}$ 3 13.2 111°.82 3°.6/ 9.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.22 | +10 33.8 | 1.955 | 2.825 | 11.4 | 21.7 |
| 2 21 | 11 49.83 | +11 46.0 | 1.901 | 2.835 | 8.0 | 21.5 |
| 3 2 | 11 42.70 | +13 1.1 | 1.873 | 2.845 | 4.7 | 21.3 |
| 3 12 | 11 34.61 | +14 11.3 | 1.873 | 2.855 | 3.8 | 21.3 |
| 3 22 | 11 26.47 | +15 9.8 | 1.902 | 2.864 | 6.3 | 21.5 |
| 4 1 | 11 19.22 | +15 51.3 | 1.958 | 2.873 | 9.7 | 21.7 |
| 4 11 | 11 13.59 | +16 13.6 | 2.038 | 2.882 | 12.8 | 21.9 |
| 4 21 | 11 10.03 | +16 16.7 | 2.138 | 2.891 | 15.4 | 22.1 |

**57190** 2001 $QM_{31}$ 3 13.2 121°.34 1°.3/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.48 | + 3 51.2 | 2.103 | 2.956 | 11.4 | 19.3 |
| 2 21 | 11 50.57 | + 4 46.0 | 2.046 | 2.973 | 8.0 | 19.1 |
| 3 2 | 11 43.04 | + 5 48.8 | 2.015 | 2.990 | 4.2 | 18.9 |
| 3 12 | 11 34.64 | + 6 53.3 | 2.014 | 3.006 | 1.3 | 18.7 |
| 3 22 | 11 26.24 | + 7 53.5 | 2.043 | 3.022 | 4.3 | 18.9 |
| 4 1 | 11 18.69 | + 8 43.8 | 2.100 | 3.037 | 7.9 | 19.2 |
| 4 11 | 11 12.68 | + 9 20.5 | 2.183 | 3.051 | 11.1 | 19.4 |
| 4 21 | 11 8.63 | + 9 42.1 | 2.288 | 3.065 | 13.8 | 19.6 |

**98951** 2001 $CV_{28}$ 3 13.2 103°.45 1°.0/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.66 | − 0 2.1 | 1.967 | 2.807 | 12.6 | 19.0 |
| 2 21 | 11 53.04 | − 0 12.4 | 1.893 | 2.811 | 9.2 | 18.7 |
| 3 2 | 11 44.49 | − 0 12.9 | 1.845 | 2.814 | 5.2 | 18.5 |
| 3 12 | 11 34.83 | − 0 6.5 | 1.825 | 2.817 | 1.3 | 18.2 |
| 3 22 | 11 25.01 | + 0 3.2 | 1.834 | 2.820 | 3.6 | 18.4 |
| 4 1 | 11 16.04 | + 0 12.1 | 1.872 | 2.823 | 7.6 | 18.7 |
| 4 11 | 11 8.79 | + 0 16.4 | 1.936 | 2.827 | 11.3 | 18.9 |
| 4 21 | 11 3.75 | + 0 13.3 | 2.023 | 2.830 | 14.4 | 19.1 |

**360550** 2003 $SR_{328}$ 3 13.2 257°.99 0°.6/12.7 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.85 | + 1 21.5 | 1.705 | 2.561 | 13.5 | 22.1 |
| 2 21 | 11 51.48 | + 2 6.6 | 1.617 | 2.544 | 9.7 | 21.8 |
| 3 2 | 11 43.86 | + 3 6.0 | 1.553 | 2.527 | 5.3 | 21.5 |
| 3 12 | 11 34.78 | + 4 13.7 | 1.516 | 2.510 | 0.7 | 21.1 |
| 3 22 | 11 25.28 | + 5 22.1 | 1.508 | 2.492 | 4.7 | 21.4 |
| 4 1 | 11 16.55 | + 6 23.1 | 1.527 | 2.473 | 9.5 | 21.6 |
| 4 11 | 11 9.63 | + 7 10.1 | 1.570 | 2.455 | 13.8 | 21.8 |
| 4 21 | 11 5.18 | + 7 39.7 | 1.634 | 2.436 | 17.5 | 22.0 |

**195330** 2002 $EO_{128}$ 3 13.2 19°.33 1°.2/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.86 | + 2 58.5 | 1.750 | 2.614 | 12.8 | 20.2 |
| 2 21 | 11 49.10 | + 3 51.9 | 1.683 | 2.615 | 9.0 | 19.9 |
| 3 2 | 11 42.41 | + 4 56.5 | 1.640 | 2.616 | 4.8 | 19.7 |
| 3 12 | 11 34.60 | + 6 5.6 | 1.625 | 2.617 | 1.2 | 19.4 |
| 3 22 | 11 26.64 | + 7 11.5 | 1.637 | 2.619 | 4.7 | 19.7 |
| 4 1 | 11 19.55 | + 8 7.3 | 1.677 | 2.621 | 9.0 | 19.9 |
| 4 11 | 11 14.18 | + 8 47.7 | 1.741 | 2.622 | 12.8 | 20.2 |
| 4 21 | 11 11.02 | + 9 10.5 | 1.825 | 2.625 | 16.0 | 20.4 |

**63722** 2001 $QK_{235}$ 3 13.2 117°.87 0°.7/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.82 | − 2 37.5 | 2.766 | 3.595 | 9.7 | 20.0 |
| 2 21 | 11 47.71 | − 1 52.7 | 2.702 | 3.614 | 7.0 | 19.9 |
| 3 2 | 11 41.41 | − 0 57.7 | 2.665 | 3.632 | 4.0 | 19.7 |
| 3 12 | 11 34.49 | + 0 3.6 | 2.657 | 3.650 | 1.0 | 19.5 |
| 3 22 | 11 27.54 | + 1 6.7 | 2.681 | 3.667 | 2.6 | 19.6 |
| 4 1 | 11 21.18 | + 2 6.9 | 2.735 | 3.684 | 5.7 | 19.9 |
| 4 11 | 11 15.95 | + 3 0.1 | 2.817 | 3.700 | 8.4 | 20.1 |
| 4 21 | 11 12.18 | + 3 43.4 | 2.923 | 3.716 | 10.7 | 20.3 |

**373933** 2003 $UP_{287}$ 3 13.2 151°.53 0°.4/12.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.82 | + 2 4.7 | 2.453 | 3.298 | 10.3 | 21.7 |
| 2 21 | 11 49.29 | + 2 42.7 | 2.383 | 3.306 | 7.3 | 21.5 |
| 3 2 | 11 42.34 | + 3 28.9 | 2.340 | 3.313 | 3.9 | 21.3 |
| 3 12 | 11 34.60 | + 4 18.7 | 2.326 | 3.320 | 0.5 | 21.0 |
| 3 22 | 11 26.77 | + 5 7.6 | 2.343 | 3.326 | 3.4 | 21.3 |
| 4 1 | 11 19.60 | + 5 50.7 | 2.389 | 3.332 | 6.7 | 21.5 |
| 4 11 | 11 13.72 | + 6 24.4 | 2.462 | 3.337 | 9.8 | 21.7 |
| 4 21 | 11 9.53 | + 6 46.7 | 2.558 | 3.342 | 12.3 | 21.9 |

**77698** 2001 $OL_{3}$ 3 13.2 24°.59 2°.3/15.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.05 | − 4 28.6 | 1.992 | 2.823 | 12.9 | 19.2 |
| 2 21 | 11 50.50 | − 4 34.5 | 1.917 | 2.825 | 9.6 | 19.0 |
| 3 2 | 11 43.13 | − 4 26.7 | 1.865 | 2.827 | 6.0 | 18.8 |
| 3 12 | 11 34.69 | − 4 7.4 | 1.842 | 2.830 | 2.7 | 18.6 |
| 3 22 | 11 26.08 | − 3 40.8 | 1.846 | 2.832 | 3.6 | 18.6 |
| 4 1 | 11 18.23 | − 3 11.6 | 1.879 | 2.835 | 7.2 | 18.9 |
| 4 11 | 11 11.97 | − 2 45.0 | 1.937 | 2.837 | 10.8 | 19.1 |
| 4 21 | 11 7.80 | − 2 25.0 | 2.018 | 2.840 | 13.9 | 19.3 |

**272848** 2006 $BF_{32}$ 3 13.2 147°.66 2°.1/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.35 | + 6 24.5 | 2.215 | 3.076 | 10.6 | 20.6 |
| 2 21 | 11 49.09 | + 7 30.2 | 2.151 | 3.083 | 7.4 | 20.4 |
| 3 2 | 11 42.28 | + 8 42.1 | 2.114 | 3.089 | 4.0 | 20.2 |
| 3 12 | 11 34.59 | + 9 53.8 | 2.107 | 3.096 | 2.1 | 20.1 |
| 3 22 | 11 26.82 | +10 59.2 | 2.129 | 3.102 | 4.8 | 20.3 |
| 4 1 | 11 19.78 | +11 52.7 | 2.179 | 3.107 | 8.2 | 20.5 |
| 4 11 | 11 14.15 | +12 30.9 | 2.255 | 3.112 | 11.3 | 20.7 |
| 4 21 | 11 10.35 | +12 52.6 | 2.353 | 3.117 | 13.8 | 20.9 |

**500702** 2012 $WK_{3}$ 3 13.2 172°.72 0°.2/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.74 | + 1 18.9 | 3.003 | 3.842 | 8.8 | 22.7 |
| 2 21 | 11 47.65 | + 1 58.9 | 2.926 | 3.846 | 6.2 | 22.5 |
| 3 2 | 11 41.40 | + 2 46.3 | 2.877 | 3.849 | 3.3 | 22.3 |
| 3 12 | 11 34.50 | + 3 37.5 | 2.857 | 3.851 | 0.4 | 22.1 |
| 3 22 | 11 27.50 | + 4 28.4 | 2.869 | 3.853 | 2.8 | 22.3 |
| 4 1 | 11 21.00 | + 5 15.2 | 2.912 | 3.854 | 5.7 | 22.5 |
| 4 11 | 11 15.51 | + 5 54.4 | 2.982 | 3.855 | 8.3 | 22.7 |
| 4 21 | 11 11.40 | + 6 24.0 | 3.076 | 3.855 | 10.6 | 22.8 |

**246719** 2009 $BR_{19}$ 3 13.2 232°.77 4°.8/ 8.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.49 | +11 54.2 | 1.695 | 2.569 | 12.6 | 21.4 |
| 2 21 | 11 51.88 | +13 20.1 | 1.624 | 2.559 | 9.0 | 21.2 |
| 3 2 | 11 44.03 | +14 50.5 | 1.578 | 2.549 | 5.7 | 21.0 |
| 3 12 | 11 34.80 | +16 15.4 | 1.560 | 2.538 | 5.1 | 20.9 |
| 3 22 | 11 25.29 | +17 25.4 | 1.570 | 2.527 | 8.0 | 21.1 |
| 4 1 | 11 16.67 | +18 13.8 | 1.606 | 2.515 | 11.8 | 21.2 |
| 4 11 | 11 9.97 | +18 37.3 | 1.664 | 2.503 | 15.4 | 21.4 |
| 4 21 | 11 5.76 | +18 36.6 | 1.740 | 2.490 | 18.5 | 21.6 |

**435273** 2007 $TW_{272}$ 3 13.2 131°.33 2°.8/16.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.02 | −10 31.0 | 2.482 | 3.282 | 11.6 | 21.3 |
| 2 21 | 11 47.35 | − 9 49.5 | 2.405 | 3.291 | 8.9 | 21.1 |
| 3 2 | 11 41.30 | − 8 50.6 | 2.352 | 3.300 | 6.0 | 20.9 |
| 3 12 | 11 34.49 | − 7 37.7 | 2.327 | 3.308 | 3.3 | 20.8 |
| 3 22 | 11 27.58 | − 6 15.5 | 2.332 | 3.316 | 3.3 | 20.8 |
| 4 1 | 11 21.30 | − 4 50.3 | 2.367 | 3.323 | 5.9 | 20.9 |
| 4 11 | 11 16.23 | − 3 28.4 | 2.430 | 3.331 | 8.9 | 21.1 |
| 4 21 | 11 12.78 | − 2 15.0 | 2.518 | 3.338 | 11.5 | 21.3 |

**159283** 2006 $AP_{27}$ 3 13.2 291°.41 2°.5/15.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.52 | − 5 54.8 | 1.846 | 2.678 | 13.7 | 20.2 |
| 2 21 | 11 49.66 | − 5 43.6 | 1.758 | 2.666 | 10.4 | 19.9 |
| 3 2 | 11 42.80 | − 5 14.8 | 1.693 | 2.654 | 6.5 | 19.7 |
| 3 12 | 11 34.67 | − 4 31.3 | 1.655 | 2.642 | 3.0 | 19.4 |
| 3 22 | 11 26.22 | − 3 38.0 | 1.644 | 2.630 | 3.9 | 19.4 |
| 4 1 | 11 18.47 | − 2 41.6 | 1.661 | 2.618 | 7.8 | 19.6 |
| 4 11 | 11 12.36 | − 1 49.1 | 1.703 | 2.607 | 11.8 | 19.9 |
| 4 21 | 11 8.47 | − 1 5.9 | 1.767 | 2.595 | 15.3 | 20.0 |

**17838** 1998 $HJ_{94}$ 3 13.2 92°.55 4°.9/19.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.85 | −16 55.1 | 2.423 | 3.189 | 12.9 | 18.2 |
| 2 21 | 11 47.30 | −16 37.9 | 2.345 | 3.199 | 10.4 | 18.0 |
| 3 2 | 11 41.31 | −15 59.8 | 2.289 | 3.208 | 7.8 | 17.9 |
| 3 12 | 11 34.50 | −15 2.3 | 2.260 | 3.218 | 5.6 | 17.8 |
| 3 22 | 11 27.59 | −13 49.4 | 2.259 | 3.227 | 4.9 | 17.7 |
| 4 1 | 11 21.33 | −12 26.8 | 2.286 | 3.237 | 6.5 | 17.8 |
| 4 11 | 11 16.34 | −11 1.6 | 2.341 | 3.246 | 9.0 | 18.0 |
| 4 21 | 11 13.05 | − 9 39.9 | 2.421 | 3.256 | 11.4 | 18.2 |

**464908** 2005 $SY_{190}$ 3 13.2 128°.43 2°.2/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.26 | + 8 5.1 | 2.301 | 3.156 | 10.5 | 21.6 |
| 2 21 | 11 51.71 | + 8 49.5 | 2.246 | 3.175 | 7.3 | 21.4 |
| 3 2 | 11 43.63 | + 9 37.4 | 2.218 | 3.192 | 4.0 | 21.2 |
| 3 12 | 11 34.75 | +10 23.4 | 2.220 | 3.208 | 2.2 | 21.1 |
| 3 22 | 11 25.89 | +11 2.3 | 2.253 | 3.224 | 4.7 | 21.3 |
| 4 1 | 11 17.86 | +11 30.2 | 2.314 | 3.240 | 7.9 | 21.5 |
| 4 11 | 11 11.31 | +11 45.0 | 2.401 | 3.254 | 10.8 | 21.7 |
| 4 21 | 11 6.66 | +11 46.0 | 2.511 | 3.268 | 13.2 | 21.9 |

**81977** 2000 $QK_{85}$ 3 13.2 214°.15 2°.9/16.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.78 | − 8 3.8 | 2.468 | 3.275 | 11.5 | 18.9 |
| 2 21 | 11 49.37 | − 8 7.7 | 2.381 | 3.273 | 8.8 | 18.8 |
| 3 2 | 11 42.46 | − 7 57.8 | 2.320 | 3.270 | 5.9 | 18.6 |
| 3 12 | 11 34.64 | − 7 35.7 | 2.286 | 3.267 | 3.3 | 18.4 |
| 3 22 | 11 26.62 | − 7 4.4 | 2.281 | 3.263 | 3.5 | 18.4 |
| 4 1 | 11 19.18 | − 6 28.0 | 2.306 | 3.260 | 6.2 | 18.6 |
| 4 11 | 11 13.00 | − 5 51.4 | 2.358 | 3.257 | 9.2 | 18.7 |
| 4 21 | 11 8.54 | − 5 18.9 | 2.434 | 3.253 | 11.9 | 18.9 |

**12967** 3105 $T$-3 3 13.2 192°.73 0°.1/13.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.97 | + 0 2.5 | 1.977 | 2.821 | 12.4 | 19.3 |
| 2 21 | 11 51.19 | + 0 48.1 | 1.898 | 2.820 | 8.9 | 19.0 |
| 3 2 | 11 43.53 | + 1 46.4 | 1.846 | 2.818 | 4.9 | 18.8 |
| 3 12 | 11 34.76 | + 2 52.2 | 1.821 | 2.815 | 0.5 | 18.5 |
| 3 22 | 11 25.78 | + 3 58.9 | 1.827 | 2.811 | 3.9 | 18.7 |
| 4 1 | 11 17.57 | + 4 59.7 | 1.861 | 2.807 | 8.0 | 19.0 |
| 4 11 | 11 10.97 | + 5 49.1 | 1.921 | 2.802 | 11.8 | 19.2 |
| 4 21 | 11 6.50 | + 6 23.8 | 2.002 | 2.797 | 14.9 | 19.4 |

**193847** 2001 $QG_{109}$ 3 13.2 180°.57 3°.8/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.93 | +10 45.7 | 1.761 | 2.627 | 12.7 | 20.8 |
| 2 21 | 11 54.13 | +11 44.0 | 1.697 | 2.629 | 9.0 | 20.6 |
| 3 2 | 11 45.16 | +12 45.5 | 1.657 | 2.630 | 5.3 | 20.3 |
| 3 12 | 11 34.94 | +13 42.0 | 1.646 | 2.630 | 3.9 | 20.2 |
| 3 22 | 11 24.56 | +14 26.3 | 1.664 | 2.629 | 6.8 | 20.4 |
| 4 1 | 11 15.21 | +14 53.0 | 1.709 | 2.628 | 10.6 | 20.6 |
| 4 11 | 11 7.82 | +14 59.9 | 1.777 | 2.626 | 14.2 | 20.9 |
| 4 21 | 11 2.93 | +14 47.5 | 1.866 | 2.623 | 17.2 | 21.1 |

**140235** 2001 $SF_{247}$ 3 13.2 225°.17 0°.8/12.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.33 | + 3 16.4 | 2.544 | 3.394 | 9.8 | 20.8 |
| 2 21 | 11 48.30 | + 3 56.9 | 2.461 | 3.387 | 6.9 | 20.6 |
| 3 2 | 11 41.85 | + 4 45.1 | 2.405 | 3.379 | 3.7 | 20.4 |
| 3 12 | 11 34.57 | + 5 36.5 | 2.378 | 3.371 | 0.8 | 20.2 |
| 3 22 | 11 27.11 | + 6 26.4 | 2.381 | 3.362 | 3.5 | 20.4 |
| 4 1 | 11 20.21 | + 7 10.3 | 2.414 | 3.354 | 6.8 | 20.6 |
| 4 11 | 11 14.49 | + 7 44.3 | 2.473 | 3.345 | 9.9 | 20.7 |
| 4 21 | 11 10.39 | + 8 6.4 | 2.555 | 3.335 | 12.5 | 20.9 |

**366827** 2005 $JQ_{65}$ 3 13.2 313°.37 6°.2/17.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.23 | −12 4.7 | 1.431 | 2.251 | 17.6 | 20.5 |
| 2 21 | 11 50.76 | −12 32.4 | 1.342 | 2.234 | 14.2 | 20.2 |
| 3 2 | 11 43.68 | −12 34.7 | 1.273 | 2.217 | 10.3 | 19.9 |
| 3 12 | 11 34.81 | −12 10.7 | 1.228 | 2.201 | 7.0 | 19.7 |
| 3 22 | 11 25.34 | −11 23.7 | 1.207 | 2.185 | 6.7 | 19.6 |
| 4 1 | 11 16.71 | −10 20.7 | 1.211 | 2.170 | 9.9 | 19.7 |
| 4 11 | 11 10.19 | − 9 12.2 | 1.238 | 2.156 | 14.2 | 19.9 |
| 4 21 | 11 6.57 | − 8 7.9 | 1.285 | 2.142 | 18.2 | 20.1 |

**225627** 2001 $BJ_{57}$ 3 13.2 42°.44 6°.4/19.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.17 | −15 49.4 | 1.652 | 2.446 | 16.8 | 19.4 |
| 2 21 | 11 49.44 | −16 0.0 | 1.588 | 2.459 | 13.6 | 19.2 |
| 3 2 | 11 42.64 | −15 43.5 | 1.544 | 2.473 | 10.2 | 19.1 |
| 3 12 | 11 34.66 | −15 1.2 | 1.525 | 2.487 | 7.2 | 18.9 |
| 3 22 | 11 26.56 | −13 57.7 | 1.530 | 2.502 | 6.5 | 18.9 |
| 4 1 | 11 19.44 | −12 40.8 | 1.563 | 2.517 | 8.5 | 19.1 |
| 4 11 | 11 14.20 | −11 20.1 | 1.619 | 2.533 | 11.7 | 19.3 |
| 4 21 | 11 11.34 | −10 4.3 | 1.698 | 2.548 | 14.8 | 19.5 |

**435973** 2009 $DR_{81}$ 3 13.2 358°.71 2°.1/11.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.16 | + 7 10.1 | 1.866 | 2.735 | 11.9 | 20.4 |
| 2 21 | 11 49.23 | + 7 42.7 | 1.799 | 2.733 | 8.3 | 20.1 |
| 3 2 | 11 42.47 | + 8 20.9 | 1.756 | 2.732 | 4.5 | 19.9 |
| 3 12 | 11 34.65 | + 8 58.9 | 1.741 | 2.731 | 2.1 | 19.7 |
| 3 22 | 11 26.69 | + 9 30.8 | 1.754 | 2.731 | 5.1 | 19.9 |
| 4 1 | 11 19.57 | + 9 51.9 | 1.794 | 2.732 | 8.9 | 20.2 |
| 4 11 | 11 14.08 | + 9 58.9 | 1.858 | 2.733 | 12.4 | 20.4 |
| 4 21 | 11 10.72 | + 9 50.9 | 1.942 | 2.734 | 15.4 | 20.6 |

**253533** 2003 $SO_{206}$ 3 13.2 220°.11 2°.3/10.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.93 | +10 32.4 | 2.836 | 3.695 | 8.6 | 20.2 |
| 2 21 | 11 48.56 | +11 0.9 | 2.763 | 3.693 | 6.0 | 20.0 |
| 3 2 | 11 41.93 | +11 30.8 | 2.718 | 3.690 | 3.5 | 19.8 |
| 3 12 | 11 34.59 | +11 58.0 | 2.702 | 3.687 | 2.3 | 19.8 |
| 3 22 | 11 27.15 | +12 19.0 | 2.716 | 3.684 | 4.3 | 19.9 |
| 4 1 | 11 20.28 | +12 30.9 | 2.760 | 3.681 | 7.0 | 20.1 |
| 4 11 | 11 14.51 | +12 31.8 | 2.830 | 3.678 | 9.5 | 20.2 |
| 4 21 | 11 10.24 | +12 21.4 | 2.922 | 3.675 | 11.7 | 20.4 |

**383647** 2007 $RB_{324}$ 3 13.2 142°.89 0°.7/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.09 | − 0 39.5 | 2.412 | 3.247 | 10.8 | 21.0 |
| 2 21 | 11 50.24 | − 0 28.2 | 2.338 | 3.253 | 7.8 | 20.9 |
| 3 2 | 11 42.89 | − 0 7.5 | 2.291 | 3.259 | 4.4 | 20.7 |
| 3 12 | 11 34.71 | + 0 19.5 | 2.273 | 3.265 | 1.0 | 20.4 |
| 3 22 | 11 26.42 | + 0 48.7 | 2.285 | 3.271 | 3.0 | 20.6 |
| 4 1 | 11 18.80 | + 1 16.3 | 2.326 | 3.276 | 6.4 | 20.8 |
| 4 11 | 11 12.52 | + 1 38.3 | 2.395 | 3.281 | 9.6 | 21.0 |
| 4 21 | 11 7.99 | + 1 52.2 | 2.487 | 3.286 | 12.2 | 21.2 |

**93097** 2000 $SP_{39}$ 3 13.2 218°.70 2°.7/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.42 | + 9 31.8 | 2.357 | 3.217 | 10.1 | 20.8 |
| 2 21 | 11 50.61 | +10 25.9 | 2.277 | 3.208 | 7.1 | 20.6 |
| 3 2 | 11 43.17 | +11 23.7 | 2.225 | 3.197 | 4.1 | 20.4 |
| 3 12 | 11 34.74 | +12 19.6 | 2.202 | 3.187 | 2.8 | 20.3 |
| 3 22 | 11 26.12 | +13 7.8 | 2.209 | 3.175 | 5.2 | 20.5 |
| 4 1 | 11 18.14 | +13 43.8 | 2.244 | 3.163 | 8.4 | 20.6 |
| 4 11 | 11 11.51 | +14 4.8 | 2.305 | 3.151 | 11.5 | 20.8 |
| 4 21 | 11 6.73 | +14 10.0 | 2.388 | 3.137 | 14.1 | 21.0 |

**129342** Ependes 3 13.2 194°.18 0°.7/12.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.23 | + 2 21.3 | 2.349 | 3.196 | 10.6 | 20.7 |
| 2 21 | 11 49.72 | + 3 12.8 | 2.270 | 3.194 | 7.5 | 20.5 |
| 3 2 | 11 42.66 | + 4 13.6 | 2.217 | 3.191 | 4.0 | 20.3 |
| 3 12 | 11 34.69 | + 5 18.7 | 2.194 | 3.187 | 0.8 | 20.1 |
| 3 22 | 11 26.54 | + 6 22.2 | 2.202 | 3.183 | 3.7 | 20.3 |
| 4 1 | 11 19.04 | + 7 18.8 | 2.239 | 3.178 | 7.3 | 20.5 |
| 4 11 | 11 12.86 | + 8 4.0 | 2.302 | 3.173 | 10.5 | 20.7 |
| 4 21 | 11 8.46 | + 8 35.5 | 2.388 | 3.167 | 13.3 | 20.9 |

**143481** 2003 $CB_{11}$ 3 13.2 336°.14 9°.0/ 2.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.60 | +29 22.3 | 2.036 | 2.894 | 11.5 | 19.0 |
| 2 21 | 11 50.99 | +30 37.7 | 1.988 | 2.888 | 9.8 | 18.8 |
| 3 2 | 11 43.42 | +31 39.7 | 1.965 | 2.882 | 9.1 | 18.8 |
| 3 12 | 11 34.77 | +32 20.2 | 1.967 | 2.876 | 9.7 | 18.8 |
| 3 22 | 11 26.05 | +32 34.0 | 1.994 | 2.871 | 11.3 | 18.9 |
| 4 1 | 11 18.30 | +32 19.4 | 2.043 | 2.866 | 13.5 | 19.0 |
| 4 11 | 11 12.37 | +31 38.2 | 2.113 | 2.862 | 15.6 | 19.2 |
| 4 21 | 11 8.71 | +30 34.6 | 2.199 | 2.857 | 17.4 | 19.3 |

**497116** 2004 $EX_{104}$ 3 13.2 196°.84 0°.4/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.16 | + 0 29.8 | 2.425 | 3.266 | 10.5 | 22.0 |
| 2 21 | 11 49.66 | + 1 31.1 | 2.342 | 3.262 | 7.5 | 21.8 |
| 3 2 | 11 42.63 | + 2 43.5 | 2.285 | 3.258 | 4.0 | 21.5 |
| 3 12 | 11 34.69 | + 4 1.9 | 2.259 | 3.253 | 0.5 | 21.2 |
| 3 22 | 11 26.57 | + 5 20.2 | 2.264 | 3.247 | 3.5 | 21.5 |
| 4 1 | 11 19.05 | + 6 32.4 | 2.299 | 3.240 | 7.1 | 21.7 |
| 4 11 | 11 12.81 | + 7 33.5 | 2.361 | 3.232 | 10.3 | 21.9 |
| 4 21 | 11 8.31 | + 8 20.5 | 2.446 | 3.224 | 13.0 | 22.0 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **164460** 2006 $DS_{113}$ | | | 3 13.2 233°.61 | | 1°.1/12.4 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.13 | + 4 3.6 | 1.679 | 2.536 | 13.6 | 20.1 |
| 2 21 | 11 53.79 | + 4 30.2 | 1.599 | 2.527 | 9.7 | 19.9 |
| 3 2 | 11 45.11 | + 5 6.3 | 1.543 | 2.518 | 5.2 | 19.6 |
| 3 12 | 11 34.98 | + 5 46.4 | 1.515 | 2.508 | 1.1 | 19.3 |
| 3 22 | 11 24.52 | + 6 23.9 | 1.515 | 2.498 | 4.9 | 19.5 |
| 4 1 | 11 14.96 | + 6 52.5 | 1.543 | 2.487 | 9.6 | 19.8 |
| 4 11 | 11 7.37 | + 7 7.8 | 1.595 | 2.476 | 13.8 | 20.0 |
| 4 21 | 11 2.36 | + 7 7.7 | 1.667 | 2.464 | 17.4 | 20.2 |
| **276157** 2002 $LK_{16}$ | | | 3 13.2 290°.02 | | 4°.5/ 9.5 17 | |
| 2 11 | 11 57.81 | +11 12.1 | 1.495 | 2.372 | 13.8 | 20.3 |
| 2 21 | 11 52.45 | +12 12.1 | 1.415 | 2.352 | 9.9 | 20.1 |
| 3 2 | 11 44.53 | +13 17.3 | 1.359 | 2.333 | 6.0 | 19.8 |
| 3 12 | 11 34.93 | +14 18.2 | 1.330 | 2.313 | 4.7 | 19.6 |
| 3 22 | 11 24.88 | +15 5.6 | 1.327 | 2.293 | 8.0 | 19.8 |
| 4 1 | 11 15.76 | +15 32.4 | 1.348 | 2.273 | 12.4 | 20.0 |
| 4 11 | 11 8.76 | +15 35.0 | 1.392 | 2.253 | 16.6 | 20.2 |
| 4 21 | 11 4.59 | +15 14.0 | 1.453 | 2.234 | 20.2 | 20.4 |
| **224490** 2005 $WK_{3}$ | | | 3 13.2 172°.82 | | 4°.9/19.2 18 | |
| 2 11 | 11 54.81 | −16 7.9 | 2.324 | 3.092 | 13.3 | 20.9 |
| 2 21 | 11 49.50 | −15 53.1 | 2.238 | 3.095 | 10.7 | 20.7 |
| 3 2 | 11 42.58 | −15 16.8 | 2.175 | 3.098 | 8.0 | 20.5 |
| 3 12 | 11 34.70 | −14 20.4 | 2.138 | 3.100 | 5.6 | 20.4 |
| 3 22 | 11 26.64 | −13 7.6 | 2.130 | 3.101 | 5.0 | 20.3 |
| 4 1 | 11 19.25 | −11 44.5 | 2.152 | 3.102 | 6.8 | 20.4 |
| 4 11 | 11 13.24 | −10 18.5 | 2.200 | 3.102 | 9.6 | 20.6 |
| 4 21 | 11 9.09 | − 8 56.4 | 2.273 | 3.102 | 12.3 | 20.8 |
| **329795** 2004 $PS_{102}$ | | | 3 13.2 261°.95 | | 1°.4/14.8 18 | |
| 2 11 | 11 53.41 | − 5 8.3 | 2.016 | 2.848 | 12.7 | 20.8 |
| 2 21 | 11 48.78 | − 4 17.3 | 1.920 | 2.831 | 9.4 | 20.6 |
| 3 2 | 11 42.32 | − 3 7.6 | 1.849 | 2.814 | 5.7 | 20.3 |
| 3 12 | 11 34.69 | − 1 43.7 | 1.805 | 2.796 | 1.9 | 20.0 |
| 3 22 | 11 26.73 | − 0 12.0 | 1.791 | 2.778 | 3.5 | 20.1 |
| 4 1 | 11 19.38 | + 1 19.2 | 1.806 | 2.760 | 7.6 | 20.3 |
| 4 11 | 11 13.48 | + 2 42.3 | 1.847 | 2.742 | 11.5 | 20.5 |
| 4 21 | 11 9.61 | + 3 51.6 | 1.911 | 2.723 | 14.9 | 20.7 |
| **434014** 2001 $QV_{105}$ | | | 3 13.2 183°.88 | | 6°.6/21.1 16 | |
| 2 11 | 11 56.76 | −21 20.3 | 2.461 | 3.188 | 13.7 | 22.2 |
| 2 21 | 11 50.90 | −21 31.7 | 2.369 | 3.189 | 11.5 | 22.0 |
| 3 2 | 11 43.36 | −21 20.6 | 2.299 | 3.189 | 9.3 | 21.8 |
| 3 12 | 11 34.80 | −20 46.7 | 2.255 | 3.188 | 7.3 | 21.7 |
| 3 22 | 11 26.00 | −19 52.1 | 2.239 | 3.186 | 6.6 | 21.7 |
| 4 1 | 11 17.83 | −18 41.4 | 2.250 | 3.184 | 7.6 | 21.7 |
| 4 11 | 11 11.04 | −17 21.7 | 2.289 | 3.181 | 9.7 | 21.8 |
| 4 21 | 11 6.14 | −16 0.0 | 2.353 | 3.178 | 12.0 | 22.0 |
| **25** Phocaea | | | 3 13.2 257°.67 | | 7°.4/21.3 18 | |
| 2 11 | 11 55.17 | −21 57.4 | 1.987 | 2.729 | 16.1 | 12.4 |
| 2 21 | 11 50.25 | −21 42.6 | 1.877 | 2.708 | 13.6 | 12.1 |
| 3 2 | 11 43.23 | −20 57.0 | 1.786 | 2.686 | 10.9 | 11.9 |
| 3 12 | 11 34.80 | −19 39.6 | 1.720 | 2.663 | 8.4 | 11.7 |
| 3 22 | 11 25.90 | −17 53.1 | 1.681 | 2.640 | 7.4 | 11.6 |
| 4 1 | 11 17.62 | −15 44.8 | 1.669 | 2.616 | 8.8 | 11.6 |
| 4 11 | 11 10.95 | −13 26.0 | 1.685 | 2.591 | 11.7 | 11.7 |
| 4 21 | 11 6.56 | −11 8.1 | 1.725 | 2.566 | 15.0 | 11.9 |
| **473101** 2015 $HT_{169}$ | | | 3 13.2 247°.31 | | 1°.1/11.9 17 | |
| 2 11 | 11 53.67 | + 4 40.2 | 2.460 | 3.314 | 9.9 | 21.7 |
| 2 21 | 11 48.60 | + 5 14.8 | 2.379 | 3.306 | 7.0 | 21.5 |
| 3 2 | 11 42.06 | + 5 55.9 | 2.324 | 3.298 | 3.7 | 21.3 |
| 3 12 | 11 34.65 | + 6 39.2 | 2.298 | 3.290 | 1.1 | 21.1 |
| 3 22 | 11 27.08 | + 7 20.0 | 2.302 | 3.282 | 3.8 | 21.2 |
| 4 1 | 11 20.09 | + 7 53.9 | 2.335 | 3.273 | 7.1 | 21.4 |
| 4 11 | 11 14.32 | + 8 17.5 | 2.394 | 3.265 | 10.2 | 21.6 |
| 4 21 | 11 10.24 | + 8 29.2 | 2.476 | 3.256 | 12.8 | 21.8 |
| **210489** 1997 $AB_{22}$ | | | 3 13.2 63°.35 | | 7°.0/ 4.5 18 | |
| 2 11 | 11 53.92 | +22 15.7 | 2.084 | 2.955 | 10.7 | 19.5 |
| 2 21 | 11 48.88 | +23 54.3 | 2.052 | 2.972 | 8.4 | 19.4 |
| 3 2 | 11 42.20 | +25 24.5 | 2.046 | 2.989 | 7.1 | 19.4 |
| 3 12 | 11 34.66 | +26 38.2 | 2.068 | 3.006 | 7.5 | 19.4 |
| 3 22 | 11 27.15 | +27 29.4 | 2.117 | 3.023 | 9.4 | 19.6 |
| 4 1 | 11 20.53 | +27 55.6 | 2.190 | 3.041 | 11.7 | 19.7 |
| 4 11 | 11 15.51 | +27 57.2 | 2.284 | 3.058 | 13.8 | 19.9 |
| 4 21 | 11 12.48 | +27 36.9 | 2.397 | 3.075 | 15.7 | 20.1 |
| **193797** 2001 $OO_{106}$ | | | 3 13.2 173°.58 | | 3°.1/15.9 18 | |
| 2 11 | 11 59.99 | − 7 12.2 | 1.786 | 2.606 | 14.6 | 20.4 |
| 2 21 | 11 53.53 | − 7 6.4 | 1.709 | 2.609 | 11.1 | 20.1 |
| 3 2 | 11 44.92 | − 6 41.9 | 1.655 | 2.612 | 7.2 | 19.9 |
| 3 12 | 11 34.99 | − 6 1.3 | 1.628 | 2.614 | 3.6 | 19.7 |
| 3 22 | 11 24.83 | − 5 9.7 | 1.630 | 2.615 | 4.2 | 19.7 |
| 4 1 | 11 15.58 | − 4 13.9 | 1.660 | 2.615 | 8.1 | 20.0 |
| 4 11 | 11 8.20 | − 3 21.3 | 1.716 | 2.615 | 12.0 | 20.2 |
| 4 21 | 11 3.26 | − 2 37.4 | 1.794 | 2.614 | 15.4 | 20.4 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **8170** 1991 $PZ_{11}$ | | | 3 13.2 318°.56 | | 6°.4/17.9 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.26 | −12 48.3 | 1.652 | 2.456 | 16.3 | 16.8 |
| 2 21 | 11 51.94 | −13 34.2 | 1.564 | 2.444 | 13.2 | 16.6 |
| 3 2 | 11 44.24 | −13 58.5 | 1.498 | 2.433 | 9.8 | 16.3 |
| 3 12 | 11 34.94 | −14 0.1 | 1.456 | 2.422 | 7.0 | 16.2 |
| 3 22 | 11 25.15 | −13 40.5 | 1.440 | 2.412 | 6.7 | 16.1 |
| 4 1 | 11 16.14 | −13 4.8 | 1.450 | 2.402 | 9.3 | 16.2 |
| 4 11 | 11 9.05 | −12 20.9 | 1.484 | 2.393 | 12.9 | 16.4 |
| 4 21 | 11 4.58 | −11 36.7 | 1.539 | 2.384 | 16.3 | 16.6 |
| **76709** 2000 $HB_{103}$ | | | 3 13.2 219°.43 | | 5°.5/ 6.5 18 | |
| 2 11 | 11 55.54 | +19 20.9 | 2.344 | 3.210 | 9.9 | 19.7 |
| 2 21 | 11 49.99 | +20 27.7 | 2.282 | 3.206 | 7.5 | 19.6 |
| 3 2 | 11 42.83 | +21 30.5 | 2.247 | 3.201 | 5.7 | 19.4 |
| 3 12 | 11 34.75 | +22 22.4 | 2.240 | 3.196 | 5.8 | 19.4 |
| 3 22 | 11 26.56 | +22 58.1 | 2.262 | 3.191 | 7.7 | 19.5 |
| 4 1 | 11 19.09 | +23 14.4 | 2.310 | 3.185 | 10.2 | 19.7 |
| 4 11 | 11 13.04 | +23 10.5 | 2.381 | 3.179 | 12.6 | 19.8 |
| 4 21 | 11 8.89 | +22 48.0 | 2.472 | 3.173 | 14.8 | 20.0 |
| **201290** 2002 $SM_{36}$ | | | 3 13.3 223°.88 | | 1°.2/11.9 18 | |
| 2 11 | 11 53.86 | + 4 21.4 | 2.272 | 3.128 | 10.6 | 20.1 |
| 2 21 | 11 48.82 | + 5 6.7 | 2.195 | 3.124 | 7.4 | 19.9 |
| 3 2 | 11 42.22 | + 5 59.7 | 2.144 | 3.119 | 3.9 | 19.7 |
| 3 12 | 11 34.70 | + 6 55.2 | 2.122 | 3.114 | 1.2 | 19.5 |
| 3 22 | 11 27.01 | + 7 47.7 | 2.129 | 3.109 | 4.1 | 19.7 |
| 4 1 | 11 19.97 | + 8 32.2 | 2.166 | 3.104 | 7.6 | 19.9 |
| 4 11 | 11 14.26 | + 9 4.7 | 2.228 | 3.098 | 10.8 | 20.1 |
| 4 21 | 11 10.35 | + 9 23.3 | 2.312 | 3.093 | 13.6 | 20.3 |
| **279353** 2010 $AV_{14}$ | | | 3 13.3 92°.73 | | 0°.9/12.4 17 | |
| 2 11 | 11 56.10 | + 3 35.9 | 1.945 | 2.802 | 12.0 | 21.1 |
| 2 21 | 11 50.51 | + 4 8.5 | 1.881 | 2.810 | 8.5 | 20.9 |
| 3 2 | 11 43.15 | + 4 49.4 | 1.843 | 2.818 | 4.5 | 20.7 |
| 3 12 | 11 34.80 | + 5 33.4 | 1.833 | 2.826 | 0.9 | 20.4 |
| 3 22 | 11 26.38 | + 6 14.7 | 1.851 | 2.833 | 4.2 | 20.7 |
| 4 1 | 11 18.80 | + 6 48.2 | 1.898 | 2.841 | 8.1 | 20.9 |
| 4 11 | 11 12.86 | + 7 9.9 | 1.969 | 2.849 | 11.6 | 21.2 |
| 4 21 | 11 9.00 | + 7 18.0 | 2.062 | 2.856 | 14.6 | 21.4 |
| **68437** 2001 $RQ_{87}$ | | | 3 13.3 110°.98 | | 0°.3/13.0 18 | |
| 2 11 | 11 57.88 | + 1 38.2 | 1.891 | 2.740 | 12.6 | 20.4 |
| 2 21 | 11 51.77 | + 2 7.1 | 1.830 | 2.754 | 9.0 | 20.2 |
| 3 2 | 11 43.83 | + 2 46.1 | 1.794 | 2.767 | 4.8 | 20.0 |
| 3 12 | 11 34.88 | + 3 30.2 | 1.786 | 2.780 | 0.5 | 19.7 |
| 3 22 | 11 25.89 | + 4 13.4 | 1.808 | 2.792 | 3.9 | 20.0 |
| 4 1 | 11 17.83 | + 4 50.3 | 1.857 | 2.804 | 8.0 | 20.2 |
| 4 11 | 11 11.49 | + 5 16.6 | 1.932 | 2.816 | 11.6 | 20.5 |
| 4 21 | 11 7.33 | + 5 30.1 | 2.029 | 2.827 | 14.6 | 20.7 |
| **420770** 2013 $GJ_{26}$ | | | 3 13.3 324°.52 | | 0°.6/12.9 17 | |
| 2 11 | 11 56.83 | + 3 1.9 | 1.182 | 2.059 | 16.6 | 20.6 |
| 2 21 | 11 52.23 | + 3 10.4 | 1.104 | 2.041 | 12.0 | 20.3 |
| 3 2 | 11 44.63 | + 3 32.2 | 1.047 | 2.024 | 6.6 | 19.9 |
| 3 12 | 11 35.01 | + 4 1.6 | 1.013 | 2.007 | 0.8 | 19.5 |
| 3 22 | 11 24.81 | + 4 30.6 | 1.005 | 1.991 | 5.7 | 19.8 |
| 4 1 | 11 15.68 | + 4 51.4 | 1.019 | 1.976 | 11.7 | 20.0 |
| 4 11 | 11 9.06 | + 4 57.5 | 1.055 | 1.962 | 17.0 | 20.3 |
| 4 21 | 11 5.76 | + 4 46.1 | 1.108 | 1.949 | 21.5 | 20.5 |
| **341598** 2007 $UT_{100}$ | | | 3 13.3 243°.19 | | 3°.7/17.6 17 | |
| 2 11 | 11 52.90 | −11 24.7 | 2.304 | 3.101 | 12.5 | 21.0 |
| 2 21 | 11 48.18 | −11 13.9 | 2.216 | 3.098 | 9.8 | 20.8 |
| 3 2 | 11 41.90 | −10 45.0 | 2.152 | 3.094 | 6.8 | 20.6 |
| 3 12 | 11 34.68 | − 9 59.9 | 2.116 | 3.091 | 4.3 | 20.5 |
| 3 22 | 11 27.25 | − 9 2.4 | 2.108 | 3.087 | 4.1 | 20.4 |
| 4 1 | 11 20.43 | − 7 57.9 | 2.128 | 3.084 | 6.5 | 20.6 |
| 4 11 | 11 14.92 | − 6 52.8 | 2.175 | 3.080 | 9.6 | 20.8 |
| 4 21 | 11 11.19 | − 5 52.8 | 2.246 | 3.076 | 12.4 | 20.9 |
| **222760** 2002 $CJ_{47}$ | | | 3 13.3 77°.38 | | 5°.3/17.9 18 | |
| 2 11 | 11 58.46 | −12 33.4 | 1.811 | 2.608 | 15.4 | 20.5 |
| 2 21 | 11 52.34 | −12 57.5 | 1.747 | 2.625 | 12.2 | 20.3 |
| 3 2 | 11 44.21 | −13 0.0 | 1.705 | 2.642 | 8.8 | 20.2 |
| 3 12 | 11 34.93 | −12 41.9 | 1.689 | 2.658 | 5.9 | 20.0 |
| 3 22 | 11 25.56 | −12 6.7 | 1.700 | 2.675 | 5.6 | 20.0 |
| 4 1 | 11 17.15 | −11 20.5 | 1.739 | 2.691 | 8.0 | 20.2 |
| 4 11 | 11 10.59 | −10 30.7 | 1.803 | 2.708 | 11.2 | 20.4 |
| 4 21 | 11 6.37 | − 9 43.9 | 1.889 | 2.724 | 14.2 | 20.7 |
| **413933** 2006 $XR_{38}$ | | | 3 13.3 106°.60 | | 1°.8/11.5 18 | |
| 2 11 | 11 57.92 | + 5 30.6 | 1.956 | 2.813 | 11.9 | 21.4 |
| 2 21 | 11 51.68 | + 6 23.0 | 1.905 | 2.834 | 8.3 | 21.2 |
| 3 2 | 11 43.73 | + 7 21.9 | 1.880 | 2.855 | 4.4 | 21.0 |
| 3 12 | 11 34.87 | + 8 20.7 | 1.884 | 2.875 | 1.8 | 20.9 |
| 3 22 | 11 26.06 | + 9 13.3 | 1.918 | 2.895 | 4.8 | 21.1 |
| 4 1 | 11 18.20 | + 9 54.3 | 1.980 | 2.914 | 8.5 | 21.4 |
| 4 11 | 11 12.04 | +10 20.6 | 2.067 | 2.933 | 11.8 | 21.6 |
| 4 21 | 11 7.98 | +10 31.1 | 2.175 | 2.951 | 14.5 | 21.9 |

**145814** 1998 $SD_{140}$ 3 13.3 135°.07 0°.0/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.12 | + 1 0.1 | 2.085 | 2.926 | 12.0 | 21.1 |
| 2 21 | 11 52.52 | + 1 25.8 | 2.021 | 2.940 | 8.5 | 20.9 |
| 3 2 | 11 44.20 | + 2 1.2 | 1.983 | 2.954 | 4.6 | 20.6 |
| 3 12 | 11 34.93 | + 2 41.8 | 1.973 | 2.967 | 0.5 | 20.3 |
| 3 22 | 11 25.62 | + 3 22.6 | 1.994 | 2.979 | 3.6 | 20.6 |
| 4 1 | 11 17.17 | + 3 58.3 | 2.045 | 2.991 | 7.5 | 20.9 |
| 4 11 | 11 10.34 | + 4 25.0 | 2.121 | 3.002 | 10.9 | 21.1 |
| 4 21 | 11 5.58 | + 4 40.3 | 2.220 | 3.012 | 13.7 | 21.3 |

**507346** 2011 $UJ_{270}$ 3 13.3 207°.11 2°.5/ 9.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.92 | +10 17.7 | 2.828 | 3.689 | 8.6 | 22.1 |
| 2 21 | 11 47.91 | +11 8.3 | 2.754 | 3.684 | 6.0 | 21.9 |
| 3 2 | 11 41.65 | +12 1.2 | 2.708 | 3.680 | 3.5 | 21.7 |
| 3 12 | 11 34.65 | +12 51.8 | 2.691 | 3.675 | 2.6 | 21.7 |
| 3 22 | 11 27.54 | +13 35.5 | 2.705 | 3.669 | 4.6 | 21.8 |
| 4 1 | 11 20.95 | +14 8.8 | 2.748 | 3.664 | 7.2 | 21.9 |
| 4 11 | 11 15.45 | +14 29.5 | 2.817 | 3.658 | 9.7 | 22.1 |
| 4 21 | 11 11.41 | +14 36.7 | 2.908 | 3.651 | 11.9 | 22.3 |

**325147** 2008 $EX_{165}$ 3 13.3 349°.05 4°.4/ 9.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.36 | +10 27.6 | 1.325 | 2.210 | 14.6 | 20.8 |
| 2 21 | 11 50.74 | +11 22.2 | 1.263 | 2.205 | 10.4 | 20.5 |
| 3 2 | 11 43.57 | +12 21.7 | 1.224 | 2.199 | 6.1 | 20.2 |
| 3 12 | 11 34.88 | +13 16.3 | 1.210 | 2.195 | 4.5 | 20.1 |
| 3 22 | 11 25.97 | +13 56.7 | 1.221 | 2.192 | 7.9 | 20.3 |
| 4 1 | 11 18.22 | +14 16.4 | 1.256 | 2.189 | 12.4 | 20.5 |
| 4 11 | 11 12.74 | +14 12.5 | 1.312 | 2.187 | 16.6 | 20.8 |
| 4 21 | 11 10.10 | +13 46.0 | 1.386 | 2.187 | 20.1 | 21.0 |

**68028** 2000 $YD_{28}$ 3 13.3 195°.84 2°.3/16.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.87 | − 8 22.1 | 2.436 | 3.244 | 11.6 | 20.7 |
| 2 21 | 11 48.78 | − 7 40.8 | 2.347 | 3.241 | 8.8 | 20.5 |
| 3 2 | 11 42.19 | − 6 42.7 | 2.284 | 3.238 | 5.6 | 20.3 |
| 3 12 | 11 34.72 | − 5 31.2 | 2.249 | 3.234 | 2.7 | 20.1 |
| 3 22 | 11 27.07 | − 4 11.2 | 2.244 | 3.230 | 3.2 | 20.1 |
| 4 1 | 11 20.00 | − 2 49.0 | 2.270 | 3.225 | 6.2 | 20.3 |
| 4 11 | 11 14.18 | − 1 30.9 | 2.323 | 3.219 | 9.4 | 20.5 |
| 4 21 | 11 10.08 | − 0 21.9 | 2.401 | 3.213 | 12.2 | 20.7 |

**2986** Mrinalini 3 13.3 176°.36 0°.8/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.24 | + 3 56.7 | 2.830 | 3.677 | 9.0 | 17.8 |
| 2 21 | 11 48.11 | + 4 33.1 | 2.754 | 3.679 | 6.3 | 17.6 |
| 3 2 | 11 41.75 | + 5 15.4 | 2.706 | 3.680 | 3.3 | 17.4 |
| 3 12 | 11 34.68 | + 5 59.7 | 2.689 | 3.681 | 0.8 | 17.2 |
| 3 22 | 11 27.52 | + 6 42.2 | 2.701 | 3.682 | 3.2 | 17.4 |
| 4 1 | 11 20.89 | + 7 18.8 | 2.744 | 3.682 | 6.2 | 17.6 |
| 4 11 | 11 15.33 | + 7 46.6 | 2.813 | 3.682 | 8.9 | 17.8 |
| 4 21 | 11 11.24 | + 8 4.0 | 2.906 | 3.681 | 11.2 | 17.9 |

**104933** 2000 $JJ_{29}$ 3 13.3 333°.74 5°.9/18.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.44 | −12 59.8 | 1.430 | 2.250 | 17.6 | 19.2 |
| 2 21 | 11 48.70 | −13 5.1 | 1.347 | 2.239 | 14.1 | 18.9 |
| 3 2 | 11 42.54 | −12 41.8 | 1.284 | 2.228 | 10.2 | 18.6 |
| 3 12 | 11 34.80 | −11 50.6 | 1.245 | 2.219 | 6.8 | 18.4 |
| 3 22 | 11 26.65 | −10 36.4 | 1.230 | 2.210 | 6.2 | 18.4 |
| 4 1 | 11 19.38 | − 9 8.2 | 1.240 | 2.202 | 9.4 | 18.5 |
| 4 11 | 11 14.14 | − 7 37.7 | 1.273 | 2.194 | 13.5 | 18.7 |
| 4 21 | 11 11.63 | − 6 15.1 | 1.327 | 2.188 | 17.5 | 18.9 |

**146074** 2000 $GV_{111}$ 3 13.3 330°.13 2°.2/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.93 | − 3 35.7 | 1.478 | 2.327 | 15.5 | 19.7 |
| 2 21 | 11 51.05 | − 3 33.8 | 1.400 | 2.319 | 11.6 | 19.5 |
| 3 2 | 11 43.76 | − 3 14.0 | 1.344 | 2.312 | 7.0 | 19.2 |
| 3 12 | 11 34.94 | − 2 39.7 | 1.314 | 2.305 | 2.7 | 18.9 |
| 3 22 | 11 25.77 | − 1 56.7 | 1.310 | 2.298 | 4.3 | 19.0 |
| 4 1 | 11 17.54 | − 1 12.5 | 1.332 | 2.292 | 9.1 | 19.2 |
| 4 11 | 11 11.35 | − 0 34.4 | 1.377 | 2.286 | 13.7 | 19.5 |
| 4 21 | 11 7.85 | − 0 7.9 | 1.443 | 2.281 | 17.6 | 19.7 |

**27946** 1997 $NA$ 3 13.3 194°.19 2°.5/15.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.86 | − 6 56.1 | 1.827 | 2.649 | 14.2 | 20.2 |
| 2 21 | 11 52.04 | − 6 25.7 | 1.744 | 2.648 | 10.7 | 20.0 |
| 3 2 | 11 44.15 | − 5 35.4 | 1.686 | 2.645 | 6.7 | 19.8 |
| 3 12 | 11 34.98 | − 4 29.0 | 1.654 | 2.642 | 3.0 | 19.5 |
| 3 22 | 11 25.55 | − 3 12.7 | 1.651 | 2.638 | 3.9 | 19.6 |
| 4 1 | 11 16.94 | − 1 54.6 | 1.677 | 2.633 | 8.0 | 19.8 |
| 4 11 | 11 10.07 | − 0 42.6 | 1.729 | 2.627 | 12.0 | 20.0 |
| 4 21 | 11 5.54 | + 0 17.3 | 1.803 | 2.621 | 15.4 | 20.2 |

**242326** 2003 $YQ_{27}$ 3 13.3 128°.78 6°.2/ 6.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.12 | +20 26.3 | 2.144 | 3.012 | 10.6 | 20.1 |
| 2 21 | 11 50.48 | +21 39.0 | 2.094 | 3.017 | 8.1 | 20.0 |
| 3 2 | 11 43.14 | +22 45.8 | 2.070 | 3.021 | 6.4 | 19.9 |
| 3 12 | 11 34.86 | +23 39.4 | 2.074 | 3.025 | 6.6 | 19.9 |
| 3 22 | 11 26.53 | +24 14.2 | 2.105 | 3.029 | 8.5 | 20.0 |
| 4 1 | 11 19.06 | +24 27.1 | 2.162 | 3.033 | 11.0 | 20.2 |
| 4 11 | 11 13.18 | +24 18.1 | 2.241 | 3.036 | 13.4 | 20.3 |
| 4 21 | 11 9.33 | +23 49.3 | 2.340 | 3.040 | 15.5 | 20.5 |

**77106** 2001 $DH_{69}$ 3 13.3 311°.39 0°.3/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.25 | + 0 16.5 | 1.420 | 2.282 | 15.3 | 19.4 |
| 2 21 | 11 51.41 | + 0 35.6 | 1.339 | 2.269 | 11.1 | 19.1 |
| 3 2 | 11 44.02 | + 1 10.3 | 1.281 | 2.255 | 6.2 | 18.8 |
| 3 12 | 11 34.99 | + 1 55.3 | 1.249 | 2.242 | 0.9 | 18.4 |
| 3 22 | 11 25.52 | + 2 43.4 | 1.242 | 2.229 | 4.7 | 18.6 |
| 4 1 | 11 16.99 | + 3 26.6 | 1.261 | 2.217 | 10.0 | 18.9 |
| 4 11 | 11 10.57 | + 3 58.0 | 1.303 | 2.205 | 14.8 | 19.1 |
| 4 21 | 11 6.97 | + 4 13.4 | 1.364 | 2.193 | 18.9 | 19.3 |

**131463** 2001 $QT_{286}$ 3 13.3 191°.80 3°.0/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.70 | −10 34.1 | 2.628 | 3.424 | 11.2 | 20.6 |
| 2 21 | 11 47.88 | −10 10.0 | 2.540 | 3.423 | 8.7 | 20.4 |
| 3 2 | 11 41.70 | − 9 29.9 | 2.476 | 3.421 | 5.9 | 20.2 |
| 3 12 | 11 34.70 | − 8 35.9 | 2.441 | 3.419 | 3.5 | 20.0 |
| 3 22 | 11 27.55 | − 7 32.1 | 2.435 | 3.417 | 3.4 | 20.0 |
| 4 1 | 11 20.94 | − 6 23.5 | 2.459 | 3.414 | 5.8 | 20.2 |
| 4 11 | 11 15.48 | − 5 15.7 | 2.511 | 3.411 | 8.6 | 20.4 |
| 4 21 | 11 11.58 | − 4 13.6 | 2.587 | 3.407 | 11.2 | 20.5 |

**133156** 2003 $QZ_{25}$ 3 13.3 241°.93 2°.5/15.5 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.40 | − 6 4.7 | 1.761 | 2.590 | 14.4 | 20.4 |
| 2 21 | 11 51.88 | − 5 48.1 | 1.671 | 2.578 | 10.9 | 20.2 |
| 3 2 | 11 44.15 | − 5 12.4 | 1.605 | 2.566 | 6.8 | 19.9 |
| 3 12 | 11 35.01 | − 4 20.7 | 1.565 | 2.553 | 3.0 | 19.6 |
| 3 22 | 11 25.47 | − 3 18.6 | 1.553 | 2.540 | 4.1 | 19.6 |
| 4 1 | 11 16.68 | − 2 13.4 | 1.570 | 2.526 | 8.3 | 19.9 |
| 4 11 | 11 9.67 | − 1 13.0 | 1.611 | 2.512 | 12.5 | 20.1 |
| 4 21 | 11 5.07 | − 0 23.4 | 1.674 | 2.498 | 16.2 | 20.3 |

**109715** 2001 $RO_{48}$ 3 13.3 197°.48 2°.1/16.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.55 | − 7 36.8 | 2.643 | 3.453 | 10.7 | 20.0 |
| 2 21 | 11 47.77 | − 7 7.6 | 2.555 | 3.451 | 8.1 | 19.8 |
| 3 2 | 11 41.63 | − 6 24.2 | 2.493 | 3.448 | 5.2 | 19.6 |
| 3 12 | 11 34.71 | − 5 29.2 | 2.460 | 3.445 | 2.6 | 19.4 |
| 3 22 | 11 27.63 | − 4 26.8 | 2.456 | 3.442 | 3.0 | 19.4 |
| 4 1 | 11 21.08 | − 3 22.1 | 2.483 | 3.438 | 5.8 | 19.6 |
| 4 11 | 11 15.65 | − 2 20.3 | 2.537 | 3.434 | 8.7 | 19.8 |
| 4 21 | 11 11.78 | − 1 25.7 | 2.616 | 3.429 | 11.3 | 20.0 |

**162815** 2001 $BU_{22}$ 3 13.3 106°.96 1°.2/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.05 | + 3 12.4 | 1.715 | 2.571 | 13.4 | 20.6 |
| 2 21 | 11 52.70 | + 4 4.5 | 1.663 | 2.591 | 9.4 | 20.4 |
| 3 2 | 11 44.38 | + 5 6.4 | 1.636 | 2.611 | 5.0 | 20.2 |
| 3 12 | 11 35.01 | + 6 11.0 | 1.638 | 2.630 | 1.2 | 19.9 |
| 3 22 | 11 25.68 | + 7 10.9 | 1.668 | 2.649 | 4.7 | 20.2 |
| 4 1 | 11 17.45 | + 7 59.7 | 1.726 | 2.667 | 9.0 | 20.5 |
| 4 11 | 11 11.13 | + 8 33.2 | 1.808 | 2.685 | 12.7 | 20.8 |
| 4 21 | 11 7.16 | + 8 49.8 | 1.912 | 2.702 | 15.7 | 21.0 |

**209017** 2003 $DQ$ 3 13.3 50°.58 1°.3/11.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.59 | + 3 4.5 | 2.046 | 2.907 | 11.4 | 19.7 |
| 2 21 | 11 47.28 | + 4 14.5 | 1.986 | 2.917 | 7.9 | 19.5 |
| 3 2 | 11 41.41 | + 5 33.9 | 1.952 | 2.928 | 4.2 | 19.3 |
| 3 12 | 11 34.68 | + 6 56.3 | 1.947 | 2.939 | 1.3 | 19.1 |
| 3 22 | 11 27.88 | + 8 14.4 | 1.970 | 2.950 | 4.3 | 19.3 |
| 4 1 | 11 21.84 | + 9 21.9 | 2.022 | 2.961 | 8.0 | 19.5 |
| 4 11 | 11 17.21 | +10 14.2 | 2.099 | 2.972 | 11.3 | 19.8 |
| 4 21 | 11 14.43 | +10 49.2 | 2.197 | 2.984 | 14.0 | 20.0 |

**58627** Rieko 3 13.3 146°.71 4°.1/ 9.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.51 | +11 40.8 | 1.774 | 2.641 | 12.5 | 19.5 |
| 2 21 | 11 53.80 | +12 43.6 | 1.719 | 2.651 | 8.9 | 19.3 |
| 3 2 | 11 45.02 | +13 48.1 | 1.689 | 2.660 | 5.4 | 19.1 |
| 3 12 | 11 35.10 | +14 46.2 | 1.688 | 2.669 | 4.3 | 19.0 |
| 3 22 | 11 25.14 | +15 30.6 | 1.715 | 2.676 | 7.0 | 19.2 |
| 4 1 | 11 16.25 | +15 56.4 | 1.768 | 2.684 | 10.6 | 19.5 |
| 4 11 | 11 9.30 | +16 2.1 | 1.846 | 2.690 | 13.9 | 19.7 |
| 4 21 | 11 4.78 | +15 48.6 | 1.943 | 2.696 | 16.7 | 19.9 |

**383900** 2008 $SA_{52}$ 3 13.3 189°.53 0°.2/13.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.42 | + 1 17.8 | 2.634 | 3.473 | 9.8 | 22.5 |
| 2 21 | 11 49.76 | + 1 51.7 | 2.553 | 3.472 | 7.0 | 22.4 |
| 3 2 | 11 42.71 | + 2 34.0 | 2.499 | 3.470 | 3.8 | 22.1 |
| 3 12 | 11 34.84 | + 3 20.7 | 2.474 | 3.468 | 0.4 | 21.9 |
| 3 22 | 11 26.83 | + 4 7.5 | 2.481 | 3.465 | 3.1 | 22.1 |
| 4 1 | 11 19.38 | + 4 50.1 | 2.517 | 3.461 | 6.4 | 22.3 |
| 4 11 | 11 13.13 | + 5 24.6 | 2.581 | 3.457 | 9.4 | 22.5 |
| 4 21 | 11 8.49 | + 5 48.8 | 2.669 | 3.452 | 11.9 | 22.6 |

**100604** Lundy 3 13.3 130°.77 1°.0/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.92 | + 3 49.7 | 1.918 | 2.773 | 12.3 | 20.2 |
| 2 21 | 11 51.85 | + 4 24.2 | 1.854 | 2.782 | 8.7 | 20.0 |
| 3 2 | 11 43.94 | + 5 6.9 | 1.816 | 2.790 | 4.6 | 19.7 |
| 3 12 | 11 34.99 | + 5 52.4 | 1.806 | 2.799 | 1.0 | 19.5 |
| 3 22 | 11 25.96 | + 6 34.8 | 1.825 | 2.807 | 4.3 | 19.7 |
| 4 1 | 11 17.83 | + 7 8.8 | 1.872 | 2.814 | 8.3 | 20.0 |
| 4 11 | 11 11.40 | + 7 30.5 | 1.945 | 2.822 | 11.9 | 20.2 |
| 4 21 | 11 7.14 | + 7 38.2 | 2.039 | 2.829 | 14.9 | 20.4 |

**22980** 1999 $VL_{27}$ 3 13.3 162°.53 0°.4/13.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.63 | − 0 23.1 | 1.950 | 2.792 | 12.7 | 19.2 |
| 2 21 | 11 52.39 | + 0 4.4 | 1.878 | 2.797 | 9.1 | 19.0 |
| 3 2 | 11 44.26 | + 0 44.0 | 1.832 | 2.802 | 5.1 | 18.8 |
| 3 12 | 11 35.03 | + 1 31.1 | 1.814 | 2.807 | 0.8 | 18.5 |
| 3 22 | 11 25.66 | + 2 19.8 | 1.825 | 2.810 | 3.7 | 18.7 |
| 4 1 | 11 17.15 | + 3 4.5 | 1.864 | 2.814 | 7.8 | 19.0 |
| 4 11 | 11 10.31 | + 3 39.9 | 1.930 | 2.816 | 11.5 | 19.2 |
| 4 21 | 11 5.65 | + 4 3.2 | 2.018 | 2.818 | 14.7 | 19.4 |

**266245** 2006 $XV_{63}$ 3 13.3 6°.81 6°.6/ 7.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.16 | +16 14.7 | 1.446 | 2.330 | 13.7 | 19.7 |
| 2 21 | 11 51.13 | +17 32.1 | 1.394 | 2.330 | 10.1 | 19.5 |
| 3 2 | 11 43.73 | +18 47.1 | 1.365 | 2.331 | 7.2 | 19.3 |
| 3 12 | 11 34.97 | +19 48.9 | 1.363 | 2.332 | 7.0 | 19.3 |
| 3 22 | 11 26.11 | +20 28.9 | 1.385 | 2.334 | 9.7 | 19.5 |
| 4 1 | 11 18.43 | +20 42.1 | 1.431 | 2.337 | 13.3 | 19.7 |
| 4 11 | 11 12.93 | +20 28.2 | 1.498 | 2.339 | 16.7 | 19.9 |
| 4 21 | 11 10.12 | +19 50.0 | 1.583 | 2.343 | 19.6 | 20.1 |

**243303** 2008 $FX_{40}$ 3 13.3 233°.41 0°.8/12.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.61 | + 2 11.9 | 2.219 | 3.067 | 11.1 | 21.8 |
| 2 21 | 11 50.21 | + 3 4.4 | 2.129 | 3.053 | 7.9 | 21.5 |
| 3 2 | 11 43.10 | + 4 7.6 | 2.065 | 3.039 | 4.2 | 21.3 |
| 3 12 | 11 34.91 | + 5 16.1 | 2.031 | 3.024 | 0.8 | 21.0 |
| 3 22 | 11 26.45 | + 6 24.0 | 2.027 | 3.008 | 4.0 | 21.2 |
| 4 1 | 11 18.58 | + 7 24.9 | 2.051 | 2.992 | 7.8 | 21.4 |
| 4 11 | 11 12.09 | + 8 14.0 | 2.102 | 2.975 | 11.3 | 21.6 |
| 4 21 | 11 7.50 | + 8 48.2 | 2.176 | 2.957 | 14.3 | 21.8 |

**431441** 2007 $RE_{48}$ 3 13.3 137°.93 1°.5/11.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.66 | + 6 28.9 | 2.352 | 3.206 | 10.3 | 21.3 |
| 2 21 | 11 50.71 | + 6 54.8 | 2.285 | 3.212 | 7.2 | 21.2 |
| 3 2 | 11 43.23 | + 7 25.1 | 2.244 | 3.219 | 3.9 | 21.0 |
| 3 12 | 11 34.92 | + 7 55.6 | 2.233 | 3.225 | 1.5 | 20.8 |
| 3 22 | 11 26.53 | + 8 21.8 | 2.252 | 3.230 | 4.1 | 21.0 |
| 4 1 | 11 18.86 | + 8 40.1 | 2.301 | 3.236 | 7.4 | 21.2 |
| 4 11 | 11 12.59 | + 8 47.8 | 2.375 | 3.241 | 10.4 | 21.4 |
| 4 21 | 11 8.12 | + 8 44.0 | 2.471 | 3.246 | 13.0 | 21.6 |

**328965** 2010 $VA_{160}$ 3 13.3 25°.24 6°.4/19.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.36 | −16 13.0 | 1.487 | 2.289 | 17.9 | 20.0 |
| 2 21 | 11 48.44 | −16 2.3 | 1.417 | 2.294 | 14.5 | 19.8 |
| 3 2 | 11 42.30 | −15 20.0 | 1.367 | 2.300 | 10.8 | 19.6 |
| 3 12 | 11 34.82 | −14 7.7 | 1.340 | 2.307 | 7.4 | 19.4 |
| 3 22 | 11 27.14 | −12 31.8 | 1.338 | 2.314 | 6.5 | 19.4 |
| 4 1 | 11 20.47 | −10 42.7 | 1.362 | 2.322 | 8.9 | 19.5 |
| 4 11 | 11 15.78 | − 8 52.4 | 1.410 | 2.331 | 12.6 | 19.7 |
| 4 21 | 11 13.63 | − 7 11.6 | 1.480 | 2.340 | 16.1 | 20.0 |

**213565** 2002 $LN_{49}$ 3 13.3 225°.24 1°.8/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.97 | − 5 22.3 | 1.901 | 2.731 | 13.5 | 20.8 |
| 2 21 | 11 50.69 | − 4 47.3 | 1.814 | 2.723 | 10.0 | 20.5 |
| 3 2 | 11 43.44 | − 3 54.2 | 1.751 | 2.714 | 6.1 | 20.3 |
| 3 12 | 11 34.97 | − 2 46.9 | 1.715 | 2.705 | 2.3 | 20.0 |
| 3 22 | 11 26.19 | − 1 31.5 | 1.709 | 2.696 | 3.6 | 20.1 |
| 4 1 | 11 18.14 | − 0 15.7 | 1.730 | 2.685 | 7.8 | 20.3 |
| 4 11 | 11 11.71 | + 0 53.0 | 1.778 | 2.675 | 11.8 | 20.5 |
| 4 21 | 11 7.46 | + 1 49.2 | 1.847 | 2.664 | 15.2 | 20.7 |

**196552** 2003 $QD_{7}$ 3 13.3 158°.07 0°.3/13.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.88 | + 0 7.6 | 2.271 | 3.112 | 11.1 | 20.6 |
| 2 21 | 11 50.24 | + 0 33.3 | 2.198 | 3.117 | 8.0 | 20.4 |
| 3 2 | 11 43.02 | + 1 8.8 | 2.150 | 3.121 | 4.4 | 20.2 |
| 3 12 | 11 34.91 | + 1 50.4 | 2.132 | 3.125 | 0.7 | 19.9 |
| 3 22 | 11 26.68 | + 2 33.1 | 2.143 | 3.128 | 3.3 | 20.2 |
| 4 1 | 11 19.14 | + 3 12.2 | 2.183 | 3.131 | 6.9 | 20.4 |
| 4 11 | 11 12.99 | + 3 43.6 | 2.250 | 3.134 | 10.2 | 20.6 |
| 4 21 | 11 8.68 | + 4 4.4 | 2.340 | 3.137 | 13.0 | 20.8 |

**165326** 2000 $UB_{91}$ 3 13.3 132°.78 4°.5/ 9.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.95 | +12 21.7 | 1.699 | 2.569 | 12.8 | 20.6 |
| 2 21 | 11 53.47 | +13 28.0 | 1.647 | 2.580 | 9.1 | 20.4 |
| 3 2 | 11 44.87 | +14 35.4 | 1.620 | 2.590 | 5.6 | 20.2 |
| 3 12 | 11 35.12 | +15 35.1 | 1.620 | 2.600 | 4.7 | 20.1 |
| 3 22 | 11 25.34 | +16 19.8 | 1.649 | 2.609 | 7.4 | 20.3 |
| 4 1 | 11 16.68 | +16 44.5 | 1.704 | 2.618 | 11.0 | 20.5 |
| 4 11 | 11 10.02 | +16 47.9 | 1.782 | 2.626 | 14.4 | 20.8 |
| 4 21 | 11 5.84 | +16 31.1 | 1.879 | 2.634 | 17.2 | 21.0 |

**306462** 1999 $RC_{32}$ 3 13.3 47°.83 0°.8/13.3 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 13 15.16 | +14 20.5 | 0.566 | 1.402 | 34.3 | 19.4 |
| 2 21 | 12 46.20 | +10 15.8 | 0.547 | 1.462 | 24.2 | 19.1 |
| 3 2 | 12 11.99 | + 6 0.0 | 0.553 | 1.523 | 12.8 | 18.9 |
| 3 12 | 11 37.92 | + 1 58.4 | 0.590 | 1.583 | 1.6 | 18.6 |
| 3 22 | 11 9.19 | − 1 23.6 | 0.659 | 1.643 | 8.5 | 19.3 |
| 4 1 | 10 48.44 | − 3 59.1 | 0.755 | 1.702 | 16.2 | 19.9 |
| 4 11 | 10 35.68 | − 5 57.3 | 0.873 | 1.760 | 21.7 | 20.5 |
| 4 21 | 10 29.58 | − 7 30.6 | 1.007 | 1.816 | 25.4 | 21.0 |

**372617** 2009 $VW_{37}$ 3 13.3 149°.88 1°.1/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.05 | + 3 37.9 | 2.075 | 2.929 | 11.5 | 21.5 |
| 2 21 | 11 50.46 | + 4 21.9 | 2.007 | 2.935 | 8.1 | 21.3 |
| 3 2 | 11 43.18 | + 5 14.2 | 1.966 | 2.940 | 4.3 | 21.1 |
| 3 12 | 11 34.93 | + 6 9.6 | 1.953 | 2.945 | 1.1 | 20.9 |
| 3 22 | 11 26.58 | + 7 1.8 | 1.969 | 2.950 | 4.2 | 21.1 |
| 4 1 | 11 19.01 | + 7 45.7 | 2.014 | 2.954 | 7.9 | 21.3 |
| 4 11 | 11 12.96 | + 8 17.1 | 2.084 | 2.958 | 11.3 | 21.5 |
| 4 21 | 11 8.90 | + 8 34.1 | 2.177 | 2.962 | 14.2 | 21.8 |

**140789** 2001 $UM_{142}$ 3 13.3 53°.41 2°.9/16.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.93 | − 9 14.3 | 2.179 | 2.992 | 12.6 | 20.2 |
| 2 21 | 11 47.54 | − 8 45.3 | 2.102 | 2.997 | 9.6 | 20.0 |
| 3 2 | 11 41.59 | − 7 58.2 | 2.050 | 3.002 | 6.3 | 19.8 |
| 3 12 | 11 34.76 | − 6 56.3 | 2.025 | 3.007 | 3.4 | 19.7 |
| 3 22 | 11 27.79 | − 5 44.7 | 2.028 | 3.013 | 3.5 | 19.7 |
| 4 1 | 11 21.50 | − 4 29.7 | 2.060 | 3.018 | 6.5 | 19.9 |
| 4 11 | 11 16.56 | − 3 18.1 | 2.119 | 3.024 | 9.8 | 20.1 |
| 4 21 | 11 13.43 | − 2 15.2 | 2.201 | 3.029 | 12.7 | 20.3 |

**456890** 2007 $VC_{131}$ 3 13.3 62°.43 0°.7/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.11 | + 1 25.6 | 1.384 | 2.250 | 15.4 | 21.7 |
| 2 21 | 11 51.71 | + 2 13.2 | 1.334 | 2.266 | 10.9 | 21.5 |
| 3 2 | 11 44.00 | + 3 15.0 | 1.307 | 2.282 | 5.8 | 21.2 |
| 3 12 | 11 35.03 | + 4 22.8 | 1.306 | 2.299 | 0.8 | 20.9 |
| 3 22 | 11 26.07 | + 5 27.7 | 1.331 | 2.316 | 5.0 | 21.3 |
| 4 1 | 11 18.37 | + 6 21.6 | 1.383 | 2.333 | 9.9 | 21.6 |
| 4 11 | 11 12.85 | + 6 58.7 | 1.457 | 2.350 | 14.1 | 21.9 |
| 4 21 | 11 10.00 | + 7 17.0 | 1.551 | 2.367 | 17.6 | 22.1 |

**122684** 2000 $SJ_{3}$ 3 13.3 229°.08 6°.1/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.60 | +16 24.2 | 1.826 | 2.697 | 12.0 | 19.8 |
| 2 21 | 11 52.68 | +18 0.3 | 1.756 | 2.685 | 8.9 | 19.6 |
| 3 2 | 11 44.58 | +19 36.2 | 1.712 | 2.673 | 6.5 | 19.4 |
| 3 12 | 11 35.12 | +21 1.9 | 1.697 | 2.660 | 6.5 | 19.4 |
| 3 22 | 11 25.36 | +22 8.5 | 1.709 | 2.646 | 9.1 | 19.5 |
| 4 1 | 11 16.45 | +22 50.1 | 1.746 | 2.632 | 12.4 | 19.7 |
| 4 11 | 11 9.39 | +23 4.9 | 1.807 | 2.617 | 15.6 | 19.8 |
| 4 21 | 11 4.77 | +22 54.6 | 1.884 | 2.601 | 18.3 | 20.0 |

**87029** 2000 $JP_{81}$ 3 13.3 298°.91 2°.2/15.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.32 | − 4 29.5 | 1.619 | 2.462 | 14.8 | 19.6 |
| 2 21 | 11 50.59 | − 4 17.2 | 1.529 | 2.444 | 11.1 | 19.4 |
| 3 2 | 11 43.56 | − 3 46.3 | 1.462 | 2.427 | 6.8 | 19.1 |
| 3 12 | 11 35.01 | − 3 0.1 | 1.420 | 2.410 | 2.7 | 18.8 |
| 3 22 | 11 26.01 | − 2 4.3 | 1.405 | 2.393 | 4.2 | 18.8 |
| 4 1 | 11 17.77 | − 1 6.4 | 1.417 | 2.376 | 8.8 | 19.0 |
| 4 11 | 11 11.36 | − 0 14.4 | 1.453 | 2.359 | 13.3 | 19.2 |
| 4 21 | 11 7.49 | + 0 25.8 | 1.510 | 2.343 | 17.2 | 19.5 |

**250604** 2005 $EC_{177}$ 3 13.3 318°.06 0°.6/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.30 | + 2 19.2 | 1.365 | 2.235 | 15.3 | 20.2 |
| 2 21 | 11 51.54 | + 2 41.8 | 1.287 | 2.220 | 11.1 | 19.9 |
| 3 2 | 11 44.17 | + 3 18.3 | 1.230 | 2.206 | 6.0 | 19.5 |
| 3 12 | 11 35.08 | + 4 2.5 | 1.199 | 2.193 | 0.7 | 19.1 |
| 3 22 | 11 25.56 | + 4 46.7 | 1.194 | 2.180 | 5.2 | 19.4 |
| 4 1 | 11 17.01 | + 5 23.0 | 1.213 | 2.167 | 10.6 | 19.7 |
| 4 11 | 11 10.66 | + 5 45.0 | 1.255 | 2.155 | 15.4 | 19.9 |
| 4 21 | 11 7.20 | + 5 49.4 | 1.316 | 2.144 | 19.5 | 20.1 |

**284127** 2005 $US_{319}$ 3 13.3 167°.39 0°.3/13.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.73 | + 1 14.6 | 1.510 | 2.367 | 14.9 | 22.1 |
| 2 21 | 11 53.63 | + 1 48.5 | 1.442 | 2.370 | 10.7 | 21.8 |
| 3 2 | 11 45.12 | + 2 36.1 | 1.398 | 2.372 | 5.8 | 21.6 |
| 3 12 | 11 35.18 | + 3 31.2 | 1.380 | 2.374 | 0.6 | 21.2 |
| 3 22 | 11 25.03 | + 4 26.1 | 1.390 | 2.375 | 4.7 | 21.5 |
| 4 1 | 11 15.97 | + 5 13.0 | 1.427 | 2.376 | 9.7 | 21.8 |
| 4 11 | 11 9.04 | + 5 46.0 | 1.487 | 2.377 | 14.1 | 22.0 |
| 4 21 | 11 4.83 | + 6 2.4 | 1.568 | 2.377 | 17.7 | 22.3 |

**203267** 2001 $QJ_{275}$ 3 13.3 259°.08 3°.9/ 8.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.35 | +12 19.6 | 2.219 | 3.089 | 10.2 | 20.2 |
| 2 21 | 11 48.59 | +13 34.1 | 2.147 | 3.081 | 7.3 | 20.0 |
| 3 2 | 11 42.20 | +14 51.1 | 2.102 | 3.072 | 4.6 | 19.9 |
| 3 12 | 11 34.84 | +16 3.4 | 2.086 | 3.063 | 4.1 | 19.8 |
| 3 22 | 11 27.30 | +17 4.5 | 2.098 | 3.053 | 6.4 | 19.9 |
| 4 1 | 11 20.41 | +17 49.3 | 2.138 | 3.044 | 9.5 | 20.1 |
| 4 11 | 11 14.90 | +18 15.1 | 2.202 | 3.035 | 12.4 | 20.3 |
| 4 21 | 11 11.24 | +18 21.8 | 2.286 | 3.025 | 14.9 | 20.4 |

**468947** 2015 $AE_{18}$ 3 13.3 170°.79 3°.0/10.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.97 | + 8 29.1 | 1.942 | 2.810 | 11.5 | 21.0 |
| 2 21 | 11 49.83 | + 9 37.0 | 1.877 | 2.811 | 8.1 | 20.8 |
| 3 2 | 11 42.90 | +10 50.4 | 1.838 | 2.812 | 4.6 | 20.6 |
| 3 12 | 11 34.92 | +12 1.9 | 1.827 | 2.813 | 3.1 | 20.5 |
| 3 22 | 11 26.81 | +13 4.2 | 1.845 | 2.814 | 5.9 | 20.6 |
| 4 1 | 11 19.51 | +13 51.6 | 1.890 | 2.814 | 9.4 | 20.9 |
| 4 11 | 11 13.80 | +14 20.7 | 1.959 | 2.814 | 12.8 | 21.1 |
| 4 21 | 11 10.17 | +14 30.8 | 2.049 | 2.815 | 15.6 | 21.3 |

**416025** 2002 $CK_{276}$ 3 13.3 20°.11 9°.8/21.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.82 | −20 26.2 | 1.471 | 2.245 | 19.4 | 20.2 |
| 2 21 | 11 51.09 | −21 30.2 | 1.404 | 2.252 | 16.5 | 20.0 |
| 3 2 | 11 43.85 | −22 3.2 | 1.356 | 2.259 | 13.4 | 19.8 |
| 3 12 | 11 35.05 | −22 2.5 | 1.330 | 2.268 | 10.8 | 19.7 |
| 3 22 | 11 25.95 | −21 29.7 | 1.326 | 2.277 | 9.9 | 19.6 |
| 4 1 | 11 17.91 | −20 31.0 | 1.347 | 2.287 | 11.0 | 19.7 |
| 4 11 | 11 12.05 | −19 17.2 | 1.389 | 2.298 | 13.6 | 19.9 |
| 4 21 | 11 9.01 | −17 59.3 | 1.453 | 2.310 | 16.5 | 20.1 |

**357115** 2001 $VT_{109}$ 3 13.3 147°.55 1°.6/14.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.39 | − 4 25.6 | 1.858 | 2.687 | 13.8 | 22.2 |
| 2 21 | 11 52.99 | − 3 55.7 | 1.789 | 2.698 | 10.1 | 22.0 |
| 3 2 | 11 44.62 | − 3 9.3 | 1.745 | 2.709 | 6.0 | 21.7 |
| 3 12 | 11 35.13 | − 2 10.9 | 1.728 | 2.719 | 2.1 | 21.5 |
| 3 22 | 11 25.53 | − 1 6.8 | 1.741 | 2.728 | 3.7 | 21.6 |
| 4 1 | 11 16.86 | − 0 4.0 | 1.783 | 2.736 | 7.8 | 21.9 |
| 4 11 | 11 9.97 | + 0 50.9 | 1.851 | 2.744 | 11.6 | 22.1 |
| 4 21 | 11 5.37 | + 1 33.7 | 1.941 | 2.750 | 14.8 | 22.4 |

**433650** 2014 $AX_{44}$ 3 13.3 9°.07 6°.1/ 6.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.89 | +18 40.5 | 1.991 | 2.866 | 10.9 | 20.4 |
| 2 21 | 11 49.06 | +19 58.8 | 1.938 | 2.867 | 8.2 | 20.2 |
| 3 2 | 11 42.47 | +21 12.9 | 1.911 | 2.868 | 6.3 | 20.1 |
| 3 12 | 11 34.88 | +22 14.8 | 1.911 | 2.869 | 6.5 | 20.1 |
| 3 22 | 11 27.21 | +22 58.1 | 1.938 | 2.871 | 8.6 | 20.2 |
| 4 1 | 11 20.39 | +23 19.0 | 1.991 | 2.873 | 11.3 | 20.4 |
| 4 11 | 11 15.17 | +23 16.9 | 2.066 | 2.875 | 13.9 | 20.6 |
| 4 21 | 11 12.00 | +22 53.7 | 2.159 | 2.877 | 16.2 | 20.7 |

**133285** 2003 $SU_{23}$ 3 13.3 257°.41 0°.7/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.90 | + 3 12.9 | 2.018 | 2.873 | 11.8 | 20.3 |
| 2 21 | 11 50.51 | + 3 42.3 | 1.938 | 2.866 | 8.4 | 20.1 |
| 3 2 | 11 43.30 | + 4 20.6 | 1.884 | 2.859 | 4.5 | 19.8 |
| 3 12 | 11 34.99 | + 5 2.9 | 1.858 | 2.851 | 0.8 | 19.6 |
| 3 22 | 11 26.47 | + 5 43.8 | 1.861 | 2.844 | 4.1 | 19.8 |
| 4 1 | 11 18.67 | + 6 18.0 | 1.892 | 2.837 | 8.1 | 20.0 |
| 4 11 | 11 12.40 | + 6 41.1 | 1.949 | 2.829 | 11.7 | 20.2 |
| 4 21 | 11 8.19 | + 6 51.1 | 2.027 | 2.822 | 14.8 | 20.4 |

**301294** 2009 $BW_{123}$ 3 13.3 23°.90 1°.8/11.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.61 | + 4 32.2 | 2.052 | 2.916 | 11.2 | 20.4 |
| 2 21 | 11 47.38 | + 5 46.9 | 1.985 | 2.918 | 7.8 | 20.2 |
| 3 2 | 11 41.54 | + 7 10.6 | 1.944 | 2.921 | 4.1 | 19.9 |
| 3 12 | 11 34.78 | + 8 36.4 | 1.932 | 2.923 | 1.9 | 19.8 |
| 3 22 | 11 27.90 | + 9 56.9 | 1.949 | 2.925 | 4.8 | 20.0 |
| 4 1 | 11 21.72 | +11 5.6 | 1.994 | 2.928 | 8.4 | 20.2 |
| 4 11 | 11 16.96 | +11 57.9 | 2.063 | 2.931 | 11.7 | 20.4 |
| 4 21 | 11 14.06 | +12 31.8 | 2.154 | 2.934 | 14.5 | 20.6 |

**417169** 2005 $WJ_{71}$ 3 13.3 97°.83 6°.7/ 6.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.40 | +20 39.4 | 1.914 | 2.782 | 11.7 | 20.3 |
| 2 21 | 11 52.87 | +21 50.7 | 1.876 | 2.799 | 8.9 | 20.2 |
| 3 2 | 11 44.47 | +22 54.4 | 1.864 | 2.816 | 7.0 | 20.1 |
| 3 12 | 11 35.11 | +23 42.4 | 1.880 | 2.832 | 7.0 | 20.2 |
| 3 22 | 11 25.85 | +24 9.1 | 1.923 | 2.849 | 9.0 | 20.3 |
| 4 1 | 11 17.69 | +24 12.3 | 1.991 | 2.865 | 11.6 | 20.5 |
| 4 11 | 11 11.40 | +23 52.7 | 2.081 | 2.881 | 14.2 | 20.7 |
| 4 21 | 11 7.39 | +23 13.5 | 2.190 | 2.896 | 16.3 | 20.9 |

**292031** 2006 $QR_{165}$ 3 13.3 248°.14 1°.7/15.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.10 | − 5 54.5 | 2.311 | 3.136 | 11.6 | 20.9 |
| 2 21 | 11 47.64 | − 5 16.2 | 2.225 | 3.131 | 8.6 | 20.7 |
| 3 2 | 11 41.68 | − 4 22.4 | 2.164 | 3.126 | 5.3 | 20.5 |
| 3 12 | 11 34.81 | − 3 16.8 | 2.131 | 3.120 | 2.1 | 20.3 |
| 3 22 | 11 27.75 | − 2 4.4 | 2.128 | 3.115 | 3.1 | 20.3 |
| 4 1 | 11 21.28 | − 0 51.5 | 2.153 | 3.109 | 6.5 | 20.5 |
| 4 11 | 11 16.08 | + 0 15.9 | 2.206 | 3.104 | 9.8 | 20.7 |
| 4 21 | 11 12.60 | + 1 13.2 | 2.282 | 3.098 | 12.7 | 20.9 |

**502319** 2015 $BW_{159}$ 3 13.3 96°.38 0°.8/14.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.48 | − 2 9.7 | 1.982 | 2.824 | 12.5 | 21.6 |
| 2 21 | 11 49.42 | − 1 32.1 | 1.915 | 2.833 | 9.0 | 21.4 |
| 3 2 | 11 42.65 | − 0 40.7 | 1.873 | 2.842 | 5.1 | 21.2 |
| 3 12 | 11 34.92 | + 0 19.5 | 1.858 | 2.851 | 1.2 | 20.9 |
| 3 22 | 11 27.09 | + 1 22.5 | 1.872 | 2.859 | 3.4 | 21.1 |
| 4 1 | 11 20.06 | + 2 21.7 | 1.915 | 2.868 | 7.4 | 21.3 |
| 4 11 | 11 14.56 | + 3 11.8 | 1.983 | 2.876 | 10.9 | 21.6 |
| 4 21 | 11 11.06 | + 3 49.0 | 2.074 | 2.884 | 14.0 | 21.8 |

**49299** 1998 $VU_{5}$ 3 13.3 32°.17 1°.5/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.94 | − 2 20.5 | 1.510 | 2.361 | 15.2 | 18.1 |
| 2 21 | 11 51.63 | − 2 9.6 | 1.444 | 2.365 | 11.1 | 17.9 |
| 3 2 | 11 44.03 | − 1 42.4 | 1.401 | 2.370 | 6.5 | 17.6 |
| 3 12 | 11 35.09 | − 1 3.2 | 1.383 | 2.374 | 1.9 | 17.3 |
| 3 22 | 11 25.96 | − 0 18.4 | 1.392 | 2.379 | 4.1 | 17.5 |
| 4 1 | 11 17.88 | + 0 24.7 | 1.427 | 2.385 | 8.9 | 17.8 |
| 4 11 | 11 11.84 | + 0 59.5 | 1.486 | 2.390 | 13.2 | 18.0 |
| 4 21 | 11 8.39 | + 1 21.8 | 1.566 | 2.396 | 16.8 | 18.3 |

**358495** 2007 $RQ_{118}$ 3 13.3 160°.94 1°.6/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.18 | + 5 17.1 | 1.799 | 2.656 | 12.9 | 20.9 |
| 2 21 | 11 53.62 | + 5 52.5 | 1.732 | 2.661 | 9.1 | 20.6 |
| 3 2 | 11 45.00 | + 6 35.4 | 1.691 | 2.665 | 4.9 | 20.4 |
| 3 12 | 11 35.20 | + 7 19.9 | 1.678 | 2.670 | 1.6 | 20.2 |
| 3 22 | 11 25.27 | + 7 59.5 | 1.693 | 2.673 | 4.9 | 20.4 |
| 4 1 | 11 16.31 | + 8 28.8 | 1.737 | 2.676 | 9.1 | 20.6 |
| 4 11 | 11 9.21 | + 8 44.1 | 1.806 | 2.679 | 12.8 | 20.9 |
| 4 21 | 11 4.50 | + 8 44.2 | 1.895 | 2.681 | 16.0 | 21.1 |

**307476** 2002 $XU_{22}$ 3 13.3 131°.45 6°.3/ 7.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.30 | +17 58.7 | 1.761 | 2.633 | 12.3 | 20.3 |
| 2 21 | 11 53.03 | +19 6.6 | 1.709 | 2.638 | 9.2 | 20.1 |
| 3 2 | 11 44.67 | +20 10.0 | 1.683 | 2.642 | 6.7 | 19.9 |
| 3 12 | 11 35.16 | +21 0.1 | 1.683 | 2.647 | 6.6 | 19.9 |
| 3 22 | 11 25.60 | +21 30.3 | 1.711 | 2.651 | 8.9 | 20.1 |
| 4 1 | 11 17.12 | +21 36.9 | 1.764 | 2.656 | 12.0 | 20.3 |
| 4 11 | 11 10.60 | +21 20.0 | 1.839 | 2.660 | 14.9 | 20.5 |
| 4 21 | 11 6.53 | +20 42.3 | 1.933 | 2.663 | 17.5 | 20.7 |

**191853** 2004 $VH_{59}$ 3 13.3 154°.43 1°.3/14.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.84 | − 2 59.4 | 2.135 | 2.968 | 12.1 | 21.0 |
| 2 21 | 11 50.33 | − 2 39.1 | 2.059 | 2.972 | 8.8 | 20.8 |
| 3 2 | 11 43.15 | − 2 5.8 | 2.010 | 2.976 | 5.2 | 20.6 |
| 3 12 | 11 34.99 | − 1 23.2 | 1.988 | 2.979 | 1.6 | 20.4 |
| 3 22 | 11 26.69 | − 0 36.0 | 1.995 | 2.982 | 3.2 | 20.5 |
| 4 1 | 11 19.11 | + 0 10.2 | 2.032 | 2.985 | 7.0 | 20.7 |
| 4 11 | 11 13.00 | + 0 50.3 | 2.094 | 2.988 | 10.4 | 20.9 |
| 4 21 | 11 8.83 | + 1 20.8 | 2.180 | 2.990 | 13.4 | 21.1 |

**328573** 2009 $SJ_{27}$ 3 13.3 163°.25 0°.7/14.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.34 | − 2 35.0 | 2.388 | 3.218 | 11.0 | 22.2 |
| 2 21 | 11 49.83 | − 1 51.3 | 2.312 | 3.225 | 8.0 | 22.0 |
| 3 2 | 11 42.82 | − 0 55.3 | 2.263 | 3.231 | 4.6 | 21.8 |
| 3 12 | 11 34.96 | + 0 8.8 | 2.243 | 3.236 | 1.1 | 21.6 |
| 3 22 | 11 26.98 | + 1 15.7 | 2.254 | 3.240 | 3.0 | 21.7 |
| 4 1 | 11 19.66 | + 2 19.5 | 2.294 | 3.244 | 6.5 | 22.0 |
| 4 11 | 11 13.65 | + 3 15.4 | 2.362 | 3.247 | 9.7 | 22.2 |
| 4 21 | 11 9.38 | + 4 0.0 | 2.454 | 3.250 | 12.5 | 22.4 |

**502206** 2015 $BY_{74}$ 3 13.3 70°.81 0°.6/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.45 | + 2 37.0 | 1.848 | 2.704 | 12.6 | 21.7 |
| 2 21 | 11 50.91 | + 3 4.2 | 1.784 | 2.711 | 8.9 | 21.5 |
| 3 2 | 11 43.51 | + 3 41.0 | 1.744 | 2.718 | 4.8 | 21.3 |
| 3 12 | 11 35.04 | + 4 22.1 | 1.732 | 2.726 | 0.7 | 21.0 |
| 3 22 | 11 26.48 | + 5 1.8 | 1.749 | 2.733 | 4.1 | 21.3 |
| 4 1 | 11 18.81 | + 5 34.6 | 1.793 | 2.740 | 8.2 | 21.5 |
| 4 11 | 11 12.84 | + 5 56.2 | 1.862 | 2.747 | 11.9 | 21.8 |
| 4 21 | 11 9.04 | + 6 4.6 | 1.952 | 2.755 | 15.0 | 22.0 |

**57912** 2002 $ES_{99}$ 3 13.3 315°.97 2°.5/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.12 | + 9 11.2 | 1.696 | 2.561 | 13.1 | 18.5 |
| 2 21 | 11 54.52 | + 9 17.2 | 1.620 | 2.552 | 9.3 | 18.2 |
| 3 2 | 11 45.61 | + 9 25.9 | 1.569 | 2.544 | 5.2 | 17.9 |
| 3 12 | 11 35.30 | + 9 31.7 | 1.546 | 2.535 | 2.5 | 17.7 |
| 3 22 | 11 24.74 | + 9 29.8 | 1.550 | 2.528 | 5.6 | 17.9 |
| 4 1 | 11 15.16 | + 9 16.4 | 1.582 | 2.520 | 9.9 | 18.1 |
| 4 11 | 11 7.57 | + 8 49.7 | 1.638 | 2.513 | 13.8 | 18.4 |
| 4 21 | 11 2.57 | + 8 9.9 | 1.715 | 2.506 | 17.2 | 18.6 |

**298333** 2003 $FF_{111}$ 3 13.3 359°.97 0°.9/14.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.27 | − 1 1.0 | 2.215 | 3.055 | 11.4 | 20.7 |
| 2 21 | 11 49.90 | − 0 55.8 | 2.138 | 3.054 | 8.3 | 20.5 |
| 3 2 | 11 42.91 | − 0 40.3 | 2.086 | 3.054 | 4.8 | 20.2 |
| 3 12 | 11 34.98 | − 0 17.7 | 2.062 | 3.054 | 1.3 | 20.0 |
| 3 22 | 11 26.88 | + 0 8.2 | 2.068 | 3.054 | 3.2 | 20.1 |
| 4 1 | 11 19.47 | + 0 33.1 | 2.102 | 3.054 | 6.8 | 20.3 |
| 4 11 | 11 13.44 | + 0 52.7 | 2.162 | 3.055 | 10.2 | 20.6 |
| 4 21 | 11 9.28 | + 1 4.4 | 2.245 | 3.055 | 13.0 | 20.7 |

**312170** 2007 $UB_{115}$ 3 13.3 130°.40 3°.2/16.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.28 | − 8 22.2 | 1.723 | 2.544 | 15.0 | 21.1 |
| 2 21 | 11 51.68 | − 8 3.8 | 1.653 | 2.553 | 11.4 | 20.9 |
| 3 2 | 11 44.00 | − 7 24.5 | 1.605 | 2.561 | 7.4 | 20.7 |
| 3 12 | 11 35.11 | − 6 27.6 | 1.584 | 2.569 | 3.8 | 20.5 |
| 3 22 | 11 26.06 | − 5 19.3 | 1.591 | 2.576 | 4.2 | 20.5 |
| 4 1 | 11 17.95 | − 4 7.4 | 1.625 | 2.583 | 8.0 | 20.8 |
| 4 11 | 11 11.69 | − 3 0.1 | 1.685 | 2.590 | 11.8 | 21.0 |
| 4 21 | 11 7.80 | − 2 3.4 | 1.767 | 2.596 | 15.2 | 21.2 |

**206611** 2003 $WZ_{79}$ 3 13.3 71°.84 4°.6/18.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.24 | −12 46.2 | 2.045 | 2.840 | 13.9 | 20.2 |
| 2 21 | 11 49.31 | −12 44.8 | 1.969 | 2.847 | 11.0 | 20.0 |
| 3 2 | 11 42.64 | −12 22.8 | 1.916 | 2.853 | 7.9 | 19.8 |
| 3 12 | 11 34.95 | −11 41.9 | 1.888 | 2.859 | 5.2 | 19.7 |
| 3 22 | 11 27.10 | −10 46.1 | 1.889 | 2.866 | 4.8 | 19.7 |
| 4 1 | 11 20.00 | − 9 41.6 | 1.917 | 2.873 | 7.2 | 19.8 |
| 4 11 | 11 14.41 | − 8 35.5 | 1.972 | 2.879 | 10.2 | 20.0 |
| 4 21 | 11 10.82 | − 7 34.2 | 2.050 | 2.886 | 13.2 | 20.2 |

**348897** 2006 $SA_{343}$ 3 13.3 66°.42 3°.1/16.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 52.45 | − 9 41.7 | 2.274 | 3.082 | 12.3 | 21.3 |
| 2 21 | 11 47.88 | − 9 22.4 | 2.197 | 3.088 | 9.5 | 21.1 |
| 3 2 | 11 41.81 | − 8 45.9 | 2.145 | 3.094 | 6.4 | 20.9 |
| 3 12 | 11 34.87 | − 7 54.9 | 2.120 | 3.100 | 3.6 | 20.7 |
| 3 22 | 11 27.81 | − 6 53.7 | 2.124 | 3.107 | 3.6 | 20.7 |
| 4 1 | 11 21.39 | − 5 48.3 | 2.156 | 3.113 | 6.3 | 20.9 |
| 4 11 | 11 16.30 | − 4 44.7 | 2.215 | 3.120 | 9.4 | 21.1 |
| 4 21 | 11 12.95 | − 3 48.0 | 2.298 | 3.126 | 12.2 | 21.3 |

**115554** 2003 $UL_{74}$ 3 13.3 158°.83 3°.3/17.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.97 | −10 0.6 | 2.478 | 3.274 | 11.8 | 20.3 |
| 2 21 | 11 50.29 | −10 0.0 | 2.397 | 3.280 | 9.1 | 20.1 |
| 3 2 | 11 43.10 | − 9 44.0 | 2.341 | 3.285 | 6.3 | 19.9 |
| 3 12 | 11 35.03 | − 9 14.3 | 2.313 | 3.289 | 3.8 | 19.8 |
| 3 22 | 11 26.81 | − 8 34.3 | 2.314 | 3.294 | 3.8 | 19.8 |
| 4 1 | 11 19.21 | − 7 48.3 | 2.344 | 3.297 | 6.2 | 19.9 |
| 4 11 | 11 12.90 | − 7 1.7 | 2.402 | 3.301 | 9.0 | 20.1 |
| 4 21 | 11 8.33 | − 6 19.0 | 2.485 | 3.304 | 11.7 | 20.3 |

**228059** 2008 $JH_{34}$ 3 13.3 336°.25 0°.8/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 50.59 | − 1 4.9 | 1.439 | 2.305 | 14.9 | 19.5 |
| 2 21 | 11 47.29 | + 0 28.6 | 1.364 | 2.297 | 10.6 | 19.3 |
| 3 2 | 11 41.78 | + 2 24.3 | 1.313 | 2.289 | 5.7 | 18.9 |
| 3 12 | 11 34.89 | + 4 32.8 | 1.289 | 2.282 | 0.8 | 18.6 |
| 3 22 | 11 27.71 | + 6 41.8 | 1.292 | 2.276 | 5.2 | 18.9 |
| 4 1 | 11 21.43 | + 8 38.5 | 1.321 | 2.270 | 10.3 | 19.1 |
| 4 11 | 11 17.05 | +10 13.1 | 1.373 | 2.265 | 14.9 | 19.4 |
| 4 21 | 11 15.18 | +11 20.8 | 1.444 | 2.260 | 18.7 | 19.6 |

**280391** 2003 $UK_{199}$ 3 13.3 208°.75 0°.3/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.68 | + 0 56.5 | 1.974 | 2.820 | 12.3 | 22.0 |
| 2 21 | 11 51.85 | + 1 40.6 | 1.892 | 2.815 | 8.8 | 21.7 |
| 3 2 | 11 44.09 | + 2 36.9 | 1.835 | 2.808 | 4.8 | 21.5 |
| 3 12 | 11 35.16 | + 3 40.0 | 1.807 | 2.801 | 0.5 | 21.1 |
| 3 22 | 11 25.97 | + 4 43.3 | 1.809 | 2.793 | 4.0 | 21.4 |
| 4 1 | 11 17.53 | + 5 40.3 | 1.839 | 2.784 | 8.2 | 21.6 |
| 4 11 | 11 10.68 | + 6 25.6 | 1.895 | 2.775 | 12.0 | 21.8 |
| 4 21 | 11 6.00 | + 6 56.0 | 1.973 | 2.765 | 15.2 | 22.0 |

**421458** 2014 $NH_{39}$ 3 13.3 178°.93 4°.4/17.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.85 | −10 59.8 | 1.847 | 2.649 | 14.9 | 21.7 |
| 2 21 | 11 52.81 | −11 0.5 | 1.766 | 2.651 | 11.7 | 21.5 |
| 3 2 | 11 44.67 | −10 39.9 | 1.708 | 2.652 | 8.1 | 21.2 |
| 3 12 | 11 35.24 | − 9 59.8 | 1.676 | 2.653 | 5.0 | 21.1 |
| 3 22 | 11 25.54 | − 9 4.3 | 1.672 | 2.653 | 4.9 | 21.0 |
| 4 1 | 11 16.69 | − 8 0.3 | 1.697 | 2.652 | 7.9 | 21.2 |
| 4 11 | 11 9.60 | − 6 55.8 | 1.747 | 2.651 | 11.6 | 21.4 |
| 4 21 | 11 4.88 | − 5 57.5 | 1.820 | 2.649 | 14.9 | 21.6 |

**453259** 2008 $SQ_{162}$ 3 13.3 125°.15 0°.1/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.23 | − 0 30.5 | 1.607 | 2.456 | 14.5 | 22.1 |
| 2 21 | 11 53.08 | + 0 17.2 | 1.547 | 2.470 | 10.4 | 21.9 |
| 3 2 | 11 44.76 | + 1 19.9 | 1.512 | 2.484 | 5.7 | 21.6 |
| 3 12 | 11 35.24 | + 2 30.8 | 1.503 | 2.497 | 0.7 | 21.3 |
| 3 22 | 11 25.65 | + 3 41.8 | 1.524 | 2.509 | 4.3 | 21.6 |
| 4 1 | 11 17.16 | + 4 45.0 | 1.571 | 2.521 | 9.0 | 21.9 |
| 4 11 | 11 10.68 | + 5 34.2 | 1.644 | 2.532 | 13.1 | 22.2 |
| 4 21 | 11 6.72 | + 6 6.2 | 1.737 | 2.542 | 16.4 | 22.4 |

**64304** 2001 $UR_{23}$ 3 13.3 25°.42 7°.5/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.12 | −19 42.5 | 1.729 | 2.497 | 17.1 | 18.5 |
| 2 21 | 11 49.61 | −19 50.3 | 1.649 | 2.499 | 14.3 | 18.3 |
| 3 2 | 11 42.98 | −19 28.3 | 1.589 | 2.500 | 11.3 | 18.1 |
| 3 12 | 11 35.04 | −18 36.4 | 1.553 | 2.502 | 8.6 | 17.9 |
| 3 22 | 11 26.84 | −17 18.3 | 1.541 | 2.504 | 7.5 | 17.9 |
| 4 1 | 11 19.49 | −15 41.6 | 1.556 | 2.506 | 9.0 | 18.0 |
| 4 11 | 11 13.97 | −13 57.2 | 1.596 | 2.508 | 11.9 | 18.1 |
| 4 21 | 11 10.84 | −12 15.2 | 1.658 | 2.510 | 15.0 | 18.3 |

**280140** 2002 $PV_{10}$ 3 13.3 158°.99 1°.1/11.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.26 | + 3 39.3 | 2.713 | 3.562 | 9.3 | 21.3 |
| 2 21 | 11 48.22 | + 4 43.4 | 2.643 | 3.569 | 6.5 | 21.2 |
| 3 2 | 11 41.92 | + 5 54.6 | 2.601 | 3.575 | 3.4 | 21.0 |
| 3 12 | 11 34.91 | + 7 8.0 | 2.589 | 3.581 | 1.1 | 20.8 |
| 3 22 | 11 27.81 | + 8 18.2 | 2.609 | 3.586 | 3.6 | 21.0 |
| 4 1 | 11 21.27 | + 9 20.4 | 2.658 | 3.591 | 6.6 | 21.2 |
| 4 11 | 11 15.85 | +10 11.0 | 2.734 | 3.596 | 9.4 | 21.4 |
| 4 21 | 11 11.94 | +10 48.1 | 2.834 | 3.600 | 11.7 | 21.6 |

**94915** 2001 $YL_{57}$ 3 13.3 125°.27 4°.9/ 9.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.52 | +12 33.3 | 1.530 | 2.404 | 13.7 | 19.9 |
| 2 21 | 11 54.12 | +13 38.2 | 1.477 | 2.412 | 9.8 | 19.7 |
| 3 2 | 11 45.37 | +14 44.2 | 1.449 | 2.420 | 6.1 | 19.5 |
| 3 12 | 11 35.33 | +15 41.8 | 1.448 | 2.427 | 5.1 | 19.5 |
| 3 22 | 11 25.23 | +16 22.9 | 1.473 | 2.435 | 7.9 | 19.6 |
| 4 1 | 11 16.36 | +16 42.3 | 1.524 | 2.442 | 11.8 | 19.9 |
| 4 11 | 11 9.68 | +16 38.9 | 1.598 | 2.448 | 15.4 | 20.1 |
| 4 21 | 11 5.71 | +16 14.3 | 1.690 | 2.454 | 18.4 | 20.3 |

**2353** Alva 3 13.3 211°.72 1°.2/12.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.10 | + 4 53.8 | 2.243 | 3.097 | 10.8 | 16.4 |
| 2 21 | 11 50.52 | + 5 28.7 | 2.165 | 3.093 | 7.6 | 16.2 |
| 3 2 | 11 43.29 | + 6 10.5 | 2.114 | 3.088 | 4.1 | 15.9 |
| 3 12 | 11 35.09 | + 6 54.2 | 2.091 | 3.083 | 1.2 | 15.7 |
| 3 22 | 11 26.71 | + 7 34.8 | 2.098 | 3.078 | 4.1 | 15.9 |
| 4 1 | 11 19.01 | + 8 7.6 | 2.134 | 3.072 | 7.7 | 16.1 |
| 4 11 | 11 12.70 | + 8 29.0 | 2.196 | 3.066 | 11.0 | 16.3 |
| 4 21 | 11 8.28 | + 8 37.5 | 2.279 | 3.060 | 13.8 | 16.5 |

**7786** 1994 $TB_{15}$ 3 13.3 115°.07 1°.2/14.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.13 | − 2 40.3 | 1.953 | 2.786 | 13.0 | 18.6 |
| 2 21 | 11 52.69 | − 2 19.4 | 1.892 | 2.805 | 9.5 | 18.5 |
| 3 2 | 11 44.44 | − 1 45.2 | 1.856 | 2.823 | 5.5 | 18.2 |
| 3 12 | 11 35.22 | − 1 1.7 | 1.849 | 2.840 | 1.6 | 18.0 |
| 3 22 | 11 25.97 | − 0 14.5 | 1.871 | 2.857 | 3.5 | 18.2 |
| 4 1 | 11 17.66 | + 0 30.6 | 1.921 | 2.874 | 7.4 | 18.4 |
| 4 11 | 11 11.05 | + 1 8.6 | 1.998 | 2.890 | 10.9 | 18.7 |
| 4 21 | 11 6.59 | + 1 35.9 | 2.098 | 2.905 | 13.9 | 18.9 |

**189794** 2002 $EN_{154}$ 3 13.3 191°.04 0°.1/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.78 | + 0 55.8 | 2.052 | 2.898 | 12.0 | 20.3 |
| 2 21 | 11 51.10 | + 1 18.6 | 1.976 | 2.897 | 8.6 | 20.1 |
| 3 2 | 11 43.65 | + 1 51.7 | 1.925 | 2.897 | 4.7 | 19.8 |
| 3 12 | 11 35.14 | + 2 30.7 | 1.902 | 2.896 | 0.6 | 19.5 |
| 3 22 | 11 26.45 | + 3 10.7 | 1.909 | 2.894 | 3.6 | 19.8 |
| 4 1 | 11 18.51 | + 3 46.2 | 1.944 | 2.893 | 7.6 | 20.0 |
| 4 11 | 11 12.11 | + 4 13.0 | 2.005 | 2.891 | 11.2 | 20.2 |
| 4 21 | 11 7.74 | + 4 28.3 | 2.088 | 2.889 | 14.2 | 20.4 |

**176780** 2002 $RE_{247}$ 3 13.3 157°.93 0°.8/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.39 | + 3 28.5 | 1.936 | 2.787 | 12.3 | 20.8 |
| 2 21 | 11 52.98 | + 3 57.6 | 1.868 | 2.793 | 8.7 | 20.6 |
| 3 2 | 11 44.66 | + 4 35.2 | 1.825 | 2.798 | 4.7 | 20.3 |
| 3 12 | 11 35.26 | + 5 16.2 | 1.810 | 2.803 | 0.9 | 20.1 |
| 3 22 | 11 25.72 | + 5 54.8 | 1.825 | 2.808 | 4.2 | 20.3 |
| 4 1 | 11 17.08 | + 6 25.9 | 1.868 | 2.811 | 8.3 | 20.6 |
| 4 11 | 11 10.14 | + 6 45.5 | 1.937 | 2.815 | 11.9 | 20.8 |
| 4 21 | 11 5.42 | + 6 51.9 | 2.028 | 2.817 | 14.9 | 21.0 |

**284774** 2008 $WC_{126}$ 3 13.3 250°.35 4°.8/18.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.76 | −13 43.0 | 2.324 | 3.106 | 12.9 | 21.3 |
| 2 21 | 11 49.65 | −13 53.5 | 2.231 | 3.098 | 10.4 | 21.2 |
| 3 2 | 11 42.87 | −13 45.6 | 2.161 | 3.091 | 7.6 | 21.0 |
| 3 12 | 11 35.05 | −13 19.8 | 2.118 | 3.083 | 5.3 | 20.8 |
| 3 22 | 11 26.97 | −12 38.9 | 2.103 | 3.075 | 4.9 | 20.8 |
| 4 1 | 11 19.45 | −11 47.5 | 2.116 | 3.067 | 6.9 | 20.9 |
| 4 11 | 11 13.26 | −10 51.6 | 2.156 | 3.059 | 9.7 | 21.0 |
| 4 21 | 11 8.92 | − 9 57.1 | 2.219 | 3.050 | 12.5 | 21.2 |

**105807** 2000 $SY_{135}$ 3 13.3 246°.70 5°.1/20.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.00 | −18 21.2 | 2.801 | 3.547 | 11.8 | 20.5 |
| 2 21 | 11 48.22 | −18 16.7 | 2.693 | 3.531 | 9.8 | 20.3 |
| 3 2 | 11 42.03 | −17 53.3 | 2.609 | 3.515 | 7.6 | 20.2 |
| 3 12 | 11 34.95 | −17 11.1 | 2.551 | 3.498 | 5.7 | 20.0 |
| 3 22 | 11 27.62 | −16 12.6 | 2.521 | 3.481 | 5.1 | 19.9 |
| 4 1 | 11 20.72 | −15 1.9 | 2.520 | 3.464 | 6.4 | 20.0 |
| 4 11 | 11 14.91 | −13 44.9 | 2.547 | 3.446 | 8.6 | 20.1 |
| 4 21 | 11 10.64 | −12 27.5 | 2.599 | 3.428 | 10.9 | 20.2 |

**469123** 2015 $DT_{211}$ 3 13.3 9°.28 1°.0/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.70 | + 2 29.1 | 2.129 | 2.986 | 11.1 | 20.4 |
| 2 21 | 11 47.44 | + 3 32.9 | 2.058 | 2.987 | 7.8 | 20.2 |
| 3 2 | 11 41.62 | + 4 47.0 | 2.012 | 2.987 | 4.1 | 20.0 |
| 3 12 | 11 34.90 | + 6 5.3 | 1.995 | 2.988 | 1.0 | 19.7 |
| 3 22 | 11 28.04 | + 7 21.2 | 2.008 | 2.989 | 4.1 | 20.0 |
| 4 1 | 11 21.85 | + 8 28.2 | 2.048 | 2.990 | 7.8 | 20.2 |
| 4 11 | 11 17.02 | + 9 21.5 | 2.115 | 2.991 | 11.1 | 20.4 |
| 4 21 | 11 14.00 | + 9 58.5 | 2.203 | 2.992 | 13.9 | 20.6 |

**498995** 2009 $BF_{177}$ 3 13.3 24°.73 4°.4/16.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.40 | − 6 8.9 | 1.657 | 2.480 | 15.5 | 19.9 |
| 2 21 | 11 56.11 | − 7 19.3 | 1.592 | 2.491 | 11.9 | 19.7 |
| 3 2 | 11 46.49 | − 8 15.0 | 1.550 | 2.502 | 8.0 | 19.5 |
| 3 12 | 11 35.49 | − 8 55.2 | 1.535 | 2.515 | 4.8 | 19.3 |
| 3 22 | 11 24.32 | − 9 21.1 | 1.548 | 2.528 | 5.3 | 19.4 |
| 4 1 | 11 14.24 | − 9 35.8 | 1.589 | 2.542 | 8.6 | 19.6 |
| 4 11 | 11 6.26 | − 9 44.4 | 1.656 | 2.557 | 12.2 | 19.9 |
| 4 21 | 11 0.97 | − 9 51.8 | 1.743 | 2.572 | 15.4 | 20.1 |

**404360** 2013 $GL_{20}$ 3 13.3 343°.30 0°.3/13.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.46 | − 1 46.7 | 1.369 | 2.230 | 15.8 | 21.0 |
| 2 21 | 11 50.13 | − 0 52.3 | 1.299 | 2.228 | 11.5 | 20.7 |
| 3 2 | 11 43.37 | + 0 22.7 | 1.252 | 2.226 | 6.4 | 20.4 |
| 3 12 | 11 35.13 | + 1 50.9 | 1.230 | 2.224 | 0.9 | 20.0 |
| 3 22 | 11 26.60 | + 3 22.1 | 1.235 | 2.222 | 4.7 | 20.3 |
| 4 1 | 11 19.12 | + 4 45.6 | 1.265 | 2.221 | 10.0 | 20.6 |
| 4 11 | 11 13.76 | + 5 52.6 | 1.318 | 2.220 | 14.7 | 20.9 |
| 4 21 | 11 11.12 | + 6 38.4 | 1.391 | 2.219 | 18.7 | 21.1 |

**496552** 2014 $WM_{385}$ 3 13.3 161°.40 4°.1/17.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.26 | −12 32.9 | 1.836 | 2.639 | 15.0 | 21.1 |
| 2 21 | 11 49.53 | −11 58.1 | 1.756 | 2.641 | 11.7 | 20.8 |
| 3 2 | 11 42.87 | −10 58.5 | 1.698 | 2.643 | 8.1 | 20.6 |
| 3 12 | 11 35.06 | − 9 37.0 | 1.667 | 2.644 | 4.9 | 20.4 |
| 3 22 | 11 27.04 | − 8 0.0 | 1.663 | 2.646 | 4.5 | 20.4 |
| 4 1 | 11 19.83 | − 6 16.4 | 1.688 | 2.647 | 7.6 | 20.6 |
| 4 11 | 11 14.29 | − 4 35.8 | 1.739 | 2.648 | 11.3 | 20.8 |
| 4 21 | 11 10.93 | − 3 6.0 | 1.813 | 2.649 | 14.6 | 21.0 |

**273667** 2007 $DV_{106}$ 3 13.3 258°.46 0°.3/13.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.75 | − 0 49.1 | 1.861 | 2.710 | 12.9 | 21.5 |
| 2 21 | 11 49.85 | − 0 9.0 | 1.782 | 2.705 | 9.3 | 21.2 |
| 3 2 | 11 43.05 | + 0 45.3 | 1.728 | 2.699 | 5.2 | 21.0 |
| 3 12 | 11 35.08 | + 1 48.6 | 1.701 | 2.694 | 0.8 | 20.6 |
| 3 22 | 11 26.88 | + 2 54.3 | 1.702 | 2.688 | 3.8 | 20.9 |
| 4 1 | 11 19.43 | + 3 55.2 | 1.731 | 2.682 | 8.1 | 21.1 |
| 4 11 | 11 13.60 | + 4 45.4 | 1.785 | 2.677 | 12.0 | 21.3 |
| 4 21 | 11 9.92 | + 5 21.0 | 1.861 | 2.671 | 15.3 | 21.5 |

**422535** 2014 $TT_{20}$ 3 13.3 179°.99 1°.0/12.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.88 | + 2 54.4 | 2.028 | 2.878 | 11.9 | 22.2 |
| 2 21 | 11 51.89 | + 3 43.8 | 1.954 | 2.880 | 8.4 | 21.9 |
| 3 2 | 11 44.09 | + 4 43.0 | 1.907 | 2.881 | 4.5 | 21.7 |
| 3 12 | 11 35.21 | + 5 46.3 | 1.888 | 2.881 | 1.0 | 21.4 |
| 3 22 | 11 26.16 | + 6 47.1 | 1.899 | 2.881 | 4.2 | 21.7 |
| 4 1 | 11 17.90 | + 7 39.4 | 1.939 | 2.880 | 8.2 | 21.9 |
| 4 11 | 11 11.23 | + 8 18.5 | 2.005 | 2.878 | 11.8 | 22.1 |
| 4 21 | 11 6.65 | + 8 42.3 | 2.093 | 2.875 | 14.8 | 22.3 |

**132723** 2002 $PU_{4}$ 3 13.3 147°.98 1°.2/14.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.26 | − 4 21.0 | 2.338 | 3.166 | 11.3 | 20.5 |
| 2 21 | 11 48.42 | − 3 35.8 | 2.262 | 3.172 | 8.3 | 20.4 |
| 3 2 | 11 42.12 | − 2 36.6 | 2.213 | 3.177 | 4.9 | 20.1 |
| 3 12 | 11 34.98 | − 1 27.7 | 2.191 | 3.182 | 1.6 | 19.9 |
| 3 22 | 11 27.72 | − 0 14.5 | 2.200 | 3.187 | 3.0 | 20.0 |
| 4 1 | 11 21.11 | + 0 56.9 | 2.239 | 3.192 | 6.4 | 20.3 |
| 4 11 | 11 15.77 | + 2 0.9 | 2.304 | 3.196 | 9.7 | 20.5 |
| 4 21 | 11 12.15 | + 2 53.7 | 2.393 | 3.200 | 12.4 | 20.7 |

**82620** 2001 $OB_{102}$ 3 13.3 189°.45 1°.7/11.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.57 | + 4 31.4 | 2.181 | 3.036 | 11.0 | 20.0 |
| 2 21 | 11 50.18 | + 5 40.0 | 2.106 | 3.035 | 7.7 | 19.8 |
| 3 2 | 11 43.13 | + 6 57.3 | 2.059 | 3.034 | 4.1 | 19.5 |
| 3 12 | 11 35.10 | + 8 17.0 | 2.041 | 3.031 | 1.7 | 19.4 |
| 3 22 | 11 26.91 | + 9 32.1 | 2.052 | 3.029 | 4.6 | 19.6 |
| 4 1 | 11 19.39 | +10 36.6 | 2.093 | 3.025 | 8.2 | 19.8 |
| 4 11 | 11 13.30 | +11 25.9 | 2.160 | 3.022 | 11.5 | 20.0 |
| 4 21 | 11 9.12 | +11 58.2 | 2.248 | 3.017 | 14.3 | 20.2 |

**385016** 2012 $TU_{266}$ 3 13.3 85°.74 0°.6/14.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.07 | − 2 26.2 | 2.207 | 3.048 | 11.5 | 21.1 |
| 2 21 | 11 47.66 | − 1 34.2 | 2.133 | 3.050 | 8.3 | 20.9 |
| 3 2 | 11 41.74 | − 0 28.8 | 2.083 | 3.053 | 4.7 | 20.7 |
| 3 12 | 11 34.94 | + 0 45.3 | 2.063 | 3.055 | 1.0 | 20.4 |
| 3 22 | 11 28.01 | + 2 2.0 | 2.071 | 3.058 | 3.2 | 20.6 |
| 4 1 | 11 21.73 | + 3 14.8 | 2.109 | 3.060 | 6.9 | 20.9 |
| 4 11 | 11 16.77 | + 4 18.0 | 2.173 | 3.063 | 10.2 | 21.1 |
| 4 21 | 11 13.57 | + 5 8.1 | 2.260 | 3.066 | 13.1 | 21.3 |

**467228** 2016 $EO_{164}$ 3 13.3 129°.17 0°.8/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.02 | − 4 34.4 | 2.029 | 2.861 | 12.7 | 21.3 |
| 2 21 | 11 49.79 | − 3 18.5 | 1.962 | 2.875 | 9.2 | 21.1 |
| 3 2 | 11 42.90 | − 1 45.5 | 1.921 | 2.888 | 5.3 | 20.9 |
| 3 12 | 11 35.08 | − 0 1.8 | 1.909 | 2.901 | 1.3 | 20.6 |
| 3 22 | 11 27.18 | + 1 44.6 | 1.927 | 2.913 | 3.4 | 20.8 |
| 4 1 | 11 20.09 | + 3 25.4 | 1.974 | 2.925 | 7.3 | 21.0 |
| 4 11 | 11 14.52 | + 4 53.5 | 2.049 | 2.936 | 10.9 | 21.3 |
| 4 21 | 11 10.91 | + 6 4.7 | 2.147 | 2.947 | 13.9 | 21.5 |

**303364** 2004 $VM_{5}$ 3 13.3 161°.01 2°.0/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.36 | + 6 33.3 | 1.875 | 2.731 | 12.5 | 21.6 |
| 2 21 | 11 54.43 | + 7 11.9 | 1.810 | 2.738 | 8.8 | 21.4 |
| 3 2 | 11 45.48 | + 7 56.6 | 1.770 | 2.744 | 4.7 | 21.1 |
| 3 12 | 11 35.40 | + 8 41.2 | 1.759 | 2.750 | 2.0 | 21.0 |
| 3 22 | 11 25.20 | + 9 19.5 | 1.778 | 2.755 | 5.1 | 21.2 |
| 4 1 | 11 15.98 | + 9 46.4 | 1.824 | 2.759 | 9.1 | 21.4 |
| 4 11 | 11 8.59 | + 9 58.8 | 1.896 | 2.762 | 12.7 | 21.6 |
| 4 21 | 11 3.54 | + 9 56.0 | 1.989 | 2.764 | 15.7 | 21.9 |

**147286** 2003 $AF_{28}$ 3 13.3 76°.39 2°.1/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.70 | − 5 3.6 | 1.662 | 2.498 | 14.8 | 19.9 |
| 2 21 | 11 51.89 | − 4 41.0 | 1.608 | 2.520 | 10.9 | 19.7 |
| 3 2 | 11 44.09 | − 4 0.7 | 1.578 | 2.542 | 6.6 | 19.5 |
| 3 12 | 11 35.22 | − 3 7.4 | 1.574 | 2.563 | 2.6 | 19.3 |
| 3 22 | 11 26.37 | − 2 7.6 | 1.598 | 2.585 | 3.8 | 19.4 |
| 4 1 | 11 18.59 | − 1 8.8 | 1.649 | 2.606 | 7.9 | 19.7 |
| 4 11 | 11 12.72 | − 0 17.8 | 1.726 | 2.627 | 11.8 | 20.0 |
| 4 21 | 11 9.20 | + 0 21.1 | 1.824 | 2.648 | 15.0 | 20.3 |

**256089** 2006 $UD_{214}$ 3 13.3 75°.18 1°.8/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.63 | − 4 5.2 | 1.622 | 2.462 | 14.9 | 20.6 |
| 2 21 | 11 51.91 | − 3 43.6 | 1.566 | 2.481 | 10.9 | 20.4 |
| 3 2 | 11 44.13 | − 3 4.7 | 1.533 | 2.499 | 6.5 | 20.2 |
| 3 12 | 11 35.23 | − 2 13.4 | 1.527 | 2.518 | 2.3 | 20.0 |
| 3 22 | 11 26.31 | − 1 16.4 | 1.549 | 2.536 | 3.9 | 20.1 |
| 4 1 | 11 18.48 | − 0 21.0 | 1.597 | 2.554 | 8.2 | 20.4 |
| 4 11 | 11 12.58 | + 0 26.0 | 1.671 | 2.572 | 12.1 | 20.7 |
| 4 21 | 11 9.09 | + 1 0.5 | 1.766 | 2.590 | 15.4 | 21.0 |

**98582** 2000 $WX_{41}$ 3 13.3 60°.03 1°.8/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.29 | + 4 30.6 | 1.361 | 2.233 | 15.3 | 19.0 |
| 2 21 | 11 52.64 | + 5 16.6 | 1.313 | 2.249 | 10.7 | 18.7 |
| 3 2 | 11 44.60 | + 6 12.9 | 1.288 | 2.265 | 5.7 | 18.5 |
| 3 12 | 11 35.29 | + 7 11.2 | 1.289 | 2.281 | 1.8 | 18.3 |
| 3 22 | 11 26.00 | + 8 2.7 | 1.316 | 2.297 | 5.7 | 18.6 |
| 4 1 | 11 18.02 | + 8 40.4 | 1.369 | 2.314 | 10.4 | 18.9 |
| 4 11 | 11 12.30 | + 9 0.2 | 1.444 | 2.331 | 14.6 | 19.2 |
| 4 21 | 11 9.31 | + 9 1.0 | 1.539 | 2.348 | 18.0 | 19.4 |

**463990** 2014 $WZ_{50}$ 3 13.3 110°.62 2°.2/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.51 | − 6 3.7 | 1.869 | 2.696 | 13.8 | 21.5 |
| 2 21 | 11 50.99 | − 5 39.0 | 1.802 | 2.708 | 10.3 | 21.3 |
| 3 2 | 11 43.61 | − 4 56.9 | 1.759 | 2.720 | 6.4 | 21.1 |
| 3 12 | 11 35.18 | − 4 1.3 | 1.743 | 2.732 | 2.7 | 20.9 |
| 3 22 | 11 26.66 | − 2 58.2 | 1.756 | 2.743 | 3.6 | 21.0 |
| 4 1 | 11 19.01 | − 1 54.5 | 1.797 | 2.754 | 7.4 | 21.2 |
| 4 11 | 11 13.04 | − 0 56.9 | 1.864 | 2.765 | 11.1 | 21.5 |
| 4 21 | 11 9.24 | − 0 10.3 | 1.954 | 2.775 | 14.3 | 21.7 |

**292675** 2006 $UB_{81}$ 3 13.3 146°.01 0°.8/14.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.32 | − 1 40.4 | 2.714 | 3.544 | 9.9 | 22.0 |
| 2 21 | 11 49.00 | − 1 21.2 | 2.639 | 3.551 | 7.2 | 21.8 |
| 3 2 | 11 42.38 | − 0 52.8 | 2.591 | 3.558 | 4.1 | 21.6 |
| 3 12 | 11 35.04 | − 0 18.1 | 2.572 | 3.564 | 1.1 | 21.4 |
| 3 22 | 11 27.60 | + 0 19.2 | 2.584 | 3.570 | 2.7 | 21.5 |
| 4 1 | 11 20.73 | + 0 55.2 | 2.625 | 3.576 | 5.8 | 21.7 |
| 4 11 | 11 15.01 | + 1 26.1 | 2.694 | 3.581 | 8.6 | 21.9 |
| 4 21 | 11 10.80 | + 1 49.3 | 2.787 | 3.586 | 11.1 | 22.1 |

**410325** 2007 $UX_{9}$ 3 13.3 152°.23 3°.2/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.24 | + 9 32.7 | 2.036 | 2.897 | 11.4 | 22.7 |
| 2 21 | 11 52.79 | +10 38.6 | 1.977 | 2.908 | 8.0 | 22.5 |
| 3 2 | 11 44.54 | +11 48.1 | 1.945 | 2.918 | 4.6 | 22.3 |
| 3 12 | 11 35.30 | +12 53.9 | 1.942 | 2.927 | 3.3 | 22.2 |
| 3 22 | 11 25.99 | +13 49.4 | 1.969 | 2.935 | 5.9 | 22.4 |
| 4 1 | 11 17.58 | +14 29.7 | 2.024 | 2.942 | 9.3 | 22.6 |
| 4 11 | 11 10.83 | +14 52.0 | 2.104 | 2.949 | 12.4 | 22.8 |
| 4 21 | 11 6.19 | +14 56.4 | 2.205 | 2.955 | 15.1 | 23.0 |

**459104** 2012 $BO_{105}$ 3 13.3 359°.30 11°.4/ 2.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.25 | +24 4.4 | 1.178 | 2.072 | 15.4 | 20.5 |
| 2 21 | 11 49.65 | +26 18.7 | 1.139 | 2.069 | 12.6 | 20.3 |
| 3 2 | 11 43.22 | +28 20.2 | 1.123 | 2.067 | 11.4 | 20.2 |
| 3 12 | 11 35.16 | +29 52.9 | 1.129 | 2.066 | 12.4 | 20.3 |
| 3 22 | 11 26.97 | +30 45.9 | 1.156 | 2.066 | 15.1 | 20.4 |
| 4 1 | 11 20.18 | +30 55.3 | 1.203 | 2.067 | 18.3 | 20.6 |
| 4 11 | 11 15.94 | +30 24.0 | 1.266 | 2.070 | 21.3 | 20.8 |
| 4 21 | 11 14.76 | +29 18.9 | 1.343 | 2.074 | 23.9 | 21.0 |

**235992** 2005 $FC_{10}$ 3 13.3 313°.12 0°.4/13.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.83 | − 0 45.3 | 2.050 | 2.896 | 12.0 | 20.6 |
| 2 21 | 11 49.05 | − 0 13.4 | 1.972 | 2.893 | 8.6 | 20.4 |
| 3 2 | 11 42.58 | + 0 30.7 | 1.920 | 2.891 | 4.8 | 20.1 |
| 3 12 | 11 35.09 | + 1 22.7 | 1.895 | 2.888 | 0.8 | 19.8 |
| 3 22 | 11 27.41 | + 2 17.0 | 1.899 | 2.885 | 3.4 | 20.0 |
| 4 1 | 11 20.43 | + 3 7.6 | 1.931 | 2.883 | 7.4 | 20.3 |
| 4 11 | 11 14.90 | + 3 49.4 | 1.989 | 2.880 | 11.0 | 20.5 |
| 4 21 | 11 11.32 | + 4 19.0 | 2.069 | 2.878 | 14.0 | 20.7 |

**242628** 2005 $LS_{15}$ 3 13.3 225°.72 2°.6/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.03 | + 9 23.1 | 2.605 | 3.467 | 9.2 | 20.7 |
| 2 21 | 11 48.22 | +10 25.2 | 2.528 | 3.459 | 6.4 | 20.5 |
| 3 2 | 11 42.03 | +11 31.1 | 2.479 | 3.452 | 3.7 | 20.3 |
| 3 12 | 11 35.02 | +12 35.4 | 2.459 | 3.443 | 2.7 | 20.2 |
| 3 22 | 11 27.86 | +13 32.7 | 2.470 | 3.435 | 4.9 | 20.4 |
| 4 1 | 11 21.23 | +14 18.6 | 2.509 | 3.426 | 7.7 | 20.5 |
| 4 11 | 11 15.76 | +14 50.2 | 2.574 | 3.417 | 10.5 | 20.7 |
| 4 21 | 11 11.86 | +15 6.5 | 2.660 | 3.408 | 12.8 | 20.8 |

**508277** 2015 $HZ_{184}$ 3 13.3 211°.15 3°.0/17.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.01 | −10 17.3 | 2.488 | 3.289 | 11.6 | 21.7 |
| 2 21 | 11 47.55 | − 9 52.2 | 2.401 | 3.288 | 9.0 | 21.5 |
| 3 2 | 11 41.68 | − 9 10.4 | 2.339 | 3.286 | 6.1 | 21.3 |
| 3 12 | 11 34.98 | − 8 14.3 | 2.305 | 3.284 | 3.5 | 21.1 |
| 3 22 | 11 28.12 | − 7 8.1 | 2.300 | 3.282 | 3.4 | 21.1 |
| 4 1 | 11 21.81 | − 5 57.2 | 2.324 | 3.280 | 6.0 | 21.3 |
| 4 11 | 11 16.68 | − 4 47.7 | 2.375 | 3.278 | 8.9 | 21.5 |
| 4 21 | 11 13.18 | − 3 44.5 | 2.451 | 3.276 | 11.6 | 21.6 |

**92325** 2000 $GY_{50}$ 3 13.3 289°.38 1°.9/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.18 | + 4 43.6 | 1.354 | 2.226 | 15.3 | 19.5 |
| 2 21 | 11 52.99 | + 5 24.9 | 1.277 | 2.213 | 10.9 | 19.2 |
| 3 2 | 11 45.08 | + 6 18.6 | 1.223 | 2.200 | 5.9 | 18.9 |
| 3 12 | 11 35.41 | + 7 16.8 | 1.194 | 2.186 | 1.9 | 18.6 |
| 3 22 | 11 25.29 | + 8 10.4 | 1.191 | 2.173 | 6.1 | 18.8 |
| 4 1 | 11 16.18 | + 8 50.9 | 1.214 | 2.160 | 11.4 | 19.1 |
| 4 11 | 11 9.34 | + 9 12.5 | 1.258 | 2.147 | 16.2 | 19.3 |
| 4 21 | 11 5.49 | + 9 13.2 | 1.320 | 2.134 | 20.2 | 19.6 |

**337899** 2001 $XE_{69}$ 3 13.3 70°.23 6°.9/ 5.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.44 | +23 29.4 | 2.159 | 3.023 | 10.7 | 19.9 |
| 2 21 | 11 51.41 | +24 33.9 | 2.124 | 3.040 | 8.4 | 19.8 |
| 3 2 | 11 43.72 | +25 29.1 | 2.115 | 3.056 | 7.0 | 19.8 |
| 3 12 | 11 35.21 | +26 8.3 | 2.133 | 3.073 | 7.2 | 19.8 |
| 3 22 | 11 26.78 | +26 26.8 | 2.178 | 3.089 | 8.9 | 19.9 |
| 4 1 | 11 19.31 | +26 23.1 | 2.248 | 3.106 | 11.1 | 20.1 |
| 4 11 | 11 13.50 | +25 58.1 | 2.340 | 3.123 | 13.3 | 20.3 |
| 4 21 | 11 9.72 | +25 14.8 | 2.451 | 3.139 | 15.2 | 20.5 |

**203642** 2002 $GR_{83}$ 3 13.3 54°.26 1°.3/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.07 | + 1 33.2 | 1.355 | 2.225 | 15.4 | 19.9 |
| 2 21 | 11 50.46 | + 2 46.3 | 1.299 | 2.234 | 10.9 | 19.7 |
| 3 2 | 11 43.50 | + 4 15.5 | 1.267 | 2.243 | 5.8 | 19.4 |
| 3 12 | 11 35.20 | + 5 51.0 | 1.260 | 2.253 | 1.3 | 19.1 |
| 3 22 | 11 26.80 | + 7 21.9 | 1.280 | 2.263 | 5.5 | 19.5 |
| 4 1 | 11 19.57 | + 8 38.2 | 1.325 | 2.273 | 10.5 | 19.8 |
| 4 11 | 11 14.48 | + 9 33.3 | 1.393 | 2.283 | 14.8 | 20.0 |
| 4 21 | 11 12.05 | +10 4.9 | 1.480 | 2.294 | 18.4 | 20.3 |

**343233** 2009 $WV_{123}$ 3 13.3 277°.08 1°.0/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.20 | + 1 58.2 | 1.269 | 2.139 | 16.3 | 20.5 |
| 2 21 | 11 53.06 | + 2 42.5 | 1.198 | 2.132 | 11.7 | 20.2 |
| 3 2 | 11 45.13 | + 3 43.3 | 1.150 | 2.126 | 6.3 | 19.9 |
| 3 12 | 11 35.43 | + 4 52.8 | 1.126 | 2.119 | 1.0 | 19.5 |
| 3 22 | 11 25.34 | + 6 0.9 | 1.128 | 2.113 | 5.7 | 19.8 |
| 4 1 | 11 16.40 | + 6 57.7 | 1.155 | 2.106 | 11.2 | 20.1 |
| 4 11 | 11 9.86 | + 7 36.0 | 1.204 | 2.100 | 16.2 | 20.4 |
| 4 21 | 11 6.40 | + 7 52.8 | 1.271 | 2.094 | 20.4 | 20.6 |

**3165** Mikawa 3 13.3 211°.68 2°.4/11.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.35 | + 6 15.1 | 1.762 | 2.623 | 12.9 | 16.9 |
| 2 21 | 11 53.27 | + 7 13.9 | 1.686 | 2.617 | 9.1 | 16.6 |
| 3 2 | 11 45.01 | + 8 21.3 | 1.635 | 2.610 | 5.0 | 16.4 |
| 3 12 | 11 35.40 | + 9 30.1 | 1.612 | 2.602 | 2.4 | 16.2 |
| 3 22 | 11 25.52 | +10 32.1 | 1.618 | 2.594 | 5.7 | 16.4 |
| 4 1 | 11 16.50 | +11 20.5 | 1.652 | 2.585 | 10.0 | 16.6 |
| 4 11 | 11 9.32 | +11 50.8 | 1.710 | 2.575 | 13.8 | 16.8 |
| 4 21 | 11 4.58 | +12 1.9 | 1.788 | 2.564 | 17.1 | 17.0 |

**22582** Patmiller 3 13.3 239°.47 2°.2/11.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.10 | + 6 17.9 | 1.861 | 2.722 | 12.3 | 19.8 |
| 2 21 | 11 52.34 | + 7 10.4 | 1.779 | 2.709 | 8.7 | 19.5 |
| 3 2 | 11 44.50 | + 8 11.2 | 1.721 | 2.696 | 4.8 | 19.2 |
| 3 12 | 11 35.35 | + 9 13.6 | 1.692 | 2.682 | 2.3 | 19.0 |
| 3 22 | 11 25.86 | +10 10.4 | 1.691 | 2.667 | 5.4 | 19.2 |
| 4 1 | 11 17.14 | +10 54.9 | 1.719 | 2.652 | 9.6 | 19.4 |
| 4 11 | 11 10.11 | +11 22.9 | 1.771 | 2.637 | 13.4 | 19.6 |
| 4 21 | 11 5.39 | +11 32.7 | 1.843 | 2.621 | 16.6 | 19.8 |

**377412** 2004 $TP_{104}$ 3 13.3 189°.95 3°.8/ 9.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.08 | +12 36.2 | 2.096 | 2.961 | 10.9 | 20.9 |
| 2 21 | 11 52.01 | +13 23.4 | 2.030 | 2.960 | 7.8 | 20.7 |
| 3 2 | 11 44.16 | +14 11.4 | 1.990 | 2.959 | 4.8 | 20.6 |
| 3 12 | 11 35.29 | +14 53.6 | 1.978 | 2.958 | 3.9 | 20.5 |
| 3 22 | 11 26.30 | +15 24.5 | 1.996 | 2.957 | 6.2 | 20.6 |
| 4 1 | 11 18.12 | +15 40.2 | 2.041 | 2.955 | 9.4 | 20.8 |
| 4 11 | 11 11.53 | +15 38.9 | 2.110 | 2.953 | 12.5 | 21.0 |
| 4 21 | 11 7.01 | +15 21.1 | 2.200 | 2.950 | 15.1 | 21.2 |

**508004** 2015 $BP_{260}$ 3 13.3 108°.41 0°.4/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.43 | − 1 20.5 | 1.966 | 2.812 | 12.4 | 21.4 |
| 2 21 | 11 49.48 | − 0 37.0 | 1.897 | 2.817 | 9.0 | 21.1 |
| 3 2 | 11 42.81 | + 0 19.9 | 1.852 | 2.823 | 5.0 | 20.9 |
| 3 12 | 11 35.14 | + 1 25.1 | 1.835 | 2.828 | 0.9 | 20.6 |
| 3 22 | 11 27.34 | + 2 32.2 | 1.847 | 2.834 | 3.5 | 20.8 |
| 4 1 | 11 20.31 | + 3 34.5 | 1.888 | 2.839 | 7.6 | 21.1 |
| 4 11 | 11 14.83 | + 4 26.3 | 1.954 | 2.844 | 11.2 | 21.3 |
| 4 21 | 11 11.35 | + 5 4.3 | 2.042 | 2.849 | 14.2 | 21.5 |

**346320** 2008 $QO_{39}$ 3 13.3 265°.13 1°.6/15.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.56 | − 6 3.3 | 1.960 | 2.791 | 13.0 | 20.7 |
| 2 21 | 11 48.25 | − 5 7.1 | 1.877 | 2.787 | 9.7 | 20.4 |
| 3 2 | 11 42.19 | − 3 51.6 | 1.819 | 2.783 | 5.9 | 20.2 |
| 3 12 | 11 35.07 | − 2 21.7 | 1.788 | 2.778 | 2.1 | 19.9 |
| 3 22 | 11 27.73 | − 0 44.5 | 1.786 | 2.774 | 3.4 | 20.0 |
| 4 1 | 11 21.08 | + 0 51.5 | 1.813 | 2.769 | 7.4 | 20.2 |
| 4 11 | 11 15.92 | + 2 18.5 | 1.866 | 2.765 | 11.2 | 20.5 |
| 4 21 | 11 12.76 | + 3 30.9 | 1.942 | 2.760 | 14.5 | 20.7 |

**264556** 2001 $SG_{268}$ 3 13.3 114°.38 1°.3/12.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.63 | + 4 3.6 | 2.102 | 2.954 | 11.5 | 21.7 |
| 2 21 | 11 51.54 | + 4 53.0 | 2.047 | 2.974 | 8.0 | 21.5 |
| 3 2 | 11 43.82 | + 5 49.9 | 2.019 | 2.993 | 4.2 | 21.3 |
| 3 12 | 11 35.25 | + 6 48.4 | 2.020 | 3.012 | 1.3 | 21.1 |
| 3 22 | 11 26.69 | + 7 42.5 | 2.051 | 3.030 | 4.2 | 21.3 |
| 4 1 | 11 18.99 | + 8 27.1 | 2.110 | 3.048 | 7.8 | 21.6 |
| 4 11 | 11 12.86 | + 8 58.7 | 2.196 | 3.065 | 11.0 | 21.8 |
| 4 21 | 11 8.69 | + 9 15.8 | 2.303 | 3.082 | 13.7 | 22.0 |

**217080** 2001 $TG_{79}$ 3 13.3 146°.22 5°.4/ 6.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.23 | +19 49.1 | 2.455 | 3.313 | 9.8 | 20.7 |
| 2 21 | 11 52.55 | +20 57.4 | 2.408 | 3.327 | 7.4 | 20.6 |
| 3 2 | 11 44.34 | +22 0.4 | 2.388 | 3.339 | 5.7 | 20.5 |
| 3 12 | 11 35.32 | +22 51.6 | 2.398 | 3.351 | 5.7 | 20.5 |
| 3 22 | 11 26.29 | +23 26.2 | 2.437 | 3.362 | 7.4 | 20.6 |
| 4 1 | 11 18.09 | +23 41.6 | 2.503 | 3.372 | 9.8 | 20.8 |
| 4 11 | 11 11.36 | +23 37.7 | 2.594 | 3.381 | 12.0 | 20.9 |
| 4 21 | 11 6.53 | +23 16.3 | 2.704 | 3.390 | 13.9 | 21.1 |

**235551** 2004 $EW_{18}$ 3 13.3 295°.99 6°.2/ 6.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.19 | +19 53.0 | 2.102 | 2.970 | 10.8 | 19.7 |
| 2 21 | 11 51.62 | +20 54.3 | 2.020 | 2.944 | 8.3 | 19.4 |
| 3 2 | 11 44.09 | +21 51.9 | 1.963 | 2.917 | 6.4 | 19.3 |
| 3 12 | 11 35.31 | +22 37.8 | 1.935 | 2.891 | 6.5 | 19.2 |
| 3 22 | 11 26.21 | +23 5.9 | 1.933 | 2.864 | 8.6 | 19.3 |
| 4 1 | 11 17.79 | +23 12.0 | 1.957 | 2.838 | 11.5 | 19.4 |
| 4 11 | 11 10.96 | +22 55.1 | 2.004 | 2.811 | 14.4 | 19.6 |
| 4 21 | 11 6.28 | +22 17.1 | 2.070 | 2.785 | 16.9 | 19.7 |

**210973** 2001 $VZ_{59}$ 3 13.3 72°.17 4°.1/ 9.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.00 | +14 46.9 | 2.180 | 3.045 | 10.6 | 20.1 |
| 2 21 | 11 51.77 | +15 22.5 | 2.130 | 3.059 | 7.6 | 19.9 |
| 3 2 | 11 43.94 | +15 56.0 | 2.106 | 3.073 | 4.9 | 19.8 |
| 3 12 | 11 35.28 | +16 21.6 | 2.111 | 3.087 | 4.2 | 19.7 |
| 3 22 | 11 26.65 | +16 35.2 | 2.145 | 3.101 | 6.2 | 19.9 |
| 4 1 | 11 18.92 | +16 33.9 | 2.207 | 3.116 | 9.1 | 20.1 |
| 4 11 | 11 12.75 | +16 17.2 | 2.293 | 3.130 | 11.8 | 20.3 |
| 4 21 | 11 8.56 | +15 46.1 | 2.400 | 3.144 | 14.1 | 20.5 |

**264995** 2003 $DB_{21}$ 3 13.3 319°.89 0°.1/13.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.05 | + 2 17.4 | 1.572 | 2.430 | 14.3 | 20.2 |
| 2 21 | 11 53.29 | + 2 15.1 | 1.492 | 2.420 | 10.3 | 19.9 |
| 3 2 | 11 45.13 | + 2 23.0 | 1.436 | 2.410 | 5.7 | 19.7 |
| 3 12 | 11 35.45 | + 2 36.9 | 1.407 | 2.400 | 0.7 | 19.3 |
| 3 22 | 11 25.42 | + 2 51.8 | 1.404 | 2.391 | 4.4 | 19.5 |
| 4 1 | 11 16.30 | + 3 2.1 | 1.429 | 2.382 | 9.3 | 19.8 |
| 4 11 | 11 9.19 | + 3 3.5 | 1.477 | 2.374 | 13.7 | 20.0 |
| 4 21 | 11 4.75 | + 2 53.4 | 1.546 | 2.366 | 17.5 | 20.2 |

**125014** 2001 $TA_{173}$ 3 13.3 213°.86 0°.6/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.77 | − 1 50.0 | 2.087 | 2.926 | 12.1 | 20.6 |
| 2 21 | 11 50.46 | − 1 11.0 | 2.003 | 2.920 | 8.8 | 20.3 |
| 3 2 | 11 43.39 | − 0 18.4 | 1.945 | 2.914 | 5.0 | 20.1 |
| 3 12 | 11 35.23 | + 0 43.4 | 1.915 | 2.907 | 1.0 | 19.8 |
| 3 22 | 11 26.84 | + 1 48.6 | 1.914 | 2.900 | 3.4 | 20.0 |
| 4 1 | 11 19.13 | + 2 50.6 | 1.942 | 2.893 | 7.4 | 20.2 |
| 4 11 | 11 12.88 | + 3 43.7 | 1.996 | 2.885 | 11.1 | 20.4 |
| 4 21 | 11 8.62 | + 4 24.1 | 2.073 | 2.876 | 14.2 | 20.6 |

**10087** 1990 $SG_{3}$ 3 13.4 212°.29 1°.6/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.28 | + 3 50.9 | 1.842 | 2.698 | 12.6 | 18.2 |
| 2 21 | 11 52.45 | + 4 49.7 | 1.762 | 2.691 | 9.0 | 18.0 |
| 3 2 | 11 44.55 | + 5 59.4 | 1.709 | 2.684 | 4.8 | 17.7 |
| 3 12 | 11 35.38 | + 7 13.2 | 1.683 | 2.675 | 1.6 | 17.5 |
| 3 22 | 11 25.92 | + 8 23.4 | 1.687 | 2.667 | 5.0 | 17.7 |
| 4 1 | 11 17.27 | + 9 22.7 | 1.719 | 2.657 | 9.3 | 17.9 |
| 4 11 | 11 10.34 | +10 5.9 | 1.776 | 2.647 | 13.1 | 18.1 |
| 4 21 | 11 5.71 | +10 30.8 | 1.853 | 2.636 | 16.4 | 18.3 |

**148840** 2001 $VD_{7}$ 3 13.4 242°.82 1°.6/11.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.14 | + 5 5.8 | 1.939 | 2.798 | 12.0 | 20.6 |
| 2 21 | 11 51.56 | + 5 47.1 | 1.858 | 2.788 | 8.5 | 20.4 |
| 3 2 | 11 44.04 | + 6 36.6 | 1.802 | 2.777 | 4.6 | 20.1 |
| 3 12 | 11 35.32 | + 7 28.7 | 1.775 | 2.767 | 1.6 | 19.9 |
| 3 22 | 11 26.32 | + 8 16.9 | 1.776 | 2.756 | 4.8 | 20.1 |
| 4 1 | 11 18.07 | + 8 55.4 | 1.805 | 2.744 | 8.8 | 20.3 |
| 4 11 | 11 11.43 | + 9 20.0 | 1.860 | 2.733 | 12.5 | 20.5 |
| 4 21 | 11 6.96 | + 9 28.8 | 1.935 | 2.721 | 15.7 | 20.7 |

**270284** 2001 $VV_{69}$ 3 13.4 130°.16 0°.2/13.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.02 | + 0 34.6 | 2.200 | 3.038 | 11.6 | 21.5 |
| 2 21 | 11 52.52 | + 0 56.1 | 2.136 | 3.054 | 8.3 | 21.3 |
| 3 2 | 11 44.38 | + 1 27.0 | 2.098 | 3.068 | 4.6 | 21.1 |
| 3 12 | 11 35.35 | + 2 3.3 | 2.089 | 3.083 | 0.6 | 20.9 |
| 3 22 | 11 26.27 | + 2 40.2 | 2.111 | 3.096 | 3.3 | 21.1 |
| 4 1 | 11 18.01 | + 3 13.1 | 2.162 | 3.109 | 7.0 | 21.4 |
| 4 11 | 11 11.27 | + 3 38.1 | 2.239 | 3.121 | 10.3 | 21.6 |
| 4 21 | 11 6.49 | + 3 52.8 | 2.340 | 3.133 | 13.1 | 21.8 |

**40780** 1999 $TB_{26}$ 3 13.4 195°.99 0°.9/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.59 | + 4 0.3 | 2.365 | 3.213 | 10.5 | 19.6 |
| 2 21 | 11 50.83 | + 4 33.1 | 2.286 | 3.211 | 7.4 | 19.4 |
| 3 2 | 11 43.50 | + 5 12.9 | 2.235 | 3.208 | 4.0 | 19.1 |
| 3 12 | 11 35.25 | + 5 55.4 | 2.212 | 3.205 | 0.9 | 18.9 |
| 3 22 | 11 26.84 | + 6 35.6 | 2.220 | 3.201 | 3.7 | 19.1 |
| 4 1 | 11 19.07 | + 7 9.2 | 2.257 | 3.197 | 7.2 | 19.3 |
| 4 11 | 11 12.63 | + 7 32.6 | 2.321 | 3.192 | 10.4 | 19.5 |
| 4 21 | 11 8.00 | + 7 44.0 | 2.407 | 3.187 | 13.1 | 19.7 |

**380897** 2006 $DZ_{111}$ 3 13.4 178°.81 1°.4/15.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.64 | − 3 50.7 | 2.585 | 3.405 | 10.6 | 21.3 |
| 2 21 | 11 50.76 | − 3 36.0 | 2.503 | 3.407 | 7.8 | 21.1 |
| 3 2 | 11 43.42 | − 3 10.1 | 2.446 | 3.408 | 4.7 | 20.9 |
| 3 12 | 11 35.24 | − 2 35.7 | 2.419 | 3.409 | 1.8 | 20.7 |
| 3 22 | 11 26.91 | − 1 56.5 | 2.423 | 3.409 | 2.8 | 20.8 |
| 4 1 | 11 19.16 | − 1 16.7 | 2.457 | 3.408 | 6.0 | 21.0 |
| 4 11 | 11 12.64 | − 0 40.7 | 2.518 | 3.407 | 9.0 | 21.2 |
| 4 21 | 11 7.79 | − 0 11.8 | 2.603 | 3.406 | 11.7 | 21.4 |

**213582** 2002 $NY_{53}$ 3 13.4 259°.41 0°.3/13.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.78 | − 0 50.6 | 1.775 | 2.623 | 13.4 | 21.2 |
| 2 21 | 11 51.55 | − 0 11.2 | 1.684 | 2.606 | 9.8 | 20.9 |
| 3 2 | 11 44.16 | + 0 43.8 | 1.617 | 2.588 | 5.5 | 20.7 |
| 3 12 | 11 35.35 | + 1 49.5 | 1.577 | 2.570 | 0.8 | 20.3 |
| 3 22 | 11 26.12 | + 2 58.8 | 1.566 | 2.552 | 4.1 | 20.5 |
| 4 1 | 11 17.60 | + 4 3.8 | 1.582 | 2.533 | 8.8 | 20.7 |
| 4 11 | 11 10.78 | + 4 57.7 | 1.623 | 2.514 | 13.1 | 20.9 |
| 4 21 | 11 6.33 | + 5 36.1 | 1.686 | 2.494 | 16.7 | 21.1 |

**351506** 2005 $RQ_{26}$ 3 13.4 135°.40 0°.1/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.80 | − 1 16.9 | 1.584 | 2.433 | 14.7 | 21.5 |
| 2 21 | 11 52.88 | − 0 19.8 | 1.522 | 2.445 | 10.6 | 21.2 |
| 3 2 | 11 44.77 | + 0 54.1 | 1.484 | 2.456 | 5.8 | 21.0 |
| 3 12 | 11 35.40 | + 2 17.4 | 1.473 | 2.466 | 0.8 | 20.6 |
| 3 22 | 11 25.93 | + 3 41.4 | 1.490 | 2.476 | 4.3 | 20.9 |
| 4 1 | 11 17.54 | + 4 57.1 | 1.535 | 2.485 | 9.1 | 21.2 |
| 4 11 | 11 11.15 | + 5 57.7 | 1.605 | 2.494 | 13.3 | 21.5 |
| 4 21 | 11 7.29 | + 6 39.5 | 1.695 | 2.501 | 16.7 | 21.7 |

**50950** 2000 $GZ_{77}$ 3 13.4 235°.25 2°.7/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.90 | − 8 56.0 | 2.292 | 3.102 | 12.1 | 19.6 |
| 2 21 | 11 48.32 | − 8 28.6 | 2.204 | 3.098 | 9.3 | 19.4 |
| 3 2 | 11 42.18 | − 7 43.9 | 2.141 | 3.093 | 6.1 | 19.2 |
| 3 12 | 11 35.10 | − 6 44.7 | 2.105 | 3.088 | 3.3 | 19.0 |
| 3 22 | 11 27.81 | − 5 35.6 | 2.098 | 3.083 | 3.4 | 19.0 |
| 4 1 | 11 21.12 | − 4 22.6 | 2.120 | 3.077 | 6.4 | 19.2 |
| 4 11 | 11 15.72 | − 3 12.3 | 2.169 | 3.072 | 9.7 | 19.4 |
| 4 21 | 11 12.09 | − 2 9.8 | 2.242 | 3.066 | 12.6 | 19.5 |

**203298** 2001 $SK_{152}$ 3 13.4 237°.23 1°.6/14.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.82 | − 4 38.9 | 1.724 | 2.559 | 14.4 | 20.9 |
| 2 21 | 11 52.34 | − 4 1.5 | 1.633 | 2.545 | 10.7 | 20.7 |
| 3 2 | 11 44.61 | − 3 4.3 | 1.566 | 2.531 | 6.4 | 20.4 |
| 3 12 | 11 35.41 | − 1 51.6 | 1.526 | 2.517 | 2.1 | 20.1 |
| 3 22 | 11 25.78 | − 0 30.5 | 1.514 | 2.501 | 4.0 | 20.2 |
| 4 1 | 11 16.90 | + 0 50.4 | 1.530 | 2.485 | 8.6 | 20.4 |
| 4 11 | 11 9.81 | + 2 2.6 | 1.572 | 2.469 | 13.0 | 20.6 |
| 4 21 | 11 5.19 | + 3 0.1 | 1.635 | 2.451 | 16.8 | 20.8 |

**33680** Vasconcelos 3 13.4 170°.33 0°.1/13.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.64 | + 0 22.4 | 2.049 | 2.895 | 12.0 | 19.4 |
| 2 21 | 11 50.33 | + 1 5.5 | 1.975 | 2.897 | 8.5 | 19.2 |
| 3 2 | 11 43.29 | + 2 0.3 | 1.927 | 2.899 | 4.7 | 18.9 |
| 3 12 | 11 35.24 | + 3 1.5 | 1.908 | 2.901 | 0.5 | 18.6 |
| 3 22 | 11 27.03 | + 4 3.2 | 1.917 | 2.902 | 3.7 | 18.9 |
| 4 1 | 11 19.57 | + 4 59.1 | 1.956 | 2.903 | 7.6 | 19.1 |
| 4 11 | 11 13.61 | + 5 44.1 | 2.020 | 2.904 | 11.2 | 19.3 |
| 4 21 | 11 9.64 | + 6 15.3 | 2.106 | 2.904 | 14.2 | 19.5 |

**411250** 2010 $RB_{86}$ 3 13.4 220°.16 1°.7/11.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.04 | + 4 52.7 | 1.705 | 2.567 | 13.2 | 21.9 |
| 2 21 | 11 52.37 | + 5 37.6 | 1.632 | 2.563 | 9.3 | 21.6 |
| 3 2 | 11 44.54 | + 6 31.9 | 1.583 | 2.559 | 5.0 | 21.4 |
| 3 12 | 11 35.40 | + 7 29.0 | 1.562 | 2.554 | 1.7 | 21.1 |
| 3 22 | 11 26.02 | + 8 21.4 | 1.569 | 2.549 | 5.2 | 21.3 |
| 4 1 | 11 17.54 | + 9 2.5 | 1.604 | 2.544 | 9.6 | 21.6 |
| 4 11 | 11 10.91 | + 9 27.9 | 1.662 | 2.539 | 13.6 | 21.8 |
| 4 21 | 11 6.71 | + 9 35.7 | 1.741 | 2.533 | 16.9 | 22.0 |

**141229** 2001 $XE_{234}$ 3 13.4 62°.26 1°.9/11.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.20 | + 7 7.2 | 2.127 | 2.989 | 10.9 | 20.1 |
| 2 21 | 11 49.85 | + 7 44.7 | 2.071 | 3.003 | 7.6 | 19.9 |
| 3 2 | 11 42.94 | + 8 26.7 | 2.042 | 3.017 | 4.1 | 19.7 |
| 3 12 | 11 35.20 | + 9 7.9 | 2.041 | 3.031 | 2.0 | 19.6 |
| 3 22 | 11 27.43 | + 9 43.2 | 2.069 | 3.045 | 4.6 | 19.8 |
| 4 1 | 11 20.47 | +10 8.2 | 2.125 | 3.060 | 8.0 | 20.0 |
| 4 11 | 11 14.99 | +10 20.5 | 2.207 | 3.074 | 11.0 | 20.2 |
| 4 21 | 11 11.39 | +10 19.2 | 2.310 | 3.089 | 13.6 | 20.5 |

**245377** 2005 $GH_{86}$ 3 13.4 179°.19 0°.1/13.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 53.68 | − 0 8.5 | 2.352 | 3.194 | 10.8 | 21.4 |
| 2 21 | 11 48.77 | + 0 31.9 | 2.275 | 3.195 | 7.7 | 21.2 |
| 3 2 | 11 42.39 | + 1 22.8 | 2.224 | 3.195 | 4.3 | 20.9 |
| 3 12 | 11 35.14 | + 2 19.9 | 2.202 | 3.195 | 0.6 | 20.6 |
| 3 22 | 11 27.75 | + 3 18.1 | 2.210 | 3.195 | 3.2 | 20.9 |
| 4 1 | 11 20.97 | + 4 12.0 | 2.247 | 3.195 | 6.7 | 21.1 |
| 4 11 | 11 15.48 | + 4 57.0 | 2.310 | 3.194 | 10.0 | 21.3 |
| 4 21 | 11 11.69 | + 5 30.2 | 2.397 | 3.194 | 12.7 | 21.5 |

**412267** 2013 $HV_{128}$ 3 13.4 241°.67 0°.4/13.7 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.02 | − 0 12.1 | 1.766 | 2.612 | 13.6 | 22.2 |
| 2 21 | 11 53.12 | + 0 9.2 | 1.680 | 2.601 | 9.9 | 21.9 |
| 3 2 | 11 45.00 | + 0 43.8 | 1.618 | 2.589 | 5.6 | 21.7 |
| 3 12 | 11 35.47 | + 1 27.4 | 1.583 | 2.576 | 0.9 | 21.3 |
| 3 22 | 11 25.57 | + 2 14.0 | 1.577 | 2.564 | 4.0 | 21.5 |
| 4 1 | 11 16.45 | + 2 56.9 | 1.599 | 2.550 | 8.7 | 21.7 |
| 4 11 | 11 9.12 | + 3 30.5 | 1.646 | 2.537 | 12.9 | 22.0 |
| 4 21 | 11 4.23 | + 3 50.9 | 1.714 | 2.523 | 16.5 | 22.2 |

**132911** 2002 $SH_{19}$ 3 13.4 180°.31 1°.2/11.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.95 | + 4 13.9 | 2.434 | 3.287 | 10.1 | 20.6 |
| 2 21 | 11 48.92 | + 5 6.1 | 2.360 | 3.288 | 7.1 | 20.4 |
| 3 2 | 11 42.45 | + 6 5.7 | 2.314 | 3.288 | 3.8 | 20.2 |
| 3 12 | 11 35.15 | + 7 7.6 | 2.296 | 3.288 | 1.2 | 20.0 |
| 3 22 | 11 27.72 | + 8 6.3 | 2.309 | 3.288 | 3.9 | 20.2 |
| 4 1 | 11 20.89 | + 8 56.8 | 2.351 | 3.287 | 7.2 | 20.4 |
| 4 11 | 11 15.32 | + 9 35.5 | 2.419 | 3.286 | 10.2 | 20.6 |
| 4 21 | 11 11.42 | +10 0.5 | 2.510 | 3.285 | 12.8 | 20.7 |

**251556** 2009 $DY_{14}$ 3 13.4 318°.08 2°.9/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.36 | + 8 1.8 | 1.311 | 2.189 | 15.3 | 20.5 |
| 2 21 | 11 53.92 | + 8 26.3 | 1.237 | 2.175 | 10.9 | 20.2 |
| 3 2 | 11 45.65 | + 8 57.4 | 1.185 | 2.162 | 6.1 | 19.9 |
| 3 12 | 11 35.56 | + 9 27.6 | 1.159 | 2.149 | 2.9 | 19.7 |
| 3 22 | 11 25.05 | + 9 48.8 | 1.158 | 2.137 | 6.7 | 19.9 |
| 4 1 | 11 15.64 | + 9 54.8 | 1.181 | 2.125 | 11.9 | 20.1 |
| 4 11 | 11 8.62 | + 9 42.0 | 1.227 | 2.114 | 16.6 | 20.4 |
| 4 21 | 11 4.71 | + 9 10.2 | 1.290 | 2.104 | 20.6 | 20.6 |

**376734** 1999 $RS_{206}$ 3 13.4 200°.17 4°.7/19.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.25 | −15 51.2 | 2.599 | 3.361 | 12.2 | 21.2 |
| 2 21 | 11 49.89 | −15 46.1 | 2.504 | 3.357 | 9.9 | 21.1 |
| 3 2 | 11 43.02 | −15 22.2 | 2.433 | 3.353 | 7.4 | 20.9 |
| 3 12 | 11 35.22 | −14 40.3 | 2.388 | 3.347 | 5.3 | 20.7 |
| 3 22 | 11 27.21 | −13 43.3 | 2.373 | 3.341 | 4.8 | 20.7 |
| 4 1 | 11 19.74 | −12 36.0 | 2.387 | 3.335 | 6.4 | 20.8 |
| 4 11 | 11 13.48 | −11 24.5 | 2.429 | 3.328 | 8.9 | 20.9 |
| 4 21 | 11 8.90 | −10 14.6 | 2.495 | 3.320 | 11.4 | 21.1 |

**208640** 2002 $EV_{102}$ 3 13.4 37°.12 4°.8/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.29 | −10 29.5 | 1.395 | 2.222 | 17.6 | 19.8 |
| 2 21 | 11 51.47 | −10 27.7 | 1.326 | 2.225 | 13.7 | 19.5 |
| 3 2 | 11 44.18 | − 9 59.3 | 1.277 | 2.229 | 9.4 | 19.3 |
| 3 12 | 11 35.38 | − 9 6.7 | 1.253 | 2.233 | 5.5 | 19.1 |
| 3 22 | 11 26.31 | − 7 56.1 | 1.254 | 2.238 | 5.4 | 19.1 |
| 4 1 | 11 18.33 | − 6 37.3 | 1.281 | 2.243 | 9.2 | 19.3 |
| 4 11 | 11 12.52 | − 5 20.7 | 1.331 | 2.248 | 13.5 | 19.6 |
| 4 21 | 11 9.49 | − 4 14.9 | 1.402 | 2.253 | 17.3 | 19.8 |

**426488** 2013 $RB_{23}$ 3 13.4 104°.43 0°.1/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.94 | − 1 8.9 | 2.095 | 2.938 | 11.8 | 21.5 |
| 2 21 | 11 49.01 | − 0 0.0 | 2.033 | 2.954 | 8.4 | 21.3 |
| 3 2 | 11 42.52 | + 1 21.8 | 1.997 | 2.969 | 4.6 | 21.1 |
| 3 12 | 11 35.16 | + 2 50.3 | 1.990 | 2.984 | 0.5 | 20.8 |
| 3 22 | 11 27.76 | + 4 18.4 | 2.013 | 2.998 | 3.5 | 21.0 |
| 4 1 | 11 21.12 | + 5 39.1 | 2.065 | 3.012 | 7.3 | 21.3 |
| 4 11 | 11 15.92 | + 6 46.8 | 2.144 | 3.026 | 10.7 | 21.5 |
| 4 21 | 11 12.59 | + 7 38.4 | 2.245 | 3.040 | 13.5 | 21.8 |

**90141** 2002 $YO_3$ 3 13.4 349°.06 9°.7/ 2.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.32 | +26 40.0 | 1.694 | 2.569 | 12.6 | 18.3 |
| 2 21 | 11 49.14 | +28 27.0 | 1.647 | 2.561 | 10.5 | 18.2 |
| 3 2 | 11 42.80 | +30 2.0 | 1.625 | 2.555 | 9.7 | 18.1 |
| 3 12 | 11 35.20 | +31 14.2 | 1.628 | 2.549 | 10.5 | 18.2 |
| 3 22 | 11 27.46 | +31 56.2 | 1.655 | 2.544 | 12.6 | 18.3 |
| 4 1 | 11 20.73 | +32 4.8 | 1.703 | 2.540 | 15.1 | 18.4 |
| 4 11 | 11 15.92 | +31 41.6 | 1.770 | 2.537 | 17.5 | 18.6 |
| 4 21 | 11 13.56 | +30 50.7 | 1.852 | 2.534 | 19.6 | 18.7 |

**321812** 2010 $RH_{11}$ 3 13.4 180°.21 1°.7/15.0 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.91 | − 5 15.6 | 1.845 | 2.677 | 13.7 | 21.8 |
| 2 21 | 11 50.72 | − 4 33.3 | 1.768 | 2.678 | 10.2 | 21.5 |
| 3 2 | 11 43.60 | − 3 32.6 | 1.715 | 2.679 | 6.1 | 21.3 |
| 3 12 | 11 35.31 | − 2 18.2 | 1.689 | 2.679 | 2.2 | 21.0 |
| 3 22 | 11 26.81 | − 0 56.8 | 1.692 | 2.679 | 3.6 | 21.1 |
| 4 1 | 11 19.11 | + 0 23.4 | 1.723 | 2.678 | 7.8 | 21.4 |
| 4 11 | 11 13.08 | + 1 34.9 | 1.780 | 2.677 | 11.7 | 21.6 |
| 4 21 | 11 9.25 | + 2 32.5 | 1.859 | 2.676 | 15.1 | 21.8 |

**429331** 2010 $ET_{127}$ 3 13.4 224°.84 4°.1/ 8.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 53.36 | +12 19.7 | 2.124 | 2.996 | 10.5 | 20.2 |
| 2 21 | 11 48.70 | +13 44.1 | 2.060 | 2.995 | 7.5 | 20.0 |
| 3 2 | 11 42.41 | +15 10.7 | 2.024 | 2.993 | 4.8 | 19.8 |
| 3 12 | 11 35.16 | +16 31.8 | 2.016 | 2.992 | 4.4 | 19.8 |
| 3 22 | 11 27.77 | +17 40.5 | 2.037 | 2.991 | 6.7 | 19.9 |
| 4 1 | 11 21.08 | +18 31.3 | 2.085 | 2.989 | 9.8 | 20.1 |
| 4 11 | 11 15.83 | +19 1.7 | 2.157 | 2.988 | 12.7 | 20.3 |
| 4 21 | 11 12.47 | +19 11.7 | 2.248 | 2.986 | 15.1 | 20.5 |

**511937** 2015 $HS_{170}$ 3 13.4 308°.68 12°.7/25.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 6.52 | +44 40.6 | 2.172 | 2.962 | 13.4 | 20.5 |
| 2 21 | 11 58.40 | +45 49.0 | 2.131 | 2.947 | 12.8 | 20.4 |
| 3 2 | 11 47.77 | +46 32.6 | 2.111 | 2.931 | 12.8 | 20.4 |
| 3 12 | 11 35.80 | +46 43.6 | 2.114 | 2.917 | 13.5 | 20.4 |
| 3 22 | 11 23.89 | +46 18.2 | 2.137 | 2.902 | 14.7 | 20.5 |
| 4 1 | 11 13.40 | +45 17.1 | 2.180 | 2.887 | 16.2 | 20.6 |
| 4 11 | 11 5.36 | +43 45.1 | 2.240 | 2.873 | 17.6 | 20.7 |
| 4 21 | 11 0.23 | +41 48.8 | 2.314 | 2.859 | 18.9 | 20.8 |

**329307** 2000 $SM_{31}$ 3 13.4 193°.90 0°.3/13.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.87 | − 0 55.9 | 2.387 | 3.223 | 10.9 | 22.3 |
| 2 21 | 11 50.34 | − 0 18.4 | 2.305 | 3.220 | 7.8 | 22.1 |
| 3 2 | 11 43.27 | + 0 30.3 | 2.248 | 3.218 | 4.4 | 21.9 |
| 3 12 | 11 35.27 | + 1 26.0 | 2.221 | 3.214 | 0.8 | 21.6 |
| 3 22 | 11 27.09 | + 2 23.7 | 2.224 | 3.210 | 3.1 | 21.8 |
| 4 1 | 11 19.52 | + 3 18.1 | 2.257 | 3.205 | 6.7 | 22.0 |
| 4 11 | 11 13.25 | + 4 4.4 | 2.317 | 3.200 | 10.0 | 22.2 |
| 4 21 | 11 8.75 | + 4 39.5 | 2.400 | 3.194 | 12.8 | 22.4 |

**505031** 2011 $QE_{69}$ 3 13.4 205°.03 0°.4/12.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.42 | + 2 12.2 | 2.835 | 3.677 | 9.1 | 22.4 |
| 2 21 | 11 48.41 | + 2 50.3 | 2.751 | 3.673 | 6.5 | 22.2 |
| 3 2 | 11 42.14 | + 3 35.7 | 2.695 | 3.667 | 3.5 | 22.0 |
| 3 12 | 11 35.13 | + 4 24.8 | 2.669 | 3.662 | 0.5 | 21.7 |
| 3 22 | 11 27.97 | + 5 13.4 | 2.673 | 3.656 | 3.0 | 22.0 |
| 4 1 | 11 21.30 | + 5 57.3 | 2.707 | 3.649 | 6.1 | 22.1 |
| 4 11 | 11 15.69 | + 6 33.1 | 2.769 | 3.643 | 8.9 | 22.3 |
| 4 21 | 11 11.52 | + 6 58.5 | 2.854 | 3.635 | 11.3 | 22.5 |

**89273** 2001 $VO_{12}$ 3 13.4 31°.10 20°.3/10.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.20 | −42 58.7 | 1.125 | 1.777 | 30.4 | 16.8 |
| 2 21 | 11 51.06 | −44 56.6 | 1.086 | 1.798 | 28.4 | 16.7 |
| 3 2 | 11 44.34 | −45 58.2 | 1.056 | 1.821 | 26.3 | 16.6 |
| 3 12 | 11 35.41 | −45 55.4 | 1.036 | 1.845 | 24.1 | 16.5 |
| 3 22 | 11 26.21 | −44 46.1 | 1.029 | 1.871 | 22.1 | 16.5 |
| 4 1 | 11 18.80 | −42 36.8 | 1.036 | 1.898 | 20.8 | 16.5 |
| 4 11 | 11 14.70 | −39 43.4 | 1.060 | 1.926 | 20.3 | 16.6 |
| 4 21 | 11 14.47 | −36 26.2 | 1.102 | 1.955 | 20.8 | 16.7 |

**4015** Wilson–Harrington 3 13.4 152°.48 0°.9/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.50 | − 3 23.6 | 3.359 | 4.170 | 8.6 | 22.3 |
| 2 21 | 11 50.33 | − 2 49.8 | 3.283 | 4.185 | 6.3 | 22.2 |
| 3 2 | 11 43.08 | − 2 7.1 | 3.236 | 4.199 | 3.7 | 22.0 |
| 3 12 | 11 35.24 | − 1 18.3 | 3.220 | 4.211 | 1.2 | 21.8 |
| 3 22 | 11 27.35 | − 0 26.9 | 3.237 | 4.223 | 2.3 | 21.9 |
| 4 1 | 11 19.96 | + 0 23.4 | 3.286 | 4.234 | 4.9 | 22.1 |
| 4 11 | 11 13.55 | + 1 9.3 | 3.364 | 4.243 | 7.3 | 22.3 |
| 4 21 | 11 8.45 | + 1 48.0 | 3.469 | 4.252 | 9.4 | 22.5 |

**248190** 2005 $BL_{32}$ 3 13.4 232°.61 0°.0/13.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.53 | + 0 16.6 | 1.889 | 2.734 | 12.9 | 22.0 |
| 2 21 | 11 52.67 | + 0 51.6 | 1.800 | 2.721 | 9.3 | 21.8 |
| 3 2 | 11 44.74 | + 1 39.6 | 1.737 | 2.708 | 5.2 | 21.5 |
| 3 12 | 11 35.47 | + 2 35.9 | 1.701 | 2.695 | 0.6 | 21.1 |
| 3 22 | 11 25.84 | + 3 34.1 | 1.695 | 2.680 | 4.0 | 21.4 |
| 4 1 | 11 16.94 | + 4 27.4 | 1.717 | 2.665 | 8.5 | 21.6 |
| 4 11 | 11 9.70 | + 5 9.9 | 1.765 | 2.650 | 12.5 | 21.8 |
| 4 21 | 11 4.74 | + 5 38.2 | 1.834 | 2.633 | 15.9 | 22.0 |

**505170** 2012 $TS_{22}$ 3 13.4 176°.38 3°.4/ 9.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.66 | +13 47.1 | 2.599 | 3.458 | 9.3 | 22.3 |
| 2 21 | 11 51.44 | +14 23.0 | 2.533 | 3.460 | 6.7 | 22.1 |
| 3 2 | 11 43.79 | +14 58.1 | 2.494 | 3.461 | 4.2 | 22.0 |
| 3 12 | 11 35.33 | +15 27.5 | 2.484 | 3.462 | 3.5 | 21.9 |
| 3 22 | 11 26.80 | +15 47.3 | 2.505 | 3.462 | 5.4 | 22.0 |
| 4 1 | 11 18.94 | +15 54.4 | 2.555 | 3.463 | 8.0 | 22.2 |
| 4 11 | 11 12.38 | +15 47.9 | 2.630 | 3.462 | 10.6 | 22.4 |
| 4 21 | 11 7.54 | +15 27.9 | 2.727 | 3.462 | 12.8 | 22.5 |

**38906** 2000 $SE_{169}$ 3 13.4 90°.83 4°.3/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.15 | − 9 46.6 | 1.526 | 2.347 | 16.6 | 18.8 |
| 2 21 | 11 52.59 | − 9 44.8 | 1.459 | 2.357 | 12.9 | 18.5 |
| 3 2 | 11 44.71 | − 9 19.2 | 1.415 | 2.367 | 8.7 | 18.3 |
| 3 12 | 11 35.46 | − 8 32.5 | 1.396 | 2.377 | 5.0 | 18.1 |
| 3 22 | 11 26.05 | − 7 30.6 | 1.403 | 2.386 | 5.0 | 18.1 |
| 4 1 | 11 17.71 | − 6 21.9 | 1.436 | 2.396 | 8.6 | 18.4 |
| 4 11 | 11 11.44 | − 5 15.6 | 1.495 | 2.405 | 12.7 | 18.6 |
| 4 21 | 11 7.80 | − 4 18.8 | 1.574 | 2.415 | 16.2 | 18.9 |

**301094** 2008 $UA_{355}$ 3 13.4 184°.27 2°.0/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.88 | + 5 20.1 | 1.819 | 2.676 | 12.7 | 22.0 |
| 2 21 | 11 53.56 | + 6 14.5 | 1.748 | 2.677 | 9.0 | 21.8 |
| 3 2 | 11 45.16 | + 7 17.6 | 1.702 | 2.677 | 4.8 | 21.5 |
| 3 12 | 11 35.53 | + 8 22.3 | 1.685 | 2.676 | 2.0 | 21.3 |
| 3 22 | 11 25.70 | + 9 21.4 | 1.697 | 2.674 | 5.2 | 21.5 |
| 4 1 | 11 16.76 | +10 8.3 | 1.737 | 2.672 | 9.4 | 21.8 |
| 4 11 | 11 9.65 | +10 38.8 | 1.802 | 2.669 | 13.1 | 22.0 |
| 4 21 | 11 4.88 | +10 51.6 | 1.887 | 2.665 | 16.3 | 22.2 |

**8436** Leucopsis 3 13.4 84°.56 1°.3/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.92 | + 4 25.9 | 2.213 | 3.070 | 10.8 | 18.7 |
| 2 21 | 11 48.95 | + 5 15.4 | 2.153 | 3.082 | 7.5 | 18.6 |
| 3 2 | 11 42.48 | + 6 11.9 | 2.119 | 3.094 | 4.0 | 18.3 |
| 3 12 | 11 35.19 | + 7 10.0 | 2.115 | 3.106 | 1.3 | 18.2 |
| 3 22 | 11 27.85 | + 8 4.1 | 2.139 | 3.118 | 4.1 | 18.4 |
| 4 1 | 11 21.23 | + 8 49.2 | 2.192 | 3.130 | 7.5 | 18.6 |
| 4 11 | 11 15.99 | + 9 21.6 | 2.270 | 3.142 | 10.6 | 18.8 |
| 4 21 | 11 12.54 | + 9 39.9 | 2.371 | 3.154 | 13.2 | 19.0 |

**57519** 2001 $SV_{287}$ 3 13.4 13°.09 7°.2/ 6.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.47 | +14 10.4 | 1.244 | 2.140 | 14.5 | 17.5 |
| 2 21 | 11 48.15 | +16 17.2 | 1.200 | 2.144 | 10.6 | 17.3 |
| 3 2 | 11 42.37 | +18 25.0 | 1.180 | 2.149 | 7.6 | 17.2 |
| 3 12 | 11 35.18 | +20 18.9 | 1.185 | 2.154 | 7.8 | 17.2 |
| 3 22 | 11 27.89 | +21 46.3 | 1.213 | 2.161 | 10.9 | 17.4 |
| 4 1 | 11 21.81 | +22 39.8 | 1.265 | 2.169 | 14.7 | 17.6 |
| 4 11 | 11 17.95 | +22 58.1 | 1.335 | 2.178 | 18.3 | 17.9 |
| 4 21 | 11 16.80 | +22 44.3 | 1.421 | 2.188 | 21.2 | 18.1 |

**239313** 2007 $RM_{16}$ 3 13.4 126°.14 3°.1/ 9.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.75 | +12 51.7 | 2.530 | 3.387 | 9.6 | 21.1 |
| 2 21 | 11 52.17 | +13 22.1 | 2.473 | 3.400 | 6.8 | 20.9 |
| 3 2 | 11 44.16 | +13 52.0 | 2.444 | 3.413 | 4.1 | 20.8 |
| 3 12 | 11 35.39 | +14 16.5 | 2.444 | 3.425 | 3.2 | 20.7 |
| 3 22 | 11 26.64 | +14 31.9 | 2.475 | 3.437 | 5.1 | 20.9 |
| 4 1 | 11 18.64 | +14 35.5 | 2.535 | 3.448 | 7.9 | 21.1 |
| 4 11 | 11 12.02 | +14 26.3 | 2.621 | 3.459 | 10.5 | 21.3 |
| 4 21 | 11 7.16 | +14 4.6 | 2.729 | 3.470 | 12.7 | 21.4 |

**498315** 2007 $VD_{148}$ 3 13.4 144°.40 1°.0/14.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.52 | − 3 45.7 | 2.898 | 3.719 | 9.6 | 22.3 |
| 2 21 | 11 48.40 | − 3 10.9 | 2.825 | 3.731 | 7.0 | 22.1 |
| 3 2 | 11 42.11 | − 2 25.5 | 2.778 | 3.741 | 4.1 | 22.0 |
| 3 12 | 11 35.15 | − 1 32.9 | 2.761 | 3.752 | 1.4 | 21.8 |
| 3 22 | 11 28.13 | − 0 37.1 | 2.775 | 3.761 | 2.5 | 21.9 |
| 4 1 | 11 21.64 | + 0 17.7 | 2.819 | 3.771 | 5.4 | 22.1 |
| 4 11 | 11 16.20 | + 1 7.3 | 2.892 | 3.779 | 8.1 | 22.3 |
| 4 21 | 11 12.18 | + 1 48.7 | 2.989 | 3.788 | 10.4 | 22.4 |

**224491** 2005 $WB_{7}$ 3 13.4 196°.46 2°.3/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.81 | + 7 24.3 | 2.105 | 2.965 | 11.1 | 21.0 |
| 2 21 | 11 51.17 | + 8 16.2 | 2.032 | 2.963 | 7.8 | 20.8 |
| 3 2 | 11 43.78 | + 9 13.8 | 1.986 | 2.960 | 4.3 | 20.5 |
| 3 12 | 11 35.37 | +10 10.9 | 1.969 | 2.957 | 2.4 | 20.4 |
| 3 22 | 11 26.79 | +11 1.5 | 1.981 | 2.954 | 5.1 | 20.6 |
| 4 1 | 11 18.94 | +11 40.3 | 2.021 | 2.950 | 8.6 | 20.8 |
| 4 11 | 11 12.60 | +12 4.0 | 2.087 | 2.946 | 11.9 | 21.0 |
| 4 21 | 11 8.26 | +12 11.5 | 2.173 | 2.942 | 14.7 | 21.2 |

**412876** 2014 $QU_{18}$ 3 13.4 178°.66 0°.7/14.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.79 | − 2 34.0 | 1.842 | 2.682 | 13.4 | 21.6 |
| 2 21 | 11 51.35 | − 1 44.0 | 1.767 | 2.684 | 9.7 | 21.4 |
| 3 2 | 11 43.96 | − 0 37.6 | 1.716 | 2.685 | 5.5 | 21.2 |
| 3 12 | 11 35.40 | + 0 39.5 | 1.693 | 2.686 | 1.1 | 20.9 |
| 3 22 | 11 26.64 | + 2 0.1 | 1.699 | 2.686 | 3.7 | 21.0 |
| 4 1 | 11 18.70 | + 3 16.1 | 1.733 | 2.685 | 8.1 | 21.3 |
| 4 11 | 11 12.44 | + 4 20.8 | 1.794 | 2.684 | 12.0 | 21.5 |
| 4 21 | 11 8.41 | + 5 9.8 | 1.875 | 2.682 | 15.3 | 21.8 |

**403799** 2011 $UR_{14}$ 3 13.4 46°.58 0°.2/13.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.17 | + 1 44.0 | 1.376 | 2.236 | 15.8 | 20.6 |
| 2 21 | 11 54.93 | + 1 46.3 | 1.312 | 2.240 | 11.4 | 20.3 |
| 3 2 | 11 46.07 | + 2 1.0 | 1.271 | 2.244 | 6.3 | 20.1 |
| 3 12 | 11 35.67 | + 2 22.9 | 1.256 | 2.249 | 0.8 | 19.7 |
| 3 22 | 11 25.07 | + 2 45.8 | 1.267 | 2.254 | 4.7 | 20.0 |
| 4 1 | 11 15.70 | + 3 3.5 | 1.304 | 2.258 | 9.9 | 20.3 |
| 4 11 | 11 8.69 | + 3 10.8 | 1.365 | 2.263 | 14.5 | 20.6 |
| 4 21 | 11 4.60 | + 3 5.2 | 1.444 | 2.269 | 18.3 | 20.8 |

**426551** 2013 $RE_{87}$ 3 13.4 183°.41 2°.0/15.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.64 | − 5 53.5 | 2.004 | 2.832 | 13.0 | 21.8 |
| 2 21 | 11 49.72 | − 5 22.1 | 1.925 | 2.832 | 9.7 | 21.6 |
| 3 2 | 11 43.03 | − 4 33.8 | 1.870 | 2.832 | 6.0 | 21.4 |
| 3 12 | 11 35.29 | − 3 32.2 | 1.843 | 2.832 | 2.5 | 21.2 |
| 3 22 | 11 27.36 | − 2 23.1 | 1.844 | 2.831 | 3.4 | 21.2 |
| 4 1 | 11 20.14 | − 1 13.4 | 1.874 | 2.831 | 7.2 | 21.4 |
| 4 11 | 11 14.44 | − 0 9.7 | 1.930 | 2.830 | 10.8 | 21.7 |
| 4 21 | 11 10.74 | + 0 42.9 | 2.009 | 2.829 | 14.0 | 21.9 |

**456779** 2007 $TV_{162}$ 3 13.4 230°.50 0°.5/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.77 | − 1 12.8 | 1.895 | 2.735 | 13.1 | 21.9 |
| 2 21 | 11 52.86 | − 0 40.4 | 1.805 | 2.723 | 9.5 | 21.7 |
| 3 2 | 11 44.87 | + 0 6.4 | 1.740 | 2.709 | 5.4 | 21.4 |
| 3 12 | 11 35.53 | + 1 3.1 | 1.703 | 2.695 | 1.0 | 21.1 |
| 3 22 | 11 25.82 | + 2 3.5 | 1.695 | 2.681 | 3.8 | 21.2 |
| 4 1 | 11 16.83 | + 3 0.7 | 1.715 | 2.665 | 8.3 | 21.5 |
| 4 11 | 11 9.49 | + 3 48.5 | 1.761 | 2.649 | 12.3 | 21.7 |
| 4 21 | 11 4.43 | + 4 22.7 | 1.829 | 2.632 | 15.8 | 21.9 |

**463108** 2011 $UX_{119}$ 3 13.4 151°.78 1°.9/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.54 | − 5 27.0 | 1.850 | 2.677 | 13.9 | 22.7 |
| 2 21 | 11 52.54 | − 4 55.9 | 1.778 | 2.685 | 10.3 | 22.5 |
| 3 2 | 11 44.59 | − 4 7.1 | 1.731 | 2.693 | 6.3 | 22.2 |
| 3 12 | 11 35.48 | − 3 5.0 | 1.711 | 2.701 | 2.4 | 22.0 |
| 3 22 | 11 26.23 | − 1 55.9 | 1.721 | 2.707 | 3.6 | 22.1 |
| 4 1 | 11 17.87 | − 0 47.1 | 1.758 | 2.713 | 7.7 | 22.3 |
| 4 11 | 11 11.25 | + 0 14.2 | 1.822 | 2.719 | 11.5 | 22.6 |
| 4 21 | 11 6.89 | + 1 3.4 | 1.908 | 2.723 | 14.8 | 22.8 |

**104504** 2000 $GA_{39}$ 3 13.4 127°.65 1°.1/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.28 | + 4 20.5 | 2.223 | 3.077 | 10.8 | 20.0 |
| 2 21 | 11 49.96 | + 4 57.9 | 2.155 | 3.082 | 7.6 | 19.8 |
| 3 2 | 11 43.07 | + 5 42.4 | 2.113 | 3.088 | 4.1 | 19.5 |
| 3 12 | 11 35.29 | + 6 29.0 | 2.101 | 3.093 | 1.1 | 19.3 |
| 3 22 | 11 27.42 | + 7 12.4 | 2.117 | 3.098 | 3.9 | 19.5 |
| 4 1 | 11 20.25 | + 7 48.1 | 2.162 | 3.103 | 7.5 | 19.8 |
| 4 11 | 11 14.49 | + 8 12.5 | 2.234 | 3.107 | 10.7 | 20.0 |
| 4 21 | 11 10.56 | + 8 23.9 | 2.327 | 3.112 | 13.4 | 20.2 |

**461416** 2001 $TB_{176}$ 3 13.4 174°.45 1°.6/15.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.70 | − 4 36.9 | 2.247 | 3.070 | 11.9 | 22.3 |
| 2 21 | 11 51.00 | − 4 9.4 | 2.167 | 3.073 | 8.8 | 22.1 |
| 3 2 | 11 43.67 | − 3 27.7 | 2.113 | 3.075 | 5.3 | 21.9 |
| 3 12 | 11 35.37 | − 2 35.5 | 2.087 | 3.077 | 2.0 | 21.7 |
| 3 22 | 11 26.91 | − 1 37.7 | 2.092 | 3.078 | 3.1 | 21.8 |
| 4 1 | 11 19.13 | − 0 39.9 | 2.125 | 3.079 | 6.7 | 22.0 |
| 4 11 | 11 12.75 | + 0 12.4 | 2.186 | 3.079 | 10.1 | 22.2 |
| 4 21 | 11 8.24 | + 0 55.0 | 2.270 | 3.078 | 13.0 | 22.4 |

**199450** 2006 $DF_{38}$ 3 13.4 19°.45 0°.5/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.49 | + 2 30.6 | 1.804 | 2.661 | 12.8 | 20.5 |
| 2 21 | 11 51.14 | + 2 55.8 | 1.734 | 2.662 | 9.1 | 20.2 |
| 3 2 | 11 43.84 | + 3 31.0 | 1.689 | 2.663 | 4.9 | 20.0 |
| 3 12 | 11 35.40 | + 4 11.0 | 1.671 | 2.664 | 0.7 | 19.7 |
| 3 22 | 11 26.79 | + 4 50.1 | 1.681 | 2.666 | 4.1 | 19.9 |
| 4 1 | 11 19.04 | + 5 22.5 | 1.719 | 2.668 | 8.4 | 20.2 |
| 4 11 | 11 13.00 | + 5 43.7 | 1.781 | 2.669 | 12.2 | 20.4 |
| 4 21 | 11 9.19 | + 5 51.5 | 1.865 | 2.671 | 15.4 | 20.6 |

**250748** 2005 $SH_{170}$ 3 13.4 270°.82 1°.9/15.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.50 | − 5 49.9 | 2.434 | 3.256 | 11.1 | 20.5 |
| 2 21 | 11 47.99 | − 5 25.7 | 2.346 | 3.249 | 8.3 | 20.3 |
| 3 2 | 11 42.02 | − 4 47.6 | 2.282 | 3.242 | 5.2 | 20.1 |
| 3 12 | 11 35.17 | − 3 58.4 | 2.247 | 3.234 | 2.3 | 19.9 |
| 3 22 | 11 28.13 | − 3 2.4 | 2.241 | 3.227 | 3.0 | 19.9 |
| 4 1 | 11 21.62 | − 2 4.7 | 2.264 | 3.220 | 6.2 | 20.1 |
| 4 11 | 11 16.32 | − 1 10.8 | 2.314 | 3.212 | 9.3 | 20.3 |
| 4 21 | 11 12.65 | − 0 24.8 | 2.387 | 3.205 | 12.1 | 20.4 |

**237699** 2001 $UX_{62}$ 3 13.4 274°.38 2°.5/10.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.46 | + 9 17.5 | 2.288 | 3.148 | 10.3 | 20.3 |
| 2 21 | 11 50.93 | + 9 53.1 | 2.199 | 3.129 | 7.3 | 20.1 |
| 3 2 | 11 43.69 | +10 32.5 | 2.136 | 3.109 | 4.2 | 19.9 |
| 3 12 | 11 35.39 | +11 10.3 | 2.102 | 3.090 | 2.6 | 19.7 |
| 3 22 | 11 26.80 | +11 41.4 | 2.098 | 3.070 | 5.0 | 19.9 |
| 4 1 | 11 18.81 | +12 1.7 | 2.122 | 3.049 | 8.4 | 20.0 |
| 4 11 | 11 12.17 | +12 8.2 | 2.172 | 3.029 | 11.6 | 20.2 |
| 4 21 | 11 7.41 | +12 0.2 | 2.243 | 3.009 | 14.4 | 20.4 |

**150070** 2006 $SJ_{61}$ 3 13.4 54°.27 0°.3/13.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 4.05 | + 2 23.4 | 1.403 | 2.259 | 15.8 | 19.0 |
| 2 21 | 11 56.67 | + 2 7.9 | 1.355 | 2.281 | 11.3 | 18.7 |
| 3 2 | 11 46.84 | + 2 2.7 | 1.331 | 2.303 | 6.2 | 18.5 |
| 3 12 | 11 35.75 | + 2 3.6 | 1.333 | 2.326 | 0.9 | 18.2 |
| 3 22 | 11 24.78 | + 2 5.8 | 1.362 | 2.349 | 4.5 | 18.5 |
| 4 1 | 11 15.25 | + 2 4.6 | 1.419 | 2.372 | 9.3 | 18.9 |
| 4 11 | 11 8.15 | + 1 56.1 | 1.499 | 2.395 | 13.6 | 19.2 |
| 4 21 | 11 3.92 | + 1 38.5 | 1.599 | 2.419 | 17.0 | 19.4 |

**489612** 2007 $TV_{225}$ 3 13.4 233°.87 1°.3/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.72 | + 4 4.1 | 1.940 | 2.792 | 12.3 | 22.7 |
| 2 21 | 11 53.52 | + 4 46.3 | 1.851 | 2.777 | 8.8 | 22.5 |
| 3 2 | 11 45.22 | + 5 38.2 | 1.787 | 2.761 | 4.7 | 22.2 |
| 3 12 | 11 35.59 | + 6 34.2 | 1.752 | 2.745 | 1.3 | 21.9 |
| 3 22 | 11 25.58 | + 7 27.6 | 1.747 | 2.727 | 4.7 | 22.1 |
| 4 1 | 11 16.28 | + 8 12.1 | 1.770 | 2.709 | 8.9 | 22.3 |
| 4 11 | 11 8.63 | + 8 43.0 | 1.818 | 2.690 | 12.8 | 22.5 |
| 4 21 | 11 3.25 | + 8 58.0 | 1.888 | 2.670 | 16.2 | 22.7 |

**81767** 2000 $JV_{65}$ 3 13.4 189°.74 3°.8/ 8.3 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.05 | +13 38.6 | 2.568 | 3.433 | 9.2 | 19.0 |
| 2 21 | 11 48.99 | +14 48.5 | 2.503 | 3.433 | 6.6 | 18.9 |
| 3 2 | 11 42.52 | +15 58.8 | 2.465 | 3.431 | 4.3 | 18.7 |
| 3 12 | 11 35.24 | +17 3.6 | 2.456 | 3.430 | 4.0 | 18.7 |
| 3 22 | 11 27.84 | +17 57.5 | 2.478 | 3.428 | 5.9 | 18.8 |
| 4 1 | 11 21.04 | +18 36.6 | 2.527 | 3.425 | 8.5 | 19.0 |
| 4 11 | 11 15.46 | +18 58.8 | 2.601 | 3.423 | 11.0 | 19.1 |
| 4 21 | 11 11.51 | +19 4.1 | 2.696 | 3.420 | 13.2 | 19.3 |

**289202** 2004 $XH_{6}$ 3 13.4 87°.71 1°.1/14.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.26 | − 2 39.9 | 1.507 | 2.353 | 15.5 | 20.5 |
| 2 21 | 11 53.24 | − 2 8.5 | 1.453 | 2.373 | 11.2 | 20.3 |
| 3 2 | 11 44.99 | − 1 19.8 | 1.423 | 2.392 | 6.4 | 20.1 |
| 3 12 | 11 35.54 | − 0 19.9 | 1.418 | 2.411 | 1.6 | 19.8 |
| 3 22 | 11 26.08 | + 0 43.5 | 1.442 | 2.429 | 4.1 | 20.0 |
| 4 1 | 11 17.82 | + 1 42.2 | 1.492 | 2.448 | 8.8 | 20.3 |
| 4 11 | 11 11.67 | + 2 29.7 | 1.567 | 2.466 | 12.9 | 20.6 |
| 4 21 | 11 8.09 | + 3 2.0 | 1.662 | 2.483 | 16.4 | 20.9 |

**364208** 2006 $QS_{116}$ 3 13.4 237°.02 1°.5/14.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.13 | − 4 17.0 | 1.982 | 2.812 | 13.0 | 22.2 |
| 2 21 | 11 51.64 | − 3 44.8 | 1.888 | 2.798 | 9.7 | 21.9 |
| 3 2 | 11 44.19 | − 2 55.9 | 1.818 | 2.783 | 5.8 | 21.7 |
| 3 12 | 11 35.47 | − 1 54.1 | 1.777 | 2.768 | 2.0 | 21.4 |
| 3 22 | 11 26.39 | − 0 45.2 | 1.765 | 2.752 | 3.5 | 21.5 |
| 4 1 | 11 17.95 | + 0 23.8 | 1.781 | 2.735 | 7.7 | 21.7 |
| 4 11 | 11 11.06 | + 1 25.9 | 1.824 | 2.718 | 11.7 | 21.9 |
| 4 21 | 11 6.32 | + 2 16.1 | 1.889 | 2.700 | 15.1 | 22.1 |

**157202** 2004 $RG_{14}$ 3 13.4 203°.32 0°.6/14.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.88 | − 1 27.5 | 2.179 | 3.017 | 11.7 | 21.4 |
| 2 21 | 11 50.51 | − 0 54.3 | 2.097 | 3.013 | 8.5 | 21.2 |
| 3 2 | 11 43.45 | − 0 8.7 | 2.041 | 3.010 | 4.8 | 21.0 |
| 3 12 | 11 35.38 | + 0 45.1 | 2.013 | 3.005 | 1.0 | 20.7 |
| 3 22 | 11 27.10 | + 1 41.8 | 2.014 | 3.001 | 3.3 | 20.8 |
| 4 1 | 11 19.48 | + 2 35.6 | 2.045 | 2.996 | 7.1 | 21.1 |
| 4 11 | 11 13.27 | + 3 21.3 | 2.102 | 2.990 | 10.6 | 21.3 |
| 4 21 | 11 8.97 | + 3 55.5 | 2.182 | 2.984 | 13.6 | 21.5 |

**477185** 2009 $FJ_{69}$ 3 13.4 289°.76 4°.9/ 8.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.22 | +17 38.7 | 2.254 | 3.118 | 10.3 | 21.4 |
| 2 21 | 11 52.16 | +18 16.1 | 2.179 | 3.104 | 7.7 | 21.2 |
| 3 2 | 11 44.35 | +18 50.1 | 2.130 | 3.091 | 5.4 | 21.0 |
| 3 12 | 11 35.49 | +19 14.5 | 2.110 | 3.077 | 5.1 | 21.0 |
| 3 22 | 11 26.45 | +19 24.7 | 2.118 | 3.064 | 7.1 | 21.1 |
| 4 1 | 11 18.14 | +19 17.6 | 2.153 | 3.050 | 9.9 | 21.2 |
| 4 11 | 11 11.34 | +18 52.8 | 2.213 | 3.037 | 12.6 | 21.4 |
| 4 21 | 11 6.54 | +18 11.5 | 2.293 | 3.023 | 15.1 | 21.5 |

**421796** 2014 $QO_{29}$ 3 13.4 204°.85 3°.1/16.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.31 | − 7 42.7 | 1.784 | 2.604 | 14.6 | 21.7 |
| 2 21 | 11 52.60 | − 7 31.2 | 1.701 | 2.601 | 11.2 | 21.4 |
| 3 2 | 11 44.74 | − 7 0.0 | 1.641 | 2.597 | 7.3 | 21.2 |
| 3 12 | 11 35.55 | − 6 11.8 | 1.608 | 2.593 | 3.7 | 20.9 |
| 3 22 | 11 26.05 | − 5 11.8 | 1.603 | 2.588 | 4.2 | 21.0 |
| 4 1 | 11 17.36 | − 4 7.2 | 1.626 | 2.583 | 8.0 | 21.2 |
| 4 11 | 11 10.44 | − 3 5.8 | 1.674 | 2.577 | 12.0 | 21.4 |
| 4 21 | 11 5.91 | − 2 13.9 | 1.744 | 2.571 | 15.5 | 21.6 |

**239474** 2007 $UF_{17}$ 3 13.4 193°.00 0°.3/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.36 | − 0 39.8 | 2.430 | 3.268 | 10.6 | 21.5 |
| 2 21 | 11 49.27 | − 0 6.8 | 2.350 | 3.267 | 7.6 | 21.3 |
| 3 2 | 11 42.72 | + 0 36.6 | 2.295 | 3.265 | 4.3 | 21.1 |
| 3 12 | 11 35.30 | + 1 26.6 | 2.270 | 3.263 | 0.7 | 20.8 |
| 3 22 | 11 27.72 | + 2 18.4 | 2.275 | 3.261 | 3.0 | 21.0 |
| 4 1 | 11 20.73 | + 3 7.0 | 2.309 | 3.259 | 6.5 | 21.2 |
| 4 11 | 11 14.99 | + 3 48.1 | 2.370 | 3.256 | 9.7 | 21.4 |
| 4 21 | 11 10.93 | + 4 18.7 | 2.455 | 3.253 | 12.4 | 21.6 |

**277706** 2006 $DU_{11}$ 3 13.4 145°.72 2°.5/15.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.96 | − 6 26.4 | 1.988 | 2.811 | 13.2 | 20.6 |
| 2 21 | 11 50.68 | − 6 13.9 | 1.911 | 2.814 | 10.0 | 20.4 |
| 3 2 | 11 43.58 | − 5 44.9 | 1.858 | 2.816 | 6.3 | 20.2 |
| 3 12 | 11 35.41 | − 5 2.3 | 1.832 | 2.818 | 3.0 | 20.0 |
| 3 22 | 11 27.04 | − 4 11.0 | 1.835 | 2.821 | 3.6 | 20.0 |
| 4 1 | 11 19.43 | − 3 17.0 | 1.866 | 2.823 | 7.2 | 20.2 |
| 4 11 | 11 13.38 | − 2 26.7 | 1.923 | 2.825 | 10.8 | 20.5 |
| 4 21 | 11 9.39 | − 1 44.9 | 2.002 | 2.826 | 13.9 | 20.7 |

**329320** 2000 $SJ_{355}$ 3 13.4 114°.62 6°.3/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.76 | +21 11.4 | 2.108 | 2.970 | 11.0 | 20.6 |
| 2 21 | 11 53.83 | +22 13.0 | 2.068 | 2.986 | 8.4 | 20.4 |
| 3 2 | 11 45.15 | +23 6.9 | 2.054 | 3.003 | 6.6 | 20.4 |
| 3 12 | 11 35.58 | +23 46.2 | 2.068 | 3.019 | 6.6 | 20.4 |
| 3 22 | 11 26.10 | +24 5.8 | 2.110 | 3.034 | 8.4 | 20.5 |
| 4 1 | 11 17.63 | +24 4.0 | 2.178 | 3.049 | 10.9 | 20.7 |
| 4 11 | 11 10.93 | +23 41.3 | 2.269 | 3.064 | 13.3 | 20.9 |
| 4 21 | 11 6.39 | +23 0.7 | 2.380 | 3.078 | 15.3 | 21.1 |

**99287** 2001 $QN_{165}$ 3 13.4 70°.86 5°.2/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.14 | +16 15.0 | 2.119 | 2.990 | 10.6 | 19.3 |
| 2 21 | 11 49.81 | +17 50.7 | 2.089 | 3.019 | 7.7 | 19.1 |
| 3 2 | 11 42.94 | +19 22.7 | 2.087 | 3.048 | 5.6 | 19.1 |
| 3 12 | 11 35.31 | +20 42.9 | 2.114 | 3.076 | 5.6 | 19.1 |
| 3 22 | 11 27.76 | +21 45.2 | 2.169 | 3.105 | 7.6 | 19.3 |
| 4 1 | 11 21.09 | +22 26.1 | 2.250 | 3.133 | 10.1 | 19.5 |
| 4 11 | 11 15.96 | +22 45.1 | 2.355 | 3.160 | 12.5 | 19.7 |
| 4 21 | 11 12.73 | +22 43.7 | 2.478 | 3.188 | 14.5 | 19.9 |

**54559** 2000 $QR_{128}$ 3 13.4 230°.69 2°.2/15.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.96 | − 5 25.0 | 2.417 | 3.235 | 11.3 | 19.2 |
| 2 21 | 11 50.45 | − 5 29.0 | 2.332 | 3.232 | 8.5 | 19.0 |
| 3 2 | 11 43.39 | − 5 20.7 | 2.272 | 3.229 | 5.4 | 18.8 |
| 3 12 | 11 35.39 | − 5 2.1 | 2.240 | 3.226 | 2.6 | 18.6 |
| 3 22 | 11 27.19 | − 4 36.4 | 2.237 | 3.222 | 3.2 | 18.6 |
| 4 1 | 11 19.58 | − 4 7.6 | 2.264 | 3.219 | 6.3 | 18.8 |
| 4 11 | 11 13.24 | − 3 40.1 | 2.318 | 3.215 | 9.4 | 19.0 |
| 4 21 | 11 8.66 | − 3 17.7 | 2.395 | 3.211 | 12.1 | 19.2 |

**324537** 2006 $WL_{11}$ 3 13.4 55°.85 1°.4/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.51 | + 4 24.1 | 1.517 | 2.382 | 14.3 | 20.1 |
| 2 21 | 11 52.74 | + 4 53.9 | 1.462 | 2.394 | 10.1 | 19.9 |
| 3 2 | 11 44.76 | + 5 33.0 | 1.431 | 2.407 | 5.4 | 19.6 |
| 3 12 | 11 35.56 | + 6 14.5 | 1.427 | 2.419 | 1.4 | 19.4 |
| 3 22 | 11 26.31 | + 6 51.6 | 1.450 | 2.432 | 5.0 | 19.7 |
| 4 1 | 11 18.22 | + 7 18.3 | 1.499 | 2.445 | 9.6 | 20.0 |
| 4 11 | 11 12.20 | + 7 30.6 | 1.571 | 2.459 | 13.6 | 20.2 |
| 4 21 | 11 8.74 | + 7 27.2 | 1.664 | 2.472 | 16.9 | 20.5 |

**437793** 2015 $CC_{42}$ 3 13.4 72°.88 0°.4/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.23 | − 1 3.4 | 2.009 | 2.854 | 12.2 | 21.2 |
| 2 21 | 11 49.37 | − 0 26.2 | 1.940 | 2.861 | 8.8 | 21.0 |
| 3 2 | 11 42.83 | + 0 23.6 | 1.896 | 2.867 | 4.9 | 20.8 |
| 3 12 | 11 35.32 | + 1 21.1 | 1.881 | 2.874 | 0.9 | 20.5 |
| 3 22 | 11 27.69 | + 2 20.5 | 1.893 | 2.880 | 3.4 | 20.7 |
| 4 1 | 11 20.82 | + 3 15.5 | 1.935 | 2.887 | 7.4 | 21.0 |
| 4 11 | 11 15.45 | + 4 1.0 | 2.002 | 2.893 | 10.9 | 21.2 |
| 4 21 | 11 12.03 | + 4 33.6 | 2.091 | 2.900 | 13.9 | 21.4 |

**90980** 1997 $WM_{53}$ 3 13.4 133°.24 4°.5/ 9.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.57 | +11 27.8 | 1.654 | 2.525 | 13.0 | 19.8 |
| 2 21 | 11 53.41 | +12 43.2 | 1.601 | 2.535 | 9.2 | 19.6 |
| 3 2 | 11 45.10 | +14 1.1 | 1.574 | 2.545 | 5.7 | 19.4 |
| 3 12 | 11 35.60 | +15 12.2 | 1.574 | 2.554 | 4.6 | 19.3 |
| 3 22 | 11 26.05 | +16 8.2 | 1.602 | 2.563 | 7.4 | 19.5 |
| 4 1 | 11 17.58 | +16 43.5 | 1.656 | 2.571 | 11.1 | 19.7 |
| 4 11 | 11 11.12 | +16 56.1 | 1.733 | 2.579 | 14.6 | 20.0 |
| 4 21 | 11 7.15 | +16 47.3 | 1.828 | 2.586 | 17.5 | 20.2 |

**371951** 2008 $FX_{19}$ 3 13.4 319°.03 0°.1/13.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.29 | + 1 50.9 | 1.530 | 2.390 | 14.5 | 20.8 |
| 2 21 | 11 52.84 | + 2 0.4 | 1.454 | 2.382 | 10.5 | 20.6 |
| 3 2 | 11 44.98 | + 2 21.7 | 1.400 | 2.374 | 5.8 | 20.3 |
| 3 12 | 11 35.61 | + 2 49.9 | 1.373 | 2.366 | 0.7 | 19.9 |
| 3 22 | 11 25.90 | + 3 19.0 | 1.373 | 2.359 | 4.5 | 20.1 |
| 4 1 | 11 17.14 | + 3 42.8 | 1.399 | 2.352 | 9.5 | 20.4 |
| 4 11 | 11 10.41 | + 3 55.9 | 1.448 | 2.345 | 13.9 | 20.7 |
| 4 21 | 11 6.34 | + 3 55.7 | 1.518 | 2.339 | 17.7 | 20.9 |

**392804** 2012 $TL_{210}$ 3 13.4 138°.81 0°.9/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.90 | + 2 3.4 | 2.197 | 3.050 | 11.0 | 20.4 |
| 2 21 | 11 48.34 | + 3 4.4 | 2.125 | 3.052 | 7.8 | 20.2 |
| 3 2 | 11 42.25 | + 4 15.5 | 2.080 | 3.054 | 4.1 | 20.0 |
| 3 12 | 11 35.26 | + 5 31.2 | 2.063 | 3.056 | 0.9 | 19.7 |
| 3 22 | 11 28.14 | + 6 44.8 | 2.076 | 3.058 | 3.9 | 20.0 |
| 4 1 | 11 21.68 | + 7 50.4 | 2.118 | 3.060 | 7.5 | 20.2 |
| 4 11 | 11 16.55 | + 8 43.1 | 2.185 | 3.062 | 10.8 | 20.4 |
| 4 21 | 11 13.21 | + 9 20.4 | 2.275 | 3.063 | 13.6 | 20.6 |

**23766** 1998 $MZ_{23}$ 3 13.4 154°.51 2°.7/15.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.48 | − 6 55.3 | 1.975 | 2.792 | 13.5 | 17.8 |
| 2 21 | 11 52.46 | − 6 44.1 | 1.900 | 2.799 | 10.2 | 17.6 |
| 3 2 | 11 44.56 | − 6 16.0 | 1.849 | 2.805 | 6.5 | 17.4 |
| 3 12 | 11 35.55 | − 5 33.9 | 1.825 | 2.811 | 3.2 | 17.2 |
| 3 22 | 11 26.38 | − 4 42.5 | 1.831 | 2.816 | 3.7 | 17.2 |
| 4 1 | 11 18.01 | − 3 48.0 | 1.865 | 2.821 | 7.3 | 17.4 |
| 4 11 | 11 11.28 | − 2 57.0 | 1.926 | 2.825 | 10.9 | 17.7 |
| 4 21 | 11 6.71 | − 2 14.2 | 2.009 | 2.829 | 14.0 | 17.9 |

**322843** 2001 $TE_{113}$ 3 13.4 59°.31 9°.1/ 6.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 7.47 | +27 13.6 | 1.724 | 2.577 | 13.5 | 20.2 |
| 2 21 | 11 59.03 | +27 54.6 | 1.675 | 2.579 | 11.0 | 20.1 |
| 3 2 | 11 48.15 | +28 20.4 | 1.649 | 2.582 | 9.3 | 20.0 |
| 3 12 | 11 35.98 | +28 22.3 | 1.650 | 2.584 | 9.4 | 20.0 |
| 3 22 | 11 23.93 | +27 55.9 | 1.676 | 2.586 | 11.2 | 20.1 |
| 4 1 | 11 13.32 | +27 1.0 | 1.728 | 2.589 | 13.8 | 20.2 |
| 4 11 | 11 5.13 | +25 41.6 | 1.802 | 2.591 | 16.4 | 20.4 |
| 4 21 | 10 59.83 | +24 3.5 | 1.894 | 2.594 | 18.7 | 20.6 |

**8716** Ginestra 3 13.4 37°.67 3°.9/18.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 51.78 | −12 32.4 | 2.064 | 2.864 | 13.6 | 17.9 |
| 2 21 | 11 47.65 | −12 5.1 | 1.989 | 2.871 | 10.7 | 17.8 |
| 3 2 | 11 41.90 | −11 16.4 | 1.937 | 2.879 | 7.5 | 17.6 |
| 3 12 | 11 35.22 | −10 9.0 | 1.911 | 2.887 | 4.6 | 17.4 |
| 3 22 | 11 28.41 | − 8 48.4 | 1.914 | 2.895 | 4.2 | 17.4 |
| 4 1 | 11 22.31 | − 7 21.5 | 1.944 | 2.903 | 6.8 | 17.6 |
| 4 11 | 11 17.63 | − 5 56.2 | 2.002 | 2.912 | 9.9 | 17.8 |
| 4 21 | 11 14.83 | − 4 39.1 | 2.082 | 2.921 | 12.9 | 18.0 |

**489496** 2007 $JS_{8}$ 3 13.4 213°.69 1°.4/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.78 | + 3 58.8 | 1.893 | 2.746 | 12.5 | 22.7 |
| 2 21 | 11 53.56 | + 4 47.9 | 1.811 | 2.738 | 8.9 | 22.5 |
| 3 2 | 11 45.26 | + 5 47.1 | 1.755 | 2.729 | 4.8 | 22.2 |
| 3 12 | 11 35.66 | + 6 50.2 | 1.727 | 2.719 | 1.4 | 21.9 |
| 3 22 | 11 25.76 | + 7 50.0 | 1.729 | 2.709 | 4.8 | 22.2 |
| 4 1 | 11 16.64 | + 8 40.0 | 1.758 | 2.697 | 9.0 | 22.4 |
| 4 11 | 11 9.23 | + 9 15.4 | 1.814 | 2.685 | 12.9 | 22.6 |
| 4 21 | 11 4.12 | + 9 33.9 | 1.890 | 2.672 | 16.2 | 22.8 |

**472506** 2015 $CT_{29}$ 3 13.4 194°.90 1°.3/12.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.28 | + 3 29.1 | 2.030 | 2.887 | 11.6 | 21.4 |
| 2 21 | 11 49.45 | + 4 25.4 | 1.958 | 2.887 | 8.2 | 21.2 |
| 3 2 | 11 42.91 | + 5 31.3 | 1.911 | 2.886 | 4.3 | 21.0 |
| 3 12 | 11 35.37 | + 6 40.7 | 1.893 | 2.886 | 1.3 | 20.8 |
| 3 22 | 11 27.67 | + 7 46.9 | 1.904 | 2.885 | 4.3 | 21.0 |
| 4 1 | 11 20.68 | + 8 43.7 | 1.944 | 2.884 | 8.2 | 21.2 |
| 4 11 | 11 15.18 | + 9 26.5 | 2.008 | 2.883 | 11.6 | 21.4 |
| 4 21 | 11 11.63 | + 9 53.1 | 2.094 | 2.882 | 14.6 | 21.6 |

**348842** 2006 $SL_{15}$ 3 13.4 182°.18 1°.1/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.39 | − 3 39.9 | 2.699 | 3.524 | 10.1 | 21.8 |
| 2 21 | 11 48.48 | − 3 10.0 | 2.617 | 3.524 | 7.4 | 21.7 |
| 3 2 | 11 42.26 | − 2 28.9 | 2.561 | 3.525 | 4.4 | 21.5 |
| 3 12 | 11 35.29 | − 1 39.6 | 2.534 | 3.524 | 1.5 | 21.3 |
| 3 22 | 11 28.18 | − 0 46.3 | 2.537 | 3.524 | 2.6 | 21.3 |
| 4 1 | 11 21.59 | + 0 6.4 | 2.570 | 3.523 | 5.7 | 21.5 |
| 4 11 | 11 16.10 | + 0 54.1 | 2.631 | 3.522 | 8.7 | 21.7 |
| 4 21 | 11 12.13 | + 1 33.5 | 2.716 | 3.520 | 11.2 | 21.9 |

**164546** 2006 $JY_{39}$ 3 13.4 158°.60 1°.0/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.70 | + 3 41.9 | 2.288 | 3.141 | 10.6 | 20.7 |
| 2 21 | 11 49.57 | + 4 27.3 | 2.217 | 3.144 | 7.5 | 20.5 |
| 3 2 | 11 42.91 | + 5 20.6 | 2.173 | 3.147 | 4.0 | 20.2 |
| 3 12 | 11 35.37 | + 6 16.5 | 2.158 | 3.150 | 1.0 | 20.0 |
| 3 22 | 11 27.72 | + 7 9.8 | 2.172 | 3.153 | 3.8 | 20.2 |
| 4 1 | 11 20.73 | + 7 55.3 | 2.215 | 3.155 | 7.3 | 20.5 |
| 4 11 | 11 15.07 | + 8 29.3 | 2.284 | 3.157 | 10.5 | 20.7 |
| 4 21 | 11 11.19 | + 8 49.8 | 2.375 | 3.159 | 13.2 | 20.8 |

**341811** 2007 $XS_{49}$ 3 13.4 96°.71 0°.3/13.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.11 | − 0 17.4 | 2.373 | 3.214 | 10.7 | 21.4 |
| 2 21 | 11 49.06 | + 0 13.7 | 2.306 | 3.225 | 7.7 | 21.2 |
| 3 2 | 11 42.59 | + 0 54.6 | 2.265 | 3.236 | 4.3 | 21.0 |
| 3 12 | 11 35.33 | + 1 41.3 | 2.254 | 3.247 | 0.7 | 20.7 |
| 3 22 | 11 28.00 | + 2 29.0 | 2.271 | 3.257 | 3.0 | 21.0 |
| 4 1 | 11 21.33 | + 3 13.0 | 2.318 | 3.268 | 6.5 | 21.2 |
| 4 11 | 11 15.94 | + 3 49.2 | 2.392 | 3.279 | 9.6 | 21.4 |
| 4 21 | 11 12.25 | + 4 15.0 | 2.489 | 3.289 | 12.2 | 21.6 |

**32835** 1992 $EO_{5}$ 3 13.4 227°.62 3°.5/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.76 | + 8 14.2 | 1.706 | 2.575 | 12.8 | 18.8 |
| 2 21 | 11 52.30 | + 9 34.3 | 1.632 | 2.566 | 9.1 | 18.5 |
| 3 2 | 11 44.64 | +11 2.7 | 1.583 | 2.557 | 5.2 | 18.3 |
| 3 12 | 11 35.61 | +12 30.3 | 1.561 | 2.547 | 3.6 | 18.1 |
| 3 22 | 11 26.28 | +13 47.7 | 1.568 | 2.537 | 6.7 | 18.3 |
| 4 1 | 11 17.79 | +14 47.3 | 1.602 | 2.526 | 10.9 | 18.5 |
| 4 11 | 11 11.15 | +15 24.6 | 1.659 | 2.514 | 14.7 | 18.7 |
| 4 21 | 11 6.95 | +15 38.8 | 1.735 | 2.503 | 17.9 | 18.9 |

**437565** 2014 $AH_{8}$ 3 13.4 2°.99 1°.2/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.83 | + 4 16.3 | 1.849 | 2.713 | 12.2 | 20.9 |
| 2 21 | 11 49.25 | + 4 51.7 | 1.781 | 2.713 | 8.6 | 20.7 |
| 3 2 | 11 42.85 | + 5 35.7 | 1.737 | 2.713 | 4.6 | 20.5 |
| 3 12 | 11 35.39 | + 6 22.6 | 1.721 | 2.713 | 1.3 | 20.2 |
| 3 22 | 11 27.77 | + 7 6.3 | 1.732 | 2.714 | 4.5 | 20.5 |
| 4 1 | 11 20.96 | + 7 41.0 | 1.771 | 2.716 | 8.5 | 20.7 |
| 4 11 | 11 15.74 | + 8 2.8 | 1.834 | 2.718 | 12.1 | 20.9 |
| 4 21 | 11 12.61 | + 8 9.7 | 1.918 | 2.721 | 15.2 | 21.1 |

**374041** 2004 $JB_{41}$ 3 13.4 276°.26 1°.5/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.33 | − 5 26.5 | 1.895 | 2.727 | 13.4 | 20.7 |
| 2 21 | 11 49.82 | − 4 34.1 | 1.792 | 2.703 | 10.0 | 20.5 |
| 3 2 | 11 43.32 | − 3 20.9 | 1.714 | 2.679 | 6.1 | 20.2 |
| 3 12 | 11 35.47 | − 1 51.2 | 1.663 | 2.654 | 2.0 | 19.9 |
| 3 22 | 11 27.17 | − 0 12.0 | 1.641 | 2.629 | 3.6 | 19.9 |
| 4 1 | 11 19.45 | + 1 27.8 | 1.648 | 2.604 | 8.1 | 20.1 |
| 4 11 | 11 13.25 | + 2 59.2 | 1.681 | 2.578 | 12.3 | 20.3 |
| 4 21 | 11 9.22 | + 4 15.6 | 1.735 | 2.552 | 16.0 | 20.5 |

**172031** 2001 $VL_{112}$ 3 13.4 171°.07 0°.5/12.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.51 | + 3 1.8 | 2.967 | 3.808 | 8.8 | 21.2 |
| 2 21 | 11 49.15 | + 3 32.9 | 2.890 | 3.812 | 6.2 | 21.0 |
| 3 2 | 11 42.59 | + 4 10.1 | 2.842 | 3.815 | 3.3 | 20.8 |
| 3 12 | 11 35.36 | + 4 49.8 | 2.824 | 3.817 | 0.6 | 20.6 |
| 3 22 | 11 28.03 | + 5 28.4 | 2.837 | 3.819 | 2.9 | 20.8 |
| 4 1 | 11 21.20 | + 6 2.3 | 2.880 | 3.821 | 5.8 | 21.0 |
| 4 11 | 11 15.42 | + 6 28.6 | 2.951 | 3.822 | 8.5 | 21.1 |
| 4 21 | 11 11.04 | + 6 45.6 | 3.045 | 3.823 | 10.7 | 21.3 |

**327271** 2005 $SJ_{211}$ 3 13.4 217°.17 0°.8/12.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.38 | + 3 42.8 | 2.042 | 2.891 | 11.9 | 21.3 |
| 2 21 | 11 53.13 | + 4 3.8 | 1.961 | 2.885 | 8.5 | 21.0 |
| 3 2 | 11 44.98 | + 4 32.6 | 1.906 | 2.879 | 4.6 | 20.8 |
| 3 12 | 11 35.67 | + 5 4.8 | 1.879 | 2.872 | 0.8 | 20.5 |
| 3 22 | 11 26.12 | + 5 35.4 | 1.882 | 2.864 | 4.0 | 20.7 |
| 4 1 | 11 17.31 | + 5 59.4 | 1.913 | 2.857 | 8.1 | 21.0 |
| 4 11 | 11 10.10 | + 6 13.2 | 1.970 | 2.849 | 11.7 | 21.2 |
| 4 21 | 11 5.01 | + 6 14.9 | 2.050 | 2.840 | 14.8 | 21.4 |

**466830** 2015 $BB_{204}$ 3 13.4 100°.90 1°.5/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.96 | − 4 0.8 | 1.975 | 2.808 | 12.9 | 21.6 |
| 2 21 | 11 50.63 | − 3 36.6 | 1.906 | 2.818 | 9.5 | 21.4 |
| 3 2 | 11 43.56 | − 2 57.7 | 1.863 | 2.828 | 5.7 | 21.2 |
| 3 12 | 11 35.49 | − 2 8.0 | 1.847 | 2.837 | 2.0 | 20.9 |
| 3 22 | 11 27.31 | − 1 13.0 | 1.860 | 2.847 | 3.4 | 21.0 |
| 4 1 | 11 19.93 | − 0 18.9 | 1.901 | 2.857 | 7.2 | 21.3 |
| 4 11 | 11 14.13 | + 0 28.5 | 1.968 | 2.866 | 10.8 | 21.5 |
| 4 21 | 11 10.35 | + 1 5.2 | 2.058 | 2.875 | 13.8 | 21.8 |

**304124** 2006 $KM_5$ 3 13.4 63°.28 6°.0/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.10 | +14 33.0 | 1.381 | 2.261 | 14.5 | 20.2 |
| 2 21 | 11 54.11 | +15 40.8 | 1.333 | 2.269 | 10.5 | 20.0 |
| 3 2 | 11 45.62 | +16 47.1 | 1.310 | 2.278 | 7.0 | 19.8 |
| 3 12 | 11 35.75 | +17 41.5 | 1.311 | 2.287 | 6.2 | 19.8 |
| 3 22 | 11 25.86 | +18 15.4 | 1.339 | 2.296 | 9.1 | 19.9 |
| 4 1 | 11 17.31 | +18 24.3 | 1.390 | 2.305 | 12.9 | 20.2 |
| 4 11 | 11 11.12 | +18 7.9 | 1.463 | 2.314 | 16.5 | 20.4 |
| 4 21 | 11 7.78 | +17 29.0 | 1.554 | 2.323 | 19.6 | 20.7 |

**379024** 2008 $VR_{38}$ 3 13.4 94°.23 0°.3/13.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.21 | + 0 2.5 | 2.145 | 2.987 | 11.6 | 21.9 |
| 2 21 | 11 50.64 | + 0 29.8 | 2.083 | 3.003 | 8.3 | 21.8 |
| 3 2 | 11 43.50 | + 1 7.4 | 2.047 | 3.018 | 4.6 | 21.6 |
| 3 12 | 11 35.48 | + 1 50.8 | 2.040 | 3.033 | 0.7 | 21.3 |
| 3 22 | 11 27.42 | + 2 35.0 | 2.062 | 3.048 | 3.3 | 21.5 |
| 4 1 | 11 20.15 | + 3 15.0 | 2.113 | 3.062 | 7.0 | 21.8 |
| 4 11 | 11 14.35 | + 3 46.6 | 2.190 | 3.077 | 10.3 | 22.0 |
| 4 21 | 11 10.43 | + 4 7.2 | 2.289 | 3.091 | 13.1 | 22.2 |

**21838** 1999 $TM_{99}$ 3 13.4 180°.60 3°.5/ 9.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.40 | +11 40.2 | 2.360 | 3.224 | 9.9 | 19.3 |
| 2 21 | 11 50.07 | +12 52.6 | 2.294 | 3.225 | 7.0 | 19.2 |
| 3 2 | 11 43.20 | +14 7.1 | 2.256 | 3.226 | 4.4 | 19.0 |
| 3 12 | 11 35.45 | +15 17.1 | 2.247 | 3.226 | 3.7 | 18.9 |
| 3 22 | 11 27.57 | +16 16.8 | 2.268 | 3.225 | 5.9 | 19.1 |
| 4 1 | 11 20.35 | +17 1.3 | 2.317 | 3.225 | 8.8 | 19.3 |
| 4 11 | 11 14.47 | +17 28.4 | 2.391 | 3.223 | 11.5 | 19.4 |
| 4 21 | 11 10.37 | +17 37.7 | 2.486 | 3.221 | 13.9 | 19.6 |

**130924** 2000 $WH_{17}$ 3 13.4 165°.84 2°.5/11.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.84 | + 7 26.5 | 1.932 | 2.791 | 12.0 | 20.4 |
| 2 21 | 11 53.44 | + 8 19.6 | 1.867 | 2.796 | 8.5 | 20.2 |
| 3 2 | 11 45.12 | + 9 18.4 | 1.827 | 2.801 | 4.7 | 19.9 |
| 3 12 | 11 35.69 | +10 16.3 | 1.817 | 2.805 | 2.5 | 19.8 |
| 3 22 | 11 26.14 | +11 6.4 | 1.835 | 2.809 | 5.4 | 20.0 |
| 4 1 | 11 17.48 | +11 43.5 | 1.882 | 2.811 | 9.2 | 20.2 |
| 4 11 | 11 10.55 | +12 4.2 | 1.954 | 2.813 | 12.6 | 20.4 |
| 4 21 | 11 5.84 | +12 8.0 | 2.046 | 2.815 | 15.5 | 20.7 |

**20268** Racollier 3 13.4 144°.40 0°.6/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.18 | − 2 31.8 | 1.772 | 2.613 | 13.7 | 18.8 |
| 2 21 | 11 51.68 | − 1 40.2 | 1.703 | 2.621 | 10.0 | 18.6 |
| 3 2 | 11 44.21 | − 0 32.2 | 1.659 | 2.629 | 5.6 | 18.4 |
| 3 12 | 11 35.59 | + 0 46.3 | 1.643 | 2.636 | 1.1 | 18.1 |
| 3 22 | 11 26.82 | + 2 7.6 | 1.656 | 2.643 | 3.8 | 18.3 |
| 4 1 | 11 18.96 | + 3 23.5 | 1.697 | 2.649 | 8.2 | 18.5 |
| 4 11 | 11 12.86 | + 4 27.2 | 1.763 | 2.654 | 12.1 | 18.8 |
| 4 21 | 11 9.03 | + 5 14.8 | 1.851 | 2.659 | 15.5 | 19.0 |

**172813** 2004 $GD_{55}$ 3 13.4 86°.99 1°.8/15.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.99 | − 5 45.6 | 2.258 | 3.082 | 11.8 | 20.8 |
| 2 21 | 11 48.41 | − 5 14.0 | 2.182 | 3.087 | 8.8 | 20.6 |
| 3 2 | 11 42.31 | − 4 27.6 | 2.131 | 3.092 | 5.4 | 20.4 |
| 3 12 | 11 35.35 | − 3 29.9 | 2.107 | 3.096 | 2.2 | 20.2 |
| 3 22 | 11 28.25 | − 2 25.9 | 2.114 | 3.101 | 3.1 | 20.3 |
| 4 1 | 11 21.79 | − 1 21.6 | 2.149 | 3.105 | 6.4 | 20.5 |
| 4 11 | 11 16.65 | − 0 22.5 | 2.210 | 3.110 | 9.7 | 20.7 |
| 4 21 | 11 13.25 | + 0 26.9 | 2.295 | 3.114 | 12.5 | 20.9 |

**266322** 2007 $CU_{65}$ 3 13.4 116°.48 0°.4/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.40 | − 0 38.5 | 1.941 | 2.784 | 12.7 | 22.0 |
| 2 21 | 11 51.65 | − 0 5.5 | 1.877 | 2.796 | 9.1 | 21.8 |
| 3 2 | 11 44.11 | + 0 39.6 | 1.838 | 2.809 | 5.1 | 21.6 |
| 3 12 | 11 35.58 | + 1 32.1 | 1.828 | 2.821 | 0.8 | 21.3 |
| 3 22 | 11 26.96 | + 2 25.9 | 1.846 | 2.832 | 3.6 | 21.5 |
| 4 1 | 11 19.21 | + 3 15.0 | 1.893 | 2.843 | 7.6 | 21.8 |
| 4 11 | 11 13.09 | + 3 54.3 | 1.965 | 2.854 | 11.2 | 22.0 |
| 4 21 | 11 9.07 | + 4 21.0 | 2.060 | 2.865 | 14.2 | 22.3 |

**377855** 2006 $BP_{211}$ 3 13.4 114°.46 1°.7/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.99 | + 4 36.1 | 2.023 | 2.882 | 11.5 | 21.1 |
| 2 21 | 11 49.91 | + 5 37.0 | 1.960 | 2.890 | 8.1 | 20.9 |
| 3 2 | 11 43.16 | + 6 46.1 | 1.923 | 2.899 | 4.3 | 20.7 |
| 3 12 | 11 35.46 | + 7 57.0 | 1.915 | 2.907 | 1.7 | 20.5 |
| 3 22 | 11 27.67 | + 9 2.7 | 1.937 | 2.915 | 4.6 | 20.8 |
| 4 1 | 11 20.66 | + 9 57.4 | 1.986 | 2.923 | 8.3 | 21.0 |
| 4 11 | 11 15.17 | +10 37.0 | 2.060 | 2.930 | 11.6 | 21.2 |
| 4 21 | 11 11.63 | +10 59.8 | 2.156 | 2.938 | 14.4 | 21.4 |

**80546** 2000 $AO_{85}$ 3 13.4 88°.49 0°.7/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.73 | − 1 50.3 | 1.631 | 2.479 | 14.5 | 19.9 |
| 2 21 | 11 52.12 | − 1 14.4 | 1.573 | 2.494 | 10.4 | 19.7 |
| 3 2 | 11 44.45 | − 0 23.0 | 1.539 | 2.509 | 5.9 | 19.5 |
| 3 12 | 11 35.63 | + 0 38.2 | 1.531 | 2.524 | 1.2 | 19.2 |
| 3 22 | 11 26.75 | + 1 41.8 | 1.551 | 2.539 | 3.9 | 19.4 |
| 4 1 | 11 18.92 | + 2 40.1 | 1.599 | 2.553 | 8.4 | 19.7 |
| 4 11 | 11 13.00 | + 3 27.1 | 1.671 | 2.568 | 12.4 | 20.0 |
| 4 21 | 11 9.47 | + 3 59.2 | 1.765 | 2.582 | 15.8 | 20.3 |

**230685** 2003 $TK_{39}$ 3 13.4 47°.02 1°.9/15.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.13 | − 4 16.3 | 1.991 | 2.822 | 12.9 | 20.3 |
| 2 21 | 11 50.84 | − 4 8.0 | 1.913 | 2.823 | 9.6 | 20.1 |
| 3 2 | 11 43.74 | − 3 45.2 | 1.860 | 2.823 | 5.9 | 19.9 |
| 3 12 | 11 35.55 | − 3 11.1 | 1.835 | 2.824 | 2.4 | 19.6 |
| 3 22 | 11 27.17 | − 2 30.3 | 1.838 | 2.825 | 3.4 | 19.7 |
| 4 1 | 11 19.53 | − 1 48.2 | 1.869 | 2.825 | 7.2 | 19.9 |
| 4 11 | 11 13.43 | − 1 10.6 | 1.926 | 2.826 | 10.8 | 20.2 |
| 4 21 | 11 9.40 | − 0 41.6 | 2.005 | 2.827 | 14.0 | 20.4 |

**211864** 2004 $GF_{35}$ 3 13.4 288°.30 0°.2/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.19 | + 1 3.6 | 2.237 | 3.084 | 11.1 | 21.3 |
| 2 21 | 11 49.44 | + 1 36.4 | 2.139 | 3.061 | 8.0 | 21.0 |
| 3 2 | 11 43.00 | + 2 19.8 | 2.066 | 3.038 | 4.4 | 20.8 |
| 3 12 | 11 35.47 | + 3 9.8 | 2.022 | 3.015 | 0.5 | 20.4 |
| 3 22 | 11 27.60 | + 4 1.2 | 2.007 | 2.992 | 3.5 | 20.6 |
| 4 1 | 11 20.25 | + 4 48.5 | 2.020 | 2.969 | 7.4 | 20.8 |
| 4 11 | 11 14.20 | + 5 26.9 | 2.060 | 2.945 | 11.0 | 21.0 |
| 4 21 | 11 9.98 | + 5 53.1 | 2.122 | 2.922 | 14.0 | 21.2 |

**455255** 2001 $TV_{160}$ 3 13.4 162°.64 0°.6/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.71 | − 1 40.5 | 1.887 | 2.724 | 13.2 | 22.6 |
| 2 21 | 11 53.41 | − 1 2.0 | 1.815 | 2.731 | 9.6 | 22.4 |
| 3 2 | 11 45.14 | − 0 9.3 | 1.768 | 2.737 | 5.4 | 22.2 |
| 3 12 | 11 35.73 | + 0 52.6 | 1.750 | 2.743 | 1.1 | 21.9 |
| 3 22 | 11 26.16 | + 1 57.0 | 1.761 | 2.748 | 3.7 | 22.1 |
| 4 1 | 11 17.46 | + 2 57.1 | 1.801 | 2.751 | 8.0 | 22.3 |
| 4 11 | 11 10.50 | + 3 46.9 | 1.867 | 2.754 | 11.8 | 22.6 |
| 4 21 | 11 5.79 | + 4 22.9 | 1.955 | 2.756 | 15.0 | 22.8 |

**96019** 2004 $PK_9$ 3 13.4 130°.25 1°.2/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.12 | + 2 55.4 | 2.350 | 3.199 | 10.5 | 20.5 |
| 2 21 | 11 49.79 | + 4 7.4 | 2.289 | 3.214 | 7.4 | 20.4 |
| 3 2 | 11 43.02 | + 5 28.0 | 2.255 | 3.229 | 3.9 | 20.2 |
| 3 12 | 11 35.45 | + 6 51.0 | 2.251 | 3.244 | 1.2 | 20.0 |
| 3 22 | 11 27.84 | + 8 10.0 | 2.278 | 3.257 | 3.9 | 20.2 |
| 4 1 | 11 20.92 | + 9 19.3 | 2.335 | 3.270 | 7.3 | 20.4 |
| 4 11 | 11 15.32 | +10 14.8 | 2.418 | 3.283 | 10.3 | 20.7 |
| 4 21 | 11 11.45 | +10 54.6 | 2.524 | 3.295 | 12.8 | 20.9 |

**39553** 1992 $EO_{12}$ 3 13.4 148°.76 1°.8/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.57 | + 5 36.3 | 2.171 | 3.028 | 10.9 | 19.0 |
| 2 21 | 11 50.26 | + 6 29.7 | 2.104 | 3.034 | 7.7 | 18.8 |
| 3 2 | 11 43.34 | + 7 29.8 | 2.064 | 3.039 | 4.1 | 18.6 |
| 3 12 | 11 35.50 | + 8 30.8 | 2.053 | 3.044 | 1.8 | 18.4 |
| 3 22 | 11 27.55 | + 9 26.8 | 2.072 | 3.049 | 4.5 | 18.6 |
| 4 1 | 11 20.34 | +10 12.3 | 2.119 | 3.053 | 8.0 | 18.8 |
| 4 11 | 11 14.55 | +10 44.0 | 2.191 | 3.057 | 11.2 | 19.0 |
| 4 21 | 11 10.64 | +11 0.4 | 2.285 | 3.061 | 13.9 | 19.2 |

**75081** 1999 $VC_{25}$ 3 13.4 90°.87 3°.6/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.76 | + 9 14.0 | 1.626 | 2.496 | 13.3 | 19.1 |
| 2 21 | 11 52.80 | +10 25.9 | 1.581 | 2.516 | 9.3 | 18.9 |
| 3 2 | 11 44.78 | +11 41.7 | 1.561 | 2.535 | 5.3 | 18.7 |
| 3 12 | 11 35.68 | +12 52.6 | 1.568 | 2.553 | 3.8 | 18.7 |
| 3 22 | 11 26.62 | +13 50.6 | 1.603 | 2.572 | 6.7 | 18.9 |
| 4 1 | 11 18.70 | +14 29.9 | 1.665 | 2.590 | 10.5 | 19.1 |
| 4 11 | 11 12.77 | +14 48.1 | 1.750 | 2.607 | 13.9 | 19.4 |
| 4 21 | 11 9.25 | +14 46.0 | 1.854 | 2.625 | 16.8 | 19.6 |

**30266** 2000 $HW_{48}$ 3 13.4 159°.37 6°.0/ 7.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.83 | +20 6.7 | 2.150 | 3.011 | 10.9 | 19.1 |
| 2 21 | 11 54.01 | +21 8.6 | 2.097 | 3.017 | 8.3 | 19.0 |
| 3 2 | 11 45.38 | +22 4.5 | 2.071 | 3.023 | 6.3 | 18.9 |
| 3 12 | 11 35.76 | +22 47.2 | 2.073 | 3.028 | 6.3 | 18.9 |
| 3 22 | 11 26.11 | +23 11.5 | 2.104 | 3.033 | 8.2 | 19.0 |
| 4 1 | 11 17.39 | +23 14.7 | 2.161 | 3.037 | 10.8 | 19.2 |
| 4 11 | 11 10.37 | +22 57.0 | 2.241 | 3.040 | 13.3 | 19.3 |
| 4 21 | 11 5.49 | +22 20.8 | 2.341 | 3.043 | 15.5 | 19.5 |

**73394** 2002 $LB_{16}$ 3 13.4 3°.33 8°.3/21.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.51 | −18 59.6 | 1.573 | 2.353 | 18.1 | 18.7 |
| 2 21 | 11 49.50 | −19 31.8 | 1.496 | 2.353 | 15.2 | 18.5 |
| 3 2 | 11 43.23 | −19 34.3 | 1.439 | 2.353 | 12.0 | 18.3 |
| 3 12 | 11 35.52 | −19 5.8 | 1.405 | 2.354 | 9.3 | 18.1 |
| 3 22 | 11 27.48 | −18 9.1 | 1.394 | 2.355 | 8.3 | 18.1 |
| 4 1 | 11 20.33 | −16 51.4 | 1.408 | 2.358 | 9.7 | 18.1 |
| 4 11 | 11 15.11 | −15 23.2 | 1.445 | 2.361 | 12.6 | 18.3 |
| 4 21 | 11 12.44 | −13 55.0 | 1.504 | 2.365 | 15.8 | 18.5 |

**47922** 2000 $GK_{109}$ 3 13.4 95°.75 0°.0/13.5 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.13 | − 0 55.4 | 2.145 | 2.990 | 11.6 | 18.3 |
| 2 21 | 11 48.55 | + 0 1.4 | 2.076 | 2.997 | 8.3 | 18.1 |
| 3 2 | 11 42.41 | + 1 10.8 | 2.034 | 3.005 | 4.5 | 17.9 |
| 3 12 | 11 35.40 | + 2 27.2 | 2.019 | 3.013 | 0.6 | 17.6 |
| 3 22 | 11 28.27 | + 3 44.2 | 2.035 | 3.020 | 3.4 | 17.9 |
| 4 1 | 11 21.85 | + 4 55.3 | 2.079 | 3.028 | 7.2 | 18.1 |
| 4 11 | 11 16.80 | + 5 55.2 | 2.149 | 3.035 | 10.5 | 18.3 |
| 4 21 | 11 13.56 | + 6 40.5 | 2.242 | 3.043 | 13.4 | 18.5 |

**173445** 2000 $NC_{18}$ 3 13.4 163°.28 0°.2/13.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.94 | + 0 21.7 | 2.952 | 3.785 | 9.1 | 20.9 |
| 2 21 | 11 49.47 | + 0 43.6 | 2.876 | 3.791 | 6.5 | 20.7 |
| 3 2 | 11 42.80 | + 1 12.9 | 2.826 | 3.796 | 3.6 | 20.5 |
| 3 12 | 11 35.45 | + 1 46.5 | 2.807 | 3.800 | 0.6 | 20.2 |
| 3 22 | 11 28.00 | + 2 21.2 | 2.819 | 3.804 | 2.6 | 20.4 |
| 4 1 | 11 21.06 | + 2 53.3 | 2.861 | 3.808 | 5.5 | 20.6 |
| 4 11 | 11 15.18 | + 3 19.7 | 2.930 | 3.811 | 8.2 | 20.8 |
| 4 21 | 11 10.71 | + 3 38.3 | 3.025 | 3.813 | 10.5 | 21.0 |

**68786** 2002 $FA_{13}$ 3 13.4 267°.40 0°.0/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.10 | − 0 39.6 | 2.067 | 2.913 | 11.9 | 19.9 |
| 2 21 | 11 49.47 | + 0 13.4 | 1.974 | 2.895 | 8.6 | 19.7 |
| 3 2 | 11 43.05 | + 1 20.7 | 1.906 | 2.878 | 4.8 | 19.4 |
| 3 12 | 11 35.50 | + 2 37.2 | 1.867 | 2.860 | 0.6 | 19.0 |
| 3 22 | 11 27.62 | + 3 56.2 | 1.857 | 2.842 | 3.7 | 19.3 |
| 4 1 | 11 20.32 | + 5 10.5 | 1.875 | 2.824 | 7.8 | 19.5 |
| 4 11 | 11 14.43 | + 6 13.8 | 1.919 | 2.805 | 11.6 | 19.7 |
| 4 21 | 11 10.50 | + 7 2.1 | 1.986 | 2.787 | 14.8 | 19.8 |

**462150** 2007 $TW_{73}$ 3 13.4 80°.29 1°.5/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.94 | + 3 22.1 | 1.493 | 2.357 | 14.6 | 21.6 |
| 2 21 | 11 53.04 | + 4 16.0 | 1.445 | 2.377 | 10.3 | 21.3 |
| 3 2 | 11 44.96 | + 5 20.9 | 1.422 | 2.397 | 5.4 | 21.1 |
| 3 12 | 11 35.72 | + 6 28.5 | 1.424 | 2.417 | 1.5 | 20.9 |
| 3 22 | 11 26.51 | + 7 30.4 | 1.455 | 2.437 | 5.2 | 21.2 |
| 4 1 | 11 18.51 | + 8 19.3 | 1.512 | 2.456 | 9.7 | 21.5 |
| 4 11 | 11 12.62 | + 8 50.9 | 1.592 | 2.475 | 13.7 | 21.8 |
| 4 21 | 11 9.28 | + 9 3.8 | 1.692 | 2.494 | 17.0 | 22.0 |

**217899** 2001 $SQ_{49}$ 3 13.4 194°.97 1°.0/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.37 | + 3 3.8 | 2.487 | 3.331 | 10.2 | 22.1 |
| 2 21 | 11 50.73 | + 3 59.0 | 2.405 | 3.328 | 7.2 | 21.9 |
| 3 2 | 11 43.59 | + 5 2.6 | 2.351 | 3.324 | 3.8 | 21.7 |
| 3 12 | 11 35.56 | + 6 9.7 | 2.327 | 3.320 | 1.0 | 21.5 |
| 3 22 | 11 27.35 | + 7 14.8 | 2.334 | 3.314 | 3.7 | 21.7 |
| 4 1 | 11 19.72 | + 8 12.5 | 2.371 | 3.308 | 7.1 | 21.9 |
| 4 11 | 11 13.34 | + 8 58.7 | 2.435 | 3.301 | 10.2 | 22.1 |
| 4 21 | 11 8.67 | + 9 31.2 | 2.522 | 3.293 | 12.8 | 22.3 |

**402089** 2003 $UP_{255}$ 3 13.4 110°.35 2°.8/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.55 | + 7 32.1 | 1.723 | 2.587 | 13.0 | 21.3 |
| 2 21 | 11 53.30 | + 8 30.7 | 1.672 | 2.604 | 9.1 | 21.1 |
| 3 2 | 11 45.06 | + 9 34.8 | 1.646 | 2.620 | 5.0 | 20.9 |
| 3 12 | 11 35.74 | +10 36.8 | 1.647 | 2.636 | 2.8 | 20.8 |
| 3 22 | 11 26.41 | +11 29.3 | 1.678 | 2.651 | 5.8 | 21.0 |
| 4 1 | 11 18.16 | +12 6.6 | 1.735 | 2.666 | 9.7 | 21.3 |
| 4 11 | 11 11.81 | +12 26.0 | 1.817 | 2.680 | 13.2 | 21.5 |
| 4 21 | 11 7.83 | +12 27.1 | 1.918 | 2.694 | 16.2 | 21.7 |

**157287** 2004 $RS_{292}$ 3 13.4 253°.29 7°.0/ 6.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.02 | +18 21.8 | 1.768 | 2.637 | 12.4 | 20.6 |
| 2 21 | 11 54.83 | +19 58.5 | 1.689 | 2.615 | 9.5 | 20.4 |
| 3 2 | 11 46.18 | +21 34.4 | 1.635 | 2.591 | 7.3 | 20.2 |
| 3 12 | 11 35.92 | +22 58.5 | 1.610 | 2.567 | 7.5 | 20.1 |
| 3 22 | 11 25.17 | +24 1.2 | 1.611 | 2.542 | 10.1 | 20.2 |
| 4 1 | 11 15.22 | +24 36.1 | 1.638 | 2.516 | 13.5 | 20.4 |
| 4 11 | 11 7.20 | +24 41.5 | 1.686 | 2.489 | 16.8 | 20.5 |
| 4 21 | 11 1.83 | +24 19.9 | 1.751 | 2.461 | 19.7 | 20.7 |

**385301** 2001 $UU_{226}$ 3 13.4 119°.42 1°.3/11.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 53.84 | + 4 38.5 | 2.502 | 3.355 | 9.8 | 22.0 |
| 2 21 | 11 48.84 | + 5 31.3 | 2.439 | 3.367 | 6.9 | 21.8 |
| 3 2 | 11 42.50 | + 6 30.5 | 2.404 | 3.378 | 3.6 | 21.6 |
| 3 12 | 11 35.42 | + 7 30.9 | 2.398 | 3.390 | 1.3 | 21.4 |
| 3 22 | 11 28.28 | + 8 27.4 | 2.423 | 3.401 | 3.8 | 21.6 |
| 4 1 | 11 21.77 | + 9 15.4 | 2.476 | 3.412 | 6.9 | 21.8 |
| 4 11 | 11 16.49 | + 9 51.7 | 2.556 | 3.422 | 9.8 | 22.0 |
| 4 21 | 11 12.81 | +10 14.7 | 2.659 | 3.433 | 12.2 | 22.2 |

**452391** 2002 $NB_{67}$ 3 13.4 198°.01 0°.1/13.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.93 | + 0 6.8 | 1.825 | 2.667 | 13.4 | 22.3 |
| 2 21 | 11 54.46 | + 0 47.8 | 1.744 | 2.664 | 9.7 | 22.1 |
| 3 2 | 11 45.83 | + 1 42.5 | 1.688 | 2.660 | 5.3 | 21.8 |
| 3 12 | 11 35.86 | + 2 45.5 | 1.661 | 2.654 | 0.7 | 21.4 |
| 3 22 | 11 25.60 | + 3 49.7 | 1.663 | 2.648 | 4.1 | 21.7 |
| 4 1 | 11 16.17 | + 4 47.9 | 1.693 | 2.640 | 8.6 | 21.9 |
| 4 11 | 11 8.55 | + 5 34.1 | 1.750 | 2.632 | 12.7 | 22.2 |
| 4 21 | 11 3.31 | + 6 5.1 | 1.827 | 2.623 | 16.1 | 22.4 |

**150703** 2001 $PK_{32}$ 3 13.4 164°.73 2°.2/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.31 | + 8 15.3 | 2.499 | 3.352 | 9.9 | 20.9 |
| 2 21 | 11 52.02 | + 9 4.1 | 2.432 | 3.359 | 6.9 | 20.7 |
| 3 2 | 11 44.25 | + 9 56.6 | 2.393 | 3.365 | 3.8 | 20.5 |
| 3 12 | 11 35.65 | +10 47.5 | 2.384 | 3.371 | 2.2 | 20.4 |
| 3 22 | 11 26.95 | +11 31.9 | 2.405 | 3.376 | 4.5 | 20.5 |
| 4 1 | 11 18.94 | +12 5.7 | 2.456 | 3.380 | 7.6 | 20.7 |
| 4 11 | 11 12.26 | +12 26.4 | 2.534 | 3.383 | 10.4 | 20.9 |
| 4 21 | 11 7.34 | +12 33.3 | 2.634 | 3.385 | 12.8 | 21.1 |

**499044** 2009 $DG_{63}$ 3 13.4 45°.34 2°.1/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.77 | + 3 41.5 | 1.836 | 2.702 | 12.2 | 20.3 |
| 2 21 | 11 47.72 | + 5 22.0 | 1.785 | 2.720 | 8.4 | 20.1 |
| 3 2 | 11 41.99 | + 7 12.6 | 1.761 | 2.738 | 4.5 | 19.9 |
| 3 12 | 11 35.36 | + 9 4.1 | 1.766 | 2.756 | 2.1 | 19.8 |
| 3 22 | 11 28.70 | +10 47.4 | 1.800 | 2.775 | 5.2 | 20.0 |
| 4 1 | 11 22.88 | +12 14.8 | 1.861 | 2.794 | 9.0 | 20.3 |
| 4 11 | 11 18.62 | +13 21.4 | 1.947 | 2.814 | 12.3 | 20.5 |
| 4 21 | 11 16.31 | +14 5.8 | 2.054 | 2.833 | 15.1 | 20.8 |

**255592** 2006 $OG_{10}$ 3 13.4 233°.30 1°.8/11.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.16 | + 5 5.2 | 1.971 | 2.827 | 11.9 | 21.6 |
| 2 21 | 11 52.42 | + 5 59.2 | 1.885 | 2.814 | 8.5 | 21.3 |
| 3 2 | 11 44.70 | + 7 2.4 | 1.826 | 2.800 | 4.6 | 21.0 |
| 3 12 | 11 35.73 | + 8 8.5 | 1.795 | 2.786 | 1.8 | 20.8 |
| 3 22 | 11 26.43 | + 9 10.5 | 1.793 | 2.771 | 4.9 | 21.0 |
| 4 1 | 11 17.83 | +10 1.8 | 1.819 | 2.755 | 9.0 | 21.2 |
| 4 11 | 11 10.81 | +10 37.9 | 1.871 | 2.738 | 12.7 | 21.4 |
| 4 21 | 11 5.97 | +10 56.7 | 1.944 | 2.721 | 15.9 | 21.6 |

**465513** 2008 $UO_{128}$ 3 13.4 233°.09 2°.1/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.51 | + 7 56.3 | 2.628 | 3.481 | 9.4 | 21.9 |
| 2 21 | 11 50.85 | + 8 47.5 | 2.538 | 3.465 | 6.6 | 21.7 |
| 3 2 | 11 43.69 | + 9 43.6 | 2.475 | 3.448 | 3.7 | 21.5 |
| 3 12 | 11 35.60 | +10 39.6 | 2.442 | 3.430 | 2.2 | 21.4 |
| 3 22 | 11 27.26 | +11 30.3 | 2.440 | 3.411 | 4.5 | 21.5 |
| 4 1 | 11 19.42 | +12 11.3 | 2.468 | 3.392 | 7.6 | 21.7 |
| 4 11 | 11 12.75 | +12 39.5 | 2.522 | 3.371 | 10.5 | 21.8 |
| 4 21 | 11 7.73 | +12 53.4 | 2.599 | 3.350 | 13.0 | 22.0 |

**417154** 2005 $WU_{4}$ 3 13.4 58°.68 1°.7/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.70 | + 6 14.4 | 1.553 | 2.415 | 14.3 | 20.8 |
| 2 21 | 11 55.48 | + 6 32.5 | 1.516 | 2.446 | 10.0 | 20.6 |
| 3 2 | 11 46.18 | + 6 56.5 | 1.503 | 2.478 | 5.3 | 20.4 |
| 3 12 | 11 35.89 | + 7 20.1 | 1.517 | 2.509 | 1.7 | 20.2 |
| 3 22 | 11 25.82 | + 7 37.7 | 1.560 | 2.541 | 5.0 | 20.5 |
| 4 1 | 11 17.13 | + 7 45.1 | 1.629 | 2.572 | 9.3 | 20.8 |
| 4 11 | 11 10.62 | + 7 40.0 | 1.723 | 2.603 | 13.0 | 21.1 |
| 4 21 | 11 6.66 | + 7 22.0 | 1.837 | 2.635 | 16.0 | 21.4 |

**423749** 2006 $CH_{18}$ 3 13.4 194°.01 1°.9/11.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.53 | + 4 59.8 | 1.996 | 2.857 | 11.6 | 21.0 |
| 2 21 | 11 49.70 | + 6 5.9 | 1.925 | 2.856 | 8.1 | 20.8 |
| 3 2 | 11 43.13 | + 7 20.9 | 1.880 | 2.856 | 4.4 | 20.5 |
| 3 12 | 11 35.53 | + 8 37.8 | 1.864 | 2.855 | 1.9 | 20.4 |
| 3 22 | 11 27.77 | + 9 49.6 | 1.877 | 2.854 | 4.9 | 20.6 |
| 4 1 | 11 20.73 | +10 49.6 | 1.918 | 2.852 | 8.6 | 20.8 |
| 4 11 | 11 15.21 | +11 33.5 | 1.983 | 2.851 | 12.1 | 21.0 |
| 4 21 | 11 11.67 | +11 59.4 | 2.070 | 2.850 | 15.0 | 21.2 |

**49508** 1999 $CG_{22}$ 3 13.4 22°.82 4°.1/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.54 | +13 7.0 | 1.899 | 2.769 | 11.7 | 18.8 |
| 2 21 | 11 51.86 | +13 46.5 | 1.839 | 2.772 | 8.3 | 18.6 |
| 3 2 | 11 44.29 | +14 25.8 | 1.805 | 2.775 | 5.2 | 18.4 |
| 3 12 | 11 35.68 | +14 58.3 | 1.798 | 2.778 | 4.2 | 18.4 |
| 3 22 | 11 26.98 | +15 18.6 | 1.819 | 2.782 | 6.6 | 18.5 |
| 4 1 | 11 19.19 | +15 22.9 | 1.867 | 2.786 | 9.9 | 18.7 |
| 4 11 | 11 13.11 | +15 9.9 | 1.938 | 2.790 | 13.1 | 18.9 |
| 4 21 | 11 9.22 | +14 40.5 | 2.030 | 2.794 | 15.8 | 19.1 |

**353922** 2012 $XN_{149}$ 3 13.4 227°.58 5°.8/ 5.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.30 | +21 6.9 | 2.458 | 3.322 | 9.5 | 20.8 |
| 2 21 | 11 50.04 | +22 18.1 | 2.398 | 3.317 | 7.4 | 20.6 |
| 3 2 | 11 43.23 | +23 24.3 | 2.365 | 3.312 | 6.0 | 20.5 |
| 3 12 | 11 35.54 | +24 18.8 | 2.361 | 3.307 | 6.2 | 20.5 |
| 3 22 | 11 27.73 | +24 56.4 | 2.384 | 3.302 | 7.9 | 20.6 |
| 4 1 | 11 20.58 | +25 14.0 | 2.434 | 3.297 | 10.2 | 20.8 |
| 4 11 | 11 14.79 | +25 11.3 | 2.506 | 3.291 | 12.4 | 20.9 |
| 4 21 | 11 10.79 | +24 49.6 | 2.598 | 3.286 | 14.4 | 21.1 |

**286283** 2001 $VM_{109}$ 3 13.4 136°.80 1°.1/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.40 | − 2 33.7 | 1.721 | 2.559 | 14.3 | 21.6 |
| 2 21 | 11 54.02 | − 2 5.3 | 1.656 | 2.571 | 10.4 | 21.4 |
| 3 2 | 11 45.53 | − 1 21.4 | 1.615 | 2.583 | 6.0 | 21.2 |
| 3 12 | 11 35.85 | − 0 26.8 | 1.602 | 2.594 | 1.6 | 20.9 |
| 3 22 | 11 26.05 | + 0 31.7 | 1.617 | 2.604 | 3.8 | 21.1 |
| 4 1 | 11 17.26 | + 1 27.0 | 1.660 | 2.613 | 8.2 | 21.4 |
| 4 11 | 11 10.37 | + 2 12.8 | 1.729 | 2.622 | 12.2 | 21.6 |
| 4 21 | 11 5.92 | + 2 45.4 | 1.819 | 2.631 | 15.6 | 21.9 |

**271809** 2004 $TL_{101}$ 3 13.4 186°.22 1°.8/11.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.51 | + 6 23.0 | 2.058 | 2.916 | 11.4 | 21.0 |
| 2 21 | 11 51.77 | + 6 59.1 | 1.987 | 2.916 | 8.1 | 20.8 |
| 3 2 | 11 44.25 | + 7 41.0 | 1.941 | 2.916 | 4.4 | 20.6 |
| 3 12 | 11 35.69 | + 8 23.5 | 1.924 | 2.915 | 1.8 | 20.4 |
| 3 22 | 11 26.97 | + 9 0.8 | 1.937 | 2.915 | 4.6 | 20.6 |
| 4 1 | 11 19.02 | + 9 28.4 | 1.977 | 2.914 | 8.3 | 20.8 |
| 4 11 | 11 12.62 | + 9 42.9 | 2.043 | 2.912 | 11.7 | 21.0 |
| 4 21 | 11 8.26 | + 9 43.1 | 2.130 | 2.911 | 14.6 | 21.2 |

**58496** 1996 $UY_3$ 3 13.4 160°.90 3°.6/16.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.76 | − 9 3.4 | 1.784 | 2.598 | 14.9 | 19.5 |
| 2 21 | 11 52.92 | − 8 56.6 | 1.708 | 2.602 | 11.5 | 19.2 |
| 3 2 | 11 44.99 | − 8 29.3 | 1.655 | 2.606 | 7.7 | 19.0 |
| 3 12 | 11 35.79 | − 7 44.0 | 1.628 | 2.610 | 4.2 | 18.8 |
| 3 22 | 11 26.36 | − 6 45.8 | 1.629 | 2.613 | 4.4 | 18.8 |
| 4 1 | 11 17.80 | − 5 41.9 | 1.658 | 2.615 | 7.9 | 19.0 |
| 4 11 | 11 11.04 | − 4 40.0 | 1.712 | 2.617 | 11.7 | 19.3 |
| 4 21 | 11 6.65 | − 3 46.4 | 1.789 | 2.619 | 15.1 | 19.5 |

**281953** 2011 $GU_{46}$ 3 13.4 37°.31 1°.2/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.32 | − 3 13.8 | 1.589 | 2.439 | 14.6 | 20.5 |
| 2 21 | 11 49.80 | − 2 39.9 | 1.529 | 2.450 | 10.7 | 20.2 |
| 3 2 | 11 43.25 | − 1 48.7 | 1.493 | 2.462 | 6.2 | 20.0 |
| 3 12 | 11 35.56 | − 0 45.6 | 1.482 | 2.474 | 1.8 | 19.7 |
| 3 22 | 11 27.78 | + 0 21.8 | 1.499 | 2.487 | 3.8 | 19.9 |
| 4 1 | 11 20.98 | + 1 25.7 | 1.542 | 2.500 | 8.3 | 20.2 |
| 4 11 | 11 16.01 | + 2 18.9 | 1.610 | 2.514 | 12.3 | 20.5 |
| 4 21 | 11 13.37 | + 2 57.4 | 1.698 | 2.528 | 15.7 | 20.7 |

**224432** 2005 $UH_{456}$ 3 13.4 61°.60 0°.5/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.46 | + 1 47.5 | 1.690 | 2.538 | 14.0 | 20.0 |
| 2 21 | 11 55.53 | + 1 33.4 | 1.624 | 2.546 | 10.1 | 19.7 |
| 3 2 | 11 46.39 | + 1 28.6 | 1.582 | 2.553 | 5.7 | 19.5 |
| 3 12 | 11 35.97 | + 1 29.5 | 1.568 | 2.561 | 1.0 | 19.2 |
| 3 22 | 11 25.43 | + 1 32.3 | 1.583 | 2.569 | 4.0 | 19.4 |
| 4 1 | 11 15.93 | + 1 32.7 | 1.625 | 2.577 | 8.5 | 19.7 |
| 4 11 | 11 8.45 | + 1 27.0 | 1.692 | 2.585 | 12.5 | 19.9 |
| 4 21 | 11 3.51 | + 1 12.9 | 1.781 | 2.594 | 15.8 | 20.2 |

**357591** 2004 $VD_{76}$ 3 13.4 167°.39 3°.2/16.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.89 | − 8 53.8 | 1.898 | 2.708 | 14.3 | 21.4 |
| 2 21 | 11 52.91 | − 8 33.4 | 1.820 | 2.714 | 10.9 | 21.2 |
| 3 2 | 11 44.95 | − 7 52.9 | 1.766 | 2.718 | 7.2 | 20.9 |
| 3 12 | 11 35.79 | − 6 55.3 | 1.739 | 2.722 | 3.8 | 20.7 |
| 3 22 | 11 26.43 | − 5 46.3 | 1.740 | 2.725 | 4.0 | 20.7 |
| 4 1 | 11 17.89 | − 4 33.1 | 1.770 | 2.727 | 7.5 | 21.0 |
| 4 11 | 11 11.07 | − 3 23.3 | 1.827 | 2.728 | 11.3 | 21.2 |
| 4 21 | 11 6.49 | − 2 23.2 | 1.906 | 2.729 | 14.5 | 21.4 |

**116826** 2004 $FA_{16}$ 3 13.4 5°.05 13°.4/28.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 47.02 | −32 49.4 | 0.959 | 1.712 | 28.8 | 18.4 |
| 2 21 | 11 45.94 | −32 22.8 | 0.888 | 1.711 | 25.7 | 18.2 |
| 3 2 | 11 41.69 | −30 46.2 | 0.827 | 1.711 | 21.8 | 17.9 |
| 3 12 | 11 35.40 | −27 51.7 | 0.783 | 1.712 | 17.5 | 17.7 |
| 3 22 | 11 28.72 | −23 43.5 | 0.758 | 1.714 | 14.1 | 17.5 |
| 4 1 | 11 23.48 | −18 42.7 | 0.755 | 1.717 | 13.6 | 17.4 |
| 4 11 | 11 21.10 | −13 25.2 | 0.776 | 1.721 | 16.6 | 17.6 |
| 4 21 | 11 22.21 | − 8 26.7 | 0.820 | 1.727 | 21.0 | 17.9 |

**371668** 2007 $CO_{52}$ 3 13.4 1°.55 2°.3/15.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.03 | − 2 42.9 | 1.598 | 2.439 | 15.0 | 20.0 |
| 2 21 | 11 54.03 | − 3 5.3 | 1.524 | 2.439 | 11.2 | 19.7 |
| 3 2 | 11 45.68 | − 3 13.8 | 1.473 | 2.438 | 6.8 | 19.5 |
| 3 12 | 11 35.90 | − 3 10.5 | 1.449 | 2.439 | 2.7 | 19.2 |
| 3 22 | 11 25.83 | − 2 59.3 | 1.452 | 2.439 | 4.2 | 19.3 |
| 4 1 | 11 16.73 | − 2 45.4 | 1.482 | 2.440 | 8.6 | 19.6 |
| 4 11 | 11 9.64 | − 2 34.2 | 1.536 | 2.441 | 12.8 | 19.8 |
| 4 21 | 11 5.17 | − 2 30.0 | 1.612 | 2.443 | 16.4 | 20.1 |

**173989** 2001 $XB_{164}$ 3 13.4 117°.21 3°.3/17.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.19 | −11 59.9 | 2.785 | 3.568 | 10.9 | 20.9 |
| 2 21 | 11 49.02 | −11 46.9 | 2.713 | 3.585 | 8.6 | 20.7 |
| 3 2 | 11 42.60 | −11 18.7 | 2.665 | 3.601 | 6.0 | 20.6 |
| 3 12 | 11 35.49 | −10 37.3 | 2.645 | 3.617 | 3.8 | 20.5 |
| 3 22 | 11 28.31 | − 9 45.9 | 2.655 | 3.632 | 3.6 | 20.5 |
| 4 1 | 11 21.70 | − 8 49.1 | 2.694 | 3.647 | 5.5 | 20.6 |
| 4 11 | 11 16.22 | − 7 51.9 | 2.762 | 3.662 | 7.9 | 20.8 |
| 4 21 | 11 12.24 | − 6 58.6 | 2.855 | 3.676 | 10.2 | 21.0 |

**328315** 2008 $HJ_{55}$ 3 13.4 45°.72 8°.4/ 6.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.60 | +21 59.1 | 1.470 | 2.346 | 14.1 | 20.4 |
| 2 21 | 11 54.38 | +23 10.1 | 1.433 | 2.358 | 10.9 | 20.2 |
| 3 2 | 11 45.76 | +24 10.5 | 1.419 | 2.369 | 8.7 | 20.1 |
| 3 12 | 11 35.89 | +24 50.1 | 1.430 | 2.382 | 8.8 | 20.2 |
| 3 22 | 11 26.12 | +25 2.3 | 1.465 | 2.395 | 11.0 | 20.3 |
| 4 1 | 11 17.74 | +24 45.2 | 1.525 | 2.408 | 14.0 | 20.5 |
| 4 11 | 11 11.70 | +24 1.1 | 1.604 | 2.421 | 17.0 | 20.7 |
| 4 21 | 11 8.44 | +22 55.0 | 1.701 | 2.435 | 19.4 | 21.0 |

**212948** 2009 $BZ_8$ 3 13.4 69°.64 2°.1/11.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.23 | + 6 8.3 | 2.017 | 2.879 | 11.4 | 20.8 |
| 2 21 | 11 50.00 | + 7 9.5 | 1.971 | 2.903 | 7.9 | 20.6 |
| 3 2 | 11 43.19 | + 8 16.5 | 1.951 | 2.926 | 4.3 | 20.5 |
| 3 12 | 11 35.56 | + 9 22.6 | 1.960 | 2.950 | 2.1 | 20.4 |
| 3 22 | 11 27.97 | +10 21.4 | 1.998 | 2.973 | 4.8 | 20.6 |
| 4 1 | 11 21.24 | +11 7.7 | 2.063 | 2.996 | 8.3 | 20.8 |
| 4 11 | 11 16.05 | +11 38.4 | 2.154 | 3.019 | 11.4 | 21.1 |
| 4 21 | 11 12.78 | +11 52.8 | 2.266 | 3.042 | 14.0 | 21.3 |

**5960** Wakkanai 3 13.4 148°.86 2°.3/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.89 | + 6 1.6 | 1.603 | 2.464 | 13.9 | 17.6 |
| 2 21 | 11 55.21 | + 6 51.3 | 1.543 | 2.473 | 9.8 | 17.3 |
| 3 2 | 11 46.25 | + 7 49.1 | 1.506 | 2.481 | 5.3 | 17.1 |
| 3 12 | 11 35.97 | + 8 47.2 | 1.498 | 2.489 | 2.3 | 16.9 |
| 3 22 | 11 25.59 | + 9 37.9 | 1.518 | 2.496 | 5.7 | 17.1 |
| 4 1 | 11 16.32 | +10 14.7 | 1.565 | 2.502 | 10.1 | 17.4 |
| 4 11 | 11 9.15 | +10 33.9 | 1.636 | 2.507 | 14.0 | 17.7 |
| 4 21 | 11 4.60 | +10 34.8 | 1.726 | 2.512 | 17.3 | 17.9 |

**386207** 2007 $VH_{321}$ 3 13.4 127°.00 1°.2/14.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.93 | − 3 9.9 | 2.521 | 3.348 | 10.6 | 21.4 |
| 2 21 | 11 49.65 | − 2 48.4 | 2.449 | 3.358 | 7.8 | 21.2 |
| 3 2 | 11 42.99 | − 2 16.0 | 2.404 | 3.368 | 4.6 | 21.0 |
| 3 12 | 11 35.55 | − 1 35.6 | 2.387 | 3.378 | 1.5 | 20.8 |
| 3 22 | 11 28.02 | − 0 51.5 | 2.400 | 3.387 | 2.8 | 20.9 |
| 4 1 | 11 21.11 | − 0 8.2 | 2.443 | 3.396 | 6.0 | 21.2 |
| 4 11 | 11 15.43 | + 0 30.1 | 2.513 | 3.404 | 9.0 | 21.4 |
| 4 21 | 11 11.37 | + 1 0.3 | 2.606 | 3.413 | 11.5 | 21.6 |

**36369** 2000 $OD_{13}$ 3 13.4 132°.68 1°.0/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.99 | − 2 19.7 | 1.701 | 2.541 | 14.3 | 19.6 |
| 2 21 | 11 53.76 | − 1 52.6 | 1.636 | 2.552 | 10.4 | 19.4 |
| 3 2 | 11 45.42 | − 1 10.1 | 1.595 | 2.563 | 6.0 | 19.1 |
| 3 12 | 11 35.87 | − 0 17.2 | 1.581 | 2.574 | 1.5 | 18.8 |
| 3 22 | 11 26.19 | + 0 39.6 | 1.596 | 2.583 | 3.8 | 19.0 |
| 4 1 | 11 17.53 | + 1 33.1 | 1.639 | 2.593 | 8.3 | 19.3 |
| 4 11 | 11 10.77 | + 2 17.2 | 1.707 | 2.601 | 12.3 | 19.6 |
| 4 21 | 11 6.45 | + 2 47.9 | 1.796 | 2.609 | 15.7 | 19.8 |

**266395** 2007 $EL_{168}$ 3 13.4 168°.82 2°.0/11.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.03 | + 6 52.2 | 2.124 | 2.982 | 11.1 | 21.0 |
| 2 21 | 11 51.38 | + 7 38.1 | 2.055 | 2.984 | 7.8 | 20.8 |
| 3 2 | 11 44.02 | + 8 29.6 | 2.013 | 2.987 | 4.3 | 20.6 |
| 3 12 | 11 35.69 | + 9 21.0 | 1.999 | 2.989 | 2.1 | 20.4 |
| 3 22 | 11 27.22 | +10 6.5 | 2.015 | 2.990 | 4.7 | 20.6 |
| 4 1 | 11 19.51 | +10 41.2 | 2.059 | 2.991 | 8.3 | 20.8 |
| 4 11 | 11 13.29 | +11 1.9 | 2.128 | 2.992 | 11.5 | 21.0 |
| 4 21 | 11 9.04 | +11 7.5 | 2.219 | 2.993 | 14.3 | 21.2 |

**215867** 2005 $EK_{148}$ 3 13.4 271°.87 1°.7/11.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.24 | + 4 9.4 | 1.733 | 2.594 | 13.1 | 20.9 |
| 2 21 | 11 52.09 | + 5 4.1 | 1.642 | 2.572 | 9.3 | 20.6 |
| 3 2 | 11 44.69 | + 6 11.0 | 1.575 | 2.550 | 5.1 | 20.3 |
| 3 12 | 11 35.80 | + 7 23.2 | 1.535 | 2.527 | 1.7 | 20.1 |
| 3 22 | 11 26.44 | + 8 32.8 | 1.524 | 2.504 | 5.3 | 20.2 |
| 4 1 | 11 17.76 | + 9 31.5 | 1.540 | 2.481 | 9.9 | 20.5 |
| 4 11 | 11 10.82 | +10 13.6 | 1.580 | 2.457 | 14.2 | 20.6 |
| 4 21 | 11 6.31 | +10 36.1 | 1.640 | 2.433 | 17.8 | 20.8 |

**33426** 1999 $DR_2$ 3 13.4 293°.86 5°.1/ 8.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.84 | +11 1.9 | 1.390 | 2.272 | 14.3 | 18.4 |
| 2 21 | 11 52.06 | +12 29.5 | 1.325 | 2.264 | 10.2 | 18.1 |
| 3 2 | 11 44.72 | +14 3.2 | 1.283 | 2.256 | 6.4 | 17.9 |
| 3 12 | 11 35.80 | +15 31.7 | 1.267 | 2.248 | 5.4 | 17.8 |
| 3 22 | 11 26.56 | +16 43.7 | 1.277 | 2.240 | 8.7 | 18.0 |
| 4 1 | 11 18.38 | +17 31.1 | 1.311 | 2.232 | 13.0 | 18.2 |
| 4 11 | 11 12.39 | +17 50.3 | 1.367 | 2.225 | 17.1 | 18.4 |
| 4 21 | 11 9.23 | +17 42.3 | 1.439 | 2.217 | 20.5 | 18.6 |

**465947** 2011 $BQ_{15}$ 3 13.4 41°.30 0°.5/13.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.47 | + 0 28.5 | 1.509 | 2.366 | 14.9 | 21.4 |
| 2 21 | 11 52.85 | + 0 37.3 | 1.450 | 2.376 | 10.7 | 21.2 |
| 3 2 | 11 44.97 | + 0 59.1 | 1.414 | 2.386 | 6.0 | 20.9 |
| 3 12 | 11 35.82 | + 1 28.8 | 1.404 | 2.397 | 1.0 | 20.6 |
| 3 22 | 11 26.57 | + 2 0.4 | 1.421 | 2.409 | 4.2 | 20.8 |
| 4 1 | 11 18.42 | + 2 27.6 | 1.465 | 2.421 | 8.9 | 21.2 |
| 4 11 | 11 12.35 | + 2 45.3 | 1.533 | 2.433 | 13.1 | 21.4 |
| 4 21 | 11 8.84 | + 2 50.7 | 1.620 | 2.445 | 16.6 | 21.7 |

**359115** 2009 $BW_{43}$ 3 13.4 277°.68 2°.6/15.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.92 | − 4 41.4 | 1.534 | 2.373 | 15.6 | 21.2 |
| 2 21 | 11 53.47 | − 4 43.3 | 1.449 | 2.362 | 11.8 | 20.9 |
| 3 2 | 11 45.52 | − 4 26.9 | 1.387 | 2.350 | 7.4 | 20.6 |
| 3 12 | 11 35.91 | − 3 54.8 | 1.350 | 2.339 | 3.2 | 20.3 |
| 3 22 | 11 25.84 | − 3 12.2 | 1.340 | 2.327 | 4.4 | 20.4 |
| 4 1 | 11 16.63 | − 2 26.3 | 1.356 | 2.315 | 9.1 | 20.6 |
| 4 11 | 11 9.44 | − 1 44.8 | 1.397 | 2.304 | 13.6 | 20.8 |
| 4 21 | 11 4.98 | − 1 13.7 | 1.458 | 2.292 | 17.6 | 21.0 |

**372602** 2009 $VX_1$ 3 13.4 183°.18 4°.2/18.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.25 | −13 10.4 | 2.604 | 3.376 | 11.9 | 22.4 |
| 2 21 | 11 52.10 | −13 16.6 | 2.513 | 3.377 | 9.5 | 22.3 |
| 3 2 | 11 44.40 | −13 6.2 | 2.448 | 3.377 | 6.9 | 22.1 |
| 3 12 | 11 35.75 | −12 40.1 | 2.410 | 3.376 | 4.7 | 22.0 |
| 3 22 | 11 26.89 | −12 1.0 | 2.402 | 3.375 | 4.4 | 21.9 |
| 4 1 | 11 18.60 | −11 13.1 | 2.424 | 3.372 | 6.3 | 22.0 |
| 4 11 | 11 11.56 | −10 21.8 | 2.474 | 3.369 | 8.9 | 22.2 |
| 4 21 | 11 6.25 | − 9 32.1 | 2.548 | 3.366 | 11.4 | 22.4 |

**385623** 2005 $NT_5$ 3 13.4 303°.38 3°.6/17.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.29 | − 9 24.9 | 2.217 | 3.023 | 12.6 | 20.7 |
| 2 21 | 11 50.22 | − 9 34.8 | 2.129 | 3.017 | 9.9 | 20.5 |
| 3 2 | 11 43.45 | − 9 28.5 | 2.064 | 3.011 | 6.8 | 20.3 |
| 3 12 | 11 35.63 | − 9 7.5 | 2.027 | 3.005 | 4.1 | 20.1 |
| 3 22 | 11 27.55 | − 8 34.8 | 2.018 | 2.999 | 4.1 | 20.1 |
| 4 1 | 11 20.08 | − 7 55.0 | 2.037 | 2.993 | 6.8 | 20.2 |
| 4 11 | 11 13.97 | − 7 13.8 | 2.083 | 2.988 | 9.9 | 20.4 |
| 4 21 | 11 9.74 | − 6 36.1 | 2.152 | 2.982 | 12.8 | 20.6 |

**254512** 2005 $EG_{87}$ 3 13.4 237°.10 0°.1/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.28 | + 0 44.2 | 1.887 | 2.734 | 12.8 | 22.0 |
| 2 21 | 11 52.60 | + 1 18.6 | 1.800 | 2.722 | 9.2 | 21.8 |
| 3 2 | 11 44.87 | + 2 5.7 | 1.737 | 2.709 | 5.1 | 21.5 |
| 3 12 | 11 35.82 | + 3 0.4 | 1.703 | 2.696 | 0.6 | 21.1 |
| 3 22 | 11 26.43 | + 3 56.4 | 1.698 | 2.683 | 4.0 | 21.4 |
| 4 1 | 11 17.76 | + 4 47.1 | 1.721 | 2.669 | 8.4 | 21.6 |
| 4 11 | 11 10.73 | + 5 26.9 | 1.769 | 2.654 | 12.4 | 21.8 |
| 4 21 | 11 5.96 | + 5 52.3 | 1.838 | 2.639 | 15.8 | 22.0 |

**170294** 2003 $RQ_{20}$ 3 13.5 155°.59 1°.2/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.71 | + 3 19.4 | 2.011 | 2.861 | 12.0 | 21.0 |
| 2 21 | 11 52.61 | + 4 13.2 | 1.945 | 2.870 | 8.5 | 20.8 |
| 3 2 | 11 44.71 | + 5 16.2 | 1.904 | 2.878 | 4.5 | 20.6 |
| 3 12 | 11 35.79 | + 6 22.4 | 1.893 | 2.885 | 1.2 | 20.4 |
| 3 22 | 11 26.76 | + 7 25.0 | 1.911 | 2.892 | 4.3 | 20.6 |
| 4 1 | 11 18.55 | + 8 18.0 | 1.959 | 2.898 | 8.2 | 20.8 |
| 4 11 | 11 11.97 | + 8 57.2 | 2.032 | 2.903 | 11.7 | 21.1 |
| 4 21 | 11 7.47 | + 9 20.5 | 2.126 | 2.907 | 14.6 | 21.3 |

**470530** 2008 $DC_7$ 3 13.5 305°.77 3°.7/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.30 | − 8 39.6 | 2.269 | 3.074 | 12.4 | 20.6 |
| 2 21 | 11 51.64 | − 9 6.3 | 2.178 | 3.065 | 9.7 | 20.4 |
| 3 2 | 11 44.24 | − 9 18.9 | 2.111 | 3.057 | 6.7 | 20.2 |
| 3 12 | 11 35.74 | − 9 17.9 | 2.072 | 3.049 | 4.1 | 20.0 |
| 3 22 | 11 26.94 | − 9 5.7 | 2.061 | 3.041 | 4.2 | 20.0 |
| 4 1 | 11 18.72 | − 8 45.8 | 2.079 | 3.033 | 6.8 | 20.1 |
| 4 11 | 11 11.87 | − 8 23.0 | 2.124 | 3.025 | 9.9 | 20.3 |
| 4 21 | 11 6.93 | − 8 2.0 | 2.192 | 3.018 | 12.8 | 20.5 |

**133073** 2003 $HZ_{46}$ 3 13.5 250°.94 14°.3/26.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 8.33 | +40 4.3 | 1.661 | 2.483 | 15.5 | 19.6 |
| 2 21 | 12 0.39 | +41 49.3 | 1.620 | 2.471 | 14.5 | 19.5 |
| 3 2 | 11 49.31 | +43 8.3 | 1.601 | 2.458 | 14.4 | 19.5 |
| 3 12 | 11 36.39 | +43 49.2 | 1.604 | 2.446 | 15.3 | 19.5 |
| 3 22 | 11 23.36 | +43 45.8 | 1.627 | 2.432 | 17.0 | 19.6 |
| 4 1 | 11 11.96 | +42 58.5 | 1.669 | 2.419 | 18.9 | 19.7 |
| 4 11 | 11 3.48 | +41 33.2 | 1.727 | 2.405 | 20.9 | 19.8 |
| 4 21 | 10 58.46 | +39 38.6 | 1.797 | 2.391 | 22.6 | 19.9 |

**458883** 2011 $UE_{164}$ 3 13.5 132°.94 4°.7/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.73 | +12 8.5 | 1.639 | 2.511 | 13.1 | 20.7 |
| 2 21 | 11 53.63 | +13 24.9 | 1.586 | 2.520 | 9.3 | 20.5 |
| 3 2 | 11 45.36 | +14 43.2 | 1.559 | 2.529 | 5.8 | 20.3 |
| 3 12 | 11 35.88 | +15 53.8 | 1.558 | 2.537 | 4.9 | 20.3 |
| 3 22 | 11 26.32 | +16 48.4 | 1.586 | 2.545 | 7.7 | 20.5 |
| 4 1 | 11 17.86 | +17 21.7 | 1.639 | 2.553 | 11.4 | 20.7 |
| 4 11 | 11 11.42 | +17 31.7 | 1.715 | 2.560 | 14.8 | 20.9 |
| 4 21 | 11 7.48 | +17 19.8 | 1.810 | 2.566 | 17.7 | 21.2 |

**182426** 2001 $RL_{118}$ 3 13.5 260°.08 0°.6/12.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.32 | + 2 14.9 | 1.785 | 2.640 | 13.0 | 21.0 |
| 2 21 | 11 51.97 | + 2 48.6 | 1.703 | 2.630 | 9.3 | 20.8 |
| 3 2 | 11 44.54 | + 3 33.9 | 1.647 | 2.620 | 5.1 | 20.5 |
| 3 12 | 11 35.79 | + 4 25.2 | 1.617 | 2.610 | 0.8 | 20.2 |
| 3 22 | 11 26.73 | + 5 15.9 | 1.616 | 2.600 | 4.3 | 20.4 |
| 4 1 | 11 18.45 | + 5 59.5 | 1.642 | 2.590 | 8.8 | 20.6 |
| 4 11 | 11 11.89 | + 6 30.7 | 1.693 | 2.580 | 12.8 | 20.9 |
| 4 21 | 11 7.65 | + 6 46.8 | 1.765 | 2.569 | 16.3 | 21.1 |

**47733** 2000 $DW_{51}$ 3 13.5 158°.83 0°.6/12.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.70 | + 2 9.1 | 2.258 | 3.107 | 10.9 | 19.2 |
| 2 21 | 11 49.65 | + 2 53.4 | 2.185 | 3.110 | 7.7 | 19.0 |
| 3 2 | 11 43.07 | + 3 46.9 | 2.139 | 3.112 | 4.2 | 18.8 |
| 3 12 | 11 35.59 | + 4 44.7 | 2.122 | 3.115 | 0.7 | 18.5 |
| 3 22 | 11 27.97 | + 5 41.1 | 2.134 | 3.117 | 3.6 | 18.8 |
| 4 1 | 11 21.02 | + 6 30.9 | 2.175 | 3.119 | 7.2 | 19.0 |
| 4 11 | 11 15.41 | + 7 9.9 | 2.243 | 3.121 | 10.5 | 19.2 |
| 4 21 | 11 11.59 | + 7 35.7 | 2.332 | 3.123 | 13.2 | 19.4 |

**391772** 2008 $GH_{140}$ 3 13.5 134°.88 3°.4/ 8.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.37 | +14 39.9 | 2.907 | 3.769 | 8.3 | 21.1 |
| 2 21 | 11 49.11 | +15 24.4 | 2.849 | 3.776 | 6.0 | 20.9 |
| 3 2 | 11 42.65 | +16 7.8 | 2.818 | 3.783 | 3.9 | 20.8 |
| 3 12 | 11 35.53 | +16 45.5 | 2.816 | 3.790 | 3.5 | 20.8 |
| 3 22 | 11 28.37 | +17 13.7 | 2.845 | 3.796 | 5.2 | 20.9 |
| 4 1 | 11 21.78 | +17 29.8 | 2.902 | 3.803 | 7.5 | 21.1 |
| 4 11 | 11 16.29 | +17 32.4 | 2.984 | 3.809 | 9.7 | 21.2 |
| 4 21 | 11 12.26 | +17 21.9 | 3.088 | 3.815 | 11.6 | 21.4 |

**27844** 1994 $TG_1$ 3 13.5 96°.71 3°.4/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.54 | + 8 36.2 | 1.443 | 2.313 | 14.6 | 17.9 |
| 2 21 | 11 55.06 | + 9 27.7 | 1.393 | 2.328 | 10.3 | 17.7 |
| 3 2 | 11 46.18 | +10 24.5 | 1.367 | 2.342 | 5.8 | 17.5 |
| 3 12 | 11 35.99 | +11 17.6 | 1.368 | 2.356 | 3.4 | 17.4 |
| 3 22 | 11 25.81 | +11 58.9 | 1.395 | 2.369 | 6.7 | 17.6 |
| 4 1 | 11 16.93 | +12 22.8 | 1.449 | 2.382 | 11.0 | 17.9 |
| 4 11 | 11 10.33 | +12 26.7 | 1.525 | 2.395 | 14.9 | 18.1 |
| 4 21 | 11 6.49 | +12 11.3 | 1.620 | 2.408 | 18.2 | 18.4 |

**466901** 2015 $EG_{13}$ 3 13.5 138°.72 1°.1/12.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.17 | + 4 26.8 | 2.018 | 2.873 | 11.7 | 21.1 |
| 2 21 | 11 51.55 | + 4 56.5 | 1.948 | 2.876 | 8.3 | 20.9 |
| 3 2 | 11 44.16 | + 5 33.6 | 1.904 | 2.878 | 4.5 | 20.7 |
| 3 12 | 11 35.74 | + 6 13.1 | 1.888 | 2.880 | 1.1 | 20.4 |
| 3 22 | 11 27.18 | + 6 49.5 | 1.901 | 2.883 | 4.2 | 20.7 |
| 4 1 | 11 19.40 | + 7 18.0 | 1.942 | 2.885 | 8.0 | 20.9 |
| 4 11 | 11 13.19 | + 7 35.0 | 2.009 | 2.887 | 11.5 | 21.1 |
| 4 21 | 11 9.01 | + 7 38.8 | 2.097 | 2.889 | 14.4 | 21.3 |

**209504** 2004 $LT_2$ 3 13.5 34°.26 15°.7/29.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.12 | −33 12.9 | 1.061 | 1.793 | 27.8 | 19.4 |
| 2 21 | 11 50.26 | −33 56.1 | 0.998 | 1.798 | 25.0 | 19.2 |
| 3 2 | 11 44.07 | −33 43.5 | 0.947 | 1.805 | 21.9 | 19.0 |
| 3 12 | 11 35.76 | −32 27.2 | 0.910 | 1.811 | 18.7 | 18.8 |
| 3 22 | 11 27.03 | −30 7.8 | 0.890 | 1.819 | 16.3 | 18.7 |
| 4 1 | 11 19.79 | −26 56.7 | 0.891 | 1.827 | 15.8 | 18.7 |
| 4 11 | 11 15.52 | −23 16.6 | 0.912 | 1.835 | 17.3 | 18.8 |
| 4 21 | 11 14.91 | −19 32.8 | 0.954 | 1.844 | 20.2 | 19.0 |

**498298** 2007 $VE_{101}$ 3 13.5 124°.37 5°.6/21.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.71 | −21 23.8 | 2.873 | 3.594 | 12.0 | 22.1 |
| 2 21 | 11 49.44 | −21 22.1 | 2.795 | 3.610 | 10.1 | 22.0 |
| 3 2 | 11 42.87 | −21 0.7 | 2.740 | 3.627 | 8.1 | 21.9 |
| 3 12 | 11 35.57 | −20 20.3 | 2.711 | 3.643 | 6.3 | 21.8 |
| 3 22 | 11 28.19 | −19 23.4 | 2.710 | 3.658 | 5.6 | 21.7 |
| 4 1 | 11 21.39 | −18 14.3 | 2.737 | 3.673 | 6.4 | 21.8 |
| 4 11 | 11 15.74 | −16 58.9 | 2.793 | 3.687 | 8.1 | 21.9 |
| 4 21 | 11 11.63 | −15 42.7 | 2.874 | 3.701 | 10.0 | 22.1 |

**117708** 2005 $FP_5$ 3 13.5 212°.09 1°.1/12.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.33 | + 3 6.5 | 2.303 | 3.156 | 10.6 | 19.9 |
| 2 21 | 11 48.71 | + 4 8.1 | 2.226 | 3.153 | 7.4 | 19.7 |
| 3 2 | 11 42.57 | + 5 19.0 | 2.175 | 3.150 | 4.0 | 19.4 |
| 3 12 | 11 35.54 | + 6 33.5 | 2.154 | 3.146 | 1.1 | 19.2 |
| 3 22 | 11 28.34 | + 7 45.5 | 2.163 | 3.143 | 3.9 | 19.4 |
| 4 1 | 11 21.75 | + 8 49.2 | 2.200 | 3.139 | 7.5 | 19.6 |
| 4 11 | 11 16.43 | + 9 40.0 | 2.264 | 3.135 | 10.7 | 19.8 |
| 4 21 | 11 12.84 | +10 15.5 | 2.350 | 3.131 | 13.4 | 20.0 |

**330064** 2005 $VX_1$ 3 13.5 167°.76 7°.8/25.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.65 | −29 46.1 | 2.607 | 3.266 | 14.5 | 21.7 |
| 2 21 | 11 51.05 | −29 28.8 | 2.513 | 3.272 | 12.7 | 21.5 |
| 3 2 | 11 43.85 | −28 44.0 | 2.439 | 3.276 | 10.7 | 21.4 |
| 3 12 | 11 35.71 | −27 31.0 | 2.388 | 3.281 | 8.9 | 21.3 |
| 3 22 | 11 27.44 | −25 52.2 | 2.364 | 3.284 | 7.9 | 21.2 |
| 4 1 | 11 19.85 | −23 53.3 | 2.369 | 3.287 | 8.1 | 21.2 |
| 4 11 | 11 13.67 | −21 42.6 | 2.402 | 3.289 | 9.5 | 21.3 |
| 4 21 | 11 9.33 | −19 29.1 | 2.462 | 3.290 | 11.5 | 21.4 |

**64670** 2001 $XJ_{64}$ 3 13.5 129°.12 2°.0/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.68 | + 4 44.4 | 1.709 | 2.568 | 13.3 | 19.6 |
| 2 21 | 11 53.49 | + 5 47.4 | 1.652 | 2.582 | 9.3 | 19.4 |
| 3 2 | 11 45.26 | + 6 59.6 | 1.621 | 2.596 | 5.0 | 19.1 |
| 3 12 | 11 35.89 | + 8 13.0 | 1.617 | 2.609 | 2.0 | 19.0 |
| 3 22 | 11 26.47 | + 9 19.6 | 1.643 | 2.621 | 5.3 | 19.2 |
| 4 1 | 11 18.09 | +10 12.7 | 1.696 | 2.633 | 9.4 | 19.5 |
| 4 11 | 11 11.61 | +10 48.0 | 1.773 | 2.644 | 13.2 | 19.7 |
| 4 21 | 11 7.52 | +11 4.5 | 1.871 | 2.654 | 16.3 | 20.0 |

**468907** 2014 $BC_{43}$ 3 13.5 79°.94 5°.7/ 6.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.01 | +19 42.8 | 2.306 | 3.172 | 10.0 | 20.8 |
| 2 21 | 11 50.45 | +21 8.1 | 2.277 | 3.199 | 7.6 | 20.7 |
| 3 2 | 11 43.42 | +22 27.2 | 2.275 | 3.226 | 5.9 | 20.6 |
| 3 12 | 11 35.65 | +23 33.2 | 2.302 | 3.252 | 6.1 | 20.6 |
| 3 22 | 11 27.96 | +24 20.8 | 2.357 | 3.278 | 7.8 | 20.8 |
| 4 1 | 11 21.10 | +24 47.6 | 2.438 | 3.304 | 10.1 | 21.0 |
| 4 11 | 11 15.72 | +24 53.4 | 2.542 | 3.329 | 12.2 | 21.2 |
| 4 21 | 11 12.15 | +24 40.3 | 2.665 | 3.354 | 14.0 | 21.4 |

**504274** 2006 $WO_{50}$ 3 13.5 197°.88 3°.7/ 7.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.32 | +15 46.4 | 3.051 | 3.912 | 8.0 | 22.2 |
| 2 21 | 11 49.12 | +16 44.4 | 2.983 | 3.908 | 5.8 | 22.1 |
| 3 2 | 11 42.69 | +17 41.3 | 2.942 | 3.904 | 4.1 | 22.0 |
| 3 12 | 11 35.58 | +18 32.2 | 2.932 | 3.900 | 3.9 | 21.9 |
| 3 22 | 11 28.35 | +19 12.9 | 2.952 | 3.895 | 5.5 | 22.0 |
| 4 1 | 11 21.61 | +19 40.6 | 3.000 | 3.889 | 7.7 | 22.2 |
| 4 11 | 11 15.91 | +19 53.6 | 3.074 | 3.883 | 9.8 | 22.3 |
| 4 21 | 11 11.63 | +19 52.2 | 3.169 | 3.877 | 11.7 | 22.5 |

**255666** 2006 $QN_{34}$ 3 13.5 254°.47 0°.2/13.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.00 | − 0 56.8 | 1.819 | 2.665 | 13.3 | 21.3 |
| 2 21 | 11 51.82 | − 0 11.5 | 1.727 | 2.648 | 9.7 | 21.0 |
| 3 2 | 11 44.52 | + 0 49.7 | 1.659 | 2.630 | 5.4 | 20.7 |
| 3 12 | 11 35.84 | + 2 1.6 | 1.619 | 2.612 | 0.8 | 20.4 |
| 3 22 | 11 26.74 | + 3 17.0 | 1.608 | 2.594 | 4.0 | 20.6 |
| 4 1 | 11 18.32 | + 4 27.9 | 1.624 | 2.575 | 8.6 | 20.8 |
| 4 11 | 11 11.55 | + 5 27.3 | 1.666 | 2.555 | 12.9 | 21.0 |
| 4 21 | 11 7.07 | + 6 10.6 | 1.729 | 2.536 | 16.5 | 21.2 |

**57311** 2001 $QR_{214}$ 3 13.5 94°.96 1°.2/14.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.56 | − 0 48.4 | 1.406 | 2.257 | 16.1 | 19.3 |
| 2 21 | 11 55.96 | − 0 48.8 | 1.344 | 2.266 | 11.8 | 19.0 |
| 3 2 | 11 46.80 | − 0 34.2 | 1.305 | 2.275 | 6.8 | 18.8 |
| 3 12 | 11 36.12 | − 0 9.2 | 1.292 | 2.284 | 1.7 | 18.5 |
| 3 22 | 11 25.29 | + 0 20.2 | 1.305 | 2.293 | 4.4 | 18.7 |
| 4 1 | 11 15.70 | + 0 47.4 | 1.345 | 2.302 | 9.5 | 19.0 |
| 4 11 | 11 8.45 | + 1 6.3 | 1.409 | 2.310 | 14.0 | 19.3 |
| 4 21 | 11 4.11 | + 1 13.5 | 1.493 | 2.318 | 17.7 | 19.5 |

**132949** 2002 $TE_{71}$ 3 13.5 228°.90 4°.1/19.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.43 | −15 12.3 | 2.826 | 3.589 | 11.3 | 20.2 |
| 2 21 | 11 49.38 | −14 58.3 | 2.720 | 3.575 | 9.1 | 20.1 |
| 3 2 | 11 42.94 | −14 26.8 | 2.638 | 3.561 | 6.8 | 19.9 |
| 3 12 | 11 35.62 | −13 38.7 | 2.584 | 3.546 | 4.7 | 19.7 |
| 3 22 | 11 28.05 | −12 36.8 | 2.559 | 3.531 | 4.2 | 19.7 |
| 4 1 | 11 20.92 | −11 25.6 | 2.565 | 3.515 | 5.9 | 19.7 |
| 4 11 | 11 14.86 | −10 10.9 | 2.598 | 3.498 | 8.4 | 19.9 |
| 4 21 | 11 10.33 | − 8 58.2 | 2.657 | 3.481 | 10.9 | 20.0 |

**377884** 2006 $DH_{39}$ 3 13.5 95°.33 0°.6/12.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.10 | + 1 38.6 | 1.967 | 2.820 | 12.1 | 20.9 |
| 2 21 | 11 50.09 | + 2 27.7 | 1.902 | 2.828 | 8.6 | 20.7 |
| 3 2 | 11 43.37 | + 3 27.5 | 1.863 | 2.836 | 4.6 | 20.5 |
| 3 12 | 11 35.67 | + 4 32.4 | 1.851 | 2.845 | 0.7 | 20.2 |
| 3 22 | 11 27.87 | + 5 35.6 | 1.869 | 2.853 | 3.9 | 20.5 |
| 4 1 | 11 20.86 | + 6 31.0 | 1.914 | 2.861 | 7.9 | 20.8 |
| 4 11 | 11 15.39 | + 7 13.7 | 1.985 | 2.868 | 11.4 | 21.0 |
| 4 21 | 11 11.91 | + 7 41.3 | 2.078 | 2.876 | 14.3 | 21.2 |

**36878** 2000 $SV_{153}$ 3 13.5 157°.11 0°.4/13.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.06 | − 1 7.7 | 2.846 | 3.679 | 9.4 | 19.5 |
| 2 21 | 11 48.24 | − 0 29.5 | 2.770 | 3.684 | 6.8 | 19.4 |
| 3 2 | 11 42.23 | + 0 18.0 | 2.721 | 3.689 | 3.8 | 19.2 |
| 3 12 | 11 35.53 | + 1 11.1 | 2.701 | 3.694 | 0.7 | 18.9 |
| 3 22 | 11 28.73 | + 2 5.7 | 2.713 | 3.699 | 2.6 | 19.1 |
| 4 1 | 11 22.44 | + 2 57.5 | 2.754 | 3.703 | 5.6 | 19.3 |
| 4 11 | 11 17.19 | + 3 42.7 | 2.823 | 3.707 | 8.4 | 19.5 |
| 4 21 | 11 13.36 | + 4 18.5 | 2.916 | 3.710 | 10.7 | 19.6 |

**316868** 2000 $QY_{147}$ 3 13.5 98°.21 4°.1/ 9.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.61 | + 0 44.9 | 1.030 | 1.910 | 18.3 | 19.7 |
| 2 21 | 11 52.23 | + 4 10.8 | 0.983 | 1.924 | 12.6 | 19.4 |
| 3 2 | 11 44.91 | + 8 3.2 | 0.960 | 1.938 | 6.7 | 19.2 |
| 3 12 | 11 35.88 | +11 58.4 | 0.964 | 1.952 | 4.5 | 19.1 |
| 3 22 | 11 26.75 | +15 30.7 | 0.996 | 1.965 | 9.4 | 19.4 |
| 4 1 | 11 19.12 | +18 20.9 | 1.052 | 1.978 | 14.9 | 19.7 |
| 4 11 | 11 14.20 | +20 21.2 | 1.130 | 1.991 | 19.7 | 20.0 |
| 4 21 | 11 12.49 | +21 33.5 | 1.223 | 2.003 | 23.3 | 20.3 |

**346841** 2009 $DD_{77}$ 3 13.5 342°.19 1°.4/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.00 | + 4 34.0 | 2.019 | 2.880 | 11.5 | 21.0 |
| 2 21 | 11 49.35 | + 5 17.1 | 1.946 | 2.877 | 8.1 | 20.8 |
| 3 2 | 11 43.00 | + 6 8.4 | 1.899 | 2.874 | 4.3 | 20.6 |
| 3 12 | 11 35.63 | + 7 2.2 | 1.879 | 2.871 | 1.4 | 20.4 |
| 3 22 | 11 28.10 | + 7 52.6 | 1.889 | 2.869 | 4.4 | 20.6 |
| 4 1 | 11 21.27 | + 8 33.9 | 1.925 | 2.867 | 8.2 | 20.8 |
| 4 11 | 11 15.91 | + 9 2.1 | 1.987 | 2.865 | 11.6 | 21.0 |
| 4 21 | 11 12.50 | + 9 15.3 | 2.070 | 2.864 | 14.6 | 21.2 |

**62587** 2000 $ST_{299}$ 3 13.5 17°.68 3°.0/17.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.70 | − 9 25.4 | 2.258 | 3.067 | 12.3 | 19.1 |
| 2 21 | 11 48.31 | − 9 4.3 | 2.176 | 3.068 | 9.5 | 18.9 |
| 3 2 | 11 42.39 | − 8 25.8 | 2.119 | 3.069 | 6.4 | 18.8 |
| 3 12 | 11 35.56 | − 7 32.6 | 2.089 | 3.070 | 3.5 | 18.6 |
| 3 22 | 11 28.55 | − 6 29.3 | 2.087 | 3.071 | 3.5 | 18.6 |
| 4 1 | 11 22.17 | − 5 21.6 | 2.114 | 3.072 | 6.4 | 18.8 |
| 4 11 | 11 17.08 | − 4 15.9 | 2.168 | 3.074 | 9.5 | 18.9 |
| 4 21 | 11 13.75 | − 3 17.4 | 2.245 | 3.075 | 12.4 | 19.1 |

**122380** 2000 $QA_{70}$ 3 13.5 188°.99 1°.2/14.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.66 | − 2 25.4 | 2.526 | 3.347 | 10.8 | 20.4 |
| 2 21 | 11 53.10 | − 2 20.2 | 2.440 | 3.346 | 8.0 | 20.2 |
| 3 2 | 11 44.97 | − 2 4.9 | 2.381 | 3.344 | 4.7 | 20.0 |
| 3 12 | 11 35.89 | − 1 42.1 | 2.351 | 3.342 | 1.6 | 19.8 |
| 3 22 | 11 26.62 | − 1 15.0 | 2.352 | 3.338 | 2.9 | 19.9 |
| 4 1 | 11 17.95 | − 0 47.8 | 2.384 | 3.335 | 6.3 | 20.1 |
| 4 11 | 11 10.59 | − 0 24.2 | 2.444 | 3.330 | 9.4 | 20.3 |
| 4 21 | 11 4.99 | − 0 7.2 | 2.528 | 3.325 | 12.1 | 20.5 |

**204192** 2004 $BX_{88}$ 3 13.5 132°.07 4°.5/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.76 | −14 16.1 | 2.490 | 3.263 | 12.4 | 20.6 |
| 2 21 | 11 50.35 | −14 20.9 | 2.411 | 3.273 | 9.9 | 20.4 |
| 3 2 | 11 43.46 | −14 7.9 | 2.356 | 3.282 | 7.3 | 20.3 |
| 3 12 | 11 35.69 | −13 38.2 | 2.328 | 3.291 | 5.1 | 20.1 |
| 3 22 | 11 27.79 | −12 54.7 | 2.328 | 3.299 | 4.6 | 20.1 |
| 4 1 | 11 20.50 | −12 2.0 | 2.358 | 3.308 | 6.4 | 20.2 |
| 4 11 | 11 14.49 | −11 5.8 | 2.414 | 3.315 | 8.9 | 20.4 |
| 4 21 | 11 10.20 | −10 11.5 | 2.495 | 3.323 | 11.4 | 20.6 |

**168021** 2005 $JX_{23}$ 3 13.5 8°.51 0°.5/13.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.02 | + 1 41.2 | 1.812 | 2.670 | 12.7 | 20.8 |
| 2 21 | 11 49.50 | + 2 18.2 | 1.743 | 2.671 | 9.1 | 20.5 |
| 3 2 | 11 43.12 | + 3 6.6 | 1.698 | 2.672 | 4.9 | 20.3 |
| 3 12 | 11 35.66 | + 4 0.7 | 1.681 | 2.674 | 0.7 | 20.0 |
| 3 22 | 11 28.02 | + 4 54.2 | 1.691 | 2.676 | 4.0 | 20.2 |
| 4 1 | 11 21.20 | + 5 40.7 | 1.729 | 2.679 | 8.3 | 20.5 |
| 4 11 | 11 15.99 | + 6 15.0 | 1.791 | 2.682 | 12.0 | 20.7 |
| 4 21 | 11 12.90 | + 6 34.5 | 1.874 | 2.685 | 15.2 | 20.9 |

**265341** 2004 $PV_{88}$ 3 13.5 256°.51 1°.5/11.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.27 | + 4 28.0 | 1.913 | 2.772 | 12.1 | 20.9 |
| 2 21 | 11 51.13 | + 5 16.3 | 1.832 | 2.762 | 8.6 | 20.6 |
| 3 2 | 11 44.06 | + 6 14.2 | 1.776 | 2.751 | 4.6 | 20.3 |
| 3 12 | 11 35.79 | + 7 15.4 | 1.748 | 2.740 | 1.5 | 20.1 |
| 3 22 | 11 27.24 | + 8 13.2 | 1.749 | 2.729 | 4.7 | 20.3 |
| 4 1 | 11 19.41 | + 9 1.2 | 1.777 | 2.718 | 8.8 | 20.5 |
| 4 11 | 11 13.16 | + 9 34.6 | 1.831 | 2.706 | 12.6 | 20.7 |
| 4 21 | 11 9.06 | + 9 51.4 | 1.905 | 2.694 | 15.8 | 20.9 |

**282186** 2001 $TG_{180}$ 3 13.5 131°.48 3°.6/17.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.01 | −11 46.2 | 2.451 | 3.241 | 12.0 | 20.4 |
| 2 21 | 11 49.13 | −11 36.2 | 2.370 | 3.247 | 9.4 | 20.3 |
| 3 2 | 11 42.80 | −11 9.0 | 2.313 | 3.252 | 6.6 | 20.1 |
| 3 12 | 11 35.62 | −10 26.7 | 2.284 | 3.257 | 4.2 | 19.9 |
| 3 22 | 11 28.29 | − 9 32.8 | 2.284 | 3.262 | 3.9 | 19.9 |
| 4 1 | 11 21.56 | − 8 32.4 | 2.312 | 3.267 | 6.1 | 20.1 |
| 4 11 | 11 16.07 | − 7 31.3 | 2.368 | 3.272 | 8.9 | 20.2 |
| 4 21 | 11 12.26 | − 6 34.6 | 2.448 | 3.277 | 11.5 | 20.4 |

**38187** 1999 $KH_{7}$ 3 13.5 125°.84 4°.1/ 9.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.26 | +10 14.1 | 1.630 | 2.501 | 13.2 | 18.9 |
| 2 21 | 11 53.32 | +11 30.1 | 1.577 | 2.511 | 9.3 | 18.7 |
| 3 2 | 11 45.24 | +12 50.0 | 1.549 | 2.521 | 5.5 | 18.5 |
| 3 12 | 11 35.94 | +14 4.5 | 1.548 | 2.531 | 4.2 | 18.4 |
| 3 22 | 11 26.59 | +15 5.0 | 1.575 | 2.540 | 7.1 | 18.6 |
| 4 1 | 11 18.31 | +15 45.5 | 1.629 | 2.549 | 11.0 | 18.9 |
| 4 11 | 11 12.02 | +16 3.7 | 1.705 | 2.557 | 14.5 | 19.1 |
| 4 21 | 11 8.21 | +16 0.1 | 1.800 | 2.565 | 17.4 | 19.3 |

**122728** 2000 $SJ_{43}$ 3 13.5 168°.87 4°.6/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.77 | −14 10.6 | 2.323 | 3.098 | 13.1 | 20.4 |
| 2 21 | 11 51.20 | −14 8.7 | 2.238 | 3.102 | 10.5 | 20.3 |
| 3 2 | 11 43.99 | −13 47.4 | 2.177 | 3.106 | 7.6 | 20.1 |
| 3 12 | 11 35.79 | −13 7.9 | 2.143 | 3.109 | 5.2 | 20.0 |
| 3 22 | 11 27.39 | −12 13.4 | 2.138 | 3.111 | 4.8 | 19.9 |
| 4 1 | 11 19.64 | −11 9.4 | 2.161 | 3.113 | 6.7 | 20.0 |
| 4 11 | 11 13.26 | −10 2.4 | 2.212 | 3.114 | 9.5 | 20.2 |
| 4 21 | 11 8.76 | − 8 58.4 | 2.287 | 3.115 | 12.3 | 20.4 |

**516396** 2000 $WY_{28}$ 3 13.5 68°.91 27°.6/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 40.47 | +50 37.2 | 0.651 | 1.480 | 31.7 | 21.4 |
| 2 21 | 12 23.28 | +52 15.8 | 0.675 | 1.520 | 29.3 | 21.4 |
| 3 2 | 12 0.64 | +52 36.4 | 0.710 | 1.561 | 27.9 | 21.6 |
| 3 12 | 11 37.66 | +51 30.0 | 0.757 | 1.601 | 27.6 | 21.7 |
| 3 22 | 11 18.76 | +49 8.2 | 0.817 | 1.640 | 28.1 | 22.0 |
| 4 1 | 11 6.12 | +45 53.5 | 0.890 | 1.679 | 29.1 | 22.2 |
| 4 11 | 10 59.81 | +42 9.3 | 0.975 | 1.716 | 30.2 | 22.5 |
| 4 21 | 10 58.74 | +38 13.1 | 1.071 | 1.752 | 31.3 | 22.8 |

**106374** 2000 $VQ_{11}$ 3 13.5 75°.61 2°.9/16.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.10 | − 7 37.9 | 1.454 | 2.287 | 16.7 | 19.6 |
| 2 21 | 11 52.61 | − 7 6.4 | 1.401 | 2.308 | 12.5 | 19.4 |
| 3 2 | 11 44.86 | − 6 11.7 | 1.369 | 2.329 | 7.9 | 19.2 |
| 3 12 | 11 35.90 | − 4 59.0 | 1.363 | 2.351 | 3.6 | 19.0 |
| 3 22 | 11 26.91 | − 3 36.7 | 1.384 | 2.372 | 4.2 | 19.1 |
| 4 1 | 11 19.13 | − 2 14.6 | 1.432 | 2.392 | 8.5 | 19.4 |
| 4 11 | 11 13.46 | − 1 1.7 | 1.504 | 2.413 | 12.7 | 19.7 |
| 4 21 | 11 10.38 | − 0 3.8 | 1.597 | 2.433 | 16.3 | 19.9 |

**222322** 2000 $TS_{57}$ 3 13.5 125°.85 1°.3/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.53 | + 3 17.3 | 1.949 | 2.806 | 12.0 | 20.6 |
| 2 21 | 11 50.44 | + 4 17.6 | 1.884 | 2.813 | 8.5 | 20.4 |
| 3 2 | 11 43.59 | + 5 27.8 | 1.845 | 2.820 | 4.5 | 20.2 |
| 3 12 | 11 35.73 | + 6 41.3 | 1.834 | 2.826 | 1.3 | 20.0 |
| 3 22 | 11 27.76 | + 7 50.9 | 1.852 | 2.832 | 4.4 | 20.2 |
| 4 1 | 11 20.59 | + 8 50.2 | 1.898 | 2.839 | 8.3 | 20.4 |
| 4 11 | 11 14.98 | + 9 34.6 | 1.969 | 2.845 | 11.8 | 20.7 |
| 4 21 | 11 11.40 | +10 2.0 | 2.062 | 2.850 | 14.8 | 20.9 |

**448163** 2008 $TN_{36}$ 3 13.5 95°.93 0°.5/13.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.67 | − 0 51.1 | 1.472 | 2.322 | 15.6 | 21.9 |
| 2 21 | 11 55.10 | − 0 22.3 | 1.420 | 2.342 | 11.2 | 21.7 |
| 3 2 | 11 46.22 | + 0 21.8 | 1.391 | 2.362 | 6.3 | 21.5 |
| 3 12 | 11 36.07 | + 1 15.0 | 1.389 | 2.382 | 1.1 | 21.2 |
| 3 22 | 11 25.94 | + 2 9.7 | 1.414 | 2.401 | 4.3 | 21.4 |
| 4 1 | 11 17.08 | + 2 58.2 | 1.466 | 2.420 | 9.1 | 21.8 |
| 4 11 | 11 10.43 | + 3 34.7 | 1.543 | 2.438 | 13.3 | 22.1 |
| 4 21 | 11 6.49 | + 3 55.9 | 1.639 | 2.456 | 16.8 | 22.3 |

**468158** 2014 $WX_{251}$ 3 13.5 16°.98 8°.9/19.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.13 | −15 59.8 | 1.348 | 2.149 | 19.5 | 20.1 |
| 2 21 | 11 53.12 | −17 14.3 | 1.284 | 2.156 | 16.1 | 19.9 |
| 3 2 | 11 45.40 | −18 0.6 | 1.239 | 2.163 | 12.6 | 19.7 |
| 3 12 | 11 36.00 | −18 16.0 | 1.216 | 2.171 | 9.7 | 19.5 |
| 3 22 | 11 26.26 | −18 1.9 | 1.217 | 2.181 | 9.0 | 19.5 |
| 4 1 | 11 17.64 | −17 24.3 | 1.242 | 2.191 | 10.8 | 19.7 |
| 4 11 | 11 11.37 | −16 33.5 | 1.289 | 2.203 | 14.0 | 19.9 |
| 4 21 | 11 8.09 | −15 39.6 | 1.355 | 2.215 | 17.3 | 20.1 |

**413941** 2006 $YP_{19}$ 3 13.5 55°.96 1°.7/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.79 | − 3 14.7 | 1.543 | 2.389 | 15.2 | 21.3 |
| 2 21 | 11 52.34 | − 3 0.6 | 1.485 | 2.403 | 11.2 | 21.1 |
| 3 2 | 11 44.73 | − 2 29.7 | 1.451 | 2.418 | 6.6 | 20.8 |
| 3 12 | 11 35.89 | − 1 46.6 | 1.442 | 2.433 | 2.2 | 20.6 |
| 3 22 | 11 26.99 | − 0 57.7 | 1.460 | 2.448 | 3.9 | 20.7 |
| 4 1 | 11 19.17 | − 0 10.4 | 1.505 | 2.464 | 8.4 | 21.0 |
| 4 11 | 11 13.35 | + 0 28.8 | 1.575 | 2.479 | 12.5 | 21.3 |
| 4 21 | 11 10.02 | + 0 55.7 | 1.665 | 2.495 | 16.0 | 21.6 |

**243989** 2001 $RP_{105}$ 3 13.5 202°.24 1°.6/11.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.61 | + 6 50.9 | 2.449 | 3.303 | 10.0 | 20.7 |
| 2 21 | 11 50.96 | + 7 20.6 | 2.373 | 3.300 | 7.0 | 20.5 |
| 3 2 | 11 43.81 | + 7 54.9 | 2.324 | 3.297 | 3.8 | 20.3 |
| 3 12 | 11 35.78 | + 8 29.1 | 2.304 | 3.294 | 1.6 | 20.1 |
| 3 22 | 11 27.60 | + 8 59.1 | 2.314 | 3.291 | 4.1 | 20.3 |
| 4 1 | 11 20.05 | + 9 20.9 | 2.353 | 3.287 | 7.3 | 20.5 |
| 4 11 | 11 13.78 | + 9 31.8 | 2.418 | 3.284 | 10.3 | 20.7 |
| 4 21 | 11 9.25 | + 9 30.7 | 2.506 | 3.280 | 12.9 | 20.8 |

**322534** 2011 $YD_{21}$ 3 13.5 316°.64 2°.1/11.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.28 | + 4 9.9 | 1.423 | 2.296 | 14.6 | 20.4 |
| 2 21 | 11 50.93 | + 5 10.5 | 1.350 | 2.286 | 10.4 | 20.1 |
| 3 2 | 11 44.15 | + 6 24.7 | 1.300 | 2.277 | 5.6 | 19.8 |
| 3 12 | 11 35.84 | + 7 43.8 | 1.276 | 2.268 | 2.1 | 19.5 |
| 3 22 | 11 27.19 | + 8 58.1 | 1.278 | 2.259 | 5.9 | 19.8 |
| 4 1 | 11 19.49 | + 9 58.3 | 1.306 | 2.251 | 10.9 | 20.0 |
| 4 11 | 11 13.84 | +10 38.1 | 1.356 | 2.243 | 15.4 | 20.3 |
| 4 21 | 11 10.87 | +10 55.2 | 1.425 | 2.236 | 19.1 | 20.5 |

**304048** 2006 $DO_{216}$ 3 13.5 257°.95 0°.1/13.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.04 | − 0 21.5 | 1.560 | 2.415 | 14.6 | 21.5 |
| 2 21 | 11 52.07 | + 0 26.2 | 1.479 | 2.405 | 10.6 | 21.2 |
| 3 2 | 11 44.75 | + 1 31.0 | 1.422 | 2.395 | 5.9 | 20.9 |
| 3 12 | 11 35.93 | + 2 46.6 | 1.391 | 2.384 | 0.7 | 20.5 |
| 3 22 | 11 26.73 | + 4 4.5 | 1.387 | 2.373 | 4.5 | 20.8 |
| 4 1 | 11 18.38 | + 5 15.6 | 1.410 | 2.362 | 9.5 | 21.0 |
| 4 11 | 11 11.96 | + 6 12.4 | 1.458 | 2.351 | 14.1 | 21.3 |
| 4 21 | 11 8.12 | + 6 50.4 | 1.525 | 2.340 | 17.9 | 21.5 |

**275180** 2009 $WQ_{43}$ 3 13.5 79°.00 3°.3/10.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.87 | + 9 35.5 | 1.879 | 2.748 | 11.8 | 20.7 |
| 2 21 | 11 50.77 | +10 38.2 | 1.818 | 2.752 | 8.3 | 20.5 |
| 3 2 | 11 43.81 | +11 45.0 | 1.782 | 2.755 | 4.8 | 20.3 |
| 3 12 | 11 35.80 | +12 48.6 | 1.774 | 2.759 | 3.5 | 20.2 |
| 3 22 | 11 27.66 | +13 42.0 | 1.794 | 2.762 | 6.1 | 20.4 |
| 4 1 | 11 20.37 | +14 19.5 | 1.841 | 2.765 | 9.7 | 20.6 |
| 4 11 | 11 14.73 | +14 38.5 | 1.912 | 2.769 | 13.0 | 20.8 |
| 4 21 | 11 11.21 | +14 38.7 | 2.003 | 2.772 | 15.8 | 21.0 |

**520846** 2014 $UC_{238}$ 3 13.5 46°.98 4°.2/ 9.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.99 | + 9 43.9 | 1.385 | 2.265 | 14.4 | 21.0 |
| 2 21 | 11 51.84 | +10 57.2 | 1.346 | 2.285 | 10.1 | 20.8 |
| 3 2 | 11 44.44 | +12 14.2 | 1.332 | 2.306 | 5.9 | 20.6 |
| 3 12 | 11 35.87 | +13 24.6 | 1.343 | 2.327 | 4.3 | 20.6 |
| 3 22 | 11 27.39 | +14 19.6 | 1.380 | 2.349 | 7.4 | 20.8 |
| 4 1 | 11 20.19 | +14 53.2 | 1.442 | 2.371 | 11.4 | 21.1 |
| 4 11 | 11 15.16 | +15 3.4 | 1.527 | 2.393 | 15.1 | 21.4 |
| 4 21 | 11 12.70 | +14 51.7 | 1.629 | 2.416 | 18.1 | 21.6 |

**33980** 2000 $NW_{21}$ 3 13.5 198°.52 0°.0/13.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.62 | + 0 4.7 | 2.347 | 3.185 | 10.9 | 20.4 |
| 2 21 | 11 51.07 | + 0 44.3 | 2.264 | 3.182 | 7.9 | 20.1 |
| 3 2 | 11 43.92 | + 1 34.6 | 2.207 | 3.178 | 4.4 | 19.9 |
| 3 12 | 11 35.82 | + 2 31.2 | 2.180 | 3.173 | 0.6 | 19.6 |
| 3 22 | 11 27.53 | + 3 28.9 | 2.182 | 3.168 | 3.2 | 19.8 |
| 4 1 | 11 19.84 | + 4 22.3 | 2.215 | 3.162 | 6.9 | 20.0 |
| 4 11 | 11 13.46 | + 5 6.8 | 2.274 | 3.155 | 10.2 | 20.2 |
| 4 21 | 11 8.88 | + 5 39.4 | 2.356 | 3.148 | 13.1 | 20.4 |

**300105** 2006 $UX_{279}$ 3 13.5 258°.53 1°.0/12.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.42 | + 3 56.9 | 2.453 | 3.304 | 10.1 | 21.5 |
| 2 21 | 11 49.49 | + 4 34.7 | 2.365 | 3.291 | 7.1 | 21.3 |
| 3 2 | 11 43.06 | + 5 20.0 | 2.304 | 3.278 | 3.8 | 21.0 |
| 3 12 | 11 35.71 | + 6 8.3 | 2.272 | 3.264 | 1.0 | 20.8 |
| 3 22 | 11 28.14 | + 6 54.8 | 2.270 | 3.251 | 3.7 | 21.0 |
| 4 1 | 11 21.09 | + 7 34.8 | 2.296 | 3.237 | 7.1 | 21.2 |
| 4 11 | 11 15.25 | + 8 4.7 | 2.349 | 3.223 | 10.2 | 21.4 |
| 4 21 | 11 11.09 | + 8 22.1 | 2.425 | 3.209 | 12.9 | 21.5 |

**30295** Anvitagupta 3 13.5 179°.53 0°.8/12.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.44 | + 2 0.2 | 1.971 | 2.822 | 12.1 | 19.6 |
| 2 21 | 11 51.14 | + 2 53.2 | 1.898 | 2.823 | 8.6 | 19.3 |
| 3 2 | 11 44.02 | + 3 57.3 | 1.850 | 2.824 | 4.6 | 19.1 |
| 3 12 | 11 35.84 | + 5 6.6 | 1.831 | 2.824 | 0.9 | 18.8 |
| 3 22 | 11 27.47 | + 6 14.2 | 1.841 | 2.824 | 4.1 | 19.1 |
| 4 1 | 11 19.86 | + 7 13.6 | 1.879 | 2.823 | 8.2 | 19.3 |
| 4 11 | 11 13.82 | + 7 59.6 | 1.943 | 2.822 | 11.8 | 19.5 |
| 4 21 | 11 9.83 | + 8 29.6 | 2.029 | 2.821 | 14.8 | 19.7 |

**430096** 2013 $SX_{66}$ 3 13.5 111°.68 1°.7/11.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.51 | + 6 58.7 | 2.097 | 2.950 | 11.4 | 20.9 |
| 2 21 | 11 53.80 | + 7 19.2 | 2.038 | 2.964 | 8.1 | 20.7 |
| 3 2 | 11 45.37 | + 7 43.8 | 2.005 | 2.978 | 4.4 | 20.5 |
| 3 12 | 11 36.00 | + 8 8.0 | 2.000 | 2.991 | 1.7 | 20.3 |
| 3 22 | 11 26.62 | + 8 27.0 | 2.026 | 3.004 | 4.4 | 20.5 |
| 4 1 | 11 18.12 | + 8 37.2 | 2.080 | 3.017 | 8.0 | 20.8 |
| 4 11 | 11 11.25 | + 8 36.3 | 2.161 | 3.029 | 11.2 | 21.0 |
| 4 21 | 11 6.44 | + 8 23.6 | 2.263 | 3.041 | 13.9 | 21.2 |

**10449** Takuma 3 13.5 194°.31 0°.2/13.3 18 R

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.72 | + 1 9.3 | 3.236 | 4.070 | 8.3 | 19.3 |
| 2 21 | 11 48.65 | + 1 46.6 | 3.150 | 4.067 | 5.9 | 19.1 |
| 3 2 | 11 42.47 | + 2 30.9 | 3.092 | 4.063 | 3.2 | 18.9 |
| 3 12 | 11 35.63 | + 3 19.1 | 3.065 | 4.059 | 0.4 | 18.7 |
| 3 22 | 11 28.67 | + 4 7.5 | 3.070 | 4.054 | 2.5 | 18.9 |
| 4 1 | 11 22.13 | + 4 52.4 | 3.105 | 4.048 | 5.3 | 19.0 |
| 4 11 | 11 16.50 | + 5 30.7 | 3.168 | 4.042 | 7.9 | 19.2 |
| 4 21 | 11 12.15 | + 6 0.2 | 3.256 | 4.036 | 10.0 | 19.3 |

**466334** 2013 $RJ_{26}$ 3 13.5 212°.88 2°.1/16.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.30 | − 7 44.7 | 2.375 | 3.185 | 11.8 | 22.2 |
| 2 21 | 11 50.17 | − 7 1.0 | 2.281 | 3.177 | 8.9 | 22.0 |
| 3 2 | 11 43.46 | − 6 0.1 | 2.213 | 3.169 | 5.7 | 21.8 |
| 3 12 | 11 35.77 | − 4 45.5 | 2.173 | 3.159 | 2.6 | 21.6 |
| 3 22 | 11 27.85 | − 3 22.4 | 2.163 | 3.150 | 3.1 | 21.6 |
| 4 1 | 11 20.47 | − 1 57.3 | 2.184 | 3.139 | 6.4 | 21.8 |
| 4 11 | 11 14.37 | − 0 36.8 | 2.232 | 3.128 | 9.7 | 22.0 |
| 4 21 | 11 10.03 | + 0 33.8 | 2.305 | 3.116 | 12.7 | 22.1 |

**160763** 2000 $SJ_{108}$ 3 13.5 160°.04 0°.2/13.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.99 | − 0 44.5 | 1.913 | 2.754 | 12.9 | 21.1 |
| 2 21 | 11 52.96 | − 0 1.0 | 1.842 | 2.761 | 9.3 | 20.9 |
| 3 2 | 11 45.03 | + 0 55.8 | 1.797 | 2.767 | 5.2 | 20.6 |
| 3 12 | 11 35.98 | + 2 0.5 | 1.779 | 2.773 | 0.8 | 20.3 |
| 3 22 | 11 26.77 | + 3 6.6 | 1.792 | 2.778 | 3.7 | 20.5 |
| 4 1 | 11 18.42 | + 4 7.0 | 1.833 | 2.782 | 7.9 | 20.8 |
| 4 11 | 11 11.75 | + 4 56.3 | 1.900 | 2.785 | 11.7 | 21.0 |
| 4 21 | 11 7.26 | + 5 31.2 | 1.989 | 2.788 | 14.9 | 21.2 |

**210680** 2000 $RK_{64}$ 3 13.5 129°.20 5°.0/18.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.32 | −14 31.9 | 1.910 | 2.692 | 15.3 | 20.4 |
| 2 21 | 11 53.21 | −14 20.3 | 1.840 | 2.708 | 12.2 | 20.2 |
| 3 2 | 11 45.16 | −13 44.7 | 1.792 | 2.724 | 8.8 | 20.0 |
| 3 12 | 11 35.99 | −12 47.2 | 1.771 | 2.739 | 5.8 | 19.9 |
| 3 22 | 11 26.72 | −11 32.7 | 1.778 | 2.754 | 5.2 | 19.9 |
| 4 1 | 11 18.35 | −10 8.9 | 1.814 | 2.768 | 7.6 | 20.0 |
| 4 11 | 11 11.75 | − 8 44.4 | 1.876 | 2.780 | 10.8 | 20.3 |
| 4 21 | 11 7.39 | − 7 26.6 | 1.961 | 2.793 | 13.8 | 20.5 |

**374083** 2004 $RT_{181}$ 3 13.5 205°.54 2°.5/15.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.95 | − 5 24.8 | 2.069 | 2.889 | 12.9 | 21.1 |
| 2 21 | 11 52.94 | − 5 31.4 | 1.985 | 2.887 | 9.7 | 20.9 |
| 3 2 | 11 45.04 | − 5 24.0 | 1.926 | 2.884 | 6.2 | 20.7 |
| 3 12 | 11 36.00 | − 5 4.4 | 1.895 | 2.881 | 2.9 | 20.5 |
| 3 22 | 11 26.69 | − 4 36.4 | 1.892 | 2.878 | 3.6 | 20.5 |
| 4 1 | 11 18.08 | − 4 4.8 | 1.919 | 2.874 | 7.1 | 20.7 |
| 4 11 | 11 11.02 | − 3 34.9 | 1.972 | 2.871 | 10.7 | 20.9 |
| 4 21 | 11 6.05 | − 3 11.0 | 2.048 | 2.867 | 13.8 | 21.1 |

**368807** 2005 $YK_{117}$ 3 13.5 140°.73 0°.3/13.2 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.20 | + 1 28.0 | 2.277 | 3.120 | 11.1 | 21.8 |
| 2 21 | 11 51.41 | + 2 4.7 | 2.210 | 3.131 | 7.9 | 21.7 |
| 3 2 | 11 44.07 | + 2 50.4 | 2.169 | 3.141 | 4.3 | 21.4 |
| 3 12 | 11 35.86 | + 3 40.5 | 2.158 | 3.151 | 0.5 | 21.2 |
| 3 22 | 11 27.57 | + 4 30.0 | 2.176 | 3.160 | 3.4 | 21.4 |
| 4 1 | 11 19.99 | + 5 13.8 | 2.224 | 3.169 | 7.0 | 21.7 |
| 4 11 | 11 13.82 | + 5 48.0 | 2.298 | 3.178 | 10.2 | 21.9 |
| 4 21 | 11 9.47 | + 6 10.2 | 2.395 | 3.185 | 12.9 | 22.1 |

**87462** 2000 $QS_{127}$ 3 13.5 154°.29 0°.7/14.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.01 | − 3 19.4 | 2.338 | 3.167 | 11.3 | 19.8 |
| 2 21 | 11 49.87 | − 2 20.9 | 2.263 | 3.175 | 8.2 | 19.7 |
| 3 2 | 11 43.24 | − 1 8.7 | 2.215 | 3.182 | 4.7 | 19.4 |
| 3 12 | 11 35.76 | + 0 12.3 | 2.197 | 3.189 | 1.1 | 19.2 |
| 3 22 | 11 28.16 | + 1 36.0 | 2.208 | 3.195 | 3.0 | 19.3 |
| 4 1 | 11 21.21 | + 2 56.0 | 2.250 | 3.201 | 6.6 | 19.6 |
| 4 11 | 11 15.56 | + 4 6.6 | 2.319 | 3.206 | 9.8 | 19.8 |
| 4 21 | 11 11.65 | + 5 4.1 | 2.412 | 3.210 | 12.6 | 20.0 |

**265690** 2005 $UO_{116}$ 3 13.5 162°.52 0°.5/14.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.76 | − 1 37.8 | 2.202 | 3.037 | 11.7 | 21.9 |
| 2 21 | 11 51.20 | − 1 0.3 | 2.128 | 3.042 | 8.5 | 21.7 |
| 3 2 | 11 44.00 | − 0 10.5 | 2.079 | 3.047 | 4.8 | 21.5 |
| 3 12 | 11 35.86 | + 0 47.1 | 2.059 | 3.052 | 1.0 | 21.2 |
| 3 22 | 11 27.58 | + 1 47.1 | 2.069 | 3.055 | 3.2 | 21.4 |
| 4 1 | 11 19.99 | + 2 43.6 | 2.108 | 3.059 | 7.0 | 21.7 |
| 4 11 | 11 13.82 | + 3 31.7 | 2.174 | 3.061 | 10.4 | 21.9 |
| 4 21 | 11 9.54 | + 4 8.0 | 2.263 | 3.064 | 13.2 | 22.1 |

**209603** 2004 $YZ_{14}$ 3 13.5 17°.64 0°.6/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.75 | − 0 18.4 | 1.183 | 2.053 | 17.2 | 19.9 |
| 2 21 | 11 52.18 | − 0 2.1 | 1.125 | 2.057 | 12.5 | 19.7 |
| 3 2 | 11 44.89 | + 0 31.8 | 1.088 | 2.062 | 7.0 | 19.4 |
| 3 12 | 11 35.99 | + 1 17.1 | 1.075 | 2.068 | 1.3 | 19.0 |
| 3 22 | 11 26.89 | + 2 5.3 | 1.086 | 2.074 | 4.8 | 19.3 |
| 4 1 | 11 19.07 | + 2 47.7 | 1.122 | 2.082 | 10.4 | 19.6 |
| 4 11 | 11 13.68 | + 3 17.0 | 1.179 | 2.091 | 15.2 | 19.9 |
| 4 21 | 11 11.30 | + 3 29.4 | 1.255 | 2.100 | 19.3 | 20.2 |

**324586** 2006 $XB_{12}$ 3 13.5 133°.47 0°.2/13.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.48 | − 0 14.6 | 2.055 | 2.894 | 12.2 | 21.1 |
| 2 21 | 11 52.44 | + 0 19.6 | 1.989 | 2.907 | 8.8 | 20.9 |
| 3 2 | 11 44.68 | + 1 5.1 | 1.950 | 2.920 | 4.9 | 20.7 |
| 3 12 | 11 35.95 | + 1 57.1 | 1.939 | 2.932 | 0.7 | 20.4 |
| 3 22 | 11 27.14 | + 2 50.1 | 1.957 | 2.943 | 3.4 | 20.6 |
| 4 1 | 11 19.15 | + 3 38.1 | 2.005 | 2.954 | 7.4 | 20.9 |
| 4 11 | 11 12.74 | + 4 16.6 | 2.079 | 2.964 | 10.8 | 21.1 |
| 4 21 | 11 8.35 | + 4 42.8 | 2.175 | 2.974 | 13.8 | 21.3 |

**218010** 2001 $XF_{217}$ 3 13.5 101°.37 2°.1/11.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.44 | + 6 32.9 | 2.013 | 2.871 | 11.7 | 20.3 |
| 2 21 | 11 52.34 | + 7 28.7 | 1.965 | 2.894 | 8.1 | 20.1 |
| 3 2 | 11 44.57 | + 8 29.8 | 1.942 | 2.916 | 4.4 | 20.0 |
| 3 12 | 11 35.93 | + 9 29.8 | 1.949 | 2.938 | 2.2 | 19.8 |
| 3 22 | 11 27.32 | +10 22.4 | 1.985 | 2.960 | 4.9 | 20.1 |
| 4 1 | 11 19.64 | +11 2.6 | 2.049 | 2.981 | 8.4 | 20.3 |
| 4 11 | 11 13.58 | +11 27.6 | 2.138 | 3.001 | 11.6 | 20.5 |
| 4 21 | 11 9.55 | +11 36.8 | 2.249 | 3.021 | 14.2 | 20.8 |

**352065** 2006 $WL_{73}$ 3 13.5 120°.10 1°.1/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.46 | + 4 42.3 | 2.540 | 3.391 | 9.8 | 21.5 |
| 2 21 | 11 49.36 | + 5 19.5 | 2.473 | 3.399 | 6.8 | 21.3 |
| 3 2 | 11 42.92 | + 6 2.7 | 2.433 | 3.407 | 3.7 | 21.1 |
| 3 12 | 11 35.72 | + 6 47.3 | 2.423 | 3.415 | 1.1 | 21.0 |
| 3 22 | 11 28.44 | + 7 28.9 | 2.442 | 3.422 | 3.6 | 21.2 |
| 4 1 | 11 21.78 | + 8 3.4 | 2.491 | 3.430 | 6.7 | 21.4 |
| 4 11 | 11 16.32 | + 8 27.7 | 2.566 | 3.437 | 9.6 | 21.6 |
| 4 21 | 11 12.46 | + 8 40.5 | 2.664 | 3.444 | 12.0 | 21.7 |

**109802** 2001 $RU_{94}$ 3 13.5 83°.61 1°.9/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.55 | − 4 9.3 | 1.747 | 2.582 | 14.2 | 19.0 |
| 2 21 | 11 52.71 | − 3 55.5 | 1.687 | 2.598 | 10.5 | 18.8 |
| 3 2 | 11 44.90 | − 3 25.8 | 1.650 | 2.614 | 6.3 | 18.6 |
| 3 12 | 11 35.99 | − 2 44.1 | 1.641 | 2.631 | 2.4 | 18.3 |
| 3 22 | 11 27.01 | − 1 56.1 | 1.660 | 2.647 | 3.7 | 18.5 |
| 4 1 | 11 19.01 | − 1 8.5 | 1.706 | 2.663 | 7.7 | 18.7 |
| 4 11 | 11 12.84 | − 0 27.4 | 1.778 | 2.679 | 11.5 | 19.0 |
| 4 21 | 11 8.97 | + 0 3.1 | 1.871 | 2.694 | 14.8 | 19.2 |

**351508** 2005 $RN_{33}$ 3 13.5 103°.14 7°.0/ 9.1 14 C

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 10.11 | +11 47.8 | 0.963 | 1.845 | 19.1 | 21.8 |
| 2 21 | 12 1.73 | +13 47.7 | 0.937 | 1.874 | 13.6 | 21.6 |
| 3 2 | 11 49.98 | +15 47.6 | 0.932 | 1.903 | 8.5 | 21.4 |
| 3 12 | 11 36.63 | +17 29.6 | 0.952 | 1.931 | 7.3 | 21.5 |
| 3 22 | 11 23.73 | +18 40.2 | 0.997 | 1.957 | 10.9 | 21.7 |
| 4 1 | 11 13.14 | +19 13.7 | 1.064 | 1.982 | 15.6 | 22.1 |
| 4 11 | 11 6.00 | +19 12.0 | 1.151 | 2.006 | 19.8 | 22.4 |
| 4 21 | 11 2.63 | +18 41.3 | 1.253 | 2.028 | 23.1 | 22.7 |

**312165** 2007 $UJ_{82}$ 3 13.5 5°.44 0°.3/13.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.50 | + 0 19.2 | 1.236 | 2.106 | 16.6 | 20.6 |
| 2 21 | 11 51.99 | + 0 39.3 | 1.173 | 2.105 | 12.0 | 20.3 |
| 3 2 | 11 44.80 | + 1 16.0 | 1.132 | 2.106 | 6.7 | 20.0 |
| 3 12 | 11 36.00 | + 2 3.2 | 1.114 | 2.107 | 1.0 | 19.6 |
| 3 22 | 11 26.93 | + 2 52.4 | 1.121 | 2.109 | 4.8 | 19.9 |
| 4 1 | 11 19.05 | + 3 35.1 | 1.153 | 2.112 | 10.3 | 20.2 |
| 4 11 | 11 13.51 | + 4 4.1 | 1.207 | 2.116 | 15.2 | 20.5 |
| 4 21 | 11 10.92 | + 4 15.9 | 1.280 | 2.120 | 19.2 | 20.7 |

**286157** 2001 $TD_{249}$ 3 13.5 185°.32 1°.7/11.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.13 | + 5 39.3 | 2.161 | 3.014 | 11.1 | 22.5 |
| 2 21 | 11 52.23 | + 6 23.5 | 2.087 | 3.014 | 7.9 | 22.3 |
| 3 2 | 11 44.60 | + 7 14.4 | 2.040 | 3.014 | 4.3 | 22.0 |
| 3 12 | 11 35.96 | + 8 6.4 | 2.022 | 3.013 | 1.7 | 21.8 |
| 3 22 | 11 27.15 | + 8 53.9 | 2.033 | 3.011 | 4.4 | 22.0 |
| 4 1 | 11 19.07 | + 9 31.8 | 2.074 | 3.009 | 8.1 | 22.2 |
| 4 11 | 11 12.47 | + 9 56.6 | 2.140 | 3.007 | 11.4 | 22.4 |
| 4 21 | 11 7.83 | +10 6.7 | 2.228 | 3.003 | 14.2 | 22.6 |

**403170** 2008 $GP_{123}$ 3 13.5 150°.47 2°.8/10.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.96 | + 9 16.1 | 2.130 | 2.989 | 11.1 | 21.1 |
| 2 21 | 11 52.76 | +10 9.6 | 2.069 | 2.998 | 7.8 | 20.9 |
| 3 2 | 11 44.86 | +11 6.6 | 2.034 | 3.007 | 4.4 | 20.7 |
| 3 12 | 11 36.00 | +12 0.6 | 2.029 | 3.015 | 2.9 | 20.6 |
| 3 22 | 11 27.06 | +12 45.8 | 2.053 | 3.022 | 5.4 | 20.8 |
| 4 1 | 11 18.94 | +13 17.7 | 2.106 | 3.029 | 8.7 | 21.0 |
| 4 11 | 11 12.38 | +13 33.8 | 2.184 | 3.035 | 11.8 | 21.2 |
| 4 21 | 11 7.83 | +13 33.9 | 2.282 | 3.040 | 14.4 | 21.4 |

**168263** 2006 $PX_{36}$ 3 13.5 176°.08 1°.6/11.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.24 | + 5 58.7 | 2.353 | 3.208 | 10.3 | 20.3 |
| 2 21 | 11 50.05 | + 6 39.8 | 2.281 | 3.209 | 7.2 | 20.2 |
| 3 2 | 11 43.36 | + 7 26.6 | 2.236 | 3.210 | 3.9 | 19.9 |
| 3 12 | 11 35.80 | + 8 14.2 | 2.219 | 3.210 | 1.6 | 19.8 |
| 3 22 | 11 28.11 | + 8 57.5 | 2.233 | 3.211 | 4.1 | 20.0 |
| 4 1 | 11 21.06 | + 9 32.1 | 2.275 | 3.211 | 7.4 | 20.2 |
| 4 11 | 11 15.31 | + 9 54.8 | 2.343 | 3.211 | 10.5 | 20.3 |
| 4 21 | 11 11.30 | +10 4.2 | 2.433 | 3.210 | 13.1 | 20.5 |

**122529** 2000 $QD_{211}$ 3 13.5 207°.56 0°.7/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.91 | + 2 16.6 | 1.866 | 2.714 | 12.8 | 20.7 |
| 2 21 | 11 53.79 | + 2 54.5 | 1.785 | 2.709 | 9.2 | 20.4 |
| 3 2 | 11 45.59 | + 3 43.4 | 1.730 | 2.703 | 5.0 | 20.2 |
| 3 12 | 11 36.11 | + 4 37.9 | 1.704 | 2.697 | 0.8 | 19.8 |
| 3 22 | 11 26.35 | + 5 31.4 | 1.706 | 2.689 | 4.3 | 20.1 |
| 4 1 | 11 17.38 | + 6 17.5 | 1.736 | 2.681 | 8.6 | 20.3 |
| 4 11 | 11 10.13 | + 6 51.1 | 1.793 | 2.673 | 12.6 | 20.5 |
| 4 21 | 11 5.19 | + 7 9.7 | 1.870 | 2.664 | 15.9 | 20.8 |

**190023** 2004 $PP_{83}$ 3 13.5 205°.89 0°.3/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.55 | + 0 54.7 | 2.245 | 3.082 | 11.4 | 20.6 |
| 2 21 | 11 53.24 | + 1 4.9 | 2.161 | 3.078 | 8.2 | 20.4 |
| 3 2 | 11 45.18 | + 1 24.1 | 2.103 | 3.073 | 4.6 | 20.2 |
| 3 12 | 11 36.05 | + 1 48.8 | 2.075 | 3.068 | 0.7 | 19.8 |
| 3 22 | 11 26.71 | + 2 14.9 | 2.076 | 3.062 | 3.3 | 20.0 |
| 4 1 | 11 18.02 | + 2 38.1 | 2.107 | 3.056 | 7.1 | 20.3 |
| 4 11 | 11 10.78 | + 2 54.6 | 2.165 | 3.049 | 10.5 | 20.5 |
| 4 21 | 11 5.50 | + 3 1.9 | 2.246 | 3.042 | 13.5 | 20.7 |

**319008** 2005 $UR_{482}$ 3 13.5 155°.40 11°.8/ 8.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 19.39 | +27 37.4 | 1.179 | 2.034 | 18.3 | 20.2 |
| 2 21 | 12 8.56 | +28 22.2 | 1.131 | 2.038 | 14.9 | 20.0 |
| 3 2 | 11 53.90 | +28 45.2 | 1.105 | 2.042 | 12.3 | 19.9 |
| 3 12 | 11 37.19 | +28 32.6 | 1.103 | 2.046 | 12.0 | 19.9 |
| 3 22 | 11 20.73 | +27 38.6 | 1.126 | 2.049 | 14.2 | 20.0 |
| 4 1 | 11 6.70 | +26 5.8 | 1.172 | 2.052 | 17.6 | 20.2 |
| 4 11 | 10 56.49 | +24 3.5 | 1.239 | 2.054 | 21.1 | 20.5 |
| 4 21 | 10 50.51 | +21 42.5 | 1.322 | 2.056 | 24.1 | 20.7 |

**502624** 2015 $CY_{27}$ 3 13.5 135°.87 2°.3/15.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.01 | − 5 30.3 | 2.030 | 2.854 | 12.9 | 21.3 |
| 2 21 | 11 51.54 | − 5 24.4 | 1.953 | 2.857 | 9.7 | 21.1 |
| 3 2 | 11 44.27 | − 5 3.4 | 1.900 | 2.860 | 6.1 | 20.9 |
| 3 12 | 11 35.93 | − 4 30.2 | 1.875 | 2.863 | 2.8 | 20.6 |
| 3 22 | 11 27.40 | − 3 49.1 | 1.879 | 2.865 | 3.5 | 20.7 |
| 4 1 | 11 19.61 | − 3 5.5 | 1.911 | 2.868 | 7.1 | 20.9 |
| 4 11 | 11 13.36 | − 2 25.3 | 1.969 | 2.870 | 10.6 | 21.1 |
| 4 21 | 11 9.14 | − 1 52.8 | 2.050 | 2.873 | 13.7 | 21.3 |

**508436** 2016 $KA_{5}$ 3 13.5 272°.72 5°.2/17.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.75 | −12 17.1 | 2.046 | 2.836 | 14.1 | 21.4 |
| 2 21 | 11 53.04 | −12 47.0 | 1.945 | 2.819 | 11.3 | 21.2 |
| 3 2 | 11 45.27 | −12 58.7 | 1.867 | 2.801 | 8.3 | 21.0 |
| 3 12 | 11 36.09 | −12 51.7 | 1.815 | 2.782 | 5.7 | 20.8 |
| 3 22 | 11 26.42 | −12 27.9 | 1.790 | 2.764 | 5.5 | 20.7 |
| 4 1 | 11 17.31 | −11 51.5 | 1.794 | 2.745 | 7.9 | 20.8 |
| 4 11 | 11 9.71 | −11 9.0 | 1.824 | 2.727 | 11.2 | 21.0 |
| 4 21 | 11 4.30 | −10 26.7 | 1.876 | 2.708 | 14.4 | 21.1 |

**215456** 2002 $PZ_{136}$ 3 13.5 134°.45 1°.2/14.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.17 | − 2 55.5 | 1.645 | 2.489 | 14.5 | 20.7 |
| 2 21 | 11 51.97 | − 2 25.0 | 1.573 | 2.492 | 10.6 | 20.4 |
| 3 2 | 11 44.63 | − 1 37.5 | 1.525 | 2.493 | 6.2 | 20.2 |
| 3 12 | 11 36.00 | − 0 37.7 | 1.503 | 2.495 | 1.7 | 19.9 |
| 3 22 | 11 27.14 | + 0 27.1 | 1.509 | 2.497 | 3.9 | 20.0 |
| 4 1 | 11 19.20 | + 1 29.1 | 1.542 | 2.499 | 8.5 | 20.3 |
| 4 11 | 11 13.11 | + 2 21.4 | 1.600 | 2.501 | 12.6 | 20.6 |
| 4 21 | 11 9.43 | + 2 59.3 | 1.679 | 2.502 | 16.2 | 20.8 |

**411411** 2010 $VP_{165}$ 3 13.5 83°.42 4°.2/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.31 | +11 51.8 | 1.675 | 2.545 | 13.0 | 20.6 |
| 2 21 | 11 53.97 | +12 45.4 | 1.630 | 2.563 | 9.2 | 20.4 |
| 3 2 | 11 45.57 | +13 39.8 | 1.609 | 2.580 | 5.6 | 20.2 |
| 3 12 | 11 36.11 | +14 27.0 | 1.616 | 2.598 | 4.3 | 20.2 |
| 3 22 | 11 26.69 | +15 0.4 | 1.651 | 2.615 | 6.9 | 20.4 |
| 4 1 | 11 18.42 | +15 15.6 | 1.711 | 2.632 | 10.5 | 20.6 |
| 4 11 | 11 12.14 | +15 11.6 | 1.796 | 2.649 | 13.8 | 20.9 |
| 4 21 | 11 8.29 | +14 49.5 | 1.900 | 2.666 | 16.6 | 21.1 |

**370773** 2004 $RY_{317}$ 3 13.5 171°.83 1°.6/15.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.87 | − 5 8.2 | 2.264 | 3.086 | 11.8 | 21.7 |
| 2 21 | 11 50.58 | − 4 36.9 | 2.184 | 3.089 | 8.8 | 21.5 |
| 3 2 | 11 43.70 | − 3 51.0 | 2.130 | 3.091 | 5.4 | 21.3 |
| 3 12 | 11 35.87 | − 2 54.2 | 2.104 | 3.093 | 2.1 | 21.1 |
| 3 22 | 11 27.88 | − 1 51.4 | 2.107 | 3.094 | 3.1 | 21.2 |
| 4 1 | 11 20.54 | − 0 48.5 | 2.140 | 3.095 | 6.6 | 21.4 |
| 4 11 | 11 14.56 | + 0 8.7 | 2.201 | 3.096 | 9.9 | 21.6 |
| 4 21 | 11 10.39 | + 0 56.1 | 2.284 | 3.096 | 12.8 | 21.8 |

**409409** 2005 $GC_{119}$ 3 13.5 39°.78 2°.0/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.66 | + 4 47.5 | 1.295 | 2.170 | 15.6 | 20.9 |
| 2 21 | 11 52.58 | + 5 33.5 | 1.244 | 2.181 | 11.0 | 20.7 |
| 3 2 | 11 45.02 | + 6 30.3 | 1.215 | 2.191 | 5.9 | 20.4 |
| 3 12 | 11 36.05 | + 7 29.2 | 1.211 | 2.203 | 2.0 | 20.2 |
| 3 22 | 11 27.01 | + 8 21.1 | 1.233 | 2.215 | 5.9 | 20.4 |
| 4 1 | 11 19.24 | + 8 58.5 | 1.279 | 2.227 | 10.8 | 20.8 |
| 4 11 | 11 13.77 | + 9 16.8 | 1.348 | 2.240 | 15.1 | 21.0 |
| 4 21 | 11 11.09 | + 9 15.2 | 1.436 | 2.253 | 18.7 | 21.3 |

**83378** 2001 $SG_{13}$ 3 13.5 235°.96 0°.0/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.93 | + 0 48.6 | 2.323 | 3.167 | 10.8 | 20.0 |
| 2 21 | 11 49.91 | + 1 18.5 | 2.241 | 3.161 | 7.8 | 19.8 |
| 3 2 | 11 43.33 | + 1 58.1 | 2.185 | 3.156 | 4.3 | 19.6 |
| 3 12 | 11 35.83 | + 2 43.4 | 2.157 | 3.150 | 0.6 | 19.3 |
| 3 22 | 11 28.13 | + 3 29.5 | 2.159 | 3.145 | 3.2 | 19.5 |
| 4 1 | 11 21.02 | + 4 11.6 | 2.190 | 3.139 | 6.9 | 19.7 |
| 4 11 | 11 15.20 | + 4 45.3 | 2.248 | 3.133 | 10.2 | 19.9 |
| 4 21 | 11 11.14 | + 5 7.9 | 2.328 | 3.127 | 13.0 | 20.1 |

**288783** 2004 $RL_{108}$ 3 13.5 113°.24 3°.2/16.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.32 | − 7 38.9 | 1.825 | 2.636 | 14.7 | 22.3 |
| 2 21 | 11 56.01 | − 7 38.1 | 1.766 | 2.660 | 11.2 | 22.2 |
| 3 2 | 11 46.69 | − 7 19.2 | 1.730 | 2.684 | 7.2 | 22.0 |
| 3 12 | 11 36.27 | − 6 44.9 | 1.723 | 2.706 | 3.7 | 21.8 |
| 3 22 | 11 25.83 | − 6 0.3 | 1.744 | 2.728 | 4.1 | 21.9 |
| 4 1 | 11 16.45 | − 5 11.7 | 1.794 | 2.749 | 7.6 | 22.1 |
| 4 11 | 11 9.01 | − 4 25.7 | 1.870 | 2.769 | 11.2 | 22.4 |
| 4 21 | 11 3.96 | − 3 47.5 | 1.969 | 2.788 | 14.3 | 22.6 |

**70174** 1999 $PJ_{3}$ 3 13.5 289°.50 0°.5/13.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.54 | + 1 58.2 | 1.497 | 2.358 | 14.8 | 19.3 |
| 2 21 | 11 53.40 | + 2 25.2 | 1.408 | 2.337 | 10.7 | 19.0 |
| 3 2 | 11 45.67 | + 3 6.2 | 1.341 | 2.315 | 5.9 | 18.6 |
| 3 12 | 11 36.18 | + 3 55.4 | 1.301 | 2.294 | 0.8 | 18.2 |
| 3 22 | 11 26.12 | + 4 45.7 | 1.287 | 2.273 | 4.9 | 18.4 |
| 4 1 | 11 16.84 | + 5 28.8 | 1.299 | 2.251 | 10.2 | 18.7 |
| 4 11 | 11 9.58 | + 5 58.3 | 1.335 | 2.230 | 15.0 | 18.9 |
| 4 21 | 11 5.11 | + 6 10.5 | 1.390 | 2.209 | 19.1 | 19.1 |

**201932** 2004 $DW_{28}$ 3 13.5 69°.00 1°.5/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.79 | + 4 48.7 | 2.089 | 2.948 | 11.2 | 20.3 |
| 2 21 | 11 49.86 | + 5 34.6 | 2.025 | 2.954 | 7.9 | 20.1 |
| 3 2 | 11 43.31 | + 6 27.9 | 1.986 | 2.961 | 4.2 | 19.9 |
| 3 12 | 11 35.84 | + 7 22.8 | 1.976 | 2.968 | 1.5 | 19.7 |
| 3 22 | 11 28.26 | + 8 13.6 | 1.995 | 2.974 | 4.3 | 19.9 |
| 4 1 | 11 21.43 | + 8 55.0 | 2.041 | 2.981 | 7.9 | 20.2 |
| 4 11 | 11 16.05 | + 9 23.3 | 2.113 | 2.988 | 11.2 | 20.4 |
| 4 21 | 11 12.55 | + 9 37.0 | 2.207 | 2.995 | 13.9 | 20.6 |

**401000** 2011 $QV_{13}$ 3 13.5 175°.05 0°.7/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.84 | + 1 37.8 | 2.120 | 2.961 | 11.8 | 22.9 |
| 2 21 | 11 53.47 | + 2 31.0 | 2.045 | 2.966 | 8.4 | 22.7 |
| 3 2 | 11 45.32 | + 3 35.0 | 1.997 | 2.969 | 4.5 | 22.5 |
| 3 12 | 11 36.11 | + 4 44.0 | 1.978 | 2.971 | 0.7 | 22.2 |
| 3 22 | 11 26.73 | + 5 51.7 | 1.990 | 2.973 | 3.9 | 22.4 |
| 4 1 | 11 18.11 | + 6 51.6 | 2.031 | 2.973 | 7.8 | 22.7 |
| 4 11 | 11 11.04 | + 7 39.1 | 2.099 | 2.972 | 11.3 | 22.9 |
| 4 21 | 11 6.01 | + 8 11.6 | 2.189 | 2.970 | 14.3 | 23.1 |

**21387** Wafakhalil 3 13.5 201°.36 0°.8/14.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.56 | − 1 24.8 | 1.809 | 2.649 | 13.6 | 19.0 |
| 2 21 | 11 53.60 | − 1 2.4 | 1.729 | 2.646 | 9.9 | 18.7 |
| 3 2 | 11 45.52 | − 0 26.1 | 1.674 | 2.643 | 5.7 | 18.5 |
| 3 12 | 11 36.15 | + 0 19.9 | 1.647 | 2.639 | 1.3 | 18.2 |
| 3 22 | 11 26.50 | + 1 9.8 | 1.648 | 2.635 | 3.7 | 18.3 |
| 4 1 | 11 17.67 | + 1 56.9 | 1.678 | 2.631 | 8.2 | 18.6 |
| 4 11 | 11 10.60 | + 2 35.4 | 1.732 | 2.625 | 12.2 | 18.8 |
| 4 21 | 11 5.88 | + 3 1.4 | 1.809 | 2.620 | 15.7 | 19.0 |

**172976** 2006 $DC_{113}$ 3 13.5 186°.26 2°.0/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 8.80 | + 8 22.8 | 1.845 | 2.692 | 13.1 | 20.1 |
| 2 21 | 12 0.10 | + 8 22.6 | 1.769 | 2.692 | 9.3 | 19.9 |
| 3 2 | 11 49.06 | + 8 24.8 | 1.720 | 2.692 | 5.2 | 19.7 |
| 3 12 | 11 36.62 | + 8 24.8 | 1.700 | 2.691 | 2.0 | 19.4 |
| 3 22 | 11 23.98 | + 8 18.2 | 1.710 | 2.689 | 5.0 | 19.6 |
| 4 1 | 11 12.40 | + 8 2.1 | 1.750 | 2.686 | 9.3 | 19.9 |
| 4 11 | 11 2.88 | + 7 34.9 | 1.817 | 2.683 | 13.1 | 20.1 |
| 4 21 | 10 56.01 | + 6 56.8 | 1.905 | 2.679 | 16.3 | 20.3 |

**183436** 2003 $AH_{65}$ 3 13.5 157°.04 1°.6/15.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.89 | − 3 13.5 | 2.153 | 2.976 | 12.3 | 20.3 |
| 2 21 | 11 54.20 | − 3 12.0 | 2.077 | 2.983 | 9.1 | 20.1 |
| 3 2 | 11 45.71 | − 2 58.3 | 2.027 | 2.990 | 5.5 | 19.9 |
| 3 12 | 11 36.18 | − 2 35.2 | 2.006 | 2.996 | 2.0 | 19.6 |
| 3 22 | 11 26.49 | − 2 6.6 | 2.015 | 3.001 | 3.3 | 19.7 |
| 4 1 | 11 17.57 | − 1 37.2 | 2.053 | 3.006 | 6.9 | 20.0 |
| 4 11 | 11 10.21 | − 1 11.6 | 2.118 | 3.010 | 10.4 | 20.2 |
| 4 21 | 11 4.89 | − 0 53.3 | 2.207 | 3.014 | 13.3 | 20.4 |

**344353** 2001 $WN_{74}$ 3 13.5 180°.98 1°.8/11.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.96 | + 7 39.6 | 2.797 | 3.650 | 8.9 | 22.0 |
| 2 21 | 11 49.69 | + 8 22.4 | 2.724 | 3.651 | 6.2 | 21.9 |
| 3 2 | 11 43.13 | + 9 9.0 | 2.678 | 3.652 | 3.4 | 21.7 |
| 3 12 | 11 35.84 | + 9 55.1 | 2.663 | 3.652 | 1.8 | 21.6 |
| 3 22 | 11 28.43 | +10 36.2 | 2.678 | 3.651 | 3.9 | 21.7 |
| 4 1 | 11 21.56 | +11 8.8 | 2.723 | 3.650 | 6.8 | 21.9 |
| 4 11 | 11 15.79 | +11 30.3 | 2.794 | 3.649 | 9.4 | 22.1 |
| 4 21 | 11 11.52 | +11 39.6 | 2.888 | 3.647 | 11.6 | 22.2 |

**411300** 2010 $TT_{92}$ 3 13.5 186°.43 4°.7/18.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.56 | −15 13.1 | 2.121 | 2.897 | 14.1 | 22.1 |
| 2 21 | 11 51.27 | −14 45.9 | 2.032 | 2.897 | 11.3 | 21.9 |
| 3 2 | 11 44.18 | −13 55.0 | 1.966 | 2.896 | 8.2 | 21.8 |
| 3 12 | 11 35.99 | −12 42.2 | 1.927 | 2.895 | 5.5 | 21.6 |
| 3 22 | 11 27.56 | −11 12.3 | 1.917 | 2.893 | 4.8 | 21.5 |
| 4 1 | 11 19.83 | − 9 32.8 | 1.935 | 2.890 | 7.1 | 21.7 |
| 4 11 | 11 13.58 | − 7 52.2 | 1.981 | 2.887 | 10.3 | 21.8 |
| 4 21 | 11 9.36 | − 6 18.4 | 2.052 | 2.883 | 13.3 | 22.0 |

**496468** 2014 $SA_{113}$ 3 13.5 239°.81 0°.3/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.26 | − 0 53.8 | 1.728 | 2.575 | 13.8 | 22.7 |
| 2 21 | 11 52.83 | − 0 15.0 | 1.642 | 2.563 | 10.1 | 22.5 |
| 3 2 | 11 45.20 | + 0 39.4 | 1.581 | 2.552 | 5.7 | 22.2 |
| 3 12 | 11 36.14 | + 1 44.3 | 1.546 | 2.539 | 0.9 | 21.8 |
| 3 22 | 11 26.69 | + 2 52.5 | 1.540 | 2.527 | 4.1 | 22.0 |
| 4 1 | 11 18.02 | + 3 56.2 | 1.562 | 2.513 | 8.8 | 22.3 |
| 4 11 | 11 11.11 | + 4 48.3 | 1.608 | 2.500 | 13.1 | 22.5 |
| 4 21 | 11 6.63 | + 5 24.7 | 1.675 | 2.486 | 16.7 | 22.7 |

**233813** 2008 $UM_{167}$ 3 13.5 221°.99 0°.1/13.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.14 | − 0 11.5 | 2.201 | 3.043 | 11.4 | 21.2 |
| 2 21 | 11 50.15 | + 0 27.6 | 2.119 | 3.038 | 8.2 | 21.0 |
| 3 2 | 11 43.52 | + 1 18.3 | 2.062 | 3.033 | 4.6 | 20.8 |
| 3 12 | 11 35.90 | + 2 16.0 | 2.034 | 3.027 | 0.7 | 20.5 |
| 3 22 | 11 28.07 | + 3 15.3 | 2.036 | 3.022 | 3.3 | 20.7 |
| 4 1 | 11 20.86 | + 4 10.2 | 2.066 | 3.015 | 7.2 | 20.9 |
| 4 11 | 11 15.01 | + 4 55.9 | 2.123 | 3.009 | 10.6 | 21.1 |
| 4 21 | 11 11.00 | + 5 29.1 | 2.202 | 3.003 | 13.6 | 21.3 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **422046** 2014 $QG_{358}$ | | | 3 13.5 182°.24 | | 0°.2/13.4 17 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 1.06 | + 1 37.6 | 1.927 | 2.771 | 12.7 | 21.9 |
| 2 21 | 11 54.52 | + 1 58.5 | 1.851 | 2.772 | 9.1 | 21.7 |
| 3 2 | 11 45.98 | + 2 29.6 | 1.801 | 2.772 | 5.0 | 21.4 |
| 3 12 | 11 36.24 | + 3 6.3 | 1.779 | 2.772 | 0.6 | 21.1 |
| 3 22 | 11 26.28 | + 3 43.2 | 1.786 | 2.771 | 3.8 | 21.3 |
| 4 1 | 11 17.16 | + 4 14.8 | 1.822 | 2.770 | 8.1 | 21.6 |
| 4 11 | 11 9.76 | + 4 36.9 | 1.884 | 2.768 | 11.9 | 21.8 |
| 4 21 | 11 4.61 | + 4 46.8 | 1.968 | 2.765 | 15.1 | 22.0 |
| **7881** Schieferdecker | | | 3 13.5 146°.35 | | 0°.8/12.6 18 | |
| 2 11 | 11 55.15 | + 2 54.3 | 2.375 | 3.223 | 10.5 | 18.2 |
| 2 21 | 11 49.98 | + 3 38.3 | 2.305 | 3.230 | 7.4 | 18.0 |
| 3 2 | 11 43.35 | + 4 30.3 | 2.262 | 3.236 | 4.0 | 17.8 |
| 3 12 | 11 35.88 | + 5 25.5 | 2.249 | 3.241 | 0.8 | 17.5 |
| 3 22 | 11 28.30 | + 6 18.7 | 2.265 | 3.247 | 3.5 | 17.8 |
| 4 1 | 11 21.37 | + 7 5.1 | 2.310 | 3.252 | 7.0 | 18.0 |
| 4 11 | 11 15.72 | + 7 40.7 | 2.381 | 3.257 | 10.1 | 18.2 |
| 4 21 | 11 11.79 | + 8 3.7 | 2.476 | 3.261 | 12.7 | 18.4 |
| **100314** 1995 $MK_{1}$ | | | 3 13.5 246°.75 | | 1°.9/15.8 18 | |
| 2 11 | 11 53.16 | − 6 44.2 | 2.333 | 3.152 | 11.7 | 19.9 |
| 2 21 | 11 48.71 | − 6 5.2 | 2.243 | 3.144 | 8.8 | 19.7 |
| 3 2 | 11 42.73 | − 5 9.9 | 2.177 | 3.136 | 5.5 | 19.5 |
| 3 12 | 11 35.80 | − 4 1.9 | 2.139 | 3.127 | 2.4 | 19.3 |
| 3 22 | 11 28.66 | − 2 46.2 | 2.131 | 3.118 | 3.0 | 19.3 |
| 4 1 | 11 22.06 | − 1 29.0 | 2.153 | 3.109 | 6.4 | 19.5 |
| 4 11 | 11 16.70 | − 0 16.8 | 2.201 | 3.100 | 9.7 | 19.7 |
| 4 21 | 11 13.05 | + 0 45.7 | 2.273 | 3.091 | 12.6 | 19.9 |
| **275096** 2009 $VN_{27}$ | | | 3 13.5 114°.40 | | 1°.6/15.3 16 | |
| 2 11 | 11 56.10 | − 4 51.6 | 2.006 | 2.835 | 12.9 | 21.6 |
| 2 21 | 11 50.87 | − 4 21.1 | 1.937 | 2.845 | 9.5 | 21.4 |
| 3 2 | 11 43.91 | − 3 35.1 | 1.892 | 2.855 | 5.8 | 21.2 |
| 3 12 | 11 35.96 | − 2 37.5 | 1.875 | 2.865 | 2.1 | 21.0 |
| 3 22 | 11 27.88 | − 1 34.2 | 1.887 | 2.874 | 3.3 | 21.1 |
| 4 1 | 11 20.59 | − 0 31.6 | 1.927 | 2.884 | 7.1 | 21.3 |
| 4 11 | 11 14.83 | + 0 24.2 | 1.994 | 2.892 | 10.6 | 21.6 |
| 4 21 | 11 11.07 | + 1 8.8 | 2.083 | 2.901 | 13.6 | 21.8 |
| **405357** 2003 $WP_{58}$ | | | 3 13.5 68°.08 | | 2°.1/11.8 18 | |
| 2 11 | 11 59.70 | + 5 32.3 | 1.443 | 2.312 | 14.7 | 21.0 |
| 2 21 | 11 53.80 | + 6 17.5 | 1.395 | 2.329 | 10.4 | 20.8 |
| 3 2 | 11 45.60 | + 7 11.2 | 1.371 | 2.347 | 5.6 | 20.6 |
| 3 12 | 11 36.18 | + 8 5.3 | 1.373 | 2.364 | 2.1 | 20.4 |
| 3 22 | 11 26.77 | + 8 51.8 | 1.402 | 2.382 | 5.6 | 20.7 |
| 4 1 | 11 18.61 | + 9 24.4 | 1.457 | 2.399 | 10.2 | 21.0 |
| 4 11 | 11 12.64 | + 9 39.4 | 1.535 | 2.417 | 14.2 | 21.3 |
| 4 21 | 11 9.29 | + 9 36.4 | 1.632 | 2.435 | 17.4 | 21.5 |
| **360565** 2003 $UT_{46}$ | | | 3 13.5 219°.57 | | 0°.4/13.9 17 | |
| 2 11 | 11 58.44 | − 1 13.3 | 1.986 | 2.824 | 12.6 | 22.3 |
| 2 21 | 11 52.72 | − 0 34.2 | 1.898 | 2.815 | 9.2 | 22.1 |
| 3 2 | 11 45.04 | + 0 18.9 | 1.835 | 2.805 | 5.2 | 21.8 |
| 3 12 | 11 36.12 | + 1 21.4 | 1.801 | 2.794 | 0.9 | 21.5 |
| 3 22 | 11 26.89 | + 2 27.0 | 1.796 | 2.783 | 3.6 | 21.6 |
| 4 1 | 11 18.34 | + 3 28.9 | 1.820 | 2.771 | 7.9 | 21.9 |
| 4 11 | 11 11.36 | + 4 21.1 | 1.871 | 2.758 | 11.8 | 22.1 |
| 4 21 | 11 6.52 | + 4 59.5 | 1.943 | 2.744 | 15.1 | 22.3 |
| **496334** 2013 $PL_{3}$ | | | 3 13.5 136°.44 | | 2°.0/16.2 15 | |
| 2 11 | 11 56.68 | − 7 20.0 | 2.869 | 3.669 | 10.2 | 23.0 |
| 2 21 | 11 50.82 | − 6 56.1 | 2.798 | 3.688 | 7.7 | 22.8 |
| 3 2 | 11 43.71 | − 6 19.8 | 2.753 | 3.705 | 4.9 | 22.7 |
| 3 12 | 11 35.93 | − 5 33.7 | 2.737 | 3.722 | 2.4 | 22.5 |
| 3 22 | 11 28.08 | − 4 41.6 | 2.753 | 3.737 | 2.7 | 22.5 |
| 4 1 | 11 20.83 | − 3 47.9 | 2.799 | 3.752 | 5.3 | 22.7 |
| 4 11 | 11 14.70 | − 2 56.8 | 2.874 | 3.767 | 7.9 | 22.9 |
| 4 21 | 11 10.06 | − 2 12.0 | 2.974 | 3.780 | 10.3 | 23.1 |
| **301964** 2000 $EJ_{37}$ | | | 3 13.5 326°.16 | | 0°.3/13.9 18 | |
| 2 11 | 11 54.12 | − 1 23.1 | 3.013 | 3.841 | 9.1 | 19.4 |
| 2 21 | 11 49.37 | − 0 41.0 | 2.863 | 3.774 | 6.7 | 19.2 |
| 3 2 | 11 43.16 | + 0 12.9 | 2.739 | 3.707 | 3.8 | 18.9 |
| 3 12 | 11 35.89 | + 1 15.8 | 2.646 | 3.639 | 0.7 | 18.5 |
| 3 22 | 11 28.09 | + 2 23.9 | 2.585 | 3.570 | 2.7 | 18.6 |
| 4 1 | 11 20.42 | + 3 32.2 | 2.554 | 3.501 | 6.1 | 18.7 |
| 4 11 | 11 13.55 | + 4 35.8 | 2.552 | 3.430 | 9.3 | 18.8 |
| 4 21 | 11 8.02 | + 5 30.7 | 2.574 | 3.359 | 12.3 | 18.9 |
| **170287** 2003 $RA_{12}$ | | | 3 13.5 239°.06 | | 1°.1/14.6 17 | |
| 2 11 | 11 57.89 | − 3 37.1 | 1.943 | 2.775 | 13.1 | 21.2 |
| 2 21 | 11 52.43 | − 2 54.0 | 1.847 | 2.759 | 9.7 | 21.0 |
| 3 2 | 11 44.94 | − 1 53.4 | 1.775 | 2.742 | 5.7 | 20.7 |
| 3 12 | 11 36.12 | − 0 39.9 | 1.732 | 2.724 | 1.6 | 20.4 |
| 3 22 | 11 26.88 | + 0 40.1 | 1.718 | 2.705 | 3.6 | 20.5 |
| 4 1 | 11 18.27 | + 1 58.9 | 1.733 | 2.686 | 8.0 | 20.7 |
| 4 11 | 11 11.23 | + 3 8.9 | 1.774 | 2.666 | 12.1 | 20.9 |
| 4 21 | 11 6.38 | + 4 4.9 | 1.838 | 2.645 | 15.6 | 21.1 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **271664** 2004 $RD_{52}$ | | | 3 13.5 150°.25 | | 1°.1/12.2 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.17 | + 2 26.8 | 2.231 | 3.081 | 11.0 | 21.3 |
| 2 21 | 11 50.07 | + 3 34.3 | 2.163 | 3.088 | 7.7 | 21.1 |
| 3 2 | 11 43.43 | + 4 51.7 | 2.122 | 3.095 | 4.1 | 20.9 |
| 3 12 | 11 35.89 | + 6 12.6 | 2.109 | 3.102 | 1.1 | 20.6 |
| 3 22 | 11 28.25 | + 7 30.7 | 2.127 | 3.108 | 3.9 | 20.9 |
| 4 1 | 11 21.28 | + 8 39.6 | 2.174 | 3.114 | 7.5 | 21.1 |
| 4 11 | 11 15.68 | + 9 34.9 | 2.248 | 3.119 | 10.7 | 21.3 |
| 4 21 | 11 11.88 | +10 14.1 | 2.344 | 3.123 | 13.5 | 21.5 |
| **402885** 2007 $RQ_{312}$ | | | 3 13.5 106°.03 | | 0°.6/13.0 18 | |
| 2 11 | 11 59.19 | + 1 0.1 | 1.675 | 2.527 | 13.9 | 21.7 |
| 2 21 | 11 53.23 | + 1 52.7 | 1.620 | 2.545 | 9.9 | 21.5 |
| 3 2 | 11 45.24 | + 2 57.9 | 1.590 | 2.563 | 5.3 | 21.3 |
| 3 12 | 11 36.14 | + 4 8.8 | 1.587 | 2.580 | 0.7 | 21.0 |
| 3 22 | 11 27.02 | + 5 17.4 | 1.613 | 2.597 | 4.3 | 21.3 |
| 4 1 | 11 18.95 | + 6 16.5 | 1.666 | 2.614 | 8.7 | 21.6 |
| 4 11 | 11 12.78 | + 7 0.8 | 1.745 | 2.630 | 12.6 | 21.9 |
| 4 21 | 11 8.98 | + 7 28.0 | 1.844 | 2.645 | 15.8 | 22.1 |
| **349090** 2007 $DO_{95}$ | | | 3 13.5 61°.68 | | 3°.7/10.5 18 | |
| 2 11 | 11 57.54 | + 6 27.9 | 1.210 | 2.092 | 16.0 | 20.8 |
| 2 21 | 11 52.69 | + 7 55.9 | 1.160 | 2.100 | 11.2 | 20.5 |
| 3 2 | 11 45.18 | + 9 35.0 | 1.133 | 2.109 | 6.2 | 20.3 |
| 3 12 | 11 36.15 | +11 12.8 | 1.130 | 2.118 | 3.8 | 20.1 |
| 3 22 | 11 27.00 | +12 37.0 | 1.153 | 2.128 | 7.6 | 20.4 |
| 4 1 | 11 19.19 | +13 38.1 | 1.200 | 2.137 | 12.4 | 20.7 |
| 4 11 | 11 13.79 | +14 11.6 | 1.268 | 2.147 | 16.8 | 21.0 |
| 4 21 | 11 11.35 | +14 17.8 | 1.354 | 2.156 | 20.4 | 21.2 |
| **115883** 2003 $UX_{299}$ | | | 3 13.5 328°.50 | | 0°.1/13.4 18 | |
| 2 11 | 11 55.32 | + 0 21.1 | 1.293 | 2.162 | 16.1 | 19.0 |
| 2 21 | 11 51.23 | + 0 55.2 | 1.218 | 2.151 | 11.7 | 18.7 |
| 3 2 | 11 44.51 | + 1 47.2 | 1.165 | 2.140 | 6.5 | 18.4 |
| 3 12 | 11 36.08 | + 2 50.6 | 1.136 | 2.130 | 0.8 | 18.0 |
| 3 22 | 11 27.22 | + 3 56.3 | 1.133 | 2.120 | 5.0 | 18.2 |
| 4 1 | 11 19.36 | + 4 54.5 | 1.154 | 2.111 | 10.5 | 18.5 |
| 4 11 | 11 13.70 | + 5 37.3 | 1.197 | 2.103 | 15.5 | 18.8 |
| 4 21 | 11 10.96 | + 6 0.2 | 1.258 | 2.096 | 19.7 | 19.0 |
| **310979** 2003 $UR_{297}$ | | | 3 13.5 124°.13 | | 1°.5/14.9 18 | |
| 2 11 | 11 58.87 | − 3 47.5 | 1.744 | 2.580 | 14.2 | 21.6 |
| 2 21 | 11 53.05 | − 3 20.8 | 1.678 | 2.591 | 10.5 | 21.4 |
| 3 2 | 11 45.18 | − 2 37.7 | 1.636 | 2.601 | 6.2 | 21.1 |
| 3 12 | 11 36.15 | − 1 42.6 | 1.620 | 2.611 | 2.0 | 20.9 |
| 3 22 | 11 26.98 | − 0 42.1 | 1.634 | 2.621 | 3.7 | 21.0 |
| 4 1 | 11 18.76 | + 0 16.7 | 1.675 | 2.631 | 8.0 | 21.3 |
| 4 11 | 11 12.36 | + 1 7.1 | 1.741 | 2.640 | 11.9 | 21.5 |
| 4 21 | 11 8.29 | + 1 44.9 | 1.829 | 2.648 | 15.2 | 21.8 |
| **222519** 2001 $TF_{149}$ | | | 3 13.5 247°.42 | | 3°.4/ 9.9 17 | |
| 2 11 | 11 58.38 | +10 22.0 | 2.091 | 2.953 | 11.1 | 21.2 |
| 2 21 | 11 52.66 | +11 22.4 | 2.005 | 2.935 | 7.9 | 21.0 |
| 3 2 | 11 45.01 | +12 27.2 | 1.945 | 2.917 | 4.7 | 20.8 |
| 3 12 | 11 36.14 | +13 29.7 | 1.915 | 2.898 | 3.5 | 20.7 |
| 3 22 | 11 26.94 | +14 23.0 | 1.913 | 2.878 | 6.1 | 20.8 |
| 4 1 | 11 18.37 | +15 1.4 | 1.939 | 2.858 | 9.6 | 20.9 |
| 4 11 | 11 11.31 | +15 21.8 | 1.990 | 2.837 | 13.0 | 21.1 |
| 4 21 | 11 6.34 | +15 23.5 | 2.062 | 2.815 | 15.9 | 21.3 |
| **460740** 2014 $VL_{19}$ | | | 3 13.5 146°.73 | | 2°.2/11.3 18 | |
| 2 11 | 11 57.00 | + 5 32.2 | 1.868 | 2.729 | 12.3 | 21.4 |
| 2 21 | 11 51.63 | + 6 39.8 | 1.804 | 2.735 | 8.6 | 21.2 |
| 3 2 | 11 44.38 | + 7 55.8 | 1.766 | 2.741 | 4.7 | 20.9 |
| 3 12 | 11 36.05 | + 9 12.7 | 1.756 | 2.746 | 2.2 | 20.8 |
| 3 22 | 11 27.58 | +10 22.9 | 1.775 | 2.751 | 5.2 | 21.0 |
| 4 1 | 11 19.97 | +11 19.8 | 1.822 | 2.756 | 9.1 | 21.2 |
| 4 11 | 11 14.01 | +11 59.1 | 1.893 | 2.760 | 12.6 | 21.4 |
| 4 21 | 11 10.22 | +12 19.7 | 1.985 | 2.764 | 15.6 | 21.7 |
| **404161** 2013 $CS_{64}$ | | | 3 13.5 27°.41 | | 4°.9/16.8 18 | |
| 2 11 | 11 59.31 | − 8 14.0 | 1.216 | 2.056 | 18.8 | 21.4 |
| 2 21 | 11 54.13 | − 8 40.6 | 1.153 | 2.061 | 14.6 | 21.1 |
| 3 2 | 11 46.09 | − 8 42.3 | 1.110 | 2.066 | 9.8 | 20.8 |
| 3 12 | 11 36.30 | − 8 20.6 | 1.090 | 2.072 | 5.6 | 20.6 |
| 3 22 | 11 26.20 | − 7 40.8 | 1.094 | 2.079 | 5.8 | 20.6 |
| 4 1 | 11 17.37 | − 6 51.4 | 1.123 | 2.086 | 10.0 | 20.9 |
| 4 11 | 11 11.04 | − 6 2.6 | 1.174 | 2.094 | 14.6 | 21.2 |
| 4 21 | 11 7.86 | − 5 22.3 | 1.244 | 2.102 | 18.6 | 21.4 |
| **113324** 2002 $RO_{205}$ | | | 3 13.5 270°.55 | | 1°.3/12.4 17 | |
| 2 11 | 11 57.49 | + 3 14.7 | 1.687 | 2.547 | 13.4 | 20.5 |
| 2 21 | 11 52.37 | + 4 2.7 | 1.600 | 2.530 | 9.6 | 20.3 |
| 3 2 | 11 45.00 | + 5 3.2 | 1.538 | 2.513 | 5.2 | 20.0 |
| 3 12 | 11 36.16 | + 6 9.8 | 1.502 | 2.495 | 1.3 | 19.7 |
| 3 22 | 11 26.88 | + 7 14.6 | 1.495 | 2.477 | 5.0 | 19.9 |
| 4 1 | 11 18.34 | + 8 9.8 | 1.514 | 2.459 | 9.7 | 20.1 |
| 4 11 | 11 11.59 | + 8 49.3 | 1.558 | 2.441 | 14.0 | 20.3 |
| 4 21 | 11 7.30 | + 9 10.3 | 1.621 | 2.422 | 17.6 | 20.5 |

**138809** 2000 $TF_{43}$ 3 13.5 109°.46 5°.7/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.75 | +22 31.0 | 2.524 | 3.379 | 9.7 | 19.7 |
| 2 21 | 11 53.12 | +23 14.3 | 2.478 | 3.391 | 7.5 | 19.6 |
| 3 2 | 11 45.00 | +23 50.1 | 2.458 | 3.403 | 6.0 | 19.5 |
| 3 12 | 11 36.12 | +24 13.0 | 2.468 | 3.414 | 6.0 | 19.5 |
| 3 22 | 11 27.28 | +24 19.3 | 2.505 | 3.426 | 7.5 | 19.6 |
| 4 1 | 11 19.26 | +24 7.6 | 2.570 | 3.437 | 9.6 | 19.8 |
| 4 11 | 11 12.72 | +23 38.3 | 2.659 | 3.448 | 11.7 | 19.9 |
| 4 21 | 11 8.02 | +22 53.7 | 2.768 | 3.458 | 13.6 | 20.1 |

**125741** 2001 $XG_{117}$ 3 13.5 130°.29 1°.6/14.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.59 | − 2 55.8 | 1.644 | 2.481 | 14.9 | 19.6 |
| 2 21 | 11 55.10 | − 2 46.2 | 1.578 | 2.491 | 10.9 | 19.4 |
| 3 2 | 11 46.37 | − 2 20.9 | 1.535 | 2.501 | 6.5 | 19.1 |
| 3 12 | 11 36.33 | − 1 44.0 | 1.519 | 2.510 | 2.1 | 18.9 |
| 3 22 | 11 26.14 | − 1 1.2 | 1.532 | 2.519 | 3.9 | 19.0 |
| 4 1 | 11 16.99 | − 0 19.2 | 1.572 | 2.527 | 8.4 | 19.3 |
| 4 11 | 11 9.84 | + 0 15.7 | 1.637 | 2.535 | 12.5 | 19.5 |
| 4 21 | 11 5.24 | + 0 39.5 | 1.723 | 2.543 | 16.0 | 19.8 |

**372613** 2009 $VZ_{23}$ 3 13.5 92°.70 1°.1/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.44 | − 2 44.9 | 2.088 | 2.919 | 12.4 | 22.2 |
| 2 21 | 11 52.35 | − 2 18.6 | 2.034 | 2.945 | 9.0 | 22.0 |
| 3 2 | 11 44.64 | − 1 39.8 | 2.005 | 2.971 | 5.2 | 21.8 |
| 3 12 | 11 36.09 | − 0 52.7 | 2.004 | 2.996 | 1.5 | 21.6 |
| 3 22 | 11 27.55 | − 0 2.6 | 2.033 | 3.020 | 3.1 | 21.8 |
| 4 1 | 11 19.89 | + 0 45.0 | 2.091 | 3.044 | 6.8 | 22.0 |
| 4 11 | 11 13.79 | + 1 25.3 | 2.176 | 3.068 | 10.1 | 22.3 |
| 4 21 | 11 9.65 | + 1 55.2 | 2.283 | 3.091 | 12.9 | 22.5 |

**205519** 2001 $SF_{63}$ 3 13.5 245°.34 3°.5/ 9.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.10 | +12 47.7 | 2.319 | 3.182 | 10.1 | 19.7 |
| 2 21 | 11 51.47 | +13 28.3 | 2.247 | 3.176 | 7.2 | 19.5 |
| 3 2 | 11 44.23 | +14 9.3 | 2.201 | 3.170 | 4.5 | 19.3 |
| 3 12 | 11 36.04 | +14 45.3 | 2.185 | 3.164 | 3.6 | 19.2 |
| 3 22 | 11 27.70 | +15 11.4 | 2.197 | 3.158 | 5.7 | 19.4 |
| 4 1 | 11 20.03 | +15 23.9 | 2.237 | 3.152 | 8.7 | 19.5 |
| 4 11 | 11 13.74 | +15 21.1 | 2.302 | 3.145 | 11.6 | 19.7 |
| 4 21 | 11 9.31 | +15 3.2 | 2.389 | 3.139 | 14.0 | 19.9 |

**499807** 2011 $CS_{91}$ 3 13.5 316°.02 5°.2/17.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.93 | − 9 56.9 | 1.686 | 2.499 | 15.7 | 20.9 |
| 2 21 | 11 53.47 | −10 36.0 | 1.598 | 2.488 | 12.4 | 20.6 |
| 3 2 | 11 45.66 | −10 56.2 | 1.532 | 2.477 | 8.8 | 20.4 |
| 3 12 | 11 36.28 | −10 57.0 | 1.492 | 2.467 | 5.7 | 20.2 |
| 3 22 | 11 26.42 | −10 40.7 | 1.478 | 2.456 | 5.6 | 20.2 |
| 4 1 | 11 17.31 | −10 12.3 | 1.490 | 2.447 | 8.7 | 20.3 |
| 4 11 | 11 10.04 | − 9 38.7 | 1.528 | 2.437 | 12.5 | 20.5 |
| 4 21 | 11 5.34 | − 9 6.8 | 1.586 | 2.428 | 16.1 | 20.7 |

**34380** 2000 $RV_{55}$ 3 13.5 157°.57 0°.3/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.58 | + 0 45.9 | 2.054 | 2.900 | 11.9 | 19.8 |
| 2 21 | 11 51.22 | + 1 28.6 | 1.983 | 2.905 | 8.5 | 19.6 |
| 3 2 | 11 44.14 | + 2 22.6 | 1.936 | 2.908 | 4.7 | 19.4 |
| 3 12 | 11 36.06 | + 3 22.5 | 1.919 | 2.912 | 0.6 | 19.0 |
| 3 22 | 11 27.82 | + 4 22.3 | 1.930 | 2.915 | 3.6 | 19.3 |
| 4 1 | 11 20.32 | + 5 16.0 | 1.971 | 2.918 | 7.6 | 19.5 |
| 4 11 | 11 14.32 | + 5 58.7 | 2.037 | 2.921 | 11.1 | 19.8 |
| 4 21 | 11 10.31 | + 6 27.7 | 2.125 | 2.923 | 14.1 | 20.0 |

**184008** 2004 $EY_{92}$ 3 13.5 317°.46 9°.3/ 5.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.47 | +25 31.0 | 1.632 | 2.497 | 13.5 | 19.7 |
| 2 21 | 11 55.89 | +26 42.8 | 1.581 | 2.494 | 11.0 | 19.6 |
| 3 2 | 11 46.85 | +27 42.0 | 1.555 | 2.492 | 9.4 | 19.5 |
| 3 12 | 11 36.42 | +28 18.7 | 1.553 | 2.489 | 9.7 | 19.5 |
| 3 22 | 11 25.91 | +28 26.2 | 1.577 | 2.487 | 11.8 | 19.6 |
| 4 1 | 11 16.65 | +28 2.6 | 1.624 | 2.485 | 14.5 | 19.7 |
| 4 11 | 11 9.66 | +27 10.4 | 1.691 | 2.483 | 17.2 | 19.9 |
| 4 21 | 11 5.45 | +25 54.7 | 1.775 | 2.481 | 19.6 | 20.1 |

**141968** 2002 $PL_{124}$ 3 13.5 280°.48 0°.5/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.49 | − 1 2.0 | 1.619 | 2.470 | 14.4 | 20.2 |
| 2 21 | 11 52.49 | − 0 33.3 | 1.529 | 2.452 | 10.5 | 19.9 |
| 3 2 | 11 45.15 | + 0 11.7 | 1.462 | 2.433 | 6.0 | 19.6 |
| 3 12 | 11 36.23 | + 1 8.3 | 1.421 | 2.414 | 1.2 | 19.2 |
| 3 22 | 11 26.81 | + 2 9.5 | 1.408 | 2.396 | 4.2 | 19.4 |
| 4 1 | 11 18.13 | + 3 7.5 | 1.422 | 2.377 | 9.2 | 19.7 |
| 4 11 | 11 11.29 | + 3 54.7 | 1.460 | 2.358 | 13.8 | 19.9 |
| 4 21 | 11 7.01 | + 4 26.5 | 1.518 | 2.339 | 17.7 | 20.1 |

**22161** Santagata 3 13.5 175°.84 0°.6/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.05 | + 2 24.3 | 2.128 | 2.976 | 11.5 | 19.4 |
| 2 21 | 11 51.53 | + 2 58.4 | 2.054 | 2.977 | 8.2 | 19.2 |
| 3 2 | 11 44.31 | + 3 41.6 | 2.005 | 2.978 | 4.4 | 19.0 |
| 3 12 | 11 36.09 | + 4 29.1 | 1.986 | 2.979 | 0.7 | 18.7 |
| 3 22 | 11 27.70 | + 5 15.6 | 1.996 | 2.979 | 3.7 | 18.9 |
| 4 1 | 11 20.02 | + 5 55.7 | 2.034 | 2.980 | 7.5 | 19.2 |
| 4 11 | 11 13.81 | + 6 25.3 | 2.098 | 2.979 | 11.0 | 19.4 |
| 4 21 | 11 9.54 | + 6 42.2 | 2.185 | 2.979 | 13.9 | 19.6 |

**129805** 1999 $KR_{10}$ 3 13.5 269°.97 0°.9/14.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.36 | − 2 16.8 | 1.672 | 2.516 | 14.3 | 20.7 |
| 2 21 | 11 53.13 | − 1 47.1 | 1.575 | 2.493 | 10.6 | 20.4 |
| 3 2 | 11 45.52 | − 0 59.8 | 1.502 | 2.471 | 6.2 | 20.1 |
| 3 12 | 11 36.29 | + 0 0.9 | 1.455 | 2.447 | 1.5 | 19.8 |
| 3 22 | 11 26.48 | + 1 8.3 | 1.436 | 2.423 | 4.1 | 19.9 |
| 4 1 | 11 17.34 | + 2 14.2 | 1.444 | 2.399 | 9.1 | 20.1 |
| 4 11 | 11 9.99 | + 3 10.5 | 1.477 | 2.375 | 13.7 | 20.3 |
| 4 21 | 11 5.18 | + 3 52.0 | 1.531 | 2.350 | 17.7 | 20.5 |

**78800** 2003 $AR_{66}$ 3 13.5 324°.78 11°.7/25.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.79 | +37 42.1 | 2.016 | 2.850 | 12.7 | 18.0 |
| 2 21 | 11 52.50 | +39 30.2 | 1.980 | 2.841 | 11.8 | 18.0 |
| 3 2 | 11 44.99 | +40 58.3 | 1.967 | 2.832 | 11.8 | 17.9 |
| 3 12 | 11 36.19 | +41 57.3 | 1.978 | 2.823 | 12.7 | 18.0 |
| 3 22 | 11 27.24 | +42 22.1 | 2.010 | 2.815 | 14.2 | 18.1 |
| 4 1 | 11 19.32 | +42 11.7 | 2.062 | 2.807 | 15.9 | 18.2 |
| 4 11 | 11 13.40 | +41 29.2 | 2.130 | 2.799 | 17.6 | 18.3 |
| 4 21 | 11 9.98 | +40 19.7 | 2.211 | 2.792 | 19.0 | 18.4 |

**205731** 2002 $AU_{151}$ 3 13.5 314°.24 5°.6/ 8.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.47 | +10 29.3 | 1.265 | 2.154 | 14.9 | 19.4 |
| 2 21 | 11 50.77 | +12 10.5 | 1.193 | 2.136 | 10.7 | 19.1 |
| 3 2 | 11 44.35 | +14 1.7 | 1.145 | 2.119 | 6.7 | 18.8 |
| 3 12 | 11 36.14 | +15 49.9 | 1.121 | 2.102 | 5.9 | 18.7 |
| 3 22 | 11 27.43 | +17 21.4 | 1.122 | 2.085 | 9.5 | 18.9 |
| 4 1 | 11 19.72 | +18 25.4 | 1.146 | 2.070 | 14.2 | 19.1 |
| 4 11 | 11 14.27 | +18 56.9 | 1.190 | 2.054 | 18.7 | 19.3 |
| 4 21 | 11 11.82 | +18 56.1 | 1.250 | 2.040 | 22.4 | 19.5 |

**146654** 2001 $UG_{101}$ 3 13.5 324°.14 0°.9/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.58 | + 2 45.2 | 1.543 | 2.407 | 14.2 | 19.6 |
| 2 21 | 11 51.79 | + 3 18.6 | 1.468 | 2.400 | 10.2 | 19.3 |
| 3 2 | 11 44.69 | + 4 4.3 | 1.417 | 2.392 | 5.5 | 19.0 |
| 3 12 | 11 36.17 | + 4 56.0 | 1.392 | 2.385 | 1.0 | 18.7 |
| 3 22 | 11 27.32 | + 5 46.3 | 1.393 | 2.378 | 4.8 | 18.9 |
| 4 1 | 11 19.38 | + 6 27.8 | 1.421 | 2.372 | 9.6 | 19.2 |
| 4 11 | 11 13.37 | + 6 54.9 | 1.472 | 2.366 | 14.0 | 19.4 |
| 4 21 | 11 9.90 | + 7 5.0 | 1.543 | 2.360 | 17.6 | 19.6 |

**166841** 2002 $VX_{122}$ 3 13.5 163°.20 3°.3/17.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.44 | − 9 54.2 | 2.481 | 3.277 | 11.8 | 20.0 |
| 2 21 | 11 50.96 | − 9 57.9 | 2.398 | 3.280 | 9.2 | 19.8 |
| 3 2 | 11 43.96 | − 9 46.5 | 2.340 | 3.283 | 6.3 | 19.6 |
| 3 12 | 11 36.06 | − 9 21.6 | 2.309 | 3.285 | 3.8 | 19.5 |
| 3 22 | 11 27.97 | − 8 46.2 | 2.307 | 3.288 | 3.7 | 19.5 |
| 4 1 | 11 20.48 | − 8 4.5 | 2.335 | 3.290 | 6.1 | 19.6 |
| 4 11 | 11 14.24 | − 7 21.8 | 2.391 | 3.291 | 9.0 | 19.8 |
| 4 21 | 11 9.71 | − 6 42.5 | 2.470 | 3.293 | 11.6 | 20.0 |

**147366** 2003 $CZ_{18}$ 3 13.5 109°.24 7°.5/ 6.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.78 | +22 40.5 | 1.878 | 2.741 | 12.1 | 19.8 |
| 2 21 | 11 54.98 | +23 53.2 | 1.839 | 2.756 | 9.5 | 19.6 |
| 3 2 | 11 46.18 | +24 56.3 | 1.826 | 2.770 | 7.7 | 19.6 |
| 3 12 | 11 36.34 | +25 41.5 | 1.840 | 2.784 | 7.8 | 19.6 |
| 3 22 | 11 26.58 | +26 3.3 | 1.880 | 2.798 | 9.7 | 19.7 |
| 4 1 | 11 17.95 | +25 59.4 | 1.946 | 2.811 | 12.3 | 19.9 |
| 4 11 | 11 11.28 | +25 31.6 | 2.034 | 2.824 | 14.8 | 20.1 |
| 4 21 | 11 6.99 | +24 43.3 | 2.139 | 2.837 | 16.9 | 20.3 |

**344550** 2002 $VP_{104}$ 3 13.5 180°.82 2°.3/15.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.63 | − 5 52.7 | 1.717 | 2.543 | 14.8 | 21.4 |
| 2 21 | 11 54.49 | − 5 30.9 | 1.639 | 2.545 | 11.2 | 21.2 |
| 3 2 | 11 46.11 | − 4 50.0 | 1.585 | 2.546 | 6.9 | 20.9 |
| 3 12 | 11 36.37 | − 3 53.6 | 1.557 | 2.546 | 2.9 | 20.7 |
| 3 22 | 11 26.34 | − 2 48.1 | 1.558 | 2.545 | 3.9 | 20.8 |
| 4 1 | 11 17.20 | − 1 41.1 | 1.587 | 2.544 | 8.2 | 21.0 |
| 4 11 | 11 9.95 | − 0 40.5 | 1.642 | 2.542 | 12.4 | 21.2 |
| 4 21 | 11 5.18 | + 0 8.1 | 1.718 | 2.539 | 16.0 | 21.5 |

**200731** 2001 $VW_{53}$ 3 13.5 75°.94 2°.8/15.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.30 | − 5 52.5 | 1.381 | 2.222 | 17.0 | 20.2 |
| 2 21 | 11 53.80 | − 5 41.9 | 1.319 | 2.232 | 12.7 | 20.0 |
| 3 2 | 11 45.80 | − 5 9.5 | 1.279 | 2.241 | 8.0 | 19.7 |
| 3 12 | 11 36.32 | − 4 19.5 | 1.263 | 2.251 | 3.5 | 19.5 |
| 3 22 | 11 26.66 | − 3 18.9 | 1.273 | 2.261 | 4.4 | 19.6 |
| 4 1 | 11 18.17 | − 2 16.8 | 1.310 | 2.271 | 9.1 | 19.9 |
| 4 11 | 11 11.92 | − 1 22.0 | 1.370 | 2.281 | 13.6 | 20.2 |
| 4 21 | 11 8.48 | − 0 40.2 | 1.451 | 2.291 | 17.4 | 20.4 |

**499005** 2009 $CM_{30}$ 3 13.5 19°.48 3°.1/10.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.11 | + 7 51.9 | 1.717 | 2.591 | 12.4 | 20.6 |
| 2 21 | 11 48.98 | + 8 59.6 | 1.660 | 2.598 | 8.7 | 20.4 |
| 3 2 | 11 42.99 | +10 13.4 | 1.629 | 2.604 | 4.9 | 20.2 |
| 3 12 | 11 35.93 | +11 25.5 | 1.625 | 2.612 | 3.1 | 20.1 |
| 3 22 | 11 28.78 | +12 27.8 | 1.648 | 2.620 | 6.0 | 20.2 |
| 4 1 | 11 22.50 | +13 14.2 | 1.697 | 2.629 | 9.8 | 20.5 |
| 4 11 | 11 17.90 | +13 41.1 | 1.769 | 2.638 | 13.3 | 20.7 |
| 4 21 | 11 15.43 | +13 47.9 | 1.862 | 2.648 | 16.2 | 20.9 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **255922** 2006 $SU_{366}$ | | | 3 13.5 173°.17 | | 5°.6/19.6 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.29 | −16 36.6 | 2.044 | 2.813 | 14.8 | 20.9 |
| 2 21 | 11 51.90 | −16 30.8 | 1.960 | 2.816 | 12.1 | 20.7 |
| 3 2 | 11 44.61 | −16 0.9 | 1.897 | 2.818 | 9.1 | 20.5 |
| 3 12 | 11 36.17 | −15 7.7 | 1.860 | 2.820 | 6.4 | 20.4 |
| 3 22 | 11 27.49 | −13 55.2 | 1.851 | 2.821 | 5.7 | 20.3 |
| 4 1 | 11 19.54 | −12 30.1 | 1.870 | 2.822 | 7.6 | 20.5 |
| 4 11 | 11 13.16 | −11 0.9 | 1.916 | 2.822 | 10.6 | 20.6 |
| 4 21 | 11 8.89 | − 9 35.5 | 1.985 | 2.822 | 13.5 | 20.8 |
| **306248** 2011 $QG_{78}$ | | | 3 13.5 230°.18 | | 0°.8/12.5 17 | |
| 2 11 | 11 53.64 | + 2 55.6 | 2.573 | 3.421 | 9.8 | 21.9 |
| 2 21 | 11 48.95 | + 3 44.1 | 2.488 | 3.413 | 6.9 | 21.7 |
| 3 2 | 11 42.86 | + 4 40.8 | 2.431 | 3.405 | 3.7 | 21.4 |
| 3 12 | 11 35.93 | + 5 41.2 | 2.404 | 3.396 | 0.8 | 21.2 |
| 3 22 | 11 28.82 | + 6 40.1 | 2.406 | 3.388 | 3.4 | 21.4 |
| 4 1 | 11 22.22 | + 7 32.8 | 2.438 | 3.379 | 6.7 | 21.6 |
| 4 11 | 11 16.75 | + 8 15.3 | 2.496 | 3.370 | 9.7 | 21.8 |
| 4 21 | 11 12.85 | + 8 45.2 | 2.578 | 3.360 | 12.3 | 21.9 |
| **16674** Birkeland | | | 3 13.5 218°.72 | | 4°.6/17.9 18 | |
| 2 11 | 11 57.38 | −12 6.7 | 2.003 | 2.797 | 14.2 | 18.6 |
| 2 21 | 11 52.01 | −12 13.0 | 1.915 | 2.793 | 11.3 | 18.4 |
| 3 2 | 11 44.71 | −11 59.1 | 1.851 | 2.789 | 8.1 | 18.2 |
| 3 12 | 11 36.20 | −11 26.0 | 1.812 | 2.784 | 5.3 | 18.0 |
| 3 22 | 11 27.37 | −10 37.1 | 1.802 | 2.780 | 4.9 | 18.0 |
| 4 1 | 11 19.22 | − 9 38.4 | 1.819 | 2.774 | 7.5 | 18.2 |
| 4 11 | 11 12.64 | − 8 37.0 | 1.863 | 2.769 | 10.8 | 18.3 |
| 4 21 | 11 8.19 | − 7 39.5 | 1.929 | 2.764 | 13.9 | 18.5 |
| **249228** 2008 $GH_{4}$ | | | 3 13.5 266°.77 | | 7°.0/19.7 17 | |
| 2 11 | 11 59.18 | −17 57.0 | 2.098 | 2.854 | 14.9 | 20.0 |
| 2 21 | 11 53.51 | −18 29.6 | 1.986 | 2.830 | 12.5 | 19.8 |
| 3 2 | 11 45.69 | −18 40.4 | 1.897 | 2.804 | 9.9 | 19.6 |
| 3 12 | 11 36.35 | −18 27.5 | 1.832 | 2.779 | 7.7 | 19.4 |
| 3 22 | 11 26.40 | −17 51.8 | 1.794 | 2.753 | 7.0 | 19.3 |
| 4 1 | 11 16.91 | −16 57.3 | 1.784 | 2.726 | 8.7 | 19.3 |
| 4 11 | 11 8.90 | −15 51.1 | 1.800 | 2.699 | 11.5 | 19.4 |
| 4 21 | 11 3.12 | −14 41.4 | 1.838 | 2.671 | 14.6 | 19.6 |
| **119715** 2001 $XX_{207}$ | | | 3 13.5 189°.83 | | 5°.8/20.1 18 | |
| 2 11 | 11 56.13 | −17 37.0 | 2.139 | 2.901 | 14.5 | 19.8 |
| 2 21 | 11 51.03 | −17 34.3 | 2.050 | 2.900 | 11.9 | 19.6 |
| 3 2 | 11 44.13 | −17 8.0 | 1.984 | 2.899 | 9.1 | 19.4 |
| 3 12 | 11 36.11 | −16 18.6 | 1.943 | 2.898 | 6.6 | 19.3 |
| 3 22 | 11 27.84 | −15 9.4 | 1.929 | 2.896 | 5.9 | 19.2 |
| 4 1 | 11 20.23 | −13 46.6 | 1.944 | 2.894 | 7.5 | 19.3 |
| 4 11 | 11 14.10 | −12 18.4 | 1.985 | 2.891 | 10.2 | 19.5 |
| 4 21 | 11 9.99 | −10 52.5 | 2.050 | 2.888 | 13.1 | 19.6 |
| **283498** 2001 $SO_{227}$ | | | 3 13.6 158°.92 | | 0°.5/12.9 18 | |
| 2 11 | 11 55.57 | + 2 49.9 | 2.582 | 3.426 | 9.9 | 21.4 |
| 2 21 | 11 50.23 | + 3 20.2 | 2.509 | 3.430 | 7.0 | 21.2 |
| 3 2 | 11 43.52 | + 3 57.6 | 2.462 | 3.435 | 3.8 | 21.0 |
| 3 12 | 11 36.03 | + 4 38.1 | 2.445 | 3.438 | 0.6 | 20.7 |
| 3 22 | 11 28.42 | + 5 17.5 | 2.458 | 3.442 | 3.2 | 21.0 |
| 4 1 | 11 21.40 | + 5 51.6 | 2.501 | 3.445 | 6.4 | 21.2 |
| 4 11 | 11 15.57 | + 6 17.2 | 2.571 | 3.448 | 9.4 | 21.4 |
| 4 21 | 11 11.34 | + 6 32.4 | 2.664 | 3.450 | 11.8 | 21.5 |
| **59763** 1999 $NF_{2}$ | | | 3 13.6 212°.66 | | 3°.5/18.4 18 | |
| 2 11 | 11 52.70 | −12 59.3 | 2.672 | 3.454 | 11.4 | 19.3 |
| 2 21 | 11 48.27 | −12 32.8 | 2.579 | 3.450 | 9.0 | 19.2 |
| 3 2 | 11 42.49 | −11 48.7 | 2.511 | 3.446 | 6.4 | 19.0 |
| 3 12 | 11 35.89 | −10 49.0 | 2.470 | 3.441 | 4.1 | 18.8 |
| 3 22 | 11 29.12 | − 9 37.6 | 2.458 | 3.437 | 3.7 | 18.8 |
| 4 1 | 11 22.84 | − 8 19.6 | 2.476 | 3.432 | 5.7 | 18.9 |
| 4 11 | 11 17.67 | − 7 1.1 | 2.522 | 3.427 | 8.4 | 19.1 |
| 4 21 | 11 14.01 | − 5 47.4 | 2.594 | 3.422 | 11.0 | 19.2 |
| **80061** 1999 $JT_{83}$ | | | 3 13.6 267°.09 | | 5°.0/ 6.6 18 | |
| 2 11 | 11 54.27 | +16 40.0 | 2.462 | 3.329 | 9.4 | 19.7 |
| 2 21 | 11 49.56 | +18 8.0 | 2.382 | 3.310 | 7.0 | 19.5 |
| 3 2 | 11 43.28 | +19 36.1 | 2.331 | 3.289 | 5.2 | 19.4 |
| 3 12 | 11 36.01 | +20 57.0 | 2.308 | 3.269 | 5.3 | 19.3 |
| 3 22 | 11 28.47 | +22 4.2 | 2.315 | 3.248 | 7.3 | 19.4 |
| 4 1 | 11 21.44 | +22 53.0 | 2.348 | 3.227 | 9.9 | 19.5 |
| 4 11 | 11 15.65 | +23 21.1 | 2.405 | 3.206 | 12.5 | 19.7 |
| 4 21 | 11 11.59 | +23 28.7 | 2.482 | 3.184 | 14.7 | 19.8 |
| **433941** 1995 $SK_{10}$ | | | 3 13.6 218°.94 | | 0°.3/13.2 17 | |
| 2 11 | 11 54.98 | + 1 56.0 | 2.560 | 3.403 | 10.0 | 22.1 |
| 2 21 | 11 49.89 | + 2 27.4 | 2.477 | 3.397 | 7.1 | 21.9 |
| 3 2 | 11 43.38 | + 3 6.8 | 2.420 | 3.392 | 3.9 | 21.7 |
| 3 12 | 11 36.02 | + 3 50.5 | 2.392 | 3.385 | 0.5 | 21.4 |
| 3 22 | 11 28.48 | + 4 34.1 | 2.394 | 3.379 | 3.1 | 21.7 |
| 4 1 | 11 21.48 | + 5 13.1 | 2.426 | 3.372 | 6.5 | 21.9 |
| 4 11 | 11 15.64 | + 5 43.9 | 2.485 | 3.365 | 9.5 | 22.0 |
| 4 21 | 11 11.40 | + 6 4.1 | 2.567 | 3.358 | 12.1 | 22.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **469190** 2016 $GA_{132}$ | | | 3 13.6 242°.08 | | 5°.4/ 8.1 17 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.59 | +15 57.3 | 1.924 | 2.793 | 11.6 | 21.1 |
| 2 21 | 11 52.89 | +17 4.8 | 1.856 | 2.785 | 8.5 | 20.9 |
| 3 2 | 11 45.19 | +18 11.1 | 1.814 | 2.777 | 6.0 | 20.7 |
| 3 12 | 11 36.27 | +19 8.1 | 1.799 | 2.768 | 5.6 | 20.6 |
| 3 22 | 11 27.14 | +19 48.9 | 1.813 | 2.760 | 7.9 | 20.8 |
| 4 1 | 11 18.84 | +20 8.8 | 1.852 | 2.751 | 11.1 | 20.9 |
| 4 11 | 11 12.24 | +20 6.5 | 1.914 | 2.741 | 14.2 | 21.1 |
| 4 21 | 11 7.89 | +19 43.3 | 1.996 | 2.732 | 16.9 | 21.3 |
| **420544** 2012 $GF_{18}$ | | | 3 13.6 332°.61 | | 9°.8/ 5.2 18 | |
| 2 11 | 12 2.43 | +26 12.2 | 1.572 | 2.438 | 13.9 | 20.2 |
| 2 21 | 11 55.98 | +27 24.3 | 1.522 | 2.434 | 11.4 | 20.0 |
| 3 2 | 11 46.97 | +28 23.0 | 1.495 | 2.431 | 9.9 | 19.9 |
| 3 12 | 11 36.51 | +28 57.7 | 1.493 | 2.427 | 10.2 | 20.0 |
| 3 22 | 11 25.97 | +29 1.7 | 1.515 | 2.424 | 12.3 | 20.1 |
| 4 1 | 11 16.71 | +28 33.1 | 1.561 | 2.421 | 15.0 | 20.2 |
| 4 11 | 11 9.80 | +27 34.8 | 1.626 | 2.418 | 17.8 | 20.4 |
| 4 21 | 11 5.76 | +26 12.5 | 1.707 | 2.416 | 20.2 | 20.6 |
| **208516** 2001 $XH_{127}$ | | | 3 13.6 216°.15 | | 1°.4/11.7 17 | |
| 2 11 | 11 54.76 | + 5 57.5 | 2.751 | 3.601 | 9.1 | 21.3 |
| 2 21 | 11 49.66 | + 6 40.0 | 2.668 | 3.594 | 6.4 | 21.1 |
| 3 2 | 11 43.23 | + 7 27.9 | 2.613 | 3.587 | 3.5 | 20.9 |
| 3 12 | 11 36.01 | + 8 16.7 | 2.588 | 3.579 | 1.5 | 20.7 |
| 3 22 | 11 28.61 | + 9 2.1 | 2.593 | 3.570 | 3.7 | 20.9 |
| 4 1 | 11 21.72 | + 9 40.0 | 2.628 | 3.561 | 6.7 | 21.1 |
| 4 11 | 11 15.91 | +10 7.4 | 2.690 | 3.552 | 9.5 | 21.2 |
| 4 21 | 11 11.61 | +10 22.8 | 2.774 | 3.543 | 11.9 | 21.4 |
| **452513** 2004 $RZ_{266}$ | | | 3 13.6 116°.19 | | 0°.8/14.3 18 | |
| 2 11 | 12 0.62 | − 2 18.5 | 1.699 | 2.538 | 14.4 | 22.6 |
| 2 21 | 11 54.28 | − 1 41.5 | 1.640 | 2.556 | 10.4 | 22.4 |
| 3 2 | 11 45.89 | − 0 49.0 | 1.606 | 2.574 | 6.0 | 22.2 |
| 3 12 | 11 36.36 | + 0 13.3 | 1.599 | 2.592 | 1.4 | 21.9 |
| 3 22 | 11 26.79 | + 1 18.2 | 1.621 | 2.608 | 3.8 | 22.1 |
| 4 1 | 11 18.27 | + 2 18.4 | 1.671 | 2.624 | 8.2 | 22.4 |
| 4 11 | 11 11.67 | + 3 7.7 | 1.747 | 2.640 | 12.2 | 22.6 |
| 4 21 | 11 7.47 | + 3 42.4 | 1.844 | 2.654 | 15.4 | 22.9 |
| **181695** 3007 $T_{-3}$ | | | 3 13.6 98°.74 | | 1°.0/12.6 18 | |
| 2 11 | 11 58.50 | + 3 3.1 | 1.760 | 2.615 | 13.2 | 20.2 |
| 2 21 | 11 52.74 | + 3 46.4 | 1.702 | 2.629 | 9.3 | 20.0 |
| 3 2 | 11 45.04 | + 4 39.6 | 1.669 | 2.643 | 5.0 | 19.7 |
| 3 12 | 11 36.25 | + 5 36.3 | 1.664 | 2.657 | 1.1 | 19.5 |
| 3 22 | 11 27.41 | + 6 29.7 | 1.687 | 2.670 | 4.4 | 19.8 |
| 4 1 | 11 19.53 | + 7 13.5 | 1.738 | 2.683 | 8.6 | 20.0 |
| 4 11 | 11 13.45 | + 7 43.5 | 1.814 | 2.696 | 12.3 | 20.3 |
| 4 21 | 11 9.64 | + 7 57.7 | 1.910 | 2.709 | 15.4 | 20.5 |
| **93112** 2000 $SP_{56}$ | | | 3 13.6 251°.81 | | 0°.1/13.6 17 | |
| 2 11 | 11 57.26 | + 0 27.9 | 1.891 | 2.739 | 12.7 | 20.2 |
| 2 21 | 11 51.95 | + 0 54.8 | 1.810 | 2.732 | 9.2 | 20.0 |
| 3 2 | 11 44.69 | + 1 33.7 | 1.754 | 2.726 | 5.1 | 19.7 |
| 3 12 | 11 36.22 | + 2 20.0 | 1.726 | 2.719 | 0.7 | 19.4 |
| 3 22 | 11 27.48 | + 3 7.9 | 1.726 | 2.712 | 3.8 | 19.6 |
| 4 1 | 11 19.47 | + 3 51.2 | 1.753 | 2.705 | 8.1 | 19.8 |
| 4 11 | 11 13.08 | + 4 24.7 | 1.807 | 2.698 | 11.9 | 20.1 |
| 4 21 | 11 8.86 | + 4 45.2 | 1.881 | 2.690 | 15.2 | 20.3 |
| **55910** 1998 $EN_{12}$ | | | 3 13.6 322°.53 | | 3°.1/ 9.8 17 | |
| 2 11 | 11 52.96 | + 8 54.0 | 2.097 | 2.966 | 10.8 | 19.0 |
| 2 21 | 11 48.72 | +10 8.8 | 2.026 | 2.961 | 7.6 | 18.8 |
| 3 2 | 11 42.83 | +11 29.0 | 1.982 | 2.956 | 4.4 | 18.6 |
| 3 12 | 11 35.97 | +12 47.5 | 1.967 | 2.951 | 3.2 | 18.5 |
| 3 22 | 11 28.92 | +13 57.3 | 1.980 | 2.946 | 5.7 | 18.7 |
| 4 1 | 11 22.53 | +14 52.5 | 2.020 | 2.942 | 9.1 | 18.9 |
| 4 11 | 11 17.53 | +15 29.4 | 2.085 | 2.938 | 12.2 | 19.1 |
| 4 21 | 11 14.39 | +15 47.2 | 2.170 | 2.934 | 14.9 | 19.2 |
| **150036** 2005 $WD_{3}$ | | | 3 13.6 212°.66 | | 0°.9/12.5 17 | |
| 2 11 | 11 56.78 | + 2 42.0 | 2.350 | 3.195 | 10.7 | 20.9 |
| 2 21 | 11 51.31 | + 3 34.3 | 2.265 | 3.187 | 7.6 | 20.6 |
| 3 2 | 11 44.24 | + 4 36.1 | 2.206 | 3.179 | 4.1 | 20.4 |
| 3 12 | 11 36.18 | + 5 42.2 | 2.177 | 3.169 | 0.9 | 20.1 |
| 3 22 | 11 27.88 | + 6 46.8 | 2.178 | 3.159 | 3.8 | 20.3 |
| 4 1 | 11 20.16 | + 7 44.4 | 2.209 | 3.149 | 7.4 | 20.5 |
| 4 11 | 11 13.73 | + 8 30.4 | 2.266 | 3.137 | 10.7 | 20.7 |
| 4 21 | 11 9.10 | + 9 2.2 | 2.346 | 3.125 | 13.5 | 20.9 |
| **197017** 2003 $UL_{105}$ | | | 3 13.6 46°.37 | | 1°.4/15.0 18 | |
| 2 11 | 11 54.38 | − 4 14.4 | 1.902 | 2.738 | 13.2 | 20.5 |
| 2 21 | 11 49.82 | − 3 39.5 | 1.830 | 2.743 | 9.7 | 20.2 |
| 3 2 | 11 43.46 | − 2 48.3 | 1.782 | 2.748 | 5.8 | 20.0 |
| 3 12 | 11 36.07 | − 1 45.4 | 1.762 | 2.752 | 1.9 | 19.8 |
| 3 22 | 11 28.50 | − 0 37.0 | 1.769 | 2.757 | 3.3 | 19.9 |
| 4 1 | 11 21.70 | + 0 29.9 | 1.805 | 2.762 | 7.3 | 20.1 |
| 4 11 | 11 16.45 | + 1 28.6 | 1.866 | 2.768 | 11.1 | 20.4 |
| 4 21 | 11 13.23 | + 2 14.8 | 1.950 | 2.773 | 14.2 | 20.6 |

**495009** 2010 $MW_{85}$ 3 13.6 117°.15 3°.2/17.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 52.84 | −11 25.4 | 2.823 | 3.611 | 10.7 | 21.5 |
| 2 21 | 11 48.27 | −11 15.6 | 2.741 | 3.616 | 8.4 | 21.4 |
| 3 2 | 11 42.46 | −10 51.2 | 2.684 | 3.622 | 5.9 | 21.2 |
| 3 12 | 11 35.92 | −10 13.9 | 2.654 | 3.627 | 3.7 | 21.1 |
| 3 22 | 11 29.26 | − 9 26.7 | 2.654 | 3.633 | 3.4 | 21.1 |
| 4 1 | 11 23.10 | − 8 34.0 | 2.683 | 3.638 | 5.4 | 21.2 |
| 4 11 | 11 17.99 | − 7 40.4 | 2.740 | 3.643 | 7.9 | 21.4 |
| 4 21 | 11 14.31 | − 6 50.2 | 2.822 | 3.648 | 10.2 | 21.5 |

**56948** 2000 $RR_{98}$ 3 13.6 139°.68 7°.0/20.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.05 | −20 33.8 | 2.489 | 3.217 | 13.5 | 19.3 |
| 2 21 | 11 53.00 | −21 25.0 | 2.402 | 3.219 | 11.5 | 19.1 |
| 3 2 | 11 45.21 | −21 56.7 | 2.337 | 3.221 | 9.4 | 19.0 |
| 3 12 | 11 36.32 | −22 7.4 | 2.298 | 3.223 | 7.6 | 18.9 |
| 3 22 | 11 27.13 | −21 57.7 | 2.285 | 3.225 | 7.0 | 18.9 |
| 4 1 | 11 18.51 | −21 30.7 | 2.301 | 3.227 | 7.9 | 18.9 |
| 4 11 | 11 11.23 | −20 51.8 | 2.343 | 3.228 | 9.8 | 19.0 |
| 4 21 | 11 5.85 | −20 7.0 | 2.408 | 3.230 | 11.9 | 19.2 |

**175453** 2006 $QU_{61}$ 3 13.6 92°.32 5°.6/19.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.90 | −17 22.1 | 2.649 | 3.391 | 12.5 | 20.1 |
| 2 21 | 11 54.01 | −18 0.4 | 2.582 | 3.416 | 10.3 | 20.0 |
| 3 2 | 11 45.62 | −18 21.1 | 2.539 | 3.441 | 8.0 | 19.9 |
| 3 12 | 11 36.37 | −18 23.7 | 2.523 | 3.465 | 6.1 | 19.8 |
| 3 22 | 11 27.02 | −18 10.1 | 2.536 | 3.489 | 5.6 | 19.8 |
| 4 1 | 11 18.37 | −17 43.6 | 2.578 | 3.513 | 6.7 | 19.9 |
| 4 11 | 11 11.06 | −17 9.3 | 2.648 | 3.536 | 8.7 | 20.1 |
| 4 21 | 11 5.55 | −16 32.4 | 2.743 | 3.559 | 10.8 | 20.2 |

**473243** 2015 $LV_{36}$ 3 13.6 286°.98 6°.4/21.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.36 | −20 30.2 | 2.386 | 3.127 | 13.7 | 21.2 |
| 2 21 | 11 49.06 | −20 34.3 | 2.278 | 3.108 | 11.6 | 21.0 |
| 3 2 | 11 43.10 | −20 15.5 | 2.192 | 3.089 | 9.3 | 20.8 |
| 3 12 | 11 36.04 | −19 33.2 | 2.131 | 3.070 | 7.2 | 20.6 |
| 3 22 | 11 28.64 | −18 29.6 | 2.096 | 3.051 | 6.4 | 20.5 |
| 4 1 | 11 21.71 | −17 9.2 | 2.089 | 3.032 | 7.5 | 20.6 |
| 4 11 | 11 16.05 | −15 39.4 | 2.109 | 3.013 | 9.8 | 20.7 |
| 4 21 | 11 12.19 | −14 7.6 | 2.153 | 2.994 | 12.4 | 20.8 |

**79097** 1981 $EC_{24}$ 3 13.6 331°.29 0°.3/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.29 | − 0 33.2 | 2.708 | 3.547 | 9.6 | 19.6 |
| 2 21 | 11 47.24 | − 0 4.4 | 2.622 | 3.540 | 6.9 | 19.5 |
| 3 2 | 11 41.93 | + 0 33.6 | 2.564 | 3.533 | 3.9 | 19.2 |
| 3 12 | 11 35.87 | + 1 17.5 | 2.533 | 3.526 | 0.7 | 19.0 |
| 3 22 | 11 29.65 | + 2 3.3 | 2.533 | 3.520 | 2.6 | 19.1 |
| 4 1 | 11 23.90 | + 2 46.8 | 2.562 | 3.513 | 5.8 | 19.3 |
| 4 11 | 11 19.18 | + 3 24.0 | 2.617 | 3.507 | 8.7 | 19.5 |
| 4 21 | 11 15.89 | + 3 52.2 | 2.696 | 3.502 | 11.2 | 19.7 |

**65818** 1996 $TP_{39}$ 3 13.6 102°.28 0°.8/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.51 | + 1 41.8 | 1.634 | 2.489 | 14.1 | 19.7 |
| 2 21 | 11 53.55 | + 2 36.0 | 1.581 | 2.507 | 10.0 | 19.5 |
| 3 2 | 11 45.52 | + 3 42.4 | 1.552 | 2.525 | 5.4 | 19.3 |
| 3 12 | 11 36.37 | + 4 53.6 | 1.550 | 2.543 | 0.9 | 19.0 |
| 3 22 | 11 27.19 | + 6 1.5 | 1.577 | 2.561 | 4.5 | 19.3 |
| 4 1 | 11 19.09 | + 6 58.9 | 1.631 | 2.578 | 9.0 | 19.6 |
| 4 11 | 11 12.94 | + 7 40.7 | 1.710 | 2.594 | 12.9 | 19.9 |
| 4 21 | 11 9.20 | + 8 4.7 | 1.809 | 2.610 | 16.1 | 20.1 |

**222076** 1999 $KM_{2}$ 3 13.6 290°.38 7°.1/ 6.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.61 | +20 5.5 | 1.743 | 2.614 | 12.5 | 19.9 |
| 2 21 | 11 53.81 | +21 14.5 | 1.681 | 2.606 | 9.6 | 19.7 |
| 3 2 | 11 45.78 | +22 17.9 | 1.644 | 2.598 | 7.5 | 19.6 |
| 3 12 | 11 36.42 | +23 6.3 | 1.633 | 2.590 | 7.5 | 19.6 |
| 3 22 | 11 26.85 | +23 32.6 | 1.649 | 2.582 | 9.7 | 19.7 |
| 4 1 | 11 18.27 | +23 33.2 | 1.689 | 2.574 | 12.8 | 19.8 |
| 4 11 | 11 11.64 | +23 8.0 | 1.751 | 2.566 | 15.8 | 20.0 |
| 4 21 | 11 7.51 | +22 20.1 | 1.831 | 2.559 | 18.4 | 20.2 |

**417040** 2005 $UN_{117}$ 3 13.6 111°.13 1°.2/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.14 | + 4 19.1 | 1.969 | 2.821 | 12.1 | 21.8 |
| 2 21 | 11 53.04 | + 4 54.7 | 1.910 | 2.836 | 8.5 | 21.6 |
| 3 2 | 11 45.17 | + 5 37.7 | 1.877 | 2.850 | 4.6 | 21.3 |
| 3 12 | 11 36.33 | + 6 22.7 | 1.872 | 2.864 | 1.2 | 21.1 |
| 3 22 | 11 27.43 | + 7 3.9 | 1.897 | 2.878 | 4.2 | 21.4 |
| 4 1 | 11 19.43 | + 7 36.4 | 1.950 | 2.892 | 8.1 | 21.6 |
| 4 11 | 11 13.07 | + 7 56.5 | 2.028 | 2.905 | 11.5 | 21.9 |
| 4 21 | 11 8.82 | + 8 3.0 | 2.128 | 2.917 | 14.4 | 22.1 |

**465391** 2008 $FL_{136}$ 3 13.6 271°.00 2°.1/11.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.75 | + 5 8.5 | 1.894 | 2.754 | 12.2 | 21.7 |
| 2 21 | 11 51.75 | + 6 9.7 | 1.801 | 2.731 | 8.7 | 21.5 |
| 3 2 | 11 44.70 | + 7 21.7 | 1.734 | 2.709 | 4.7 | 21.2 |
| 3 12 | 11 36.30 | + 8 37.7 | 1.695 | 2.686 | 2.1 | 20.9 |
| 3 22 | 11 27.46 | + 9 49.9 | 1.685 | 2.662 | 5.2 | 21.1 |
| 4 1 | 11 19.23 | +10 50.8 | 1.702 | 2.638 | 9.5 | 21.3 |
| 4 11 | 11 12.57 | +11 34.9 | 1.744 | 2.614 | 13.4 | 21.5 |
| 4 21 | 11 8.13 | +11 59.8 | 1.806 | 2.589 | 16.8 | 21.6 |

**370804** 2004 $TA_{176}$ 3 13.6 130°.17 3°.2/10.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.83 | +11 29.1 | 2.345 | 3.204 | 10.2 | 21.4 |
| 2 21 | 11 52.60 | +12 17.8 | 2.290 | 3.218 | 7.2 | 21.3 |
| 3 2 | 11 44.85 | +13 7.5 | 2.263 | 3.232 | 4.3 | 21.1 |
| 3 12 | 11 36.29 | +13 52.4 | 2.264 | 3.246 | 3.3 | 21.1 |
| 3 22 | 11 27.69 | +14 27.7 | 2.296 | 3.259 | 5.4 | 21.2 |
| 4 1 | 11 19.88 | +14 49.7 | 2.356 | 3.272 | 8.3 | 21.4 |
| 4 11 | 11 13.50 | +14 56.8 | 2.442 | 3.284 | 11.0 | 21.6 |
| 4 21 | 11 8.96 | +14 49.2 | 2.549 | 3.295 | 13.3 | 21.8 |

**100817** 1998 $FM_{133}$ 3 13.6 36°.52 1°.4/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.75 | + 4 18.5 | 1.287 | 2.159 | 16.0 | 19.5 |
| 2 21 | 11 54.24 | + 4 44.3 | 1.231 | 2.166 | 11.3 | 19.2 |
| 3 2 | 11 46.11 | + 5 20.9 | 1.198 | 2.174 | 6.1 | 19.0 |
| 3 12 | 11 36.48 | + 6 0.9 | 1.189 | 2.182 | 1.5 | 18.7 |
| 3 22 | 11 26.71 | + 6 36.5 | 1.207 | 2.191 | 5.5 | 19.0 |
| 4 1 | 11 18.23 | + 7 0.6 | 1.249 | 2.200 | 10.6 | 19.3 |
| 4 11 | 11 12.13 | + 7 8.8 | 1.314 | 2.210 | 15.1 | 19.6 |
| 4 21 | 11 8.94 | + 6 59.8 | 1.397 | 2.220 | 18.9 | 19.8 |

**123890** 2001 $DB_{51}$ 3 13.6 324°.44 5°.0/ 9.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.59 | +14 16.1 | 1.681 | 2.555 | 12.7 | 18.7 |
| 2 21 | 11 53.14 | +14 59.8 | 1.611 | 2.544 | 9.2 | 18.5 |
| 3 2 | 11 45.46 | +15 43.1 | 1.565 | 2.534 | 6.0 | 18.3 |
| 3 12 | 11 36.42 | +16 18.1 | 1.546 | 2.524 | 5.1 | 18.2 |
| 3 22 | 11 27.12 | +16 38.0 | 1.553 | 2.514 | 7.7 | 18.3 |
| 4 1 | 11 18.74 | +16 38.4 | 1.587 | 2.505 | 11.3 | 18.5 |
| 4 11 | 11 12.27 | +16 17.9 | 1.642 | 2.496 | 14.9 | 18.7 |
| 4 21 | 11 8.29 | +15 37.9 | 1.717 | 2.488 | 17.9 | 18.9 |

**159253** 2005 $YT_{118}$ 3 13.6 215°.70 1°.5/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.33 | + 4 28.2 | 2.055 | 2.911 | 11.5 | 20.8 |
| 2 21 | 11 51.17 | + 5 19.1 | 1.979 | 2.907 | 8.2 | 20.6 |
| 3 2 | 11 44.24 | + 6 18.5 | 1.928 | 2.903 | 4.4 | 20.3 |
| 3 12 | 11 36.24 | + 7 20.7 | 1.906 | 2.898 | 1.5 | 20.1 |
| 3 22 | 11 28.04 | + 8 19.3 | 1.914 | 2.893 | 4.4 | 20.3 |
| 4 1 | 11 20.53 | + 9 8.3 | 1.949 | 2.888 | 8.2 | 20.5 |
| 4 11 | 11 14.50 | + 9 43.5 | 2.010 | 2.883 | 11.7 | 20.7 |
| 4 21 | 11 10.45 | +10 2.9 | 2.092 | 2.877 | 14.7 | 20.9 |

**501201** 2013 $TH_{130}$ 3 13.6 219°.13 2°.2/15.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.13 | − 4 58.1 | 2.098 | 2.919 | 12.7 | 21.7 |
| 2 21 | 11 53.20 | − 4 58.3 | 2.010 | 2.913 | 9.6 | 21.5 |
| 3 2 | 11 45.39 | − 4 44.5 | 1.947 | 2.907 | 6.0 | 21.2 |
| 3 12 | 11 36.41 | − 4 19.0 | 1.912 | 2.900 | 2.7 | 21.0 |
| 3 22 | 11 27.14 | − 3 45.7 | 1.907 | 2.893 | 3.5 | 21.0 |
| 4 1 | 11 18.52 | − 3 9.6 | 1.930 | 2.885 | 7.1 | 21.3 |
| 4 11 | 11 11.41 | − 2 35.9 | 1.979 | 2.878 | 10.7 | 21.5 |
| 4 21 | 11 6.36 | − 2 9.2 | 2.052 | 2.869 | 13.8 | 21.6 |

**238377** 2004 $CL_{93}$ 3 13.6 61°.70 0°.7/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.58 | − 2 55.3 | 2.018 | 2.858 | 12.4 | 20.6 |
| 2 21 | 11 49.16 | − 2 5.7 | 1.950 | 2.867 | 9.0 | 20.4 |
| 3 2 | 11 43.09 | − 1 1.5 | 1.907 | 2.875 | 5.2 | 20.2 |
| 3 12 | 11 36.08 | + 0 12.2 | 1.892 | 2.884 | 1.2 | 20.0 |
| 3 22 | 11 28.96 | + 1 28.8 | 1.905 | 2.893 | 3.2 | 20.1 |
| 4 1 | 11 22.57 | + 2 41.3 | 1.948 | 2.902 | 7.1 | 20.4 |
| 4 11 | 11 17.61 | + 3 43.8 | 2.016 | 2.911 | 10.7 | 20.6 |
| 4 21 | 11 14.55 | + 4 32.3 | 2.106 | 2.920 | 13.7 | 20.8 |

**172378** 2002 $YK_{35}$ 3 13.6 69°.11 6°.0/20.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.76 | −18 19.3 | 2.186 | 2.945 | 14.3 | 19.9 |
| 2 21 | 11 49.98 | −18 24.9 | 2.112 | 2.957 | 11.8 | 19.7 |
| 3 2 | 11 43.55 | −18 7.6 | 2.059 | 2.969 | 9.1 | 19.5 |
| 3 12 | 11 36.15 | −17 28.1 | 2.032 | 2.981 | 6.8 | 19.4 |
| 3 22 | 11 28.61 | −16 29.8 | 2.031 | 2.993 | 6.0 | 19.4 |
| 4 1 | 11 21.77 | −15 18.3 | 2.058 | 3.006 | 7.3 | 19.5 |
| 4 11 | 11 16.37 | −14 1.0 | 2.111 | 3.018 | 9.7 | 19.7 |
| 4 21 | 11 12.87 | −12 45.1 | 2.189 | 3.030 | 12.2 | 19.8 |

**386149** 2007 $TD_{245}$ 3 13.6 168°.56 5°.1/20.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.08 | −17 47.5 | 2.630 | 3.380 | 12.4 | 21.5 |
| 2 21 | 11 50.03 | −17 47.1 | 2.542 | 3.383 | 10.2 | 21.3 |
| 3 2 | 11 43.52 | −17 27.4 | 2.477 | 3.385 | 7.8 | 21.2 |
| 3 12 | 11 36.15 | −16 49.0 | 2.438 | 3.388 | 5.8 | 21.0 |
| 3 22 | 11 28.60 | −15 54.6 | 2.428 | 3.390 | 5.2 | 21.0 |
| 4 1 | 11 21.59 | −14 48.8 | 2.446 | 3.392 | 6.4 | 21.1 |
| 4 11 | 11 15.78 | −13 37.6 | 2.492 | 3.393 | 8.6 | 21.2 |
| 4 21 | 11 11.60 | −12 27.0 | 2.563 | 3.394 | 11.0 | 21.4 |

**77709** 2001 $OH_{41}$ 3 13.6 142°.99 0°.5/13.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.75 | + 3 16.2 | 2.353 | 3.198 | 10.7 | 19.5 |
| 2 21 | 11 51.92 | + 3 34.4 | 2.281 | 3.203 | 7.6 | 19.3 |
| 3 2 | 11 44.55 | + 3 59.6 | 2.236 | 3.208 | 4.1 | 19.1 |
| 3 12 | 11 36.29 | + 4 27.7 | 2.220 | 3.213 | 0.7 | 18.8 |
| 3 22 | 11 27.92 | + 4 54.6 | 2.234 | 3.218 | 3.4 | 19.0 |
| 4 1 | 11 20.22 | + 5 16.4 | 2.277 | 3.222 | 6.9 | 19.2 |
| 4 11 | 11 13.87 | + 5 29.9 | 2.347 | 3.226 | 10.0 | 19.4 |
| 4 21 | 11 9.31 | + 5 33.3 | 2.439 | 3.230 | 12.7 | 19.6 |

**339477** 2005 $ET_{304}$ 3 13.6 292°.63 3°.0/10.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.03 | +10 40.2 | 2.096 | 2.959 | 11.0 | 20.4 |
| 2 21 | 11 52.35 | +11 11.6 | 2.022 | 2.953 | 7.9 | 20.1 |
| 3 2 | 11 44.88 | +11 45.1 | 1.974 | 2.946 | 4.6 | 19.9 |
| 3 12 | 11 36.35 | +12 15.1 | 1.954 | 2.940 | 3.1 | 19.8 |
| 3 22 | 11 27.63 | +12 36.5 | 1.963 | 2.933 | 5.5 | 19.9 |
| 4 1 | 11 19.64 | +12 45.3 | 2.000 | 2.927 | 8.9 | 20.1 |
| 4 11 | 11 13.17 | +12 39.6 | 2.062 | 2.920 | 12.1 | 20.3 |
| 4 21 | 11 8.73 | +12 19.2 | 2.144 | 2.914 | 14.8 | 20.5 |

**383664** 2007 $TB_{141}$ 3 13.6 101°.19 1°.6/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.88 | + 6 35.2 | 2.268 | 3.122 | 10.7 | 20.7 |
| 2 21 | 11 52.01 | + 7 0.1 | 2.205 | 3.132 | 7.5 | 20.5 |
| 3 2 | 11 44.59 | + 7 29.6 | 2.168 | 3.142 | 4.1 | 20.3 |
| 3 12 | 11 36.30 | + 7 59.0 | 2.161 | 3.152 | 1.6 | 20.2 |
| 3 22 | 11 27.95 | + 8 23.9 | 2.183 | 3.161 | 4.1 | 20.4 |
| 4 1 | 11 20.34 | + 8 40.5 | 2.233 | 3.171 | 7.4 | 20.6 |
| 4 11 | 11 14.16 | + 8 46.4 | 2.310 | 3.180 | 10.5 | 20.8 |
| 4 21 | 11 9.82 | + 8 40.7 | 2.409 | 3.190 | 13.1 | 21.0 |

**296715** 2009 $SQ_{337}$ 3 13.6 135°.74 3°.3/17.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.34 | −11 9.5 | 2.432 | 3.220 | 12.2 | 21.6 |
| 2 21 | 11 51.60 | −10 52.7 | 2.358 | 3.235 | 9.5 | 21.4 |
| 3 2 | 11 44.36 | −10 18.8 | 2.309 | 3.250 | 6.5 | 21.3 |
| 3 12 | 11 36.28 | − 9 30.3 | 2.288 | 3.263 | 3.9 | 21.1 |
| 3 22 | 11 28.09 | − 8 31.2 | 2.296 | 3.277 | 3.7 | 21.1 |
| 4 1 | 11 20.58 | − 7 26.8 | 2.334 | 3.289 | 6.1 | 21.3 |
| 4 11 | 11 14.40 | − 6 23.1 | 2.400 | 3.301 | 9.0 | 21.5 |
| 4 21 | 11 9.96 | − 5 25.1 | 2.491 | 3.312 | 11.6 | 21.7 |

**17085** 1999 $JM_{16}$ 3 13.6 138°.18 2°.9/16.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.78 | − 8 2.8 | 1.762 | 2.580 | 14.8 | 18.8 |
| 2 21 | 11 53.10 | − 7 37.6 | 1.691 | 2.590 | 11.3 | 18.6 |
| 3 2 | 11 45.36 | − 6 51.9 | 1.643 | 2.599 | 7.3 | 18.4 |
| 3 12 | 11 36.43 | − 5 49.3 | 1.622 | 2.608 | 3.5 | 18.2 |
| 3 22 | 11 27.31 | − 4 36.2 | 1.630 | 2.616 | 3.9 | 18.2 |
| 4 1 | 11 19.11 | − 3 20.5 | 1.665 | 2.624 | 7.8 | 18.5 |
| 4 11 | 11 12.70 | − 2 10.3 | 1.726 | 2.631 | 11.6 | 18.7 |
| 4 21 | 11 8.63 | − 1 11.6 | 1.810 | 2.637 | 15.0 | 18.9 |

**51163** 2000 $HU_{58}$ 3 13.6 136°.39 3°.7/18.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.90 | −11 53.2 | 2.393 | 3.183 | 12.3 | 19.0 |
| 2 21 | 11 49.95 | −11 40.9 | 2.313 | 3.189 | 9.7 | 18.9 |
| 3 2 | 11 43.50 | −11 10.9 | 2.257 | 3.196 | 6.8 | 18.7 |
| 3 12 | 11 36.17 | −10 25.2 | 2.228 | 3.201 | 4.3 | 18.5 |
| 3 22 | 11 28.68 | − 9 27.6 | 2.228 | 3.207 | 3.9 | 18.5 |
| 4 1 | 11 21.81 | − 8 23.5 | 2.257 | 3.213 | 6.2 | 18.7 |
| 4 11 | 11 16.21 | − 7 19.0 | 2.313 | 3.218 | 9.1 | 18.9 |
| 4 21 | 11 12.34 | − 6 19.4 | 2.394 | 3.223 | 11.7 | 19.1 |

**386201** 2007 $VU_{269}$ 3 13.6 124°.25 3°.3/17.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.46 | −10 57.6 | 2.410 | 3.205 | 12.1 | 21.1 |
| 2 21 | 11 49.62 | −10 41.6 | 2.331 | 3.212 | 9.4 | 20.9 |
| 3 2 | 11 43.31 | −10 8.6 | 2.277 | 3.219 | 6.5 | 20.7 |
| 3 12 | 11 36.14 | − 9 20.9 | 2.250 | 3.226 | 3.9 | 20.6 |
| 3 22 | 11 28.84 | − 8 22.3 | 2.252 | 3.233 | 3.7 | 20.6 |
| 4 1 | 11 22.14 | − 7 18.3 | 2.283 | 3.240 | 6.1 | 20.7 |
| 4 11 | 11 16.70 | − 6 14.8 | 2.341 | 3.246 | 9.0 | 20.9 |
| 4 21 | 11 12.95 | − 5 16.8 | 2.424 | 3.252 | 11.6 | 21.1 |

**458844** 2011 $UZ_{56}$ 3 13.6 206°.60 2°.6/16.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.61 | − 8 24.8 | 1.981 | 2.791 | 13.7 | 22.3 |
| 2 21 | 11 52.95 | − 7 46.2 | 1.890 | 2.785 | 10.5 | 22.1 |
| 3 2 | 11 45.32 | − 6 47.2 | 1.823 | 2.778 | 6.8 | 21.8 |
| 3 12 | 11 36.44 | − 5 30.9 | 1.785 | 2.770 | 3.2 | 21.6 |
| 3 22 | 11 27.24 | − 4 3.5 | 1.775 | 2.761 | 3.7 | 21.6 |
| 4 1 | 11 18.72 | − 2 33.0 | 1.795 | 2.752 | 7.4 | 21.8 |
| 4 11 | 11 11.78 | − 1 7.7 | 1.842 | 2.741 | 11.3 | 22.0 |
| 4 21 | 11 7.00 | + 0 6.1 | 1.912 | 2.729 | 14.7 | 22.2 |

**468578** 2007 $HD_{79}$ 3 13.6 325°.59 8°.6/ 5.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.34 | +22 25.3 | 1.583 | 2.459 | 13.2 | 20.1 |
| 2 21 | 11 53.15 | +23 46.7 | 1.525 | 2.448 | 10.5 | 19.9 |
| 3 2 | 11 45.54 | +25 0.1 | 1.490 | 2.438 | 8.7 | 19.8 |
| 3 12 | 11 36.47 | +25 54.7 | 1.481 | 2.428 | 9.1 | 19.8 |
| 3 22 | 11 27.18 | +26 22.4 | 1.496 | 2.419 | 11.4 | 19.9 |
| 4 1 | 11 18.95 | +26 19.5 | 1.535 | 2.410 | 14.4 | 20.1 |
| 4 11 | 11 12.82 | +25 46.7 | 1.593 | 2.402 | 17.4 | 20.2 |
| 4 21 | 11 9.37 | +24 48.1 | 1.668 | 2.394 | 20.0 | 20.4 |

**341550** 2007 $UC_{8}$ 3 13.6 196°.59 3°.4/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.34 | −10 33.4 | 2.477 | 3.271 | 11.8 | 20.7 |
| 2 21 | 11 50.27 | −10 26.9 | 2.389 | 3.269 | 9.2 | 20.5 |
| 3 2 | 11 43.70 | −10 4.3 | 2.325 | 3.267 | 6.4 | 20.3 |
| 3 12 | 11 36.22 | − 9 27.4 | 2.289 | 3.265 | 3.9 | 20.1 |
| 3 22 | 11 28.53 | − 8 39.5 | 2.282 | 3.262 | 3.7 | 20.1 |
| 4 1 | 11 21.39 | − 7 45.3 | 2.304 | 3.260 | 6.1 | 20.3 |
| 4 11 | 11 15.47 | − 6 50.5 | 2.353 | 3.256 | 9.0 | 20.4 |
| 4 21 | 11 11.24 | − 5 59.9 | 2.427 | 3.253 | 11.7 | 20.6 |

**128953** 2004 $TM_{133}$ 3 13.6 211°.59 0°.9/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.59 | − 2 51.7 | 1.802 | 2.640 | 13.7 | 20.9 |
| 2 21 | 11 53.06 | − 2 9.5 | 1.719 | 2.634 | 10.1 | 20.6 |
| 3 2 | 11 45.43 | − 1 10.2 | 1.660 | 2.628 | 5.9 | 20.4 |
| 3 12 | 11 36.48 | + 0 1.1 | 1.628 | 2.621 | 1.4 | 20.0 |
| 3 22 | 11 27.20 | + 1 17.4 | 1.626 | 2.613 | 3.7 | 20.2 |
| 4 1 | 11 18.69 | + 2 30.7 | 1.651 | 2.605 | 8.3 | 20.4 |
| 4 11 | 11 11.90 | + 3 33.7 | 1.702 | 2.596 | 12.4 | 20.7 |
| 4 21 | 11 7.42 | + 4 21.7 | 1.775 | 2.586 | 15.9 | 20.9 |

**42870** 1999 $RM_{120}$ 3 13.6 210°.26 1°.8/15.3 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.16 | − 4 19.0 | 2.020 | 2.849 | 12.8 | 19.3 |
| 2 21 | 11 51.82 | − 4 5.5 | 1.939 | 2.847 | 9.6 | 19.0 |
| 3 2 | 11 44.65 | − 3 37.4 | 1.882 | 2.845 | 5.9 | 18.8 |
| 3 12 | 11 36.37 | − 2 57.8 | 1.853 | 2.842 | 2.3 | 18.6 |
| 3 22 | 11 27.84 | − 2 11.6 | 1.852 | 2.840 | 3.4 | 18.6 |
| 4 1 | 11 20.01 | − 1 24.4 | 1.880 | 2.837 | 7.2 | 18.9 |
| 4 11 | 11 13.71 | − 0 42.0 | 1.934 | 2.834 | 10.8 | 19.1 |
| 4 21 | 11 9.44 | − 0 8.7 | 2.011 | 2.831 | 14.0 | 19.3 |

**254662** 2005 $KC_{8}$ 3 13.6 290°.40 2°.8/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.90 | + 6 34.0 | 1.563 | 2.434 | 13.7 | 20.8 |
| 2 21 | 11 52.14 | + 7 34.9 | 1.484 | 2.420 | 9.7 | 20.5 |
| 3 2 | 11 45.04 | + 8 46.0 | 1.430 | 2.406 | 5.4 | 20.2 |
| 3 12 | 11 36.44 | + 9 58.9 | 1.402 | 2.392 | 2.9 | 20.0 |
| 3 22 | 11 27.44 | +11 4.6 | 1.401 | 2.378 | 6.3 | 20.2 |
| 4 1 | 11 19.29 | +11 55.1 | 1.427 | 2.364 | 10.8 | 20.4 |
| 4 11 | 11 13.05 | +12 25.1 | 1.475 | 2.350 | 15.0 | 20.6 |
| 4 21 | 11 9.37 | +12 33.2 | 1.541 | 2.337 | 18.6 | 20.8 |

**50551** 2000 $EJ_{20}$ 3 13.6 262°.71 5°.6/19.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.70 | −17 23.6 | 2.445 | 3.200 | 13.0 | 19.0 |
| 2 21 | 11 50.74 | −17 30.1 | 2.335 | 3.180 | 10.8 | 18.8 |
| 3 2 | 11 44.09 | −17 16.3 | 2.247 | 3.159 | 8.4 | 18.6 |
| 3 12 | 11 36.31 | −16 41.9 | 2.185 | 3.137 | 6.3 | 18.5 |
| 3 22 | 11 28.13 | −15 49.1 | 2.151 | 3.115 | 5.6 | 18.4 |
| 4 1 | 11 20.40 | −14 42.1 | 2.146 | 3.093 | 7.1 | 18.4 |
| 4 11 | 11 13.90 | −13 27.6 | 2.168 | 3.070 | 9.7 | 18.6 |
| 4 21 | 11 9.20 | −12 12.4 | 2.214 | 3.047 | 12.4 | 18.7 |

**3177** Chillicothe 3 13.6 73°.75 7°.4/ 7.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 4.65 | +21 36.2 | 1.667 | 2.532 | 13.3 | 15.7 |
| 2 21 | 11 57.20 | +22 24.5 | 1.628 | 2.548 | 10.2 | 15.5 |
| 3 2 | 11 47.53 | +23 3.0 | 1.613 | 2.564 | 7.9 | 15.4 |
| 3 12 | 11 36.75 | +23 23.3 | 1.624 | 2.580 | 7.6 | 15.5 |
| 3 22 | 11 26.11 | +23 20.4 | 1.662 | 2.596 | 9.6 | 15.6 |
| 4 1 | 11 16.84 | +22 53.1 | 1.726 | 2.612 | 12.5 | 15.8 |
| 4 11 | 11 9.79 | +22 3.4 | 1.811 | 2.628 | 15.3 | 16.0 |
| 4 21 | 11 5.40 | +20 55.7 | 1.916 | 2.644 | 17.7 | 16.2 |

**274592** 2008 $TR_{27}$ 3 13.6 277°.86 1°.5/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.67 | + 5 12.8 | 1.920 | 2.778 | 12.1 | 20.9 |
| 2 21 | 11 52.27 | + 5 43.4 | 1.841 | 2.770 | 8.6 | 20.6 |
| 3 2 | 11 44.94 | + 6 21.6 | 1.787 | 2.762 | 4.7 | 20.4 |
| 3 12 | 11 36.42 | + 7 2.0 | 1.762 | 2.754 | 1.5 | 20.1 |
| 3 22 | 11 27.63 | + 7 38.7 | 1.764 | 2.745 | 4.5 | 20.3 |
| 4 1 | 11 19.59 | + 8 6.5 | 1.795 | 2.737 | 8.6 | 20.5 |
| 4 11 | 11 13.15 | + 8 21.5 | 1.850 | 2.729 | 12.3 | 20.8 |
| 4 21 | 11 8.87 | + 8 22.1 | 1.926 | 2.721 | 15.4 | 20.9 |

**422764** 2001 $UD_{9}$ 3 13.6 133°.23 0°.0/13.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.36 | + 0 5.0 | 2.238 | 3.075 | 11.4 | 23.0 |
| 2 21 | 11 52.38 | + 0 43.2 | 2.174 | 3.091 | 8.2 | 22.8 |
| 3 2 | 11 44.82 | + 1 31.7 | 2.135 | 3.105 | 4.5 | 22.6 |
| 3 12 | 11 36.39 | + 2 25.8 | 2.126 | 3.119 | 0.6 | 22.3 |
| 3 22 | 11 27.88 | + 3 20.1 | 2.147 | 3.132 | 3.2 | 22.6 |
| 4 1 | 11 20.13 | + 4 9.4 | 2.197 | 3.145 | 6.9 | 22.8 |
| 4 11 | 11 13.82 | + 4 49.3 | 2.275 | 3.157 | 10.2 | 23.0 |
| 4 21 | 11 9.38 | + 5 17.2 | 2.375 | 3.168 | 12.9 | 23.2 |

**212673** 2006 $UO_{333}$ 3 13.6 49°.33 0°.8/12.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.89 | + 1 58.5 | 2.186 | 3.039 | 11.0 | 20.6 |
| 2 21 | 11 48.60 | + 2 58.5 | 2.117 | 3.044 | 7.8 | 20.4 |
| 3 2 | 11 42.79 | + 4 8.7 | 2.074 | 3.048 | 4.2 | 20.2 |
| 3 12 | 11 36.11 | + 5 23.3 | 2.060 | 3.053 | 0.9 | 19.9 |
| 3 22 | 11 29.30 | + 6 35.8 | 2.075 | 3.058 | 3.8 | 20.2 |
| 4 1 | 11 23.14 | + 7 40.3 | 2.119 | 3.063 | 7.4 | 20.4 |
| 4 11 | 11 18.30 | + 8 32.0 | 2.189 | 3.068 | 10.6 | 20.6 |
| 4 21 | 11 15.20 | + 9 8.4 | 2.280 | 3.073 | 13.4 | 20.8 |

**406416** 2007 $TA_{159}$ 3 13.6 207°.46 2°.3/15.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.89 | − 6 36.1 | 1.773 | 2.599 | 14.5 | 21.6 |
| 2 21 | 11 52.59 | − 6 4.4 | 1.690 | 2.595 | 10.9 | 21.4 |
| 3 2 | 11 45.19 | − 5 12.6 | 1.631 | 2.591 | 6.8 | 21.1 |
| 3 12 | 11 36.46 | − 4 4.5 | 1.598 | 2.586 | 2.9 | 20.9 |
| 3 22 | 11 27.42 | − 2 46.6 | 1.594 | 2.581 | 3.8 | 20.9 |
| 4 1 | 11 19.16 | − 1 27.1 | 1.617 | 2.575 | 8.0 | 21.2 |
| 4 11 | 11 12.64 | − 0 14.2 | 1.666 | 2.569 | 12.1 | 21.4 |
| 4 21 | 11 8.44 | + 0 46.0 | 1.738 | 2.562 | 15.6 | 21.6 |

**111938** 2002 $GB_{44}$ 3 13.6 276°.07 1°.5/15.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.34 | − 4 19.6 | 1.915 | 2.749 | 13.2 | 20.2 |
| 2 21 | 11 50.59 | − 3 49.2 | 1.836 | 2.748 | 9.8 | 20.0 |
| 3 2 | 11 44.00 | − 3 2.6 | 1.782 | 2.747 | 5.9 | 19.7 |
| 3 12 | 11 36.29 | − 2 3.8 | 1.755 | 2.746 | 2.1 | 19.5 |
| 3 22 | 11 28.36 | − 0 58.7 | 1.757 | 2.745 | 3.4 | 19.5 |
| 4 1 | 11 21.15 | + 0 5.7 | 1.786 | 2.744 | 7.4 | 19.8 |
| 4 11 | 11 15.49 | + 1 2.9 | 1.841 | 2.742 | 11.2 | 20.0 |
| 4 21 | 11 11.90 | + 1 48.1 | 1.919 | 2.741 | 14.5 | 20.2 |

**40615** 1999 $RD_{163}$ 3 13.6 164°.38 1°.8/15.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.12 | − 5 4.5 | 2.276 | 3.096 | 11.9 | 19.5 |
| 2 21 | 11 51.59 | − 4 47.4 | 2.197 | 3.100 | 8.9 | 19.3 |
| 3 2 | 11 44.45 | − 4 16.7 | 2.144 | 3.104 | 5.5 | 19.1 |
| 3 12 | 11 36.35 | − 3 35.3 | 2.118 | 3.107 | 2.3 | 18.8 |
| 3 22 | 11 28.08 | − 2 47.5 | 2.123 | 3.110 | 3.1 | 18.9 |
| 4 1 | 11 20.47 | − 1 58.6 | 2.156 | 3.112 | 6.5 | 19.1 |
| 4 11 | 11 14.22 | − 1 13.8 | 2.217 | 3.114 | 9.8 | 19.3 |
| 4 21 | 11 9.81 | − 0 37.1 | 2.301 | 3.115 | 12.6 | 19.5 |

**57509** Sly 3 13.6 198°.98 2°.7/10.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.24 | + 7 33.7 | 2.215 | 3.074 | 10.7 | 19.7 |
| 2 21 | 11 51.04 | + 8 54.9 | 2.141 | 3.071 | 7.5 | 19.5 |
| 3 2 | 11 44.18 | +10 22.8 | 2.094 | 3.067 | 4.2 | 19.3 |
| 3 12 | 11 36.32 | +11 50.3 | 2.076 | 3.062 | 2.8 | 19.2 |
| 3 22 | 11 28.25 | +13 10.1 | 2.089 | 3.057 | 5.3 | 19.4 |
| 4 1 | 11 20.83 | +14 16.2 | 2.131 | 3.052 | 8.7 | 19.6 |
| 4 11 | 11 14.79 | +15 4.6 | 2.197 | 3.045 | 11.8 | 19.7 |
| 4 21 | 11 10.61 | +15 34.0 | 2.285 | 3.039 | 14.5 | 19.9 |

**205874** 2002 $EW_{108}$ 3 13.6 318°.44 5°.8/ 8.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.26 | +13 10.5 | 1.398 | 2.280 | 14.3 | 20.0 |
| 2 21 | 11 53.23 | +14 32.4 | 1.338 | 2.276 | 10.3 | 19.8 |
| 3 2 | 11 45.66 | +15 56.9 | 1.302 | 2.272 | 6.8 | 19.6 |
| 3 12 | 11 36.54 | +17 12.6 | 1.291 | 2.268 | 6.1 | 19.5 |
| 3 22 | 11 27.16 | +18 9.3 | 1.305 | 2.264 | 9.1 | 19.7 |
| 4 1 | 11 18.89 | +18 40.2 | 1.344 | 2.260 | 13.1 | 19.9 |
| 4 11 | 11 12.85 | +18 43.2 | 1.404 | 2.257 | 17.0 | 20.1 |
| 4 21 | 11 9.61 | +18 20.2 | 1.481 | 2.254 | 20.2 | 20.3 |

**193983** 2001 $RE_{127}$ 3 13.6 159°.18 2°.3/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.09 | + 5 18.6 | 1.647 | 2.508 | 13.6 | 21.1 |
| 2 21 | 11 54.15 | + 6 21.7 | 1.583 | 2.514 | 9.6 | 20.8 |
| 3 2 | 11 46.01 | + 7 34.5 | 1.544 | 2.519 | 5.2 | 20.6 |
| 3 12 | 11 36.58 | + 8 48.6 | 1.533 | 2.523 | 2.3 | 20.4 |
| 3 22 | 11 26.97 | + 9 55.8 | 1.550 | 2.527 | 5.6 | 20.6 |
| 4 1 | 11 18.36 | +10 48.6 | 1.593 | 2.530 | 9.9 | 20.9 |
| 4 11 | 11 11.70 | +11 22.6 | 1.661 | 2.533 | 13.8 | 21.1 |
| 4 21 | 11 7.52 | +11 36.7 | 1.749 | 2.535 | 17.1 | 21.3 |

**135094** 2001 $QO_{69}$ 3 13.6 147°.06 2°.9/17.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.49 | − 9 2.7 | 2.614 | 3.411 | 11.2 | 20.0 |
| 2 21 | 11 50.98 | − 9 2.7 | 2.534 | 3.417 | 8.6 | 19.9 |
| 3 2 | 11 44.05 | − 8 48.9 | 2.479 | 3.424 | 5.8 | 19.7 |
| 3 12 | 11 36.30 | − 8 23.0 | 2.452 | 3.430 | 3.4 | 19.6 |
| 3 22 | 11 28.40 | − 7 47.9 | 2.455 | 3.436 | 3.4 | 19.6 |
| 4 1 | 11 21.07 | − 7 7.8 | 2.487 | 3.442 | 5.8 | 19.7 |
| 4 11 | 11 14.93 | − 6 27.5 | 2.548 | 3.447 | 8.5 | 19.9 |
| 4 21 | 11 10.42 | − 5 50.9 | 2.632 | 3.452 | 11.1 | 20.1 |

**226740** 2004 $RR_{4}$ 3 13.6 107°.24 4°.0/ 9.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.19 | +11 34.2 | 1.868 | 2.738 | 11.8 | 20.3 |
| 2 21 | 11 51.88 | +12 39.9 | 1.809 | 2.742 | 8.4 | 20.1 |
| 3 2 | 11 44.67 | +13 47.9 | 1.776 | 2.746 | 5.2 | 19.9 |
| 3 12 | 11 36.39 | +14 50.4 | 1.770 | 2.750 | 4.2 | 19.8 |
| 3 22 | 11 27.98 | +15 40.3 | 1.792 | 2.755 | 6.7 | 20.0 |
| 4 1 | 11 20.45 | +16 12.6 | 1.842 | 2.759 | 10.1 | 20.2 |
| 4 11 | 11 14.60 | +16 25.0 | 1.914 | 2.763 | 13.3 | 20.4 |
| 4 21 | 11 10.91 | +16 17.9 | 2.007 | 2.767 | 16.0 | 20.6 |

**129598** 1997 $VL_{3}$ 3 13.6 78°.88 2°.4/11.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.67 | + 5 31.7 | 1.415 | 2.281 | 15.1 | 19.2 |
| 2 21 | 11 55.24 | + 6 31.7 | 1.375 | 2.308 | 10.6 | 19.0 |
| 3 2 | 11 46.52 | + 7 40.0 | 1.359 | 2.334 | 5.7 | 18.8 |
| 3 12 | 11 36.64 | + 8 47.5 | 1.369 | 2.360 | 2.4 | 18.6 |
| 3 22 | 11 26.88 | + 9 45.4 | 1.407 | 2.386 | 5.9 | 18.9 |
| 4 1 | 11 18.49 | +10 27.0 | 1.471 | 2.411 | 10.3 | 19.2 |
| 4 11 | 11 12.35 | +10 48.9 | 1.558 | 2.436 | 14.3 | 19.5 |
| 4 21 | 11 8.90 | +10 51.2 | 1.665 | 2.460 | 17.5 | 19.8 |

**21563** Chetgervais 3 13.6 287°.01 3°.2/16.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.59 | − 9 6.1 | 1.957 | 2.773 | 13.7 | 18.9 |
| 2 21 | 11 50.18 | − 8 46.9 | 1.861 | 2.757 | 10.6 | 18.6 |
| 3 2 | 11 43.87 | − 8 7.7 | 1.788 | 2.741 | 7.1 | 18.4 |
| 3 12 | 11 36.31 | − 7 10.5 | 1.742 | 2.725 | 3.9 | 18.1 |
| 3 22 | 11 28.38 | − 6 0.4 | 1.723 | 2.709 | 3.9 | 18.1 |
| 4 1 | 11 21.05 | − 4 44.2 | 1.733 | 2.693 | 7.4 | 18.3 |
| 4 11 | 11 15.19 | − 3 29.9 | 1.768 | 2.677 | 11.1 | 18.5 |
| 4 21 | 11 11.41 | − 2 24.1 | 1.826 | 2.661 | 14.6 | 18.7 |

**124283** 2001 $QC_{40}$ 3 13.6 142°.42 1°.2/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 1.15 | + 2 59.1 | 1.761 | 2.612 | 13.4 | 21.3 |
| 2 21 | 11 54.74 | + 3 52.5 | 1.699 | 2.625 | 9.5 | 21.1 |
| 3 2 | 11 46.27 | + 4 56.5 | 1.663 | 2.637 | 5.1 | 20.8 |
| 3 12 | 11 36.63 | + 6 4.1 | 1.655 | 2.648 | 1.2 | 20.6 |
| 3 22 | 11 26.89 | + 7 7.9 | 1.676 | 2.658 | 4.6 | 20.8 |
| 4 1 | 11 18.15 | + 8 0.9 | 1.725 | 2.667 | 8.9 | 21.1 |
| 4 11 | 11 11.27 | + 8 38.6 | 1.799 | 2.676 | 12.7 | 21.4 |
| 4 21 | 11 6.76 | + 8 59.1 | 1.894 | 2.684 | 15.9 | 21.6 |

**221289** 2005 $UO_{386}$ 3 13.6 179°.00 5°.6/ 6.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.13 | +18 38.0 | 2.305 | 3.168 | 10.1 | 20.7 |
| 2 21 | 11 52.33 | +20 4.3 | 2.248 | 3.170 | 7.7 | 20.5 |
| 3 2 | 11 44.87 | +21 27.2 | 2.218 | 3.171 | 5.9 | 20.4 |
| 3 12 | 11 36.44 | +22 39.1 | 2.218 | 3.172 | 6.0 | 20.4 |
| 3 22 | 11 27.87 | +23 33.9 | 2.245 | 3.172 | 7.9 | 20.5 |
| 4 1 | 11 20.03 | +24 7.7 | 2.300 | 3.171 | 10.4 | 20.7 |
| 4 11 | 11 13.65 | +24 19.5 | 2.378 | 3.170 | 12.8 | 20.8 |
| 4 21 | 11 9.20 | +24 11.0 | 2.475 | 3.168 | 14.9 | 21.0 |

**134659** 1999 $VX_{88}$ 3 13.6 196°.40 2°.9/10.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.69 | + 9 7.7 | 1.974 | 2.833 | 11.8 | 20.3 |
| 2 21 | 11 54.37 | + 9 55.9 | 1.902 | 2.831 | 8.4 | 20.0 |
| 3 2 | 11 46.08 | +10 48.5 | 1.855 | 2.828 | 4.8 | 19.8 |
| 3 12 | 11 36.62 | +11 38.8 | 1.838 | 2.824 | 3.0 | 19.7 |
| 3 22 | 11 26.95 | +12 20.5 | 1.849 | 2.820 | 5.6 | 19.8 |
| 4 1 | 11 18.08 | +12 48.4 | 1.888 | 2.815 | 9.3 | 20.0 |
| 4 11 | 11 10.90 | +12 59.9 | 1.953 | 2.809 | 12.8 | 20.2 |
| 4 21 | 11 5.92 | +12 54.4 | 2.038 | 2.803 | 15.7 | 20.4 |

**163198** 2002 $EX_{27}$ 3 13.6 7°.59 1°.2/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.42 | + 2 16.0 | 1.286 | 2.158 | 15.9 | 19.7 |
| 2 21 | 11 52.00 | + 3 7.3 | 1.223 | 2.158 | 11.4 | 19.4 |
| 3 2 | 11 45.02 | + 4 14.2 | 1.182 | 2.159 | 6.2 | 19.1 |
| 3 12 | 11 36.48 | + 5 28.3 | 1.167 | 2.160 | 1.3 | 18.8 |
| 3 22 | 11 27.68 | + 6 39.4 | 1.177 | 2.162 | 5.5 | 19.1 |
| 4 1 | 11 20.01 | + 7 37.9 | 1.212 | 2.164 | 10.7 | 19.4 |
| 4 11 | 11 14.59 | + 8 17.1 | 1.268 | 2.166 | 15.4 | 19.6 |
| 4 21 | 11 12.00 | + 8 34.4 | 1.344 | 2.170 | 19.3 | 19.9 |

**505393** 2013 $PS_{49}$ 3 13.6 204°.97 0°.4/13.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.93 | + 0 59.1 | 2.268 | 3.109 | 11.1 | 22.9 |
| 2 21 | 11 51.52 | + 1 47.1 | 2.184 | 3.104 | 8.0 | 22.7 |
| 3 2 | 11 44.47 | + 2 45.8 | 2.127 | 3.099 | 4.4 | 22.5 |
| 3 12 | 11 36.40 | + 3 50.5 | 2.099 | 3.092 | 0.6 | 22.2 |
| 3 22 | 11 28.12 | + 4 55.2 | 2.101 | 3.085 | 3.5 | 22.4 |
| 4 1 | 11 20.44 | + 5 54.2 | 2.133 | 3.078 | 7.3 | 22.6 |
| 4 11 | 11 14.10 | + 6 42.6 | 2.191 | 3.070 | 10.7 | 22.8 |
| 4 21 | 11 9.61 | + 7 17.4 | 2.272 | 3.061 | 13.5 | 23.0 |

**191766** 2004 $TF_{50}$ 3 13.6 244°.29 3°.1/10.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.27 | +11 13.0 | 2.385 | 3.240 | 10.2 | 21.0 |
| 2 21 | 11 53.93 | +11 53.1 | 2.295 | 3.221 | 7.3 | 20.8 |
| 3 2 | 11 45.82 | +12 35.4 | 2.231 | 3.201 | 4.4 | 20.6 |
| 3 12 | 11 36.61 | +13 14.3 | 2.198 | 3.181 | 3.1 | 20.4 |
| 3 22 | 11 27.08 | +13 44.9 | 2.194 | 3.160 | 5.4 | 20.5 |
| 4 1 | 11 18.13 | +14 3.0 | 2.220 | 3.138 | 8.6 | 20.7 |
| 4 11 | 11 10.54 | +14 6.4 | 2.271 | 3.115 | 11.7 | 20.9 |
| 4 21 | 11 4.86 | +13 54.5 | 2.344 | 3.092 | 14.3 | 21.0 |

**509207** 2006 $SY_{47}$ 3 13.6 156°.89 1°.5/11.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.81 | + 6 35.5 | 2.580 | 3.431 | 9.6 | 21.7 |
| 2 21 | 11 51.19 | + 7 3.6 | 2.510 | 3.435 | 6.8 | 21.5 |
| 3 2 | 11 44.17 | + 7 35.9 | 2.466 | 3.439 | 3.7 | 21.3 |
| 3 12 | 11 36.36 | + 8 8.3 | 2.452 | 3.443 | 1.5 | 21.1 |
| 3 22 | 11 28.45 | + 8 36.8 | 2.468 | 3.446 | 3.8 | 21.3 |
| 4 1 | 11 21.14 | + 8 57.7 | 2.514 | 3.449 | 6.8 | 21.5 |
| 4 11 | 11 15.06 | + 9 8.6 | 2.586 | 3.452 | 9.7 | 21.7 |
| 4 21 | 11 10.61 | + 9 8.4 | 2.681 | 3.455 | 12.1 | 21.9 |

**504974** 2011 $GQ_{63}$ 3 13.6 301°.88 11°.9/29.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 4.44 | +34 49.5 | 1.809 | 2.648 | 13.6 | 20.5 |
| 2 21 | 11 57.64 | +36 11.7 | 1.747 | 2.623 | 12.3 | 20.3 |
| 3 2 | 11 48.13 | +37 15.6 | 1.707 | 2.597 | 11.9 | 20.3 |
| 3 12 | 11 36.94 | +37 50.1 | 1.691 | 2.572 | 12.7 | 20.2 |
| 3 22 | 11 25.44 | +37 48.5 | 1.698 | 2.547 | 14.4 | 20.3 |
| 4 1 | 11 15.08 | +37 9.1 | 1.726 | 2.522 | 16.7 | 20.4 |
| 4 11 | 11 7.04 | +35 55.2 | 1.773 | 2.497 | 18.9 | 20.5 |
| 4 21 | 11 1.98 | +34 13.3 | 1.834 | 2.473 | 21.0 | 20.6 |

**364648** 2007 $TQ_{152}$ 3 13.6 83°.27 3°.1/16.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.06 | − 7 57.5 | 1.535 | 2.362 | 16.3 | 20.7 |
| 2 21 | 11 53.44 | − 7 35.8 | 1.478 | 2.381 | 12.3 | 20.5 |
| 3 2 | 11 45.62 | − 6 51.9 | 1.443 | 2.400 | 7.9 | 20.3 |
| 3 12 | 11 36.57 | − 5 50.0 | 1.433 | 2.419 | 3.8 | 20.1 |
| 3 22 | 11 27.45 | − 4 37.4 | 1.451 | 2.438 | 4.2 | 20.1 |
| 4 1 | 11 19.44 | − 3 22.9 | 1.496 | 2.456 | 8.2 | 20.4 |
| 4 11 | 11 13.47 | − 2 15.3 | 1.565 | 2.474 | 12.3 | 20.7 |
| 4 21 | 11 10.02 | − 1 20.4 | 1.656 | 2.492 | 15.8 | 20.9 |

**24048** Pedroduque 3 13.6 110°.71 4°.4/18.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.65 | −13 34.8 | 1.758 | 2.554 | 15.8 | 18.4 |
| 2 21 | 11 51.61 | −12 57.7 | 1.687 | 2.568 | 12.4 | 18.2 |
| 3 2 | 11 44.60 | −11 54.3 | 1.640 | 2.580 | 8.7 | 18.0 |
| 3 12 | 11 36.43 | −10 28.0 | 1.617 | 2.593 | 5.3 | 17.8 |
| 3 22 | 11 28.13 | − 8 45.8 | 1.623 | 2.605 | 4.7 | 17.8 |
| 4 1 | 11 20.73 | − 6 57.2 | 1.657 | 2.617 | 7.6 | 18.0 |
| 4 11 | 11 15.10 | − 5 12.4 | 1.717 | 2.629 | 11.3 | 18.3 |
| 4 21 | 11 11.74 | − 3 39.3 | 1.801 | 2.640 | 14.6 | 18.5 |

**221083** 2005 $SH_{49}$ 3 13.6 99°.18 2°.8/16.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.65 | − 9 35.5 | 1.913 | 2.725 | 14.1 | 20.5 |
| 2 21 | 11 50.73 | − 8 48.6 | 1.846 | 2.740 | 10.7 | 20.3 |
| 3 2 | 11 44.04 | − 7 40.5 | 1.802 | 2.756 | 7.0 | 20.1 |
| 3 12 | 11 36.36 | − 6 15.8 | 1.786 | 2.771 | 3.5 | 19.9 |
| 3 22 | 11 28.58 | − 4 41.4 | 1.799 | 2.785 | 3.6 | 19.9 |
| 4 1 | 11 21.63 | − 3 5.7 | 1.840 | 2.800 | 7.1 | 20.2 |
| 4 11 | 11 16.27 | − 1 36.9 | 1.908 | 2.814 | 10.6 | 20.4 |
| 4 21 | 11 12.95 | − 0 20.9 | 1.999 | 2.827 | 13.8 | 20.7 |

**455414** 2003 $FL_{90}$ 3 13.6 345°.69 5°.8/19.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 52.96 | −14 39.0 | 1.525 | 2.331 | 17.3 | 20.3 |
| 2 21 | 11 49.39 | −14 30.9 | 1.443 | 2.326 | 14.0 | 20.0 |
| 3 2 | 11 43.57 | −13 53.1 | 1.383 | 2.320 | 10.3 | 19.8 |
| 3 12 | 11 36.32 | −12 46.9 | 1.345 | 2.316 | 6.9 | 19.6 |
| 3 22 | 11 28.70 | −11 17.8 | 1.333 | 2.312 | 6.0 | 19.5 |
| 4 1 | 11 21.93 | − 9 35.1 | 1.346 | 2.309 | 8.7 | 19.7 |
| 4 11 | 11 17.04 | − 7 50.8 | 1.384 | 2.306 | 12.6 | 19.9 |
| 4 21 | 11 14.66 | − 6 14.9 | 1.443 | 2.304 | 16.3 | 20.1 |

**90055** 2002 $VY_{36}$ 3 13.6 56°.19 11°.9/ 3.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 6.23 | +32 50.4 | 1.594 | 2.442 | 14.7 | 19.0 |
| 2 21 | 11 58.71 | +34 6.6 | 1.559 | 2.447 | 12.8 | 18.9 |
| 3 2 | 11 48.53 | +35 1.6 | 1.547 | 2.452 | 11.9 | 18.8 |
| 3 12 | 11 36.98 | +35 25.1 | 1.558 | 2.457 | 12.4 | 18.9 |
| 3 22 | 11 25.56 | +35 12.0 | 1.593 | 2.463 | 14.1 | 19.0 |
| 4 1 | 11 15.72 | +34 22.8 | 1.649 | 2.468 | 16.3 | 19.1 |
| 4 11 | 11 8.47 | +33 2.7 | 1.724 | 2.474 | 18.5 | 19.3 |
| 4 21 | 11 4.25 | +31 19.2 | 1.815 | 2.480 | 20.5 | 19.5 |

**71263** 2000 $AN_{25}$ 3 13.6 304°.71 5°.8/ 7.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.72 | +16 30.9 | 1.844 | 2.718 | 11.8 | 18.2 |
| 2 21 | 11 51.74 | +17 41.5 | 1.774 | 2.705 | 8.7 | 18.0 |
| 3 2 | 11 44.73 | +18 50.8 | 1.730 | 2.692 | 6.3 | 17.8 |
| 3 12 | 11 36.47 | +19 50.3 | 1.713 | 2.680 | 6.1 | 17.8 |
| 3 22 | 11 27.95 | +20 32.6 | 1.722 | 2.667 | 8.4 | 17.9 |
| 4 1 | 11 20.23 | +20 52.8 | 1.757 | 2.655 | 11.6 | 18.1 |
| 4 11 | 11 14.21 | +20 49.3 | 1.814 | 2.644 | 14.8 | 18.2 |
| 4 21 | 11 10.47 | +20 23.6 | 1.890 | 2.632 | 17.5 | 18.4 |

**380552** 2004 $PA$ 3 13.6 227°.27 0°.6/14.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.95 | − 3 2.3 | 2.529 | 3.354 | 10.7 | 22.6 |
| 2 21 | 11 50.76 | − 2 10.7 | 2.431 | 3.340 | 7.8 | 22.4 |
| 3 2 | 11 44.05 | − 1 5.7 | 2.360 | 3.326 | 4.5 | 22.2 |
| 3 12 | 11 36.38 | + 0 8.9 | 2.318 | 3.310 | 1.1 | 21.9 |
| 3 22 | 11 28.43 | + 1 27.5 | 2.307 | 3.294 | 2.9 | 22.0 |
| 4 1 | 11 20.96 | + 2 44.2 | 2.326 | 3.276 | 6.4 | 22.2 |
| 4 11 | 11 14.66 | + 3 53.5 | 2.374 | 3.259 | 9.7 | 22.4 |
| 4 21 | 11 10.01 | + 4 51.2 | 2.445 | 3.240 | 12.5 | 22.5 |

**332194** 2006 $DH_{50}$ 3 13.6 28°.43 3°.1/10.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.45 | + 8 50.7 | 1.884 | 2.751 | 11.9 | 20.4 |
| 2 21 | 11 51.39 | + 9 47.9 | 1.818 | 2.752 | 8.4 | 20.2 |
| 3 2 | 11 44.45 | +10 50.0 | 1.779 | 2.752 | 4.8 | 20.0 |
| 3 12 | 11 36.43 | +11 50.0 | 1.767 | 2.753 | 3.1 | 19.8 |
| 3 22 | 11 28.24 | +12 40.8 | 1.783 | 2.754 | 5.8 | 20.0 |
| 4 1 | 11 20.86 | +13 17.1 | 1.826 | 2.754 | 9.5 | 20.2 |
| 4 11 | 11 15.11 | +13 35.7 | 1.893 | 2.755 | 12.8 | 20.4 |
| 4 21 | 11 11.49 | +13 36.1 | 1.980 | 2.756 | 15.7 | 20.6 |

**381139** 2007 $EL_{151}$ 3 13.6 257°.35 1°.6/12.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.06 | + 4 51.3 | 1.954 | 2.812 | 12.0 | 21.7 |
| 2 21 | 11 51.88 | + 5 37.0 | 1.872 | 2.800 | 8.5 | 21.5 |
| 3 2 | 11 44.79 | + 6 31.7 | 1.814 | 2.789 | 4.6 | 21.2 |
| 3 12 | 11 36.49 | + 7 29.3 | 1.785 | 2.777 | 1.6 | 21.0 |
| 3 22 | 11 27.89 | + 8 23.4 | 1.784 | 2.764 | 4.7 | 21.2 |
| 4 1 | 11 19.97 | + 9 7.7 | 1.812 | 2.752 | 8.7 | 21.4 |
| 4 11 | 11 13.60 | + 9 37.8 | 1.864 | 2.739 | 12.4 | 21.6 |
| 4 21 | 11 9.35 | + 9 51.6 | 1.937 | 2.726 | 15.6 | 21.8 |

**148694** 2001 $SP_{253}$ 3 13.6 128°.67 0°.7/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.57 | + 1 51.0 | 2.044 | 2.891 | 11.9 | 20.7 |
| 2 21 | 11 51.99 | + 2 41.3 | 1.980 | 2.904 | 8.5 | 20.5 |
| 3 2 | 11 44.70 | + 3 41.7 | 1.943 | 2.916 | 4.6 | 20.3 |
| 3 12 | 11 36.46 | + 4 46.5 | 1.934 | 2.927 | 0.8 | 20.0 |
| 3 22 | 11 28.13 | + 5 49.3 | 1.955 | 2.938 | 3.8 | 20.3 |
| 4 1 | 11 20.60 | + 6 44.1 | 2.004 | 2.949 | 7.7 | 20.5 |
| 4 11 | 11 14.60 | + 7 26.4 | 2.079 | 2.959 | 11.1 | 20.7 |
| 4 21 | 11 10.58 | + 7 53.9 | 2.177 | 2.968 | 14.0 | 20.9 |

**148692** 2001 $SC_{252}$ 3 13.6 177°.46 1°.3/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.44 | + 4 7.1 | 1.850 | 2.706 | 12.6 | 20.6 |
| 2 21 | 11 52.85 | + 4 43.6 | 1.779 | 2.706 | 8.9 | 20.4 |
| 3 2 | 11 45.29 | + 5 29.0 | 1.733 | 2.707 | 4.8 | 20.2 |
| 3 12 | 11 36.57 | + 6 17.5 | 1.715 | 2.707 | 1.3 | 19.9 |
| 3 22 | 11 27.65 | + 7 2.7 | 1.725 | 2.707 | 4.5 | 20.1 |
| 4 1 | 11 19.56 | + 7 38.9 | 1.763 | 2.707 | 8.6 | 20.4 |
| 4 11 | 11 13.16 | + 8 1.9 | 1.826 | 2.707 | 12.3 | 20.6 |
| 4 21 | 11 8.98 | + 8 9.8 | 1.910 | 2.706 | 15.5 | 20.8 |

**29470** Higgs 3 13.6 291°.12 8°.2/ 6.0 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.87 | +22 26.6 | 1.684 | 2.554 | 12.9 | 16.9 |
| 2 21 | 11 54.96 | +23 39.9 | 1.618 | 2.539 | 10.2 | 16.7 |
| 3 2 | 11 46.61 | +24 45.6 | 1.577 | 2.524 | 8.4 | 16.6 |
| 3 12 | 11 36.77 | +25 33.5 | 1.561 | 2.509 | 8.6 | 16.6 |
| 3 22 | 11 26.62 | +25 56.0 | 1.570 | 2.494 | 10.9 | 16.6 |
| 4 1 | 11 17.48 | +25 49.2 | 1.604 | 2.479 | 13.9 | 16.8 |
| 4 11 | 11 10.40 | +25 13.8 | 1.659 | 2.464 | 17.0 | 17.0 |
| 4 21 | 11 6.00 | +24 13.6 | 1.730 | 2.449 | 19.6 | 17.1 |

**414265** 2008 $GC_{113}$ 3 13.6 330°.21 8°.6/ 4.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.60 | +19 57.4 | 1.447 | 2.331 | 13.7 | 19.7 |
| 2 21 | 11 51.39 | +21 52.5 | 1.391 | 2.322 | 10.6 | 19.5 |
| 3 2 | 11 44.70 | +23 43.1 | 1.360 | 2.314 | 8.7 | 19.4 |
| 3 12 | 11 36.50 | +25 16.2 | 1.354 | 2.305 | 9.3 | 19.4 |
| 3 22 | 11 28.01 | +26 21.0 | 1.372 | 2.298 | 11.9 | 19.5 |
| 4 1 | 11 20.58 | +26 51.8 | 1.413 | 2.290 | 15.2 | 19.7 |
| 4 11 | 11 15.28 | +26 48.2 | 1.472 | 2.284 | 18.4 | 19.9 |
| 4 21 | 11 12.70 | +26 14.0 | 1.547 | 2.278 | 21.2 | 20.1 |

**457398** 2008 $TJ_{90}$ 3 13.6 155°.19 0°.9/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.23 | + 2 17.2 | 1.824 | 2.672 | 13.1 | 22.6 |
| 2 21 | 11 54.80 | + 3 5.2 | 1.758 | 2.681 | 9.4 | 22.4 |
| 3 2 | 11 46.35 | + 4 4.2 | 1.717 | 2.689 | 5.1 | 22.1 |
| 3 12 | 11 36.72 | + 5 7.8 | 1.704 | 2.697 | 1.0 | 21.9 |
| 3 22 | 11 26.95 | + 6 9.0 | 1.721 | 2.704 | 4.3 | 22.1 |
| 4 1 | 11 18.11 | + 7 1.1 | 1.766 | 2.710 | 8.6 | 22.4 |
| 4 11 | 11 11.07 | + 7 39.3 | 1.836 | 2.715 | 12.4 | 22.6 |
| 4 21 | 11 6.35 | + 8 1.3 | 1.928 | 2.719 | 15.6 | 22.9 |

**4367** Meech 3 13.6 69°.64 1°.5/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.43 | + 6 11.0 | 1.868 | 2.723 | 12.5 | 17.1 |
| 2 21 | 11 54.70 | + 6 29.1 | 1.820 | 2.748 | 8.8 | 16.9 |
| 3 2 | 11 46.16 | + 6 52.4 | 1.798 | 2.772 | 4.8 | 16.7 |
| 3 12 | 11 36.68 | + 7 15.6 | 1.805 | 2.796 | 1.5 | 16.5 |
| 3 22 | 11 27.28 | + 7 34.0 | 1.840 | 2.821 | 4.4 | 16.8 |
| 4 1 | 11 18.92 | + 7 43.6 | 1.903 | 2.845 | 8.2 | 17.0 |
| 4 11 | 11 12.38 | + 7 42.0 | 1.992 | 2.869 | 11.6 | 17.3 |
| 4 21 | 11 8.05 | + 7 28.6 | 2.102 | 2.892 | 14.5 | 17.5 |

**236349** 2006 $BC_{156}$ 3 13.6 114°.68 1°.4/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.96 | + 3 48.2 | 1.986 | 2.842 | 11.8 | 20.6 |
| 2 21 | 11 50.93 | + 4 43.8 | 1.921 | 2.849 | 8.3 | 20.4 |
| 3 2 | 11 44.17 | + 5 48.4 | 1.881 | 2.856 | 4.5 | 20.1 |
| 3 12 | 11 36.42 | + 6 55.8 | 1.870 | 2.862 | 1.4 | 19.9 |
| 3 22 | 11 28.54 | + 7 59.2 | 1.888 | 2.868 | 4.4 | 20.2 |
| 4 1 | 11 21.42 | + 8 52.7 | 1.934 | 2.875 | 8.2 | 20.4 |
| 4 11 | 11 15.84 | + 9 31.7 | 2.005 | 2.881 | 11.6 | 20.6 |
| 4 21 | 11 12.24 | + 9 54.5 | 2.097 | 2.886 | 14.5 | 20.8 |

**402262** 2005 $QZ_{122}$ 3 13.6 268°.57 0°.4/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.04 | − 0 43.4 | 1.398 | 2.253 | 16.0 | 21.6 |
| 2 21 | 11 54.77 | − 0 15.7 | 1.312 | 2.237 | 11.7 | 21.3 |
| 3 2 | 11 46.74 | + 0 30.0 | 1.249 | 2.220 | 6.7 | 20.9 |
| 3 12 | 11 36.83 | + 1 28.6 | 1.211 | 2.204 | 1.2 | 20.5 |
| 3 22 | 11 26.32 | + 2 31.9 | 1.199 | 2.186 | 4.7 | 20.7 |
| 4 1 | 11 16.67 | + 3 30.8 | 1.213 | 2.169 | 10.3 | 21.0 |
| 4 11 | 11 9.21 | + 4 16.9 | 1.250 | 2.152 | 15.4 | 21.2 |
| 4 21 | 11 4.71 | + 4 45.3 | 1.307 | 2.134 | 19.7 | 21.4 |

**500381** 2012 $TM_{65}$ 3 13.6 144°.37 1°.2/14.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.00 | − 2 0.6 | 2.277 | 3.107 | 11.5 | 21.3 |
| 2 21 | 11 52.25 | − 1 58.0 | 2.199 | 3.110 | 8.5 | 21.1 |
| 3 2 | 11 44.87 | − 1 44.6 | 2.148 | 3.113 | 5.0 | 20.8 |
| 3 12 | 11 36.53 | − 1 23.5 | 2.124 | 3.115 | 1.6 | 20.6 |
| 3 22 | 11 28.02 | − 0 58.2 | 2.130 | 3.118 | 3.0 | 20.7 |
| 4 1 | 11 20.17 | − 0 33.0 | 2.166 | 3.120 | 6.5 | 20.9 |
| 4 11 | 11 13.70 | − 0 12.0 | 2.228 | 3.122 | 9.8 | 21.2 |
| 4 21 | 11 9.08 | + 0 1.7 | 2.314 | 3.125 | 12.7 | 21.3 |

**416859** 2005 $NJ_{18}$ 3 13.6 217°.23 2°.2/11.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.17 | + 5 37.9 | 1.884 | 2.744 | 12.2 | 21.5 |
| 2 21 | 11 51.97 | + 6 40.7 | 1.809 | 2.740 | 8.6 | 21.3 |
| 3 2 | 11 44.85 | + 7 52.5 | 1.760 | 2.735 | 4.7 | 21.0 |
| 3 12 | 11 36.53 | + 9 6.0 | 1.739 | 2.729 | 2.2 | 20.8 |
| 3 22 | 11 27.98 | +10 13.8 | 1.747 | 2.724 | 5.2 | 21.0 |
| 4 1 | 11 20.18 | +11 9.1 | 1.783 | 2.718 | 9.2 | 21.2 |
| 4 11 | 11 14.00 | +11 47.3 | 1.843 | 2.712 | 12.8 | 21.4 |
| 4 21 | 11 9.99 | +12 6.8 | 1.924 | 2.705 | 15.9 | 21.6 |

**152680** 1998 $KJ_9$ 3 13.6 146°.16 7°.6/ 8.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 22.26 | +15 5.8 | 1.391 | 2.236 | 16.6 | 22.8 |
| 2 21 | 12 10.26 | +17 29.2 | 1.349 | 2.266 | 12.2 | 22.6 |
| 3 2 | 11 54.98 | +19 49.7 | 1.334 | 2.291 | 8.4 | 22.4 |
| 3 12 | 11 37.95 | +21 50.1 | 1.350 | 2.313 | 7.9 | 22.4 |
| 3 22 | 11 21.09 | +23 17.4 | 1.396 | 2.332 | 10.9 | 22.6 |
| 4 1 | 11 6.25 | +24 6.3 | 1.470 | 2.347 | 14.8 | 22.9 |
| 4 11 | 10 54.72 | +24 19.2 | 1.567 | 2.359 | 18.4 | 23.2 |
| 4 21 | 10 46.97 | +24 2.8 | 1.681 | 2.367 | 21.2 | 23.4 |

**17489** Trenker 3 13.6 44°.56 3°.7/17.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.98 | −10 53.3 | 1.636 | 2.455 | 15.8 | 18.1 |
| 2 21 | 11 49.83 | −10 16.4 | 1.569 | 2.465 | 12.2 | 17.9 |
| 3 2 | 11 43.68 | − 9 14.4 | 1.524 | 2.475 | 8.2 | 17.7 |
| 3 12 | 11 36.37 | − 7 51.2 | 1.504 | 2.486 | 4.5 | 17.5 |
| 3 22 | 11 28.90 | − 6 14.6 | 1.512 | 2.498 | 4.3 | 17.5 |
| 4 1 | 11 22.34 | − 4 34.1 | 1.546 | 2.509 | 7.8 | 17.7 |
| 4 11 | 11 17.54 | − 2 59.8 | 1.606 | 2.521 | 11.7 | 17.9 |
| 4 21 | 11 15.02 | − 1 38.8 | 1.688 | 2.533 | 15.1 | 18.2 |

**160453** 2005 $VK_{118}$ 3 13.6 336°.74 18°.2/23.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 6.09 | −28 5.3 | 1.123 | 1.864 | 26.0 | 19.2 |
| 2 21 | 12 0.33 | −30 51.4 | 1.055 | 1.861 | 23.6 | 19.0 |
| 3 2 | 11 50.45 | −33 1.3 | 1.002 | 1.858 | 21.2 | 18.8 |
| 3 12 | 11 37.43 | −34 22.0 | 0.967 | 1.855 | 19.1 | 18.6 |
| 3 22 | 11 23.11 | −34 45.5 | 0.949 | 1.853 | 18.2 | 18.6 |
| 4 1 | 11 9.91 | −34 13.2 | 0.950 | 1.851 | 18.8 | 18.6 |
| 4 11 | 11 0.01 | −32 57.8 | 0.968 | 1.849 | 20.6 | 18.7 |
| 4 21 | 10 54.63 | −31 17.3 | 1.003 | 1.848 | 23.0 | 18.8 |

**90746** 1993 $NK_1$ 3 13.6 188°.91 3°.5/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.21 | + 8 41.2 | 1.787 | 2.652 | 12.5 | 20.1 |
| 2 21 | 11 53.50 | +10 1.0 | 1.720 | 2.652 | 8.9 | 19.9 |
| 3 2 | 11 45.71 | +11 27.3 | 1.678 | 2.651 | 5.1 | 19.7 |
| 3 12 | 11 36.66 | +12 51.6 | 1.664 | 2.649 | 3.6 | 19.6 |
| 3 22 | 11 27.39 | +14 5.0 | 1.679 | 2.647 | 6.5 | 19.7 |
| 4 1 | 11 18.98 | +15 0.7 | 1.722 | 2.644 | 10.4 | 20.0 |
| 4 11 | 11 12.36 | +15 35.1 | 1.788 | 2.640 | 13.9 | 20.2 |
| 4 21 | 11 8.07 | +15 47.5 | 1.873 | 2.636 | 16.9 | 20.4 |

**419377** 2009 $YR_2$ 3 13.6 121°.10 5°.5/19.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.70 | −16 55.2 | 2.287 | 3.046 | 13.7 | 21.2 |
| 2 21 | 11 52.07 | −17 4.1 | 2.212 | 3.060 | 11.2 | 21.0 |
| 3 2 | 11 44.78 | −16 51.9 | 2.159 | 3.073 | 8.5 | 20.9 |
| 3 12 | 11 36.52 | −16 19.6 | 2.133 | 3.086 | 6.2 | 20.8 |
| 3 22 | 11 28.12 | −15 29.9 | 2.134 | 3.099 | 5.6 | 20.8 |
| 4 1 | 11 20.42 | −14 28.3 | 2.164 | 3.111 | 7.0 | 20.9 |
| 4 11 | 11 14.16 | −13 21.4 | 2.221 | 3.123 | 9.5 | 21.0 |
| 4 21 | 11 9.80 | −12 15.8 | 2.302 | 3.134 | 12.0 | 21.2 |

**495221** 2013 $FV_{22}$ 3 13.6 50°.89 0°.5/14.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.92 | − 2 6.2 | 1.307 | 2.167 | 16.6 | 21.0 |
| 2 21 | 11 52.28 | − 1 18.0 | 1.249 | 2.176 | 12.0 | 20.8 |
| 3 2 | 11 45.16 | − 0 9.6 | 1.213 | 2.185 | 6.8 | 20.5 |
| 3 12 | 11 36.59 | + 1 11.4 | 1.202 | 2.195 | 1.3 | 20.2 |
| 3 22 | 11 27.86 | + 2 35.0 | 1.217 | 2.205 | 4.5 | 20.4 |
| 4 1 | 11 20.30 | + 3 50.6 | 1.257 | 2.215 | 9.8 | 20.8 |
| 4 11 | 11 14.96 | + 4 50.2 | 1.320 | 2.225 | 14.4 | 21.1 |
| 4 21 | 11 12.38 | + 5 29.5 | 1.403 | 2.236 | 18.2 | 21.3 |

**309402** 2007 $TG_{240}$ 3 13.6 101°.02 3°.1/11.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.49 | + 8 22.0 | 1.630 | 2.495 | 13.5 | 20.8 |
| 2 21 | 11 55.05 | + 9 14.6 | 1.580 | 2.512 | 9.5 | 20.6 |
| 3 2 | 11 46.48 | +10 12.0 | 1.556 | 2.529 | 5.4 | 20.4 |
| 3 12 | 11 36.76 | +11 6.2 | 1.558 | 2.546 | 3.1 | 20.3 |
| 3 22 | 11 27.05 | +11 49.9 | 1.589 | 2.563 | 6.0 | 20.5 |
| 4 1 | 11 18.48 | +12 17.8 | 1.647 | 2.579 | 10.0 | 20.8 |
| 4 11 | 11 11.94 | +12 27.5 | 1.728 | 2.594 | 13.7 | 21.0 |
| 4 21 | 11 7.89 | +12 19.0 | 1.829 | 2.609 | 16.7 | 21.3 |

**312123** 2007 $TS_{229}$ 3 13.6 21°.45 0°.8/14.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.33 | − 1 41.9 | 1.272 | 2.135 | 16.7 | 20.8 |
| 2 21 | 11 51.95 | − 1 10.8 | 1.211 | 2.139 | 12.2 | 20.5 |
| 3 2 | 11 45.03 | − 0 20.2 | 1.172 | 2.144 | 7.0 | 20.2 |
| 3 12 | 11 36.58 | + 0 43.2 | 1.157 | 2.150 | 1.5 | 19.9 |
| 3 22 | 11 27.91 | + 1 50.5 | 1.167 | 2.156 | 4.5 | 20.1 |
| 4 1 | 11 20.39 | + 2 51.9 | 1.203 | 2.163 | 9.8 | 20.4 |
| 4 11 | 11 15.12 | + 3 39.4 | 1.260 | 2.170 | 14.6 | 20.7 |
| 4 21 | 11 12.67 | + 4 8.7 | 1.337 | 2.178 | 18.5 | 21.0 |

**370949** 2005 $SH_{45}$ 3 13.6 176°.04 2°.8/16.9 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.04 | − 9 50.1 | 2.237 | 3.039 | 12.7 | 22.1 |
| 2 21 | 11 50.93 | − 9 12.4 | 2.153 | 3.041 | 9.7 | 21.9 |
| 3 2 | 11 44.18 | − 8 15.9 | 2.093 | 3.043 | 6.5 | 21.7 |
| 3 12 | 11 36.45 | − 7 3.6 | 2.062 | 3.044 | 3.4 | 21.5 |
| 3 22 | 11 28.53 | − 5 41.0 | 2.059 | 3.044 | 3.4 | 21.5 |
| 4 1 | 11 21.25 | − 4 14.9 | 2.087 | 3.045 | 6.5 | 21.7 |
| 4 11 | 11 15.34 | − 2 52.4 | 2.142 | 3.044 | 9.8 | 21.9 |
| 4 21 | 11 11.27 | − 1 39.2 | 2.221 | 3.043 | 12.8 | 22.1 |

**208200** 2000 $RA_{38}$ 3 13.6 100°.66 0°.1/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.12 | − 0 53.2 | 1.619 | 2.467 | 14.5 | 20.1 |
| 2 21 | 11 53.38 | + 0 7.6 | 1.565 | 2.487 | 10.4 | 19.9 |
| 3 2 | 11 45.58 | + 1 23.7 | 1.535 | 2.507 | 5.7 | 19.7 |
| 3 12 | 11 36.64 | + 2 47.6 | 1.533 | 2.526 | 0.8 | 19.4 |
| 3 22 | 11 27.68 | + 4 10.6 | 1.559 | 2.545 | 4.1 | 19.7 |
| 4 1 | 11 19.79 | + 5 24.4 | 1.613 | 2.563 | 8.7 | 20.0 |
| 4 11 | 11 13.83 | + 6 22.5 | 1.691 | 2.581 | 12.7 | 20.2 |
| 4 21 | 11 10.26 | + 7 2.2 | 1.791 | 2.598 | 16.0 | 20.5 |

**193593** 2001 $BR_{46}$ 3 13.6 317°.40 7°.9/20.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.41 | −18 58.5 | 1.778 | 2.546 | 16.7 | 19.4 |
| 2 21 | 11 51.09 | −19 33.6 | 1.684 | 2.532 | 14.1 | 19.2 |
| 3 2 | 11 44.56 | −19 42.5 | 1.610 | 2.518 | 11.3 | 18.9 |
| 3 12 | 11 36.54 | −19 23.5 | 1.559 | 2.505 | 8.8 | 18.8 |
| 3 22 | 11 28.02 | −18 37.8 | 1.533 | 2.492 | 8.0 | 18.7 |
| 4 1 | 11 20.15 | −17 30.8 | 1.533 | 2.479 | 9.4 | 18.7 |
| 4 11 | 11 14.00 | −16 11.5 | 1.556 | 2.467 | 12.2 | 18.9 |
| 4 21 | 11 10.25 | −14 49.3 | 1.602 | 2.456 | 15.4 | 19.0 |

**338241** 2002 $TL_{116}$ 3 13.6 124°.68 4°.2/18.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.61 | −13 50.5 | 2.458 | 3.234 | 12.4 | 21.2 |
| 2 21 | 11 50.48 | −13 43.5 | 2.380 | 3.245 | 9.9 | 21.1 |
| 3 2 | 11 43.87 | −13 18.3 | 2.326 | 3.256 | 7.2 | 20.9 |
| 3 12 | 11 36.41 | −12 36.4 | 2.300 | 3.266 | 4.8 | 20.8 |
| 3 22 | 11 28.82 | −11 41.4 | 2.302 | 3.276 | 4.3 | 20.8 |
| 4 1 | 11 21.85 | −10 38.4 | 2.333 | 3.286 | 6.2 | 20.9 |
| 4 11 | 11 16.15 | − 9 33.4 | 2.391 | 3.295 | 8.8 | 21.1 |
| 4 21 | 11 12.14 | − 8 31.8 | 2.474 | 3.305 | 11.4 | 21.3 |

**422752** 2001 $SD_{277}$ 3 13.6 125°.09 12°.6/ 1.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.40 | −41 14.8 | 2.361 | 2.917 | 17.9 | 20.5 |
| 2 21 | 11 55.17 | −42 11.7 | 2.285 | 2.932 | 16.6 | 20.4 |
| 3 2 | 11 46.70 | −42 37.2 | 2.225 | 2.947 | 15.2 | 20.3 |
| 3 12 | 11 36.83 | −42 27.1 | 2.182 | 2.961 | 13.9 | 20.2 |
| 3 22 | 11 26.67 | −41 40.6 | 2.158 | 2.975 | 13.0 | 20.2 |
| 4 1 | 11 17.39 | −40 20.8 | 2.157 | 2.988 | 12.6 | 20.2 |
| 4 11 | 11 9.99 | −38 35.3 | 2.178 | 3.000 | 12.9 | 20.2 |
| 4 21 | 11 5.08 | −36 33.7 | 2.222 | 3.012 | 13.8 | 20.3 |

**138490** 2000 $KK_{20}$ 3 13.6 335°.30 2°.2/15.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.36 | − 4 30.9 | 1.350 | 2.204 | 16.5 | 19.2 |
| 2 21 | 11 50.64 | − 4 17.6 | 1.271 | 2.192 | 12.4 | 18.9 |
| 3 2 | 11 44.42 | − 3 42.6 | 1.213 | 2.180 | 7.7 | 18.6 |
| 3 12 | 11 36.53 | − 2 49.9 | 1.178 | 2.169 | 2.9 | 18.2 |
| 3 22 | 11 28.19 | − 1 46.4 | 1.169 | 2.158 | 4.3 | 18.3 |
| 4 1 | 11 20.73 | − 0 41.5 | 1.185 | 2.149 | 9.5 | 18.6 |
| 4 11 | 11 15.36 | + 0 15.4 | 1.223 | 2.140 | 14.3 | 18.8 |
| 4 21 | 11 12.76 | + 0 57.6 | 1.281 | 2.133 | 18.5 | 19.0 |

**217771** 2000 $RJ_{30}$ 3 13.6 103°.67 3°.2/17.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.95 | −10 55.3 | 2.146 | 2.944 | 13.3 | 20.6 |
| 2 21 | 11 51.49 | −10 23.4 | 2.082 | 2.966 | 10.2 | 20.4 |
| 3 2 | 11 44.43 | − 9 32.2 | 2.042 | 2.988 | 6.9 | 20.2 |
| 3 12 | 11 36.50 | − 8 25.2 | 2.029 | 3.009 | 3.9 | 20.1 |
| 3 22 | 11 28.52 | − 7 7.9 | 2.046 | 3.029 | 3.7 | 20.1 |
| 4 1 | 11 21.33 | − 5 47.1 | 2.092 | 3.049 | 6.5 | 20.3 |
| 4 11 | 11 15.61 | − 4 29.8 | 2.165 | 3.069 | 9.6 | 20.5 |
| 4 21 | 11 11.80 | − 3 21.5 | 2.262 | 3.088 | 12.4 | 20.8 |

**436707** 2011 $TW_{15}$ 3 13.6 164°.39 2°.5/17.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.32 | − 9 55.6 | 2.884 | 3.678 | 10.3 | 21.9 |
| 2 21 | 11 48.69 | − 9 28.6 | 2.799 | 3.681 | 8.0 | 21.7 |
| 3 2 | 11 42.84 | − 8 47.4 | 2.740 | 3.685 | 5.4 | 21.6 |
| 3 12 | 11 36.28 | − 7 54.2 | 2.709 | 3.688 | 3.0 | 21.4 |
| 3 22 | 11 29.58 | − 6 52.8 | 2.708 | 3.691 | 2.9 | 21.4 |
| 4 1 | 11 23.37 | − 5 47.7 | 2.737 | 3.693 | 5.2 | 21.6 |
| 4 11 | 11 18.19 | − 4 43.9 | 2.795 | 3.696 | 7.8 | 21.7 |
| 4 21 | 11 14.40 | − 3 45.6 | 2.877 | 3.698 | 10.2 | 21.9 |

**418401** 2008 $JP_{32}$ 3 13.6 330°.29 4°.7/18.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.69 | −12 18.2 | 1.634 | 2.445 | 16.2 | 20.8 |
| 2 21 | 11 50.53 | −12 3.9 | 1.552 | 2.440 | 12.8 | 20.5 |
| 3 2 | 11 44.19 | −11 23.5 | 1.491 | 2.436 | 9.0 | 20.3 |
| 3 12 | 11 36.49 | −10 19.0 | 1.455 | 2.432 | 5.6 | 20.1 |
| 3 22 | 11 28.46 | − 8 56.2 | 1.445 | 2.428 | 5.1 | 20.1 |
| 4 1 | 11 21.23 | − 7 23.8 | 1.462 | 2.424 | 8.2 | 20.2 |
| 4 11 | 11 15.79 | − 5 52.1 | 1.504 | 2.421 | 12.2 | 20.4 |
| 4 21 | 11 12.76 | − 4 29.8 | 1.568 | 2.418 | 15.8 | 20.7 |

**273010** 2006 $DD_{82}$ 3 13.6 68°.76 0°.5/13.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.74 | + 0 47.8 | 1.808 | 2.661 | 13.0 | 20.5 |
| 2 21 | 11 50.87 | + 1 40.7 | 1.749 | 2.674 | 9.2 | 20.3 |
| 3 2 | 11 44.18 | + 2 45.9 | 1.715 | 2.688 | 5.0 | 20.0 |
| 3 12 | 11 36.48 | + 3 56.8 | 1.709 | 2.702 | 0.7 | 19.7 |
| 3 22 | 11 28.69 | + 5 6.3 | 1.731 | 2.716 | 4.0 | 20.0 |
| 4 1 | 11 21.78 | + 6 7.3 | 1.781 | 2.730 | 8.1 | 20.3 |
| 4 11 | 11 16.52 | + 6 54.6 | 1.856 | 2.744 | 11.8 | 20.6 |
| 4 21 | 11 13.36 | + 7 25.6 | 1.952 | 2.758 | 14.9 | 20.8 |

**89051** 2001 $TF_{118}$ 3 13.6 292°.63 10°.9/23.8 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.59 | −26 29.1 | 1.778 | 2.496 | 18.5 | 19.2 |
| 2 21 | 11 52.14 | −27 19.1 | 1.679 | 2.479 | 16.4 | 19.0 |
| 3 2 | 11 45.26 | −27 38.4 | 1.598 | 2.462 | 14.1 | 18.8 |
| 3 12 | 11 36.68 | −27 22.8 | 1.537 | 2.445 | 12.0 | 18.6 |
| 3 22 | 11 27.45 | −26 31.4 | 1.500 | 2.428 | 10.9 | 18.5 |
| 4 1 | 11 18.87 | −25 8.3 | 1.486 | 2.411 | 11.5 | 18.5 |
| 4 11 | 11 12.12 | −23 23.2 | 1.496 | 2.394 | 13.5 | 18.5 |
| 4 21 | 11 8.00 | −21 27.7 | 1.527 | 2.377 | 16.2 | 18.7 |

**185684** 1996 $RX_5$ 3 13.6 201°.12 0°.2/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.12 | − 1 19.9 | 2.214 | 3.051 | 11.5 | 20.7 |
| 2 21 | 11 51.02 | − 0 28.1 | 2.131 | 3.048 | 8.4 | 20.4 |
| 3 2 | 11 44.27 | + 0 36.8 | 2.074 | 3.044 | 4.7 | 20.2 |
| 3 12 | 11 36.51 | + 1 50.0 | 2.046 | 3.039 | 0.8 | 19.9 |
| 3 22 | 11 28.53 | + 3 5.2 | 2.048 | 3.034 | 3.3 | 20.1 |
| 4 1 | 11 21.17 | + 4 16.1 | 2.079 | 3.028 | 7.1 | 20.3 |
| 4 11 | 11 15.16 | + 5 16.9 | 2.137 | 3.022 | 10.6 | 20.5 |
| 4 21 | 11 11.00 | + 6 4.1 | 2.218 | 3.016 | 13.6 | 20.7 |

**213936** 2003 $VL_7$ 3 13.6 357°.75 4°.5/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.07 | +11 24.5 | 1.465 | 2.341 | 14.1 | 20.7 |
| 2 21 | 11 54.45 | +12 16.8 | 1.404 | 2.340 | 10.1 | 20.4 |
| 3 2 | 11 46.37 | +13 12.0 | 1.367 | 2.340 | 6.1 | 20.2 |
| 3 12 | 11 36.82 | +14 1.0 | 1.356 | 2.339 | 4.6 | 20.1 |
| 3 22 | 11 27.08 | +14 35.7 | 1.371 | 2.339 | 7.5 | 20.3 |
| 4 1 | 11 18.45 | +14 50.4 | 1.412 | 2.339 | 11.7 | 20.5 |
| 4 11 | 11 11.99 | +14 43.1 | 1.474 | 2.340 | 15.6 | 20.7 |
| 4 21 | 11 8.27 | +14 15.0 | 1.555 | 2.340 | 18.9 | 21.0 |

**469783** 2005 $QW_{162}$ 3 13.6 215°.24 0°.2/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.70 | + 1 9.9 | 2.797 | 3.629 | 9.5 | 21.7 |
| 2 21 | 11 51.85 | + 1 17.5 | 2.708 | 3.622 | 6.9 | 21.5 |
| 3 2 | 11 44.62 | + 1 31.9 | 2.647 | 3.616 | 3.9 | 21.3 |
| 3 12 | 11 36.57 | + 1 50.6 | 2.616 | 3.609 | 0.7 | 21.0 |
| 3 22 | 11 28.32 | + 2 10.3 | 2.616 | 3.602 | 2.7 | 21.2 |
| 4 1 | 11 20.57 | + 2 27.9 | 2.646 | 3.594 | 5.9 | 21.4 |
| 4 11 | 11 13.93 | + 2 40.4 | 2.704 | 3.586 | 8.8 | 21.5 |
| 4 21 | 11 8.83 | + 2 45.6 | 2.786 | 3.578 | 11.2 | 21.7 |

**381643** 2008 $YR_{134}$ 3 13.6 159°.70 5°.6/ 7.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.05 | +18 1.0 | 2.139 | 3.007 | 10.6 | 21.1 |
| 2 21 | 11 51.70 | +19 13.1 | 2.083 | 3.008 | 8.0 | 20.9 |
| 3 2 | 11 44.62 | +20 21.8 | 2.053 | 3.010 | 5.9 | 20.8 |
| 3 12 | 11 36.56 | +21 19.7 | 2.051 | 3.011 | 5.9 | 20.8 |
| 3 22 | 11 28.39 | +22 0.8 | 2.076 | 3.012 | 7.9 | 20.9 |
| 4 1 | 11 20.99 | +22 21.4 | 2.128 | 3.013 | 10.5 | 21.1 |
| 4 11 | 11 15.12 | +22 20.8 | 2.203 | 3.014 | 13.1 | 21.3 |
| 4 21 | 11 11.24 | +22 0.5 | 2.298 | 3.015 | 15.4 | 21.4 |

**54233** 2000 $JZ_{15}$ 3 13.7 233°.52 1°.3/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.87 | − 4 41.3 | 2.355 | 3.180 | 11.3 | 19.7 |
| 2 21 | 11 49.36 | − 3 58.9 | 2.267 | 3.174 | 8.4 | 19.5 |
| 3 2 | 11 43.34 | − 3 2.0 | 2.204 | 3.167 | 5.1 | 19.2 |
| 3 12 | 11 36.38 | − 1 54.3 | 2.170 | 3.160 | 1.7 | 19.0 |
| 3 22 | 11 29.22 | − 0 41.1 | 2.166 | 3.153 | 2.9 | 19.1 |
| 4 1 | 11 22.59 | + 0 31.5 | 2.191 | 3.146 | 6.4 | 19.3 |
| 4 11 | 11 17.20 | + 1 37.8 | 2.243 | 3.139 | 9.7 | 19.5 |
| 4 21 | 11 13.49 | + 2 33.2 | 2.319 | 3.131 | 12.6 | 19.7 |

**174048** 2002 $BP_{17}$ 3 13.7 27°.35 2°.0/15.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.95 | − 5 0.1 | 2.139 | 2.966 | 12.3 | 20.2 |
| 2 21 | 11 50.19 | − 4 50.5 | 2.064 | 2.970 | 9.2 | 20.1 |
| 3 2 | 11 43.80 | − 4 26.9 | 2.014 | 2.975 | 5.7 | 19.8 |
| 3 12 | 11 36.46 | − 3 52.2 | 1.991 | 2.979 | 2.5 | 19.6 |
| 3 22 | 11 28.94 | − 3 10.8 | 1.997 | 2.984 | 3.2 | 19.7 |
| 4 1 | 11 22.10 | − 2 27.8 | 2.031 | 2.989 | 6.6 | 19.9 |
| 4 11 | 11 16.65 | − 1 48.5 | 2.091 | 2.994 | 9.9 | 20.1 |
| 4 21 | 11 13.05 | − 1 16.9 | 2.174 | 3.000 | 12.9 | 20.3 |

**216340** 2007 $WO_{35}$ 3 13.7 90°.54 2°.7/11.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.66 | + 7 26.1 | 1.545 | 2.412 | 14.0 | 20.8 |
| 2 21 | 11 54.69 | + 8 7.8 | 1.486 | 2.419 | 9.9 | 20.5 |
| 3 2 | 11 46.43 | + 8 55.9 | 1.451 | 2.426 | 5.5 | 20.3 |
| 3 12 | 11 36.84 | + 9 42.9 | 1.443 | 2.433 | 2.7 | 20.1 |
| 3 22 | 11 27.13 | +10 21.3 | 1.462 | 2.440 | 5.9 | 20.3 |
| 4 1 | 11 18.52 | +10 45.2 | 1.508 | 2.447 | 10.2 | 20.6 |
| 4 11 | 11 11.98 | +10 51.6 | 1.577 | 2.453 | 14.2 | 20.8 |
| 4 21 | 11 8.04 | +10 40.2 | 1.665 | 2.460 | 17.5 | 21.1 |

**442603** 2012 $FC_{29}$ 3 13.7 40°.81 0°.7/12.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.71 | + 3 7.1 | 2.784 | 3.633 | 9.1 | 21.0 |
| 2 21 | 11 47.55 | + 3 46.0 | 2.717 | 3.641 | 6.4 | 20.9 |
| 3 2 | 11 42.22 | + 4 31.4 | 2.676 | 3.649 | 3.4 | 20.7 |
| 3 12 | 11 36.23 | + 5 19.3 | 2.665 | 3.658 | 0.7 | 20.5 |
| 3 22 | 11 30.16 | + 6 5.5 | 2.684 | 3.666 | 3.0 | 20.7 |
| 4 1 | 11 24.60 | + 6 46.2 | 2.732 | 3.675 | 5.9 | 20.9 |
| 4 11 | 11 20.07 | + 7 18.2 | 2.806 | 3.684 | 8.6 | 21.1 |
| 4 21 | 11 16.91 | + 7 39.6 | 2.904 | 3.693 | 10.9 | 21.2 |

**212322** 2005 $QM_{146}$ 3 13.7 259°.27 0°.1/13.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.01 | + 2 29.8 | 2.517 | 3.355 | 10.3 | 20.5 |
| 2 21 | 11 52.98 | + 2 34.2 | 2.422 | 3.339 | 7.4 | 20.3 |
| 3 2 | 11 45.35 | + 2 45.2 | 2.353 | 3.324 | 4.1 | 20.0 |
| 3 12 | 11 36.70 | + 2 59.9 | 2.314 | 3.308 | 0.6 | 19.7 |
| 3 22 | 11 27.77 | + 3 15.0 | 2.306 | 3.291 | 3.1 | 19.9 |
| 4 1 | 11 19.36 | + 3 26.8 | 2.327 | 3.275 | 6.6 | 20.1 |
| 4 11 | 11 12.18 | + 3 32.4 | 2.376 | 3.258 | 9.8 | 20.3 |
| 4 21 | 11 6.73 | + 3 29.8 | 2.449 | 3.241 | 12.6 | 20.4 |

**397833** 2008 $SC_{176}$ 3 13.7 188°.94 1°.7/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.32 | − 4 48.5 | 1.818 | 2.645 | 14.1 | 22.0 |
| 2 21 | 11 54.34 | − 4 16.3 | 1.737 | 2.645 | 10.5 | 21.8 |
| 3 2 | 11 46.24 | − 3 26.2 | 1.680 | 2.643 | 6.4 | 21.5 |
| 3 12 | 11 36.83 | − 2 22.4 | 1.651 | 2.641 | 2.3 | 21.3 |
| 3 22 | 11 27.13 | − 1 11.4 | 1.651 | 2.639 | 3.6 | 21.3 |
| 4 1 | 11 18.24 | − 0 0.8 | 1.679 | 2.635 | 8.0 | 21.6 |
| 4 11 | 11 11.10 | + 1 2.0 | 1.734 | 2.630 | 12.0 | 21.8 |
| 4 21 | 11 6.30 | + 1 51.9 | 1.810 | 2.625 | 15.5 | 22.0 |

**353511** 2011 $SA_{111}$ 3 13.7 220°.70 3°.1/17.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.02 | − 9 37.4 | 2.639 | 3.434 | 11.2 | 21.7 |
| 2 21 | 11 50.79 | − 9 39.1 | 2.546 | 3.428 | 8.7 | 21.5 |
| 3 2 | 11 44.11 | − 9 26.6 | 2.478 | 3.421 | 6.0 | 21.3 |
| 3 12 | 11 36.52 | − 9 1.4 | 2.438 | 3.415 | 3.6 | 21.1 |
| 3 22 | 11 28.70 | − 8 26.2 | 2.427 | 3.408 | 3.5 | 21.1 |
| 4 1 | 11 21.37 | − 7 45.1 | 2.446 | 3.400 | 5.9 | 21.3 |
| 4 11 | 11 15.18 | − 7 2.8 | 2.492 | 3.393 | 8.7 | 21.4 |
| 4 21 | 11 10.59 | − 6 23.6 | 2.563 | 3.385 | 11.3 | 21.6 |

**370766** 2004 $RJ_{285}$ 3 13.7 120°.32 0°.7/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.74 | + 2 52.0 | 2.278 | 3.122 | 11.0 | 21.8 |
| 2 21 | 11 52.68 | + 3 26.6 | 2.218 | 3.139 | 7.8 | 21.7 |
| 3 2 | 11 45.08 | + 4 8.9 | 2.184 | 3.156 | 4.2 | 21.5 |
| 3 12 | 11 36.65 | + 4 54.0 | 2.180 | 3.173 | 0.8 | 21.2 |
| 3 22 | 11 28.17 | + 5 37.1 | 2.206 | 3.189 | 3.5 | 21.5 |
| 4 1 | 11 20.46 | + 6 13.6 | 2.261 | 3.204 | 7.0 | 21.7 |
| 4 11 | 11 14.17 | + 6 40.0 | 2.342 | 3.219 | 10.1 | 21.9 |
| 4 21 | 11 9.72 | + 6 54.5 | 2.447 | 3.233 | 12.8 | 22.1 |

**277401** 2005 $UV_{180}$ 3 13.7 171°.77 0°.7/12.8 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.62 | + 2 31.3 | 2.395 | 3.238 | 10.6 | 22.4 |
| 2 21 | 11 51.93 | + 3 16.7 | 2.321 | 3.242 | 7.5 | 22.2 |
| 3 2 | 11 44.71 | + 4 10.6 | 2.273 | 3.245 | 4.1 | 22.0 |
| 3 12 | 11 36.60 | + 5 8.2 | 2.255 | 3.248 | 0.8 | 21.8 |
| 3 22 | 11 28.35 | + 6 4.2 | 2.267 | 3.250 | 3.5 | 22.0 |
| 4 1 | 11 20.73 | + 6 53.5 | 2.309 | 3.251 | 7.0 | 22.2 |
| 4 11 | 11 14.41 | + 7 32.2 | 2.378 | 3.252 | 10.1 | 22.4 |
| 4 21 | 11 9.85 | + 7 58.1 | 2.470 | 3.252 | 12.8 | 22.6 |

**326367** 2000 $WU_{30}$ 3 13.7 178°.94 5°.4/ 6.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.47 | +18 54.1 | 2.415 | 3.276 | 9.8 | 20.8 |
| 2 21 | 11 52.57 | +20 8.8 | 2.357 | 3.278 | 7.4 | 20.7 |
| 3 2 | 11 45.07 | +21 19.7 | 2.326 | 3.279 | 5.7 | 20.6 |
| 3 12 | 11 36.66 | +22 20.1 | 2.324 | 3.279 | 5.7 | 20.6 |
| 3 22 | 11 28.12 | +23 4.3 | 2.351 | 3.279 | 7.5 | 20.7 |
| 4 1 | 11 20.29 | +23 29.2 | 2.405 | 3.279 | 9.9 | 20.8 |
| 4 11 | 11 13.86 | +23 33.8 | 2.483 | 3.277 | 12.3 | 21.0 |
| 4 21 | 11 9.29 | +23 19.6 | 2.580 | 3.276 | 14.3 | 21.1 |

**403891** 2011 $WM_{131}$ 3 13.7 167°.31 5°.0/ 9.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.75 | +13 17.1 | 1.691 | 2.561 | 12.9 | 21.6 |
| 2 21 | 11 54.68 | +14 29.6 | 1.632 | 2.564 | 9.3 | 21.4 |
| 3 2 | 11 46.41 | +15 43.1 | 1.599 | 2.567 | 6.0 | 21.2 |
| 3 12 | 11 36.86 | +16 48.5 | 1.592 | 2.569 | 5.2 | 21.2 |
| 3 22 | 11 27.15 | +17 37.6 | 1.614 | 2.571 | 7.8 | 21.3 |
| 4 1 | 11 18.45 | +18 5.3 | 1.661 | 2.572 | 11.4 | 21.6 |
| 4 11 | 11 11.71 | +18 9.7 | 1.731 | 2.573 | 14.8 | 21.8 |
| 4 21 | 11 7.46 | +17 52.5 | 1.820 | 2.573 | 17.7 | 22.0 |

**351952** 2006 $TU_{85}$ 3 13.7 143°.15 2°.1/16.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.68 | − 6 57.9 | 2.706 | 3.514 | 10.5 | 21.6 |
| 2 21 | 11 49.72 | − 6 40.1 | 2.627 | 3.521 | 8.0 | 21.4 |
| 3 2 | 11 43.45 | − 6 9.5 | 2.574 | 3.528 | 5.1 | 21.2 |
| 3 12 | 11 36.43 | − 5 28.6 | 2.549 | 3.534 | 2.5 | 21.0 |
| 3 22 | 11 29.29 | − 4 41.1 | 2.555 | 3.540 | 2.8 | 21.1 |
| 4 1 | 11 22.68 | − 3 51.4 | 2.590 | 3.546 | 5.5 | 21.3 |
| 4 11 | 11 17.17 | − 3 4.0 | 2.653 | 3.552 | 8.3 | 21.4 |
| 4 21 | 11 13.18 | − 2 22.6 | 2.740 | 3.557 | 10.8 | 21.6 |

**474033** 2016 $GQ_{181}$ 3 13.7 210°.45 4°.4/ 8.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.08 | +15 8.8 | 2.431 | 3.294 | 9.7 | 21.5 |
| 2 21 | 11 51.62 | +16 19.7 | 2.361 | 3.287 | 7.1 | 21.3 |
| 3 2 | 11 44.58 | +17 30.4 | 2.318 | 3.281 | 4.9 | 21.1 |
| 3 12 | 11 36.60 | +18 34.3 | 2.305 | 3.273 | 4.6 | 21.1 |
| 3 22 | 11 28.44 | +19 25.5 | 2.320 | 3.266 | 6.6 | 21.2 |
| 4 1 | 11 20.88 | +20 0.0 | 2.364 | 3.257 | 9.3 | 21.3 |
| 4 11 | 11 14.65 | +20 15.9 | 2.432 | 3.248 | 11.9 | 21.5 |
| 4 21 | 11 10.19 | +20 13.6 | 2.520 | 3.239 | 14.1 | 21.7 |

**279423** 2010 $HS_{111}$ 3 13.7 237°.59 3°.6/18.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.19 | −11 45.9 | 2.506 | 3.295 | 11.8 | 20.7 |
| 2 21 | 11 49.55 | −11 40.0 | 2.417 | 3.292 | 9.3 | 20.5 |
| 3 2 | 11 43.44 | −11 17.4 | 2.351 | 3.289 | 6.6 | 20.3 |
| 3 12 | 11 36.44 | −10 39.7 | 2.313 | 3.286 | 4.2 | 20.2 |
| 3 22 | 11 29.23 | − 9 50.1 | 2.304 | 3.283 | 3.9 | 20.2 |
| 4 1 | 11 22.54 | − 8 53.4 | 2.323 | 3.279 | 6.0 | 20.3 |
| 4 11 | 11 17.03 | − 7 55.2 | 2.370 | 3.276 | 8.8 | 20.4 |
| 4 21 | 11 13.16 | − 7 0.6 | 2.441 | 3.272 | 11.5 | 20.6 |

**383726** 2007 $UD_{94}$ 3 13.7 179°.49 2°.5/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.58 | + 9 32.0 | 2.329 | 3.187 | 10.3 | 21.4 |
| 2 21 | 11 51.94 | +10 8.0 | 2.259 | 3.188 | 7.3 | 21.2 |
| 3 2 | 11 44.74 | +10 46.7 | 2.216 | 3.188 | 4.2 | 21.0 |
| 3 12 | 11 36.63 | +11 23.1 | 2.202 | 3.188 | 2.6 | 20.9 |
| 3 22 | 11 28.38 | +11 52.3 | 2.217 | 3.188 | 4.8 | 21.1 |
| 4 1 | 11 20.81 | +12 10.6 | 2.261 | 3.188 | 8.0 | 21.3 |
| 4 11 | 11 14.60 | +12 15.8 | 2.330 | 3.187 | 10.9 | 21.4 |
| 4 21 | 11 10.20 | +12 7.3 | 2.421 | 3.187 | 13.5 | 21.6 |

**322993** 2002 $OB_{18}$ 3 13.7 287°.07 18°.2/23.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 5.37 | −29 9.4 | 1.174 | 1.904 | 25.6 | 20.2 |
| 2 21 | 11 59.85 | −31 44.6 | 1.099 | 1.896 | 23.4 | 20.0 |
| 3 2 | 11 50.28 | −33 44.4 | 1.039 | 1.888 | 21.1 | 19.8 |
| 3 12 | 11 37.55 | −34 56.1 | 0.996 | 1.880 | 19.1 | 19.6 |
| 3 22 | 11 23.40 | −35 11.4 | 0.971 | 1.872 | 18.2 | 19.5 |
| 4 1 | 11 10.18 | −34 30.9 | 0.965 | 1.864 | 18.7 | 19.5 |
| 4 11 | 11 0.11 | −33 6.4 | 0.976 | 1.856 | 20.5 | 19.6 |
| 4 21 | 10 54.47 | −31 15.8 | 1.003 | 1.849 | 23.0 | 19.7 |

**242401** 2004 $FV_{104}$ 3 13.7 290°.17 4°.1/ 9.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.27 | +13 59.3 | 2.163 | 3.029 | 10.6 | 20.6 |
| 2 21 | 11 51.89 | +14 45.8 | 2.091 | 3.021 | 7.7 | 20.4 |
| 3 2 | 11 44.79 | +15 32.2 | 2.046 | 3.013 | 5.0 | 20.2 |
| 3 12 | 11 36.65 | +16 12.2 | 2.028 | 3.005 | 4.3 | 20.1 |
| 3 22 | 11 28.32 | +16 40.4 | 2.039 | 2.997 | 6.4 | 20.2 |
| 4 1 | 11 20.69 | +16 52.9 | 2.077 | 2.989 | 9.4 | 20.4 |
| 4 11 | 11 14.53 | +16 48.1 | 2.140 | 2.981 | 12.4 | 20.6 |
| 4 21 | 11 10.33 | +16 26.4 | 2.223 | 2.973 | 14.9 | 20.7 |

**236729** 2007 $HZ_{18}$ 3 13.7 302°.17 4°.1/10.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.82 | + 8 1.3 | 1.251 | 2.132 | 15.6 | 20.6 |
| 2 21 | 11 53.40 | + 9 10.5 | 1.175 | 2.115 | 11.2 | 20.3 |
| 3 2 | 11 46.11 | +10 31.1 | 1.122 | 2.098 | 6.4 | 20.0 |
| 3 12 | 11 36.89 | +11 52.4 | 1.094 | 2.082 | 4.2 | 19.8 |
| 3 22 | 11 27.11 | +13 2.3 | 1.091 | 2.065 | 8.0 | 19.9 |
| 4 1 | 11 18.33 | +13 51.0 | 1.111 | 2.049 | 13.1 | 20.2 |
| 4 11 | 11 11.92 | +14 12.8 | 1.152 | 2.034 | 17.9 | 20.4 |
| 4 21 | 11 8.62 | +14 7.1 | 1.210 | 2.018 | 22.0 | 20.6 |

**255653** 2006 $QY_{24}$ 3 13.7 222°.43 1°.8/15.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.57 | − 5 5.8 | 2.033 | 2.856 | 13.0 | 21.0 |
| 2 21 | 11 53.00 | − 4 38.6 | 1.942 | 2.847 | 9.7 | 20.7 |
| 3 2 | 11 45.50 | − 3 54.9 | 1.875 | 2.836 | 6.0 | 20.5 |
| 3 12 | 11 36.78 | − 2 58.1 | 1.836 | 2.825 | 2.3 | 20.2 |
| 3 22 | 11 27.71 | − 1 53.7 | 1.826 | 2.813 | 3.4 | 20.3 |
| 4 1 | 11 19.27 | − 0 48.1 | 1.845 | 2.801 | 7.4 | 20.5 |
| 4 11 | 11 12.35 | + 0 11.7 | 1.891 | 2.788 | 11.2 | 20.7 |
| 4 21 | 11 7.51 | + 1 0.9 | 1.959 | 2.774 | 14.5 | 20.9 |

**455584** 2004 $RJ_{310}$ 3 13.7 182°.62 0°.4/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.86 | − 0 50.8 | 1.924 | 2.761 | 13.0 | 22.4 |
| 2 21 | 11 54.61 | − 0 17.8 | 1.846 | 2.762 | 9.5 | 22.2 |
| 3 2 | 11 46.36 | + 0 28.5 | 1.794 | 2.763 | 5.4 | 21.9 |
| 3 12 | 11 36.89 | + 1 23.2 | 1.770 | 2.762 | 1.0 | 21.6 |
| 3 22 | 11 27.19 | + 2 20.3 | 1.775 | 2.761 | 3.6 | 21.8 |
| 4 1 | 11 18.28 | + 3 13.2 | 1.809 | 2.759 | 7.9 | 22.1 |
| 4 11 | 11 11.05 | + 3 56.4 | 1.869 | 2.757 | 11.8 | 22.3 |
| 4 21 | 11 6.06 | + 4 26.3 | 1.951 | 2.753 | 15.0 | 22.5 |

**23138** 2000 $AV_{150}$ 3 13.7 206°.89 0°.6/12.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.34 | + 0 46.9 | 2.200 | 3.047 | 11.2 | 18.5 |
| 2 21 | 11 49.77 | + 1 49.5 | 2.121 | 3.044 | 8.0 | 18.3 |
| 3 2 | 11 43.61 | + 3 3.7 | 2.069 | 3.042 | 4.4 | 18.1 |
| 3 12 | 11 36.49 | + 4 24.1 | 2.046 | 3.039 | 0.7 | 17.8 |
| 3 22 | 11 29.18 | + 5 44.0 | 2.052 | 3.036 | 3.6 | 18.0 |
| 4 1 | 11 22.49 | + 6 56.9 | 2.088 | 3.033 | 7.4 | 18.2 |
| 4 11 | 11 17.12 | + 7 57.4 | 2.149 | 3.030 | 10.8 | 18.4 |
| 4 21 | 11 13.54 | + 8 42.4 | 2.233 | 3.026 | 13.6 | 18.6 |

**204180** 2004 $BL_{51}$ 3 13.7 108°.61 3°.2/17.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.02 | − 8 55.3 | 2.249 | 3.053 | 12.5 | 20.2 |
| 2 21 | 11 51.64 | − 8 58.3 | 2.172 | 3.060 | 9.7 | 20.0 |
| 3 2 | 11 44.62 | − 8 45.6 | 2.119 | 3.067 | 6.5 | 19.9 |
| 3 12 | 11 36.64 | − 8 18.9 | 2.094 | 3.073 | 3.8 | 19.7 |
| 3 22 | 11 28.49 | − 7 41.9 | 2.098 | 3.080 | 3.8 | 19.7 |
| 4 1 | 11 21.00 | − 6 59.2 | 2.130 | 3.087 | 6.5 | 19.9 |
| 4 11 | 11 14.90 | − 6 16.4 | 2.189 | 3.093 | 9.5 | 20.1 |
| 4 21 | 11 10.64 | − 5 38.3 | 2.272 | 3.099 | 12.3 | 20.3 |

**330077** 2005 $VZ_{113}$ 3 13.7 160°.40 2°.4/11.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.41 | + 6 46.4 | 1.888 | 2.750 | 12.1 | 21.1 |
| 2 21 | 11 52.13 | + 7 42.5 | 1.821 | 2.752 | 8.5 | 20.9 |
| 3 2 | 11 44.97 | + 8 45.6 | 1.779 | 2.754 | 4.7 | 20.7 |
| 3 12 | 11 36.69 | + 9 48.6 | 1.766 | 2.755 | 2.4 | 20.5 |
| 3 22 | 11 28.25 | +10 44.7 | 1.781 | 2.757 | 5.3 | 20.7 |
| 4 1 | 11 20.61 | +11 27.9 | 1.824 | 2.758 | 9.1 | 20.9 |
| 4 11 | 11 14.61 | +11 54.4 | 1.891 | 2.759 | 12.6 | 21.1 |
| 4 21 | 11 10.75 | +12 3.3 | 1.979 | 2.760 | 15.6 | 21.3 |

**166993** 2003 $PY_{1}$ 3 13.7 237°.98 2°.6/15.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.61 | − 6 1.3 | 1.880 | 2.701 | 14.0 | 20.4 |
| 2 21 | 11 54.67 | − 5 55.2 | 1.785 | 2.687 | 10.7 | 20.2 |
| 3 2 | 11 46.54 | − 5 32.0 | 1.714 | 2.672 | 6.8 | 19.9 |
| 3 12 | 11 36.96 | − 4 54.0 | 1.670 | 2.657 | 3.2 | 19.7 |
| 3 22 | 11 26.91 | − 4 5.5 | 1.654 | 2.641 | 3.9 | 19.7 |
| 4 1 | 11 17.51 | − 3 13.1 | 1.667 | 2.624 | 7.9 | 19.9 |
| 4 11 | 11 9.78 | − 2 23.5 | 1.706 | 2.607 | 12.0 | 20.1 |
| 4 21 | 11 4.38 | − 1 42.5 | 1.768 | 2.589 | 15.5 | 20.3 |

**507979** 2015 $BA_{104}$ 3 13.7 169°.23 0°.4/13.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.89 | + 1 5.7 | 2.261 | 3.105 | 11.1 | 21.9 |
| 2 21 | 11 50.81 | + 1 51.0 | 2.186 | 3.107 | 7.9 | 21.7 |
| 3 2 | 11 44.16 | + 2 46.6 | 2.137 | 3.109 | 4.3 | 21.5 |
| 3 12 | 11 36.58 | + 3 47.4 | 2.118 | 3.111 | 0.6 | 21.2 |
| 3 22 | 11 28.85 | + 4 47.9 | 2.128 | 3.113 | 3.4 | 21.4 |
| 4 1 | 11 21.76 | + 5 42.5 | 2.167 | 3.114 | 7.1 | 21.7 |
| 4 11 | 11 16.01 | + 6 26.6 | 2.233 | 3.115 | 10.4 | 21.9 |
| 4 21 | 11 12.03 | + 6 57.7 | 2.321 | 3.115 | 13.1 | 22.1 |

**211846** 2004 $FQ_{92}$ 3 13.7 285°.07 1°.1/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.53 | − 3 46.3 | 2.222 | 3.055 | 11.7 | 20.2 |
| 2 21 | 11 49.22 | − 3 6.8 | 2.136 | 3.048 | 8.6 | 20.0 |
| 3 2 | 11 43.33 | − 2 12.9 | 2.075 | 3.041 | 5.1 | 19.7 |
| 3 12 | 11 36.48 | − 1 8.5 | 2.042 | 3.033 | 1.6 | 19.5 |
| 3 22 | 11 29.39 | + 0 0.9 | 2.038 | 3.026 | 3.0 | 19.6 |
| 4 1 | 11 22.88 | + 1 9.1 | 2.063 | 3.019 | 6.7 | 19.8 |
| 4 11 | 11 17.64 | + 2 10.3 | 2.115 | 3.012 | 10.1 | 20.0 |
| 4 21 | 11 14.18 | + 3 0.0 | 2.190 | 3.005 | 13.1 | 20.2 |

**522258** 2016 $AE_{275}$ 3 13.7 330°.01 1°.7/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.30 | − 3 1.3 | 1.360 | 2.215 | 16.3 | 21.3 |
| 2 21 | 11 52.07 | − 2 48.8 | 1.281 | 2.204 | 12.1 | 21.0 |
| 3 2 | 11 45.27 | − 2 16.8 | 1.225 | 2.194 | 7.3 | 20.7 |
| 3 12 | 11 36.78 | − 1 29.4 | 1.193 | 2.184 | 2.4 | 20.3 |
| 3 22 | 11 27.85 | − 0 33.7 | 1.186 | 2.175 | 4.3 | 20.4 |
| 4 1 | 11 19.83 | + 0 21.5 | 1.204 | 2.167 | 9.6 | 20.7 |
| 4 11 | 11 13.93 | + 1 7.8 | 1.246 | 2.159 | 14.4 | 21.0 |
| 4 21 | 11 10.85 | + 1 39.2 | 1.306 | 2.152 | 18.6 | 21.2 |

**190095** 2004 $TR_{172}$ 3 13.7 108°.92 3°.6/17.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.24 | −10 3.4 | 2.140 | 2.940 | 13.2 | 20.3 |
| 2 21 | 11 52.52 | −10 1.8 | 2.071 | 2.955 | 10.3 | 20.1 |
| 3 2 | 11 45.11 | − 9 42.7 | 2.025 | 2.969 | 7.0 | 19.9 |
| 3 12 | 11 36.73 | − 9 8.1 | 2.006 | 2.984 | 4.2 | 19.8 |
| 3 22 | 11 28.23 | − 8 22.0 | 2.016 | 2.998 | 4.0 | 19.8 |
| 4 1 | 11 20.49 | − 7 29.9 | 2.055 | 3.011 | 6.7 | 20.0 |
| 4 11 | 11 14.24 | − 6 38.1 | 2.120 | 3.025 | 9.8 | 20.2 |
| 4 21 | 11 9.95 | − 5 51.7 | 2.210 | 3.037 | 12.6 | 20.4 |

**121111** 1999 $GD_{16}$ 3 13.7 305°.70 2°.1/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.03 | + 5 44.0 | 1.355 | 2.227 | 15.3 | 19.5 |
| 2 21 | 11 54.76 | + 6 15.1 | 1.281 | 2.216 | 11.0 | 19.3 |
| 3 2 | 11 46.77 | + 6 56.2 | 1.229 | 2.205 | 6.1 | 18.9 |
| 3 12 | 11 37.01 | + 7 39.9 | 1.202 | 2.194 | 2.2 | 18.7 |
| 3 22 | 11 26.80 | + 8 17.9 | 1.201 | 2.183 | 6.0 | 18.9 |
| 4 1 | 11 17.62 | + 8 42.9 | 1.226 | 2.173 | 11.2 | 19.1 |
| 4 11 | 11 10.70 | + 8 49.9 | 1.272 | 2.164 | 15.9 | 19.4 |
| 4 21 | 11 6.75 | + 8 37.7 | 1.337 | 2.154 | 19.9 | 19.6 |

**268066** 2004 $RP_{59}$ 3 13.7 219°.67 3°.0/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.83 | +11 0.8 | 2.263 | 3.119 | 10.6 | 20.6 |
| 2 21 | 11 54.39 | +11 35.5 | 2.184 | 3.110 | 7.6 | 20.4 |
| 3 2 | 11 46.19 | +12 12.0 | 2.131 | 3.102 | 4.5 | 20.2 |
| 3 12 | 11 36.91 | +12 44.8 | 2.108 | 3.092 | 3.1 | 20.1 |
| 3 22 | 11 27.41 | +13 9.1 | 2.115 | 3.083 | 5.3 | 20.2 |
| 4 1 | 11 18.59 | +13 20.8 | 2.151 | 3.072 | 8.6 | 20.4 |
| 4 11 | 11 11.24 | +13 18.1 | 2.212 | 3.062 | 11.7 | 20.6 |
| 4 21 | 11 5.87 | +13 0.9 | 2.295 | 3.050 | 14.4 | 20.7 |

**505041** 2011 $RN_{5}$ 3 13.7 147°.45 1°.7/15.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.75 | − 6 10.5 | 2.601 | 3.417 | 10.7 | 22.4 |
| 2 21 | 11 49.13 | − 5 37.4 | 2.522 | 3.421 | 8.0 | 22.2 |
| 3 2 | 11 43.19 | − 4 50.9 | 2.468 | 3.426 | 5.0 | 22.1 |
| 3 12 | 11 36.47 | − 3 54.2 | 2.443 | 3.430 | 2.2 | 21.9 |
| 3 22 | 11 29.61 | − 2 51.7 | 2.448 | 3.435 | 2.7 | 21.9 |
| 4 1 | 11 23.30 | − 1 48.4 | 2.482 | 3.439 | 5.7 | 22.1 |
| 4 11 | 11 18.11 | − 0 49.4 | 2.544 | 3.442 | 8.6 | 22.3 |
| 4 21 | 11 14.45 | + 0 1.4 | 2.631 | 3.446 | 11.2 | 22.5 |

**119109** 2001 $OZ_{64}$ 3 13.7 111°.34 2°.7/10.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.36 | + 5 38.6 | 1.840 | 2.703 | 12.3 | 19.3 |
| 2 21 | 11 51.36 | + 7 16.7 | 1.784 | 2.716 | 8.6 | 19.1 |
| 3 2 | 11 44.53 | + 9 3.5 | 1.755 | 2.729 | 4.7 | 18.9 |
| 3 12 | 11 36.66 | +10 49.9 | 1.754 | 2.742 | 2.8 | 18.8 |
| 3 22 | 11 28.71 | +12 26.8 | 1.783 | 2.755 | 5.7 | 19.0 |
| 4 1 | 11 21.62 | +13 46.6 | 1.839 | 2.767 | 9.5 | 19.3 |
| 4 11 | 11 16.17 | +14 44.9 | 1.920 | 2.779 | 12.9 | 19.5 |
| 4 21 | 11 12.83 | +15 20.8 | 2.022 | 2.790 | 15.7 | 19.7 |

**399721** 2004 $WY_{7}$ 3 13.7 166°.16 4°.0/10.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.78 | +11 7.3 | 1.783 | 2.647 | 12.6 | 21.5 |
| 2 21 | 11 55.35 | +12 8.7 | 1.721 | 2.652 | 9.0 | 21.3 |
| 3 2 | 11 46.80 | +13 12.8 | 1.685 | 2.656 | 5.4 | 21.1 |
| 3 12 | 11 37.02 | +14 11.6 | 1.677 | 2.659 | 4.1 | 21.0 |
| 3 22 | 11 27.09 | +14 57.7 | 1.697 | 2.662 | 6.7 | 21.2 |
| 4 1 | 11 18.13 | +15 25.9 | 1.745 | 2.664 | 10.4 | 21.4 |
| 4 11 | 11 11.05 | +15 34.0 | 1.816 | 2.666 | 13.9 | 21.6 |
| 4 21 | 11 6.38 | +15 22.6 | 1.907 | 2.667 | 16.8 | 21.8 |

**394000** 2005 $UG_{512}$ 3 13.7 192°.56 1°.7/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.63 | + 4 30.5 | 1.891 | 2.741 | 12.6 | 22.4 |
| 2 21 | 11 55.23 | + 5 24.6 | 1.814 | 2.740 | 9.0 | 22.2 |
| 3 2 | 11 46.76 | + 6 28.3 | 1.764 | 2.737 | 4.9 | 21.9 |
| 3 12 | 11 37.02 | + 7 34.8 | 1.742 | 2.734 | 1.7 | 21.7 |
| 3 22 | 11 27.02 | + 8 36.9 | 1.750 | 2.729 | 4.8 | 21.9 |
| 4 1 | 11 17.83 | + 9 28.0 | 1.786 | 2.724 | 9.0 | 22.1 |
| 4 11 | 11 10.37 | +10 3.6 | 1.848 | 2.717 | 12.8 | 22.4 |
| 4 21 | 11 5.21 | +10 21.7 | 1.931 | 2.710 | 16.0 | 22.6 |

**118133** 3523 $T\text{-}_{3}$ 3 13.7 150°.19 0°.0/13.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.78 | + 0 43.0 | 2.875 | 3.710 | 9.2 | 21.2 |
| 2 21 | 11 49.73 | + 1 15.6 | 2.801 | 3.717 | 6.6 | 21.0 |
| 3 2 | 11 43.47 | + 1 55.9 | 2.755 | 3.725 | 3.7 | 20.8 |
| 3 12 | 11 36.52 | + 2 40.5 | 2.738 | 3.731 | 0.5 | 20.5 |
| 3 22 | 11 29.48 | + 3 25.3 | 2.752 | 3.738 | 2.6 | 20.7 |
| 4 1 | 11 22.95 | + 4 6.6 | 2.797 | 3.744 | 5.6 | 21.0 |
| 4 11 | 11 17.46 | + 4 40.9 | 2.868 | 3.750 | 8.3 | 21.1 |
| 4 21 | 11 13.39 | + 5 6.1 | 2.964 | 3.755 | 10.7 | 21.3 |

**263385** 2008 $CH_{200}$ 3 13.7 340°.67 0°.7/12.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.43 | + 0 27.7 | 2.219 | 3.070 | 11.0 | 20.1 |
| 2 21 | 11 47.71 | + 1 46.0 | 2.141 | 3.066 | 7.8 | 19.8 |
| 3 2 | 11 42.50 | + 3 17.1 | 2.088 | 3.062 | 4.2 | 19.6 |
| 3 12 | 11 36.39 | + 4 54.6 | 2.065 | 3.058 | 0.8 | 19.3 |
| 3 22 | 11 30.10 | + 6 31.4 | 2.072 | 3.055 | 3.7 | 19.6 |
| 4 1 | 11 24.38 | + 8 0.3 | 2.108 | 3.052 | 7.4 | 19.8 |
| 4 11 | 11 19.90 | + 9 15.4 | 2.170 | 3.049 | 10.7 | 20.0 |
| 4 21 | 11 17.11 | +10 13.4 | 2.254 | 3.047 | 13.5 | 20.2 |

**460494** 2014 $SL_{310}$ 3 13.7 225°.75 2°.0/11.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.77 | + 6 14.6 | 1.954 | 2.808 | 12.1 | 22.0 |
| 2 21 | 11 54.63 | + 6 56.6 | 1.871 | 2.798 | 8.6 | 21.8 |
| 3 2 | 11 46.45 | + 7 46.0 | 1.814 | 2.787 | 4.8 | 21.5 |
| 3 12 | 11 36.99 | + 8 36.6 | 1.785 | 2.775 | 2.0 | 21.3 |
| 3 22 | 11 27.19 | + 9 22.1 | 1.785 | 2.763 | 4.9 | 21.5 |
| 4 1 | 11 18.12 | + 9 56.8 | 1.814 | 2.750 | 9.0 | 21.7 |
| 4 11 | 11 10.69 | +10 16.8 | 1.868 | 2.736 | 12.7 | 21.9 |
| 4 21 | 11 5.50 | +10 20.7 | 1.942 | 2.722 | 15.9 | 22.1 |

**274470** 2008 $SM_{82}$ 3 13.7 126°.67 3°.5/10.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.79 | +10 38.0 | 1.919 | 2.786 | 11.7 | 20.5 |
| 2 21 | 11 52.40 | +11 30.6 | 1.854 | 2.787 | 8.3 | 20.2 |
| 3 2 | 11 45.14 | +12 26.1 | 1.815 | 2.787 | 5.0 | 20.0 |
| 3 12 | 11 36.79 | +13 17.6 | 1.804 | 2.788 | 3.6 | 20.0 |
| 3 22 | 11 28.27 | +13 58.6 | 1.821 | 2.788 | 6.1 | 20.1 |
| 4 1 | 11 20.58 | +14 24.3 | 1.865 | 2.789 | 9.6 | 20.3 |
| 4 11 | 11 14.53 | +14 32.2 | 1.933 | 2.790 | 12.9 | 20.5 |
| 4 21 | 11 10.61 | +14 22.4 | 2.022 | 2.790 | 15.7 | 20.7 |

**226845** 2004 $SG_{40}$ 3 13.7 186°.56 2°.0/11.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.53 | + 6 42.7 | 2.099 | 2.955 | 11.3 | 20.7 |
| 2 21 | 11 52.81 | + 7 21.1 | 2.027 | 2.955 | 8.0 | 20.5 |
| 3 2 | 11 45.34 | + 8 5.3 | 1.981 | 2.955 | 4.4 | 20.2 |
| 3 12 | 11 36.82 | + 8 49.6 | 1.964 | 2.954 | 2.0 | 20.1 |
| 3 22 | 11 28.13 | + 9 28.6 | 1.976 | 2.953 | 4.6 | 20.2 |
| 4 1 | 11 20.16 | + 9 57.4 | 2.016 | 2.952 | 8.2 | 20.4 |
| 4 11 | 11 13.71 | +10 12.9 | 2.081 | 2.950 | 11.6 | 20.6 |
| 4 21 | 11 9.25 | +10 14.0 | 2.169 | 2.948 | 14.4 | 20.8 |

**382873** 2004 $JJ_{23}$ 3 13.7 0°.12 6°.7/ 5.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 51.24 | +15 44.2 | 1.601 | 2.489 | 12.4 | 19.6 |
| 2 21 | 11 48.07 | +17 49.6 | 1.549 | 2.486 | 9.2 | 19.4 |
| 3 2 | 11 42.87 | +19 55.0 | 1.522 | 2.485 | 7.0 | 19.3 |
| 3 12 | 11 36.46 | +21 48.3 | 1.522 | 2.485 | 7.3 | 19.3 |
| 3 22 | 11 29.86 | +23 19.3 | 1.548 | 2.485 | 9.9 | 19.5 |
| 4 1 | 11 24.12 | +24 21.0 | 1.598 | 2.487 | 13.2 | 19.7 |
| 4 11 | 11 20.14 | +24 51.4 | 1.669 | 2.489 | 16.2 | 19.9 |
| 4 21 | 11 18.43 | +24 52.6 | 1.756 | 2.492 | 18.8 | 20.1 |

**89804** 2002 $AO_{157}$ 3 13.7 259°.59 1°.9/15.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.12 | − 5 17.9 | 2.515 | 3.333 | 10.9 | 19.5 |
| 2 21 | 11 50.24 | − 5 7.7 | 2.424 | 3.324 | 8.2 | 19.3 |
| 3 2 | 11 43.89 | − 4 45.0 | 2.357 | 3.315 | 5.2 | 19.1 |
| 3 12 | 11 36.61 | − 4 12.2 | 2.319 | 3.306 | 2.3 | 18.9 |
| 3 22 | 11 29.11 | − 3 32.8 | 2.310 | 3.297 | 2.9 | 18.9 |
| 4 1 | 11 22.10 | − 2 51.2 | 2.331 | 3.288 | 6.0 | 19.1 |
| 4 11 | 11 16.25 | − 2 12.0 | 2.379 | 3.278 | 9.1 | 19.3 |
| 4 21 | 11 12.03 | − 1 39.2 | 2.450 | 3.269 | 11.8 | 19.4 |

**256245** 2006 $WW_{23}$ 3 13.7 80°.25 1°.2/14.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.36 | − 3 54.5 | 1.692 | 2.530 | 14.5 | 20.7 |
| 2 21 | 11 52.82 | − 3 12.7 | 1.639 | 2.553 | 10.6 | 20.5 |
| 3 2 | 11 45.34 | − 2 14.0 | 1.610 | 2.576 | 6.2 | 20.3 |
| 3 12 | 11 36.81 | − 1 4.2 | 1.607 | 2.599 | 1.8 | 20.0 |
| 3 22 | 11 28.27 | + 0 9.3 | 1.633 | 2.621 | 3.6 | 20.2 |
| 4 1 | 11 20.75 | + 1 18.6 | 1.687 | 2.644 | 7.8 | 20.5 |
| 4 11 | 11 15.06 | + 2 17.0 | 1.766 | 2.666 | 11.7 | 20.8 |
| 4 21 | 11 11.64 | + 3 0.8 | 1.867 | 2.687 | 14.9 | 21.0 |

**139919** 2001 $RF_{121}$ 3 13.7 90°.19 1°.6/12.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.31 | + 6 35.5 | 2.191 | 3.045 | 11.0 | 19.8 |
| 2 21 | 11 52.55 | + 6 57.8 | 2.122 | 3.049 | 7.8 | 19.6 |
| 3 2 | 11 45.15 | + 7 24.9 | 2.081 | 3.054 | 4.2 | 19.4 |
| 3 12 | 11 36.80 | + 7 52.1 | 2.067 | 3.058 | 1.6 | 19.2 |
| 3 22 | 11 28.34 | + 8 14.9 | 2.084 | 3.063 | 4.2 | 19.4 |
| 4 1 | 11 20.60 | + 8 29.4 | 2.128 | 3.067 | 7.7 | 19.6 |
| 4 11 | 11 14.32 | + 8 33.0 | 2.199 | 3.072 | 10.9 | 19.8 |
| 4 21 | 11 9.95 | + 8 24.7 | 2.291 | 3.076 | 13.6 | 20.0 |

**344338** 2001 $VG_{114}$ 3 13.7 146°.48 5°.3/21.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.36 | −20 20.2 | 2.976 | 3.700 | 11.6 | 21.3 |
| 2 21 | 11 50.22 | −20 23.9 | 2.891 | 3.710 | 9.7 | 21.2 |
| 3 2 | 11 43.79 | −20 9.4 | 2.829 | 3.719 | 7.7 | 21.1 |
| 3 12 | 11 36.60 | −19 37.0 | 2.793 | 3.728 | 6.0 | 21.0 |
| 3 22 | 11 29.28 | −18 48.9 | 2.785 | 3.736 | 5.3 | 20.9 |
| 4 1 | 11 22.46 | −17 48.9 | 2.806 | 3.744 | 6.1 | 21.0 |
| 4 11 | 11 16.71 | −16 42.4 | 2.855 | 3.751 | 7.9 | 21.1 |
| 4 21 | 11 12.45 | −15 34.6 | 2.930 | 3.758 | 9.9 | 21.3 |

**111455** 2001 $XL_{252}$ 3 13.7 303°.29 5°.2/19.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.48 | −15 36.9 | 2.384 | 3.152 | 13.0 | 19.5 |
| 2 21 | 11 50.61 | −15 52.7 | 2.295 | 3.150 | 10.6 | 19.4 |
| 3 2 | 11 44.14 | −15 49.6 | 2.229 | 3.148 | 8.0 | 19.2 |
| 3 12 | 11 36.67 | −15 27.9 | 2.189 | 3.146 | 5.9 | 19.1 |
| 3 22 | 11 28.94 | −14 50.1 | 2.177 | 3.144 | 5.3 | 19.0 |
| 4 1 | 11 21.77 | −14 0.4 | 2.193 | 3.142 | 6.8 | 19.1 |
| 4 11 | 11 15.88 | −13 4.8 | 2.235 | 3.140 | 9.3 | 19.3 |
| 4 21 | 11 11.77 | −12 9.3 | 2.302 | 3.138 | 11.9 | 19.4 |

**153314** 2001 $MR_{23}$ 3 13.7 240°.17 3°.0/15.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.30 | − 6 4.0 | 1.695 | 2.518 | 15.1 | 20.0 |
| 2 21 | 11 56.13 | − 6 7.4 | 1.602 | 2.504 | 11.6 | 19.7 |
| 3 2 | 11 47.49 | − 5 52.7 | 1.532 | 2.490 | 7.5 | 19.4 |
| 3 12 | 11 37.19 | − 5 21.8 | 1.488 | 2.475 | 3.6 | 19.2 |
| 3 22 | 11 26.33 | − 4 39.0 | 1.473 | 2.459 | 4.3 | 19.2 |
| 4 1 | 11 16.20 | − 3 51.1 | 1.485 | 2.443 | 8.6 | 19.4 |
| 4 11 | 11 7.95 | − 3 5.5 | 1.523 | 2.426 | 13.0 | 19.6 |
| 4 21 | 11 2.31 | − 2 28.4 | 1.582 | 2.408 | 16.8 | 19.8 |

**272981** 2006 $DE_{25}$ 3 13.7 95°.23 0°.7/12.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.83 | + 1 40.8 | 1.930 | 2.782 | 12.3 | 20.6 |
| 2 21 | 11 50.98 | + 2 32.3 | 1.862 | 2.788 | 8.8 | 20.4 |
| 3 2 | 11 44.36 | + 3 35.0 | 1.820 | 2.794 | 4.8 | 20.1 |
| 3 12 | 11 36.70 | + 4 42.9 | 1.806 | 2.799 | 0.8 | 19.9 |
| 3 22 | 11 28.89 | + 5 49.2 | 1.821 | 2.805 | 4.0 | 20.1 |
| 4 1 | 11 21.85 | + 6 47.3 | 1.863 | 2.810 | 8.0 | 20.4 |
| 4 11 | 11 16.36 | + 7 32.3 | 1.931 | 2.816 | 11.6 | 20.6 |
| 4 21 | 11 12.89 | + 8 1.5 | 2.020 | 2.821 | 14.6 | 20.8 |

**22612** Dandibner 3 13.7 123°.33 4°.8/ 8.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.75 | +15 13.0 | 2.074 | 2.939 | 11.0 | 18.4 |
| 2 21 | 11 52.92 | +16 18.3 | 2.021 | 2.949 | 8.0 | 18.2 |
| 3 2 | 11 45.36 | +17 22.0 | 1.996 | 2.959 | 5.5 | 18.1 |
| 3 12 | 11 36.84 | +18 16.8 | 1.998 | 2.969 | 5.0 | 18.1 |
| 3 22 | 11 28.26 | +18 56.8 | 2.029 | 2.978 | 7.1 | 18.2 |
| 4 1 | 11 20.53 | +19 18.1 | 2.087 | 2.987 | 10.0 | 18.4 |
| 4 11 | 11 14.40 | +19 19.8 | 2.168 | 2.996 | 12.7 | 18.6 |
| 4 21 | 11 10.31 | +19 3.1 | 2.270 | 3.004 | 15.1 | 18.8 |

**410799** 2009 $HT_{74}$ 3 13.7 53°.40 2°.9/10.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.79 | + 4 23.4 | 1.332 | 2.208 | 15.2 | 20.3 |
| 2 21 | 11 51.42 | + 6 3.1 | 1.286 | 2.224 | 10.6 | 20.1 |
| 3 2 | 11 44.73 | + 7 55.2 | 1.263 | 2.240 | 5.7 | 19.8 |
| 3 12 | 11 36.75 | + 9 47.8 | 1.267 | 2.256 | 3.0 | 19.7 |
| 3 22 | 11 28.72 | +11 28.7 | 1.297 | 2.273 | 6.6 | 19.9 |
| 4 1 | 11 21.87 | +12 48.3 | 1.352 | 2.290 | 11.2 | 20.2 |
| 4 11 | 11 17.15 | +13 41.4 | 1.429 | 2.308 | 15.3 | 20.5 |
| 4 21 | 11 15.01 | +14 7.5 | 1.525 | 2.325 | 18.6 | 20.8 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **15455** 1998 $YJ_3$ | | | 3 13.7 187°.89 | | 2°.6/15.9 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 1.70 | − 6 6.6 | 1.783 | 2.604 | 14.6 | 19.0 |
| 2 21 | 11 55.44 | − 6 0.3 | 1.702 | 2.604 | 11.1 | 18.7 |
| 3 2 | 11 46.96 | − 5 36.1 | 1.645 | 2.603 | 7.0 | 18.5 |
| 3 12 | 11 37.11 | − 4 56.9 | 1.615 | 2.601 | 3.2 | 18.2 |
| 3 22 | 11 26.93 | − 4 7.7 | 1.613 | 2.599 | 3.9 | 18.3 |
| 4 1 | 11 17.58 | − 3 15.2 | 1.639 | 2.597 | 8.0 | 18.5 |
| 4 11 | 11 10.06 | − 2 26.4 | 1.692 | 2.593 | 12.0 | 18.7 |
| 4 21 | 11 4.96 | − 1 46.8 | 1.766 | 2.589 | 15.5 | 19.0 |
| **243726** 2000 $JK_{18}$ | | | 3 13.7 270°.01 | | 2°.0/15.2 17 | |
| 2 11 | 12 1.51 | − 3 42.3 | 1.605 | 2.441 | 15.2 | 20.3 |
| 2 21 | 11 55.77 | − 3 38.4 | 1.505 | 2.417 | 11.5 | 20.0 |
| 3 2 | 11 47.42 | − 3 17.2 | 1.429 | 2.393 | 7.1 | 19.7 |
| 3 12 | 11 37.22 | − 2 41.1 | 1.378 | 2.368 | 2.7 | 19.4 |
| 3 22 | 11 26.30 | − 1 55.3 | 1.356 | 2.343 | 4.2 | 19.4 |
| 4 1 | 11 16.03 | − 1 7.1 | 1.360 | 2.318 | 9.2 | 19.6 |
| 4 11 | 11 7.66 | − 0 24.0 | 1.389 | 2.292 | 14.0 | 19.8 |
| 4 21 | 11 2.04 | + 0 7.8 | 1.438 | 2.265 | 18.2 | 20.0 |
| **231582** 2008 $US_{216}$ | | | 3 13.7 316°.23 | | 0°.5/14.2 17 | |
| 2 11 | 11 56.08 | − 1 3.9 | 1.951 | 2.794 | 12.6 | 20.6 |
| 2 21 | 11 51.22 | − 0 34.1 | 1.874 | 2.793 | 9.2 | 20.4 |
| 3 2 | 11 44.53 | + 0 8.8 | 1.822 | 2.792 | 5.2 | 20.2 |
| 3 12 | 11 36.75 | + 1 0.1 | 1.797 | 2.790 | 1.1 | 19.9 |
| 3 22 | 11 28.74 | + 1 54.2 | 1.801 | 2.789 | 3.4 | 20.0 |
| 4 1 | 11 21.45 | + 2 44.8 | 1.833 | 2.788 | 7.5 | 20.3 |
| 4 11 | 11 15.69 | + 3 26.5 | 1.891 | 2.786 | 11.2 | 20.5 |
| 4 21 | 11 11.96 | + 3 55.8 | 1.970 | 2.785 | 14.4 | 20.7 |
| **385868** 2006 $RU_{36}$ | | | 3 13.7 123°.38 | | 2°.4/16.9 17 | |
| 2 11 | 11 55.89 | − 8 14.8 | 2.823 | 3.621 | 10.4 | 21.7 |
| 2 21 | 11 50.54 | − 8 2.8 | 2.750 | 3.636 | 7.9 | 21.6 |
| 3 2 | 11 43.95 | − 7 38.0 | 2.703 | 3.652 | 5.2 | 21.4 |
| 3 12 | 11 36.65 | − 7 2.8 | 2.685 | 3.666 | 2.8 | 21.3 |
| 3 22 | 11 29.27 | − 6 20.4 | 2.697 | 3.681 | 2.9 | 21.3 |
| 4 1 | 11 22.44 | − 5 34.7 | 2.739 | 3.695 | 5.3 | 21.5 |
| 4 11 | 11 16.72 | − 4 50.3 | 2.810 | 3.708 | 7.9 | 21.6 |
| 4 21 | 11 12.47 | − 4 10.7 | 2.905 | 3.721 | 10.2 | 21.8 |
| **95877** 2003 $GT_{46}$ | | | 3 13.7 324°.96 | | 2°.2/11.6 18 | |
| 2 11 | 11 54.01 | + 3 51.6 | 1.571 | 2.441 | 13.7 | 19.5 |
| 2 21 | 11 50.13 | + 5 8.5 | 1.497 | 2.432 | 9.7 | 19.2 |
| 3 2 | 11 44.10 | + 6 39.1 | 1.448 | 2.424 | 5.2 | 19.0 |
| 3 12 | 11 36.71 | + 8 14.8 | 1.424 | 2.416 | 2.2 | 18.7 |
| 3 22 | 11 29.01 | + 9 45.6 | 1.428 | 2.408 | 5.7 | 18.9 |
| 4 1 | 11 22.12 | +11 2.1 | 1.459 | 2.400 | 10.2 | 19.2 |
| 4 11 | 11 17.03 | +11 57.8 | 1.512 | 2.393 | 14.4 | 19.4 |
| 4 21 | 11 14.32 | +12 30.2 | 1.585 | 2.387 | 17.9 | 19.6 |
| **350314** 2012 $UJ_{55}$ | | | 3 13.7 158°.81 | | 5°.1/20.3 17 | |
| 2 11 | 11 54.32 | −17 30.3 | 2.453 | 3.210 | 13.0 | 21.0 |
| 2 21 | 11 49.74 | −17 21.3 | 2.365 | 3.212 | 10.6 | 20.9 |
| 3 2 | 11 43.64 | −16 51.5 | 2.301 | 3.214 | 8.1 | 20.7 |
| 3 12 | 11 36.64 | −16 1.8 | 2.262 | 3.216 | 5.9 | 20.6 |
| 3 22 | 11 29.45 | −14 55.5 | 2.251 | 3.218 | 5.2 | 20.5 |
| 4 1 | 11 22.82 | −13 37.8 | 2.269 | 3.219 | 6.6 | 20.6 |
| 4 11 | 11 17.44 | −12 15.6 | 2.314 | 3.221 | 9.0 | 20.8 |
| 4 21 | 11 13.76 | −10 55.5 | 2.384 | 3.222 | 11.5 | 20.9 |
| **73548** 2003 $PM_3$ | | | 3 13.7 257°.49 | | 0°.2/13.5 17 | |
| 2 11 | 11 56.62 | + 0 30.7 | 2.178 | 3.020 | 11.5 | 20.7 |
| 2 21 | 11 51.58 | + 1 10.0 | 2.083 | 3.003 | 8.3 | 20.5 |
| 3 2 | 11 44.77 | + 2 1.1 | 2.014 | 2.985 | 4.6 | 20.2 |
| 3 12 | 11 36.82 | + 2 59.4 | 1.973 | 2.967 | 0.7 | 19.9 |
| 3 22 | 11 28.53 | + 3 59.3 | 1.962 | 2.948 | 3.5 | 20.0 |
| 4 1 | 11 20.78 | + 4 54.8 | 1.980 | 2.929 | 7.5 | 20.3 |
| 4 11 | 11 14.38 | + 5 40.6 | 2.025 | 2.910 | 11.1 | 20.4 |
| 4 21 | 11 9.88 | + 6 13.4 | 2.091 | 2.890 | 14.2 | 20.6 |
| **39314** Moritakumi | | | 3 13.7 106°.29 | | 1°.7/11.6 18 | |
| 2 11 | 11 57.69 | + 3 56.0 | 2.136 | 2.987 | 11.4 | 18.8 |
| 2 21 | 11 52.05 | + 5 18.9 | 2.086 | 3.012 | 7.9 | 18.7 |
| 3 2 | 11 44.84 | + 6 49.7 | 2.063 | 3.037 | 4.2 | 18.5 |
| 3 12 | 11 36.81 | + 8 21.2 | 2.070 | 3.061 | 1.7 | 18.3 |
| 3 22 | 11 28.77 | + 9 46.0 | 2.107 | 3.084 | 4.4 | 18.6 |
| 4 1 | 11 21.55 | +10 58.1 | 2.174 | 3.107 | 7.9 | 18.8 |
| 4 11 | 11 15.81 | +11 53.4 | 2.267 | 3.129 | 11.0 | 19.0 |
| 4 21 | 11 11.95 | +12 30.8 | 2.381 | 3.150 | 13.6 | 19.3 |
| **58017** 2002 $UC_{34}$ | | | 3 13.7 122°.78 | | 5°.8/ 7.2 18 | |
| 2 11 | 11 56.47 | +14 28.6 | 1.768 | 2.643 | 12.1 | 19.2 |
| 2 21 | 11 51.64 | +16 21.6 | 1.716 | 2.648 | 8.8 | 19.0 |
| 3 2 | 11 44.81 | +18 15.3 | 1.689 | 2.653 | 6.2 | 18.8 |
| 3 12 | 11 36.82 | +19 58.7 | 1.691 | 2.658 | 6.2 | 18.8 |
| 3 22 | 11 28.68 | +21 22.9 | 1.720 | 2.663 | 8.7 | 19.0 |
| 4 1 | 11 21.42 | +22 21.6 | 1.775 | 2.667 | 11.9 | 19.2 |
| 4 11 | 11 15.91 | +22 52.8 | 1.852 | 2.671 | 14.9 | 19.4 |
| 4 21 | 11 12.66 | +22 58.1 | 1.947 | 2.675 | 17.4 | 19.6 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **280185** 2002 $RG_{184}$ | | | 3 13.7 184°.70 | | 3°.3/18.1 18 | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 54.89 | −12 13.1 | 2.662 | 3.444 | 11.4 | 20.7 |
| 2 21 | 11 50.02 | −11 49.1 | 2.572 | 3.444 | 9.0 | 20.5 |
| 3 2 | 11 43.76 | −11 8.2 | 2.507 | 3.444 | 6.3 | 20.4 |
| 3 12 | 11 36.67 | −10 12.4 | 2.469 | 3.443 | 3.9 | 20.2 |
| 3 22 | 11 29.40 | − 9 5.4 | 2.462 | 3.442 | 3.6 | 20.2 |
| 4 1 | 11 22.64 | − 7 52.5 | 2.484 | 3.440 | 5.7 | 20.3 |
| 4 11 | 11 17.01 | − 6 39.4 | 2.534 | 3.438 | 8.4 | 20.5 |
| 4 21 | 11 12.94 | − 5 31.3 | 2.610 | 3.435 | 11.0 | 20.6 |
| **385083** 2012 $UD_{115}$ | | | 3 13.7 162°.59 | | 0°.3/14.1 17 | |
| 2 11 | 11 55.98 | − 0 26.0 | 2.383 | 3.220 | 10.8 | 21.6 |
| 2 21 | 11 50.86 | + 0 0.5 | 2.306 | 3.222 | 7.8 | 21.4 |
| 3 2 | 11 44.24 | + 0 36.9 | 2.256 | 3.224 | 4.4 | 21.2 |
| 3 12 | 11 36.74 | + 1 19.7 | 2.233 | 3.226 | 0.9 | 20.9 |
| 3 22 | 11 29.08 | + 2 4.1 | 2.241 | 3.228 | 2.9 | 21.1 |
| 4 1 | 11 22.03 | + 2 45.7 | 2.278 | 3.230 | 6.5 | 21.3 |
| 4 11 | 11 16.24 | + 3 20.0 | 2.342 | 3.231 | 9.6 | 21.5 |
| 4 21 | 11 12.15 | + 3 44.3 | 2.429 | 3.232 | 12.4 | 21.7 |
| **222858** 2002 $EU_{128}$ | | | 3 13.7 19°.88 | | 1°.3/12.6 17 | |
| 2 11 | 11 57.30 | + 3 50.4 | 1.744 | 2.604 | 13.0 | 20.5 |
| 2 21 | 11 52.23 | + 4 28.1 | 1.676 | 2.605 | 9.3 | 20.3 |
| 3 2 | 11 45.15 | + 5 15.4 | 1.632 | 2.607 | 5.0 | 20.1 |
| 3 12 | 11 36.88 | + 6 6.2 | 1.616 | 2.608 | 1.3 | 19.8 |
| 3 22 | 11 28.42 | + 6 53.9 | 1.627 | 2.610 | 4.5 | 20.0 |
| 4 1 | 11 20.81 | + 7 32.2 | 1.665 | 2.612 | 8.8 | 20.3 |
| 4 11 | 11 14.93 | + 7 56.6 | 1.728 | 2.614 | 12.7 | 20.5 |
| 4 21 | 11 11.32 | + 8 5.3 | 1.812 | 2.616 | 15.9 | 20.7 |
| **105468** 2000 $QF_{208}$ | | | 3 13.7 99°.92 | | 0°.5/13.3 18 | |
| 2 11 | 11 59.56 | + 0 48.5 | 1.521 | 2.377 | 14.9 | 19.4 |
| 2 21 | 11 53.99 | + 1 33.5 | 1.462 | 2.388 | 10.6 | 19.2 |
| 3 2 | 11 46.16 | + 2 32.7 | 1.425 | 2.398 | 5.8 | 18.9 |
| 3 12 | 11 37.03 | + 3 39.2 | 1.416 | 2.409 | 0.8 | 18.6 |
| 3 22 | 11 27.76 | + 4 44.6 | 1.434 | 2.419 | 4.5 | 18.9 |
| 4 1 | 11 19.57 | + 5 41.0 | 1.478 | 2.430 | 9.2 | 19.2 |
| 4 11 | 11 13.41 | + 6 22.3 | 1.547 | 2.440 | 13.5 | 19.5 |
| 4 21 | 11 9.80 | + 6 46.0 | 1.636 | 2.449 | 16.9 | 19.7 |
| **41821** 2000 $WU_{45}$ | | | 3 13.7 293°.92 | | 1°.3/14.9 18 | |
| 2 11 | 11 56.86 | − 3 52.2 | 1.488 | 2.335 | 15.6 | 19.1 |
| 2 21 | 11 52.29 | − 3 14.4 | 1.412 | 2.330 | 11.6 | 18.8 |
| 3 2 | 11 45.36 | − 2 15.8 | 1.357 | 2.325 | 6.9 | 18.5 |
| 3 12 | 11 36.93 | − 1 1.7 | 1.329 | 2.321 | 2.0 | 18.2 |
| 3 22 | 11 28.14 | + 0 19.5 | 1.327 | 2.316 | 4.0 | 18.3 |
| 4 1 | 11 20.26 | + 1 38.4 | 1.352 | 2.311 | 9.1 | 18.6 |
| 4 11 | 11 14.34 | + 2 45.8 | 1.401 | 2.307 | 13.7 | 18.8 |
| 4 21 | 11 11.02 | + 3 36.2 | 1.469 | 2.303 | 17.6 | 19.1 |
| **500543** 2012 $UX_{25}$ | | | 3 13.7 181°.85 | | 2°.1/16.2 17 | |
| 2 11 | 11 56.69 | − 6 10.5 | 2.543 | 3.354 | 11.0 | 21.9 |
| 2 21 | 11 51.33 | − 6 2.9 | 2.459 | 3.354 | 8.4 | 21.8 |
| 3 2 | 11 44.50 | − 5 42.6 | 2.399 | 3.355 | 5.3 | 21.6 |
| 3 12 | 11 36.79 | − 5 11.8 | 2.369 | 3.354 | 2.6 | 21.4 |
| 3 22 | 11 28.89 | − 4 34.0 | 2.368 | 3.354 | 3.0 | 21.4 |
| 4 1 | 11 21.54 | − 3 53.5 | 2.397 | 3.353 | 5.9 | 21.6 |
| 4 11 | 11 15.40 | − 3 14.8 | 2.454 | 3.352 | 8.9 | 21.8 |
| 4 21 | 11 10.89 | − 2 41.8 | 2.534 | 3.351 | 11.5 | 22.0 |
| **423954** 2006 $UC_{61}$ | | | 3 13.7 123°.75 | | 3°.3/17.0 18 | |
| 2 11 | 11 58.51 | − 9 23.6 | 1.928 | 2.736 | 14.2 | 22.1 |
| 2 21 | 11 52.93 | − 9 6.2 | 1.858 | 2.749 | 10.9 | 21.9 |
| 3 2 | 11 45.48 | − 8 29.2 | 1.811 | 2.761 | 7.2 | 21.7 |
| 3 12 | 11 36.94 | − 7 35.5 | 1.791 | 2.772 | 4.0 | 21.5 |
| 3 22 | 11 28.25 | − 6 30.6 | 1.799 | 2.783 | 3.9 | 21.6 |
| 4 1 | 11 20.39 | − 5 21.2 | 1.836 | 2.794 | 7.2 | 21.8 |
| 4 11 | 11 14.17 | − 4 14.9 | 1.899 | 2.804 | 10.7 | 22.0 |
| 4 21 | 11 10.08 | − 3 17.3 | 1.985 | 2.814 | 13.8 | 22.2 |
| **386580** 2009 $EF_{14}$ | | | 3 13.7 205°.90 | | 1°.2/12.2 17 | |
| 2 11 | 11 54.65 | + 4 10.8 | 2.464 | 3.315 | 10.0 | 21.5 |
| 2 21 | 11 49.90 | + 4 59.2 | 2.387 | 3.313 | 7.1 | 21.3 |
| 3 2 | 11 43.71 | + 5 54.8 | 2.337 | 3.310 | 3.8 | 21.1 |
| 3 12 | 11 36.68 | + 6 52.9 | 2.316 | 3.308 | 1.2 | 20.9 |
| 3 22 | 11 29.48 | + 7 48.2 | 2.324 | 3.305 | 3.7 | 21.1 |
| 4 1 | 11 22.83 | + 8 36.0 | 2.362 | 3.302 | 7.0 | 21.3 |
| 4 11 | 11 17.38 | + 9 12.6 | 2.426 | 3.298 | 10.0 | 21.5 |
| 4 21 | 11 13.55 | + 9 35.8 | 2.513 | 3.295 | 12.6 | 21.6 |
| **502017** 2015 $AR_{74}$ | | | 3 13.7 66°.17 | | 2°.1/15.7 17 | |
| 2 11 | 11 57.04 | − 5 11.7 | 1.797 | 2.629 | 14.0 | 21.6 |
| 2 21 | 11 52.00 | − 4 54.1 | 1.727 | 2.636 | 10.5 | 21.4 |
| 3 2 | 11 45.01 | − 4 19.5 | 1.681 | 2.643 | 6.5 | 21.1 |
| 3 12 | 11 36.88 | − 3 31.6 | 1.661 | 2.650 | 2.7 | 20.9 |
| 3 22 | 11 28.57 | − 2 36.1 | 1.670 | 2.658 | 3.5 | 21.0 |
| 4 1 | 11 21.09 | − 1 39.9 | 1.706 | 2.665 | 7.5 | 21.2 |
| 4 11 | 11 15.29 | − 0 49.6 | 1.767 | 2.672 | 11.3 | 21.5 |
| 4 21 | 11 11.69 | − 0 10.0 | 1.850 | 2.680 | 14.6 | 21.7 |

**58145** 1986 $PT_1$ 3 13.7 202°.30 1°.7/12.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.79 | + 4 13.0 | 1.917 | 2.770 | 12.4 | 20.0 |
| 2 21 | 11 53.95 | + 5 12.7 | 1.839 | 2.766 | 8.8 | 19.7 |
| 3 2 | 11 46.12 | + 6 22.4 | 1.787 | 2.761 | 4.8 | 19.5 |
| 3 12 | 11 37.05 | + 7 35.5 | 1.763 | 2.755 | 1.7 | 19.2 |
| 3 22 | 11 27.71 | + 8 44.6 | 1.769 | 2.748 | 4.8 | 19.4 |
| 4 1 | 11 19.11 | + 9 42.7 | 1.803 | 2.741 | 8.9 | 19.7 |
| 4 11 | 11 12.16 | +10 25.0 | 1.862 | 2.733 | 12.6 | 19.9 |
| 4 21 | 11 7.42 | +10 49.4 | 1.943 | 2.724 | 15.8 | 20.1 |

**198643** 2005 $AO_{71}$ 3 13.7 85°.45 0°.4/14.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.10 | − 1 1.5 | 2.000 | 2.842 | 12.4 | 20.4 |
| 2 21 | 11 51.17 | − 0 28.8 | 1.927 | 2.846 | 9.0 | 20.2 |
| 3 2 | 11 44.50 | + 0 16.4 | 1.880 | 2.850 | 5.1 | 20.0 |
| 3 12 | 11 36.81 | + 1 9.7 | 1.861 | 2.853 | 1.0 | 19.7 |
| 3 22 | 11 28.94 | + 2 5.1 | 1.870 | 2.857 | 3.3 | 19.9 |
| 4 1 | 11 21.79 | + 2 56.8 | 1.907 | 2.861 | 7.3 | 20.1 |
| 4 11 | 11 16.15 | + 3 39.3 | 1.971 | 2.865 | 10.9 | 20.3 |
| 4 21 | 11 12.48 | + 4 9.4 | 2.056 | 2.868 | 14.0 | 20.6 |

**276160** 2002 $LT_{51}$ 3 13.7 235°.86 3°.1/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.68 | −10 51.1 | 2.598 | 3.387 | 11.5 | 21.3 |
| 2 21 | 11 50.70 | −10 27.6 | 2.494 | 3.372 | 9.0 | 21.1 |
| 3 2 | 11 44.22 | − 9 47.3 | 2.414 | 3.357 | 6.2 | 20.9 |
| 3 12 | 11 36.77 | − 8 52.0 | 2.363 | 3.340 | 3.6 | 20.7 |
| 3 22 | 11 29.04 | − 7 45.3 | 2.341 | 3.323 | 3.5 | 20.7 |
| 4 1 | 11 21.75 | − 6 32.6 | 2.350 | 3.306 | 6.0 | 20.8 |
| 4 11 | 11 15.59 | − 5 19.7 | 2.386 | 3.288 | 8.9 | 21.0 |
| 4 21 | 11 11.05 | − 4 12.2 | 2.448 | 3.270 | 11.7 | 21.1 |

**66622** 1999 $RJ_{204}$ 3 13.7 229°.40 3°.9/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.81 | −10 23.1 | 2.137 | 2.936 | 13.3 | 19.9 |
| 2 21 | 11 52.45 | −10 28.3 | 2.047 | 2.930 | 10.4 | 19.7 |
| 3 2 | 11 45.27 | −10 15.9 | 1.981 | 2.923 | 7.3 | 19.4 |
| 3 12 | 11 36.93 | − 9 47.0 | 1.941 | 2.917 | 4.5 | 19.3 |
| 3 22 | 11 28.28 | − 9 5.0 | 1.930 | 2.910 | 4.3 | 19.2 |
| 4 1 | 11 20.25 | − 8 15.0 | 1.947 | 2.903 | 7.0 | 19.4 |
| 4 11 | 11 13.64 | − 7 23.3 | 1.991 | 2.896 | 10.3 | 19.6 |
| 4 21 | 11 9.03 | − 6 35.8 | 2.058 | 2.889 | 13.3 | 19.7 |

**42873** 1999 $RV_{127}$ 3 13.7 131°.66 0°.3/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.25 | − 1 41.6 | 1.754 | 2.597 | 13.8 | 19.7 |
| 2 21 | 11 52.87 | − 0 47.6 | 1.688 | 2.607 | 10.0 | 19.5 |
| 3 2 | 11 45.49 | + 0 22.1 | 1.646 | 2.616 | 5.6 | 19.2 |
| 3 12 | 11 36.96 | + 1 41.1 | 1.632 | 2.625 | 1.0 | 18.9 |
| 3 22 | 11 28.28 | + 3 1.8 | 1.647 | 2.634 | 3.8 | 19.1 |
| 4 1 | 11 20.49 | + 4 15.9 | 1.689 | 2.642 | 8.2 | 19.4 |
| 4 11 | 11 14.45 | + 5 16.9 | 1.758 | 2.649 | 12.2 | 19.7 |
| 4 21 | 11 10.67 | + 6 1.2 | 1.847 | 2.657 | 15.4 | 19.9 |

**7259** Gaithersburg 3 13.7 26°.67 1°.1/12.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.06 | − 0 15.0 | 1.500 | 2.364 | 14.6 | 16.8 |
| 2 21 | 11 49.42 | + 1 18.7 | 1.438 | 2.369 | 10.4 | 16.5 |
| 3 2 | 11 43.67 | + 3 10.8 | 1.400 | 2.375 | 5.6 | 16.3 |
| 3 12 | 11 36.70 | + 5 11.7 | 1.389 | 2.382 | 1.1 | 16.0 |
| 3 22 | 11 29.54 | + 7 9.6 | 1.405 | 2.389 | 4.9 | 16.2 |
| 4 1 | 11 23.31 | + 8 53.7 | 1.448 | 2.396 | 9.7 | 16.5 |
| 4 11 | 11 18.91 | +10 16.0 | 1.514 | 2.404 | 13.9 | 16.8 |
| 4 21 | 11 16.85 | +11 13.1 | 1.601 | 2.413 | 17.3 | 17.0 |

**280742** 2005 $LY_{42}$ 3 13.7 253°.63 0°.3/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.79 | − 0 45.2 | 1.811 | 2.648 | 13.7 | 22.8 |
| 2 21 | 11 56.51 | − 0 12.5 | 1.706 | 2.622 | 10.1 | 22.5 |
| 3 2 | 11 47.79 | + 0 35.7 | 1.625 | 2.594 | 5.8 | 22.2 |
| 3 12 | 11 37.35 | + 1 35.0 | 1.573 | 2.566 | 1.0 | 21.8 |
| 3 22 | 11 26.23 | + 2 38.9 | 1.550 | 2.536 | 4.1 | 21.9 |
| 4 1 | 11 15.67 | + 3 39.8 | 1.555 | 2.505 | 9.0 | 22.2 |
| 4 11 | 11 6.82 | + 4 30.5 | 1.586 | 2.473 | 13.5 | 22.3 |
| 4 21 | 11 0.46 | + 5 6.4 | 1.639 | 2.440 | 17.5 | 22.5 |

**3381** Mikkola 3 13.7 125°.55 2°.3/15.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.83 | − 6 31.0 | 1.942 | 2.760 | 13.7 | 17.6 |
| 2 21 | 11 53.82 | − 6 7.7 | 1.875 | 2.776 | 10.3 | 17.4 |
| 3 2 | 11 45.95 | − 5 27.3 | 1.833 | 2.791 | 6.5 | 17.2 |
| 3 12 | 11 37.03 | − 4 33.4 | 1.818 | 2.805 | 2.9 | 17.0 |
| 3 22 | 11 28.00 | − 3 31.8 | 1.832 | 2.819 | 3.5 | 17.1 |
| 4 1 | 11 19.83 | − 2 29.0 | 1.875 | 2.833 | 7.1 | 17.4 |
| 4 11 | 11 13.32 | − 1 31.8 | 1.945 | 2.845 | 10.7 | 17.6 |
| 4 21 | 11 8.95 | − 0 44.7 | 2.037 | 2.857 | 13.8 | 17.8 |

**155603** 2000 $CB_{138}$ 3 13.7 159°.62 0°.8/13.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.79 | + 1 24.1 | 1.652 | 2.503 | 14.1 | 21.0 |
| 2 21 | 11 54.83 | + 2 15.5 | 1.585 | 2.509 | 10.1 | 20.7 |
| 3 2 | 11 46.65 | + 3 20.3 | 1.542 | 2.515 | 5.5 | 20.5 |
| 3 12 | 11 37.15 | + 4 31.7 | 1.526 | 2.519 | 0.9 | 20.2 |
| 3 22 | 11 27.46 | + 5 41.4 | 1.539 | 2.524 | 4.5 | 20.4 |
| 4 1 | 11 18.73 | + 6 41.7 | 1.580 | 2.527 | 9.1 | 20.7 |
| 4 11 | 11 11.92 | + 7 26.7 | 1.645 | 2.530 | 13.2 | 21.0 |
| 4 21 | 11 7.60 | + 7 53.8 | 1.731 | 2.532 | 16.7 | 21.2 |

**402913** 2007 $TM_{97}$ 3 13.7 184°.00 1°.1/12.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.11 | + 3 7.4 | 1.977 | 2.825 | 12.3 | 22.2 |
| 2 21 | 11 54.10 | + 3 57.0 | 1.902 | 2.826 | 8.7 | 21.9 |
| 3 2 | 11 46.17 | + 4 56.5 | 1.853 | 2.826 | 4.7 | 21.7 |
| 3 12 | 11 37.08 | + 6 0.2 | 1.833 | 2.825 | 1.2 | 21.4 |
| 3 22 | 11 27.78 | + 7 1.2 | 1.842 | 2.824 | 4.3 | 21.7 |
| 4 1 | 11 19.24 | + 7 53.2 | 1.880 | 2.821 | 8.3 | 21.9 |
| 4 11 | 11 12.32 | + 8 31.6 | 1.943 | 2.818 | 12.0 | 22.1 |
| 4 21 | 11 7.54 | + 8 54.3 | 2.028 | 2.815 | 15.1 | 22.3 |

**23999** Rinner 3 13.7 160°.52 0°.4/13.4 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.86 | + 1 16.8 | 1.865 | 2.711 | 13.0 | 19.5 |
| 2 21 | 11 53.97 | + 1 55.1 | 1.795 | 2.716 | 9.3 | 19.3 |
| 3 2 | 11 46.10 | + 2 44.9 | 1.749 | 2.721 | 5.1 | 19.0 |
| 3 12 | 11 37.07 | + 3 40.8 | 1.732 | 2.725 | 0.7 | 18.7 |
| 3 22 | 11 27.86 | + 4 36.1 | 1.743 | 2.729 | 3.9 | 18.9 |
| 4 1 | 11 19.49 | + 5 24.7 | 1.783 | 2.732 | 8.2 | 19.2 |
| 4 11 | 11 12.82 | + 6 1.3 | 1.849 | 2.734 | 12.0 | 19.4 |
| 4 21 | 11 8.37 | + 6 23.4 | 1.936 | 2.736 | 15.2 | 19.7 |

**359059** 2008 $YL_{49}$ 3 13.7 268°.03 5°.0/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.77 | +11 30.0 | 1.525 | 2.400 | 13.7 | 20.3 |
| 2 21 | 11 53.71 | +12 53.2 | 1.453 | 2.388 | 9.9 | 20.0 |
| 3 2 | 11 46.20 | +14 22.0 | 1.405 | 2.376 | 6.2 | 19.8 |
| 3 12 | 11 37.11 | +15 45.9 | 1.384 | 2.364 | 5.3 | 19.7 |
| 3 22 | 11 27.63 | +16 54.6 | 1.390 | 2.351 | 8.3 | 19.8 |
| 4 1 | 11 19.06 | +17 40.3 | 1.420 | 2.339 | 12.4 | 20.0 |
| 4 11 | 11 12.52 | +17 59.5 | 1.473 | 2.326 | 16.3 | 20.3 |
| 4 21 | 11 8.66 | +17 52.8 | 1.543 | 2.313 | 19.7 | 20.5 |

**250377** 2003 $UH_{40}$ 3 13.7 276°.30 0°.9/14.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.69 | − 2 39.8 | 1.627 | 2.472 | 14.6 | 20.9 |
| 2 21 | 11 52.92 | − 2 3.1 | 1.533 | 2.452 | 10.8 | 20.7 |
| 3 2 | 11 45.80 | − 1 7.5 | 1.463 | 2.431 | 6.4 | 20.3 |
| 3 12 | 11 37.07 | + 0 2.5 | 1.418 | 2.410 | 1.6 | 20.0 |
| 3 22 | 11 27.79 | + 1 19.5 | 1.401 | 2.389 | 4.0 | 20.1 |
| 4 1 | 11 19.18 | + 2 34.5 | 1.411 | 2.368 | 9.1 | 20.3 |
| 4 11 | 11 12.38 | + 3 39.2 | 1.445 | 2.346 | 13.7 | 20.5 |
| 4 21 | 11 8.10 | + 4 27.6 | 1.500 | 2.324 | 17.7 | 20.7 |

**20288** Nachbaur 3 13.7 264°.94 1°.0/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.48 | − 2 25.1 | 1.681 | 2.524 | 14.3 | 19.2 |
| 2 21 | 11 53.38 | − 1 56.5 | 1.591 | 2.508 | 10.6 | 19.0 |
| 3 2 | 11 46.00 | − 1 10.6 | 1.524 | 2.493 | 6.2 | 18.7 |
| 3 12 | 11 37.10 | − 0 12.0 | 1.484 | 2.477 | 1.6 | 18.3 |
| 3 22 | 11 27.72 | + 0 52.7 | 1.472 | 2.460 | 3.9 | 18.5 |
| 4 1 | 11 19.05 | + 1 55.7 | 1.487 | 2.443 | 8.7 | 18.7 |
| 4 11 | 11 12.16 | + 2 49.4 | 1.527 | 2.427 | 13.2 | 18.9 |
| 4 21 | 11 7.74 | + 3 28.6 | 1.587 | 2.410 | 17.0 | 19.1 |

**28806** 2000 $HH_{87}$ 3 13.7 10°.50 3°.8/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.36 | −11 24.0 | 1.493 | 2.316 | 16.8 | 18.1 |
| 2 21 | 11 49.75 | −10 39.1 | 1.419 | 2.317 | 13.1 | 17.9 |
| 3 2 | 11 43.94 | − 9 25.0 | 1.366 | 2.319 | 8.8 | 17.6 |
| 3 12 | 11 36.78 | − 7 45.9 | 1.338 | 2.321 | 4.8 | 17.4 |
| 3 22 | 11 29.34 | − 5 50.5 | 1.336 | 2.323 | 4.5 | 17.4 |
| 4 1 | 11 22.81 | − 3 50.4 | 1.361 | 2.326 | 8.4 | 17.6 |
| 4 11 | 11 18.16 | − 1 57.6 | 1.410 | 2.329 | 12.7 | 17.8 |
| 4 21 | 11 15.96 | − 0 21.2 | 1.482 | 2.333 | 16.5 | 18.1 |

**506598** 2005 $YQ_{264}$ 3 13.7 200°.00 1°.9/16.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.85 | − 5 46.0 | 2.897 | 3.707 | 9.9 | 21.9 |
| 2 21 | 11 49.90 | − 5 40.8 | 2.810 | 3.706 | 7.4 | 21.7 |
| 3 2 | 11 43.70 | − 5 24.7 | 2.749 | 3.704 | 4.8 | 21.5 |
| 3 12 | 11 36.74 | − 4 59.8 | 2.717 | 3.702 | 2.3 | 21.4 |
| 3 22 | 11 29.62 | − 4 28.9 | 2.715 | 3.700 | 2.6 | 21.4 |
| 4 1 | 11 22.96 | − 3 55.6 | 2.742 | 3.698 | 5.2 | 21.6 |
| 4 11 | 11 17.31 | − 3 23.7 | 2.798 | 3.696 | 7.9 | 21.7 |
| 4 21 | 11 13.08 | − 2 56.3 | 2.878 | 3.694 | 10.3 | 21.9 |

**497212** 2004 $VH_{68}$ 3 13.7 170°.87 2°.1/11.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.68 | + 6 51.7 | 2.170 | 3.027 | 11.0 | 22.3 |
| 2 21 | 11 52.21 | + 7 39.3 | 2.101 | 3.029 | 7.7 | 22.1 |
| 3 2 | 11 45.07 | + 8 32.5 | 2.057 | 3.031 | 4.3 | 21.9 |
| 3 12 | 11 36.95 | + 9 25.8 | 2.043 | 3.032 | 2.1 | 21.7 |
| 3 22 | 11 28.68 | +10 13.2 | 2.058 | 3.033 | 4.6 | 21.9 |
| 4 1 | 11 21.11 | +10 49.9 | 2.101 | 3.034 | 8.1 | 22.1 |
| 4 11 | 11 14.97 | +11 12.7 | 2.170 | 3.035 | 11.3 | 22.3 |
| 4 21 | 11 10.74 | +11 20.3 | 2.260 | 3.035 | 14.0 | 22.5 |

**275671** 2000 $QF_{88}$ 3 13.7 169°.14 0°.2/14.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.69 | − 1 23.1 | 2.714 | 3.540 | 10.0 | 22.1 |
| 2 21 | 11 51.23 | − 0 33.2 | 2.635 | 3.546 | 7.2 | 21.9 |
| 3 2 | 11 44.43 | + 0 27.0 | 2.584 | 3.551 | 4.1 | 21.7 |
| 3 12 | 11 36.85 | + 1 33.5 | 2.563 | 3.555 | 0.7 | 21.4 |
| 3 22 | 11 29.14 | + 2 41.5 | 2.573 | 3.559 | 2.7 | 21.6 |
| 4 1 | 11 21.97 | + 3 45.8 | 2.614 | 3.561 | 5.9 | 21.8 |
| 4 11 | 11 15.93 | + 4 42.0 | 2.683 | 3.563 | 8.9 | 22.0 |
| 4 21 | 11 11.43 | + 5 27.2 | 2.776 | 3.564 | 11.4 | 22.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **16420** 1987 $UN_1$ | | | 3 13.7 124°.32 | 4°.8/19.4 18 | | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.83 | −15 33.5 | 2.166 | 2.938 | 14.0 | 18.7 |
| 2 21 | 11 51.64 | −15 17.6 | 2.090 | 2.951 | 11.3 | 18.5 |
| 3 2 | 11 44.76 | −14 39.4 | 2.037 | 2.963 | 8.3 | 18.4 |
| 3 12 | 11 36.91 | −13 40.8 | 2.011 | 2.975 | 5.6 | 18.2 |
| 3 22 | 11 28.92 | −12 26.1 | 2.012 | 2.986 | 4.9 | 18.2 |
| 4 1 | 11 21.65 | −11 2.0 | 2.043 | 2.997 | 6.8 | 18.3 |
| 4 11 | 11 15.83 | − 9 36.2 | 2.100 | 3.008 | 9.7 | 18.5 |
| 4 21 | 11 11.95 | − 8 15.6 | 2.182 | 3.018 | 12.5 | 18.7 |
| **85432** 1997 $CK_{19}$ | | | 3 13.7 121°.53 | 8°.1/22.3 18 | | |
| 2 11 | 12 2.31 | −23 20.6 | 2.288 | 2.998 | 15.1 | 20.0 |
| 2 21 | 11 55.64 | −24 12.5 | 2.212 | 3.012 | 12.9 | 19.9 |
| 3 2 | 11 47.05 | −24 41.1 | 2.158 | 3.026 | 10.7 | 19.8 |
| 3 12 | 11 37.27 | −24 44.5 | 2.128 | 3.040 | 8.9 | 19.7 |
| 3 22 | 11 27.24 | −24 23.5 | 2.124 | 3.054 | 8.1 | 19.6 |
| 4 1 | 11 17.94 | −23 42.2 | 2.148 | 3.067 | 8.8 | 19.7 |
| 4 11 | 11 10.22 | −22 47.0 | 2.197 | 3.079 | 10.5 | 19.8 |
| 4 21 | 11 4.63 | −21 45.6 | 2.270 | 3.091 | 12.6 | 20.0 |
| **341817** 2007 $YV_2$ | | | 3 13.7 32°.30 | 0°.7/13.0 17 | | |
| 2 11 | 11 56.26 | + 3 11.2 | 2.080 | 2.932 | 11.6 | 21.2 |
| 2 21 | 11 51.24 | + 3 36.5 | 2.012 | 2.937 | 8.2 | 21.0 |
| 3 2 | 11 44.54 | + 4 9.9 | 1.969 | 2.942 | 4.5 | 20.8 |
| 3 12 | 11 36.89 | + 4 46.8 | 1.954 | 2.947 | 0.8 | 20.5 |
| 3 22 | 11 29.09 | + 5 22.1 | 1.968 | 2.952 | 3.7 | 20.8 |
| 4 1 | 11 22.02 | + 5 51.1 | 2.010 | 2.958 | 7.4 | 21.0 |
| 4 11 | 11 16.40 | + 6 10.1 | 2.077 | 2.963 | 10.8 | 21.2 |
| 4 21 | 11 12.68 | + 6 17.1 | 2.167 | 2.969 | 13.7 | 21.4 |
| **360401** 2002 $FM_5$ | | | 3 13.7 311°.33 | 3°.1/16.1 17 | | |
| 2 11 | 11 55.57 | − 6 34.6 | 1.327 | 2.173 | 17.2 | 20.7 |
| 2 21 | 11 51.84 | − 6 21.4 | 1.237 | 2.152 | 13.2 | 20.4 |
| 3 2 | 11 45.40 | − 5 42.9 | 1.168 | 2.131 | 8.5 | 20.1 |
| 3 12 | 11 37.07 | − 4 41.9 | 1.122 | 2.110 | 3.9 | 19.7 |
| 3 22 | 11 28.06 | − 3 25.1 | 1.101 | 2.090 | 4.7 | 19.7 |
| 4 1 | 11 19.83 | − 2 2.8 | 1.105 | 2.070 | 9.8 | 19.9 |
| 4 11 | 11 13.71 | − 0 46.3 | 1.131 | 2.051 | 15.0 | 20.2 |
| 4 21 | 11 10.55 | + 0 15.5 | 1.177 | 2.033 | 19.6 | 20.4 |
| **146942** 2002 $EQ_7$ | | | 3 13.7 75°.04 | 7°.0/11.9 17 | | |
| 2 11 | 12 26.36 | +18 34.2 | 0.929 | 1.793 | 21.2 | 19.0 |
| 2 21 | 12 13.98 | +18 5.2 | 0.888 | 1.814 | 15.7 | 18.8 |
| 3 2 | 11 57.38 | +17 21.7 | 0.869 | 1.835 | 10.1 | 18.6 |
| 3 12 | 11 38.77 | +16 15.1 | 0.874 | 1.856 | 7.0 | 18.5 |
| 3 22 | 11 20.86 | +14 44.1 | 0.906 | 1.876 | 9.9 | 18.7 |
| 4 1 | 11 6.03 | +12 53.9 | 0.962 | 1.897 | 15.1 | 19.0 |
| 4 11 | 10 55.65 | +10 52.5 | 1.041 | 1.917 | 19.8 | 19.4 |
| 4 21 | 10 49.93 | + 8 46.6 | 1.136 | 1.937 | 23.6 | 19.7 |
| **348944** 2006 $TA_{94}$ | | | 3 13.7 165°.38 | 2°.0/16.4 17 | | |
| 2 11 | 11 53.70 | − 7 22.4 | 2.535 | 3.346 | 11.1 | 21.2 |
| 2 21 | 11 49.23 | − 6 48.8 | 2.452 | 3.348 | 8.4 | 21.1 |
| 3 2 | 11 43.38 | − 6 0.5 | 2.394 | 3.349 | 5.4 | 20.9 |
| 3 12 | 11 36.72 | − 5 0.5 | 2.365 | 3.351 | 2.5 | 20.7 |
| 3 22 | 11 29.90 | − 3 53.5 | 2.365 | 3.352 | 2.8 | 20.7 |
| 4 1 | 11 23.61 | − 2 44.7 | 2.395 | 3.353 | 5.8 | 20.9 |
| 4 11 | 11 18.47 | − 1 39.6 | 2.453 | 3.354 | 8.8 | 21.1 |
| 4 21 | 11 14.89 | − 0 42.8 | 2.535 | 3.355 | 11.4 | 21.3 |
| **94612** 2001 $VU_{112}$ | | | 3 13.7 196°.45 | 3°.3/16.5 18 | | |
| 2 11 | 11 59.96 | − 7 57.1 | 1.654 | 2.475 | 15.5 | 20.2 |
| 2 21 | 11 54.40 | − 7 45.7 | 1.574 | 2.474 | 11.9 | 20.0 |
| 3 2 | 11 46.53 | − 7 13.1 | 1.517 | 2.472 | 7.8 | 19.7 |
| 3 12 | 11 37.21 | − 6 21.9 | 1.485 | 2.470 | 4.0 | 19.5 |
| 3 22 | 11 27.55 | − 5 18.0 | 1.481 | 2.467 | 4.3 | 19.5 |
| 4 1 | 11 18.73 | − 4 9.1 | 1.504 | 2.464 | 8.3 | 19.7 |
| 4 11 | 11 11.81 | − 3 3.9 | 1.553 | 2.461 | 12.5 | 20.0 |
| 4 21 | 11 7.40 | − 2 9.1 | 1.623 | 2.457 | 16.1 | 20.2 |
| **90730** 1992 $EO_{23}$ | | | 3 13.7 72°.13 | 0°.8/13.1 18 | | |
| 2 11 | 11 58.76 | + 0 24.4 | 1.329 | 2.192 | 16.1 | 19.3 |
| 2 21 | 11 53.61 | + 1 28.7 | 1.279 | 2.209 | 11.5 | 19.1 |
| 3 2 | 11 46.04 | + 2 49.6 | 1.251 | 2.226 | 6.2 | 18.8 |
| 3 12 | 11 37.12 | + 4 18.0 | 1.249 | 2.243 | 1.0 | 18.5 |
| 3 22 | 11 28.15 | + 5 43.2 | 1.274 | 2.260 | 5.0 | 18.8 |
| 4 1 | 11 20.41 | + 6 55.6 | 1.324 | 2.276 | 10.0 | 19.1 |
| 4 11 | 11 14.90 | + 7 48.3 | 1.398 | 2.293 | 14.4 | 19.4 |
| 4 21 | 11 12.11 | + 8 19.1 | 1.491 | 2.310 | 18.0 | 19.7 |
| **153612** 2001 $SN_{353}$ | | | 3 13.7 189°.95 | 4°.9/ 7.7 16 | | |
| 2 11 | 11 57.20 | +14 8.6 | 2.118 | 2.985 | 10.8 | 20.9 |
| 2 21 | 11 51.99 | +15 48.0 | 2.054 | 2.984 | 7.8 | 20.7 |
| 3 2 | 11 45.01 | +17 28.6 | 2.019 | 2.982 | 5.4 | 20.5 |
| 3 12 | 11 36.97 | +19 1.7 | 2.012 | 2.980 | 5.2 | 20.5 |
| 3 22 | 11 28.74 | +20 19.7 | 2.034 | 2.978 | 7.5 | 20.7 |
| 4 1 | 11 21.21 | +21 17.1 | 2.084 | 2.975 | 10.4 | 20.8 |
| 4 11 | 11 15.17 | +21 51.4 | 2.157 | 2.972 | 13.2 | 21.0 |
| 4 21 | 11 11.11 | +22 3.3 | 2.249 | 2.968 | 15.6 | 21.2 |

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| **51037** 2000 $GX_{130}$ | | | 3 13.7 147°.34 | 4°.6/ 7.9 18 | | |
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.56 | +16 15.3 | 2.449 | 3.313 | 9.6 | 18.8 |
| 2 21 | 11 51.27 | +17 23.7 | 2.393 | 3.319 | 7.1 | 18.6 |
| 3 2 | 11 44.50 | +18 30.1 | 2.364 | 3.324 | 5.0 | 18.5 |
| 3 12 | 11 36.89 | +19 28.2 | 2.364 | 3.330 | 4.8 | 18.5 |
| 3 22 | 11 29.19 | +20 12.9 | 2.393 | 3.335 | 6.6 | 18.6 |
| 4 1 | 11 22.16 | +20 40.7 | 2.450 | 3.340 | 9.1 | 18.8 |
| 4 11 | 11 16.44 | +20 50.2 | 2.530 | 3.344 | 11.5 | 18.9 |
| 4 21 | 11 12.45 | +20 42.2 | 2.631 | 3.349 | 13.6 | 19.1 |
| **78480** 2002 $RA_{53}$ | | | 3 13.7 101°.01 | 1°.0/12.6 18 | | |
| 2 11 | 11 56.57 | + 3 28.1 | 2.153 | 3.004 | 11.3 | 19.9 |
| 2 21 | 11 51.38 | + 4 9.6 | 2.089 | 3.014 | 8.0 | 19.7 |
| 3 2 | 11 44.60 | + 4 59.1 | 2.051 | 3.024 | 4.3 | 19.4 |
| 3 12 | 11 36.91 | + 5 51.3 | 2.041 | 3.034 | 1.0 | 19.2 |
| 3 22 | 11 29.12 | + 6 40.9 | 2.061 | 3.043 | 3.8 | 19.4 |
| 4 1 | 11 22.05 | + 7 22.5 | 2.109 | 3.053 | 7.4 | 19.7 |
| 4 11 | 11 16.41 | + 7 52.6 | 2.183 | 3.062 | 10.7 | 19.9 |
| 4 21 | 11 12.61 | + 8 9.1 | 2.280 | 3.072 | 13.4 | 20.1 |
| **194782** 2001 $YN_{82}$ | | | 3 13.7 112°.22 | 4°.7/ 9.7 18 | | |
| 2 11 | 12 2.31 | +11 58.7 | 1.586 | 2.455 | 13.6 | 20.3 |
| 2 21 | 11 55.87 | +13 10.4 | 1.539 | 2.471 | 9.7 | 20.1 |
| 3 2 | 11 47.19 | +14 23.4 | 1.517 | 2.487 | 6.0 | 20.0 |
| 3 12 | 11 37.30 | +15 28.3 | 1.522 | 2.502 | 4.9 | 19.9 |
| 3 22 | 11 27.39 | +16 17.1 | 1.554 | 2.516 | 7.5 | 20.1 |
| 4 1 | 11 18.67 | +16 44.6 | 1.613 | 2.530 | 11.3 | 20.4 |
| 4 11 | 11 12.05 | +16 49.3 | 1.694 | 2.544 | 14.7 | 20.6 |
| 4 21 | 11 8.00 | +16 33.0 | 1.794 | 2.557 | 17.6 | 20.8 |
| **210505** 1998 $HG_{116}$ | | | 3 13.7 314°.75 | 4°.9/ 9.7 17 | | |
| 2 11 | 11 56.51 | +10 6.3 | 1.315 | 2.199 | 14.8 | 19.8 |
| 2 21 | 11 52.45 | +11 23.7 | 1.240 | 2.181 | 10.7 | 19.5 |
| 3 2 | 11 45.69 | +12 49.8 | 1.189 | 2.163 | 6.5 | 19.2 |
| 3 12 | 11 37.14 | +14 13.4 | 1.162 | 2.146 | 5.1 | 19.1 |
| 3 22 | 11 28.07 | +15 22.8 | 1.160 | 2.129 | 8.5 | 19.3 |
| 4 1 | 11 19.96 | +16 8.7 | 1.182 | 2.113 | 13.3 | 19.5 |
| 4 11 | 11 14.05 | +16 26.3 | 1.225 | 2.097 | 17.7 | 19.7 |
| 4 21 | 11 11.08 | +16 15.8 | 1.284 | 2.082 | 21.5 | 19.9 |
| **373845** 2003 $FO_{82}$ | | | 3 13.7 320°.26 | 0°.3/14.1 17 | | |
| 2 11 | 11 53.10 | − 2 54.9 | 1.582 | 2.435 | 14.5 | 20.0 |
| 2 21 | 11 49.56 | − 1 46.4 | 1.500 | 2.423 | 10.6 | 19.8 |
| 3 2 | 11 43.89 | − 0 16.4 | 1.441 | 2.412 | 6.1 | 19.5 |
| 3 12 | 11 36.85 | + 1 28.4 | 1.408 | 2.401 | 1.1 | 19.1 |
| 3 22 | 11 29.45 | + 3 18.1 | 1.403 | 2.390 | 4.1 | 19.3 |
| 4 1 | 11 22.80 | + 5 2.0 | 1.424 | 2.380 | 9.0 | 19.6 |
| 4 11 | 11 17.89 | + 6 30.5 | 1.470 | 2.371 | 13.5 | 19.8 |
| 4 21 | 11 15.33 | + 7 37.9 | 1.536 | 2.362 | 17.3 | 20.0 |
| **235758** 2004 $VX_3$ | | | 3 13.8 70°.07 | 3°.6/10.3 18 | | |
| 2 11 | 11 58.71 | +10 42.3 | 1.811 | 2.678 | 12.3 | 19.9 |
| 2 21 | 11 53.12 | +11 34.3 | 1.758 | 2.690 | 8.7 | 19.7 |
| 3 2 | 11 45.64 | +12 28.5 | 1.730 | 2.702 | 5.2 | 19.5 |
| 3 12 | 11 37.09 | +13 17.7 | 1.730 | 2.714 | 3.7 | 19.4 |
| 3 22 | 11 28.50 | +13 55.6 | 1.758 | 2.726 | 6.2 | 19.6 |
| 4 1 | 11 20.85 | +14 17.4 | 1.813 | 2.738 | 9.7 | 19.8 |
| 4 11 | 11 14.96 | +14 21.3 | 1.891 | 2.750 | 13.0 | 20.0 |
| 4 21 | 11 11.27 | +14 7.6 | 1.990 | 2.762 | 15.8 | 20.3 |
| **387830** 2004 $GA_{85}$ | | | 3 13.8 301°.38 | 1°.8/11.6 17 | | |
| 2 11 | 11 54.08 | + 5 20.9 | 2.189 | 3.048 | 10.8 | 20.9 |
| 2 21 | 11 49.70 | + 6 21.2 | 2.115 | 3.044 | 7.6 | 20.7 |
| 3 2 | 11 43.74 | + 7 29.3 | 2.066 | 3.040 | 4.1 | 20.5 |
| 3 12 | 11 36.82 | + 8 39.2 | 2.046 | 3.037 | 1.8 | 20.3 |
| 3 22 | 11 29.71 | + 9 44.6 | 2.055 | 3.033 | 4.5 | 20.5 |
| 4 1 | 11 23.22 | +10 39.6 | 2.093 | 3.029 | 8.0 | 20.7 |
| 4 11 | 11 18.04 | +11 20.2 | 2.156 | 3.025 | 11.2 | 20.9 |
| 4 21 | 11 14.65 | +11 44.5 | 2.240 | 3.022 | 13.9 | 21.0 |
| **182336** 2001 $PL_{52}$ | | | 3 13.8 174°.03 | 3°.8/10.5 18 | | |
| 2 11 | 12 3.60 | +12 38.6 | 1.937 | 2.796 | 12.0 | 20.2 |
| 2 21 | 11 56.62 | +13 9.4 | 1.871 | 2.798 | 8.6 | 20.0 |
| 3 2 | 11 47.60 | +13 40.1 | 1.830 | 2.799 | 5.3 | 19.8 |
| 3 12 | 11 37.40 | +14 4.5 | 1.818 | 2.800 | 3.9 | 19.7 |
| 3 22 | 11 27.07 | +14 17.3 | 1.835 | 2.801 | 6.2 | 19.8 |
| 4 1 | 11 17.67 | +14 15.0 | 1.880 | 2.801 | 9.7 | 20.0 |
| 4 11 | 11 10.07 | +13 56.5 | 1.950 | 2.801 | 13.0 | 20.2 |
| 4 21 | 11 4.78 | +13 22.8 | 2.040 | 2.801 | 15.8 | 20.4 |
| **497848** 2006 $UV_{80}$ | | | 3 13.8 185°.55 | 5°.0/21.4 18 | | |
| 2 11 | 11 53.91 | −20 15.5 | 2.822 | 3.553 | 12.0 | 21.8 |
| 2 21 | 11 49.35 | −19 45.0 | 2.726 | 3.553 | 10.0 | 21.7 |
| 3 2 | 11 43.46 | −18 53.4 | 2.653 | 3.552 | 7.8 | 21.5 |
| 3 12 | 11 36.79 | −17 41.9 | 2.607 | 3.552 | 5.8 | 21.4 |
| 3 22 | 11 29.95 | −16 13.9 | 2.589 | 3.550 | 5.0 | 21.3 |
| 4 1 | 11 23.62 | −14 34.6 | 2.601 | 3.549 | 6.0 | 21.4 |
| 4 11 | 11 18.38 | −12 50.9 | 2.643 | 3.547 | 8.1 | 21.5 |
| 4 21 | 11 14.64 | −11 9.2 | 2.711 | 3.545 | 10.4 | 21.7 |

**204908** 2007 $WS_{10}$ 3 13.8 198°.19 4°.5/ 8.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.25 | +15 34.9 | 2.412 | 3.277 | 9.7 | 20.5 |
| 2 21 | 11 51.13 | +16 43.0 | 2.348 | 3.275 | 7.1 | 20.4 |
| 3 2 | 11 44.48 | +17 50.1 | 2.311 | 3.273 | 5.0 | 20.2 |
| 3 12 | 11 36.94 | +18 49.8 | 2.303 | 3.271 | 4.7 | 20.2 |
| 3 22 | 11 29.26 | +19 36.5 | 2.323 | 3.268 | 6.6 | 20.3 |
| 4 1 | 11 22.20 | +20 6.5 | 2.372 | 3.266 | 9.2 | 20.5 |
| 4 11 | 11 16.45 | +20 18.2 | 2.444 | 3.263 | 11.7 | 20.6 |
| 4 21 | 11 12.44 | +20 11.9 | 2.536 | 3.259 | 13.9 | 20.8 |

**468562** 2006 $VZ_{134}$ 3 13.8 214°.61 3°.6/18.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.62 | −12 40.0 | 2.759 | 3.537 | 11.1 | 21.8 |
| 2 21 | 11 49.89 | −12 30.2 | 2.664 | 3.532 | 8.9 | 21.7 |
| 3 2 | 11 43.79 | −12 4.4 | 2.593 | 3.526 | 6.4 | 21.5 |
| 3 12 | 11 36.85 | −11 24.1 | 2.550 | 3.520 | 4.2 | 21.3 |
| 3 22 | 11 29.71 | −10 32.2 | 2.537 | 3.514 | 3.8 | 21.3 |
| 4 1 | 11 23.02 | − 9 33.0 | 2.553 | 3.507 | 5.7 | 21.4 |
| 4 11 | 11 17.40 | − 8 31.9 | 2.596 | 3.500 | 8.2 | 21.6 |
| 4 21 | 11 13.28 | − 7 33.7 | 2.665 | 3.493 | 10.7 | 21.7 |

**375766** 2009 $SC_{134}$ 3 13.8 171°.21 3°.3/10.5 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.51 | +10 23.5 | 2.002 | 2.864 | 11.5 | 22.1 |
| 2 21 | 11 53.66 | +11 12.6 | 1.936 | 2.866 | 8.2 | 21.9 |
| 3 2 | 11 45.96 | +12 4.5 | 1.896 | 2.867 | 4.8 | 21.7 |
| 3 12 | 11 37.18 | +12 52.7 | 1.884 | 2.869 | 3.4 | 21.6 |
| 3 22 | 11 28.25 | +13 31.1 | 1.902 | 2.870 | 5.8 | 21.7 |
| 4 1 | 11 20.12 | +13 55.1 | 1.946 | 2.870 | 9.2 | 22.0 |
| 4 11 | 11 13.60 | +14 2.3 | 2.016 | 2.871 | 12.5 | 22.2 |
| 4 21 | 11 9.18 | +13 52.8 | 2.106 | 2.871 | 15.2 | 22.3 |

**296766** 2009 $UP_{76}$ 3 13.8 283°.11 1°.1/14.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.43 | − 2 26.7 | 1.773 | 2.615 | 13.7 | 21.1 |
| 2 21 | 11 52.59 | − 2 2.5 | 1.679 | 2.596 | 10.2 | 20.9 |
| 3 2 | 11 45.59 | − 1 22.1 | 1.610 | 2.577 | 6.0 | 20.6 |
| 3 12 | 11 37.15 | − 0 29.5 | 1.567 | 2.558 | 1.7 | 20.2 |
| 3 22 | 11 28.25 | + 0 29.2 | 1.551 | 2.539 | 3.7 | 20.3 |
| 4 1 | 11 19.98 | + 1 26.9 | 1.563 | 2.520 | 8.3 | 20.6 |
| 4 11 | 11 13.36 | + 2 16.6 | 1.601 | 2.501 | 12.6 | 20.8 |
| 4 21 | 11 9.06 | + 2 53.2 | 1.659 | 2.482 | 16.3 | 21.0 |

**51341** 2000 $QP_{26}$ 3 13.8 160°.82 0°.4/14.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.16 | − 1 36.6 | 2.600 | 3.427 | 10.3 | 20.0 |
| 2 21 | 11 51.63 | − 0 52.4 | 2.525 | 3.435 | 7.5 | 19.8 |
| 3 2 | 11 44.71 | + 0 2.4 | 2.476 | 3.443 | 4.3 | 19.6 |
| 3 12 | 11 36.99 | + 1 3.8 | 2.457 | 3.449 | 0.9 | 19.4 |
| 3 22 | 11 29.15 | + 2 6.9 | 2.469 | 3.455 | 2.7 | 19.5 |
| 4 1 | 11 21.88 | + 3 6.7 | 2.511 | 3.461 | 6.1 | 19.8 |
| 4 11 | 11 15.80 | + 3 58.7 | 2.581 | 3.465 | 9.1 | 20.0 |
| 4 21 | 11 11.32 | + 4 39.9 | 2.676 | 3.469 | 11.6 | 20.1 |

**386196** 2007 $VS_{215}$ 3 13.8 124°.32 0°.7/14.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.31 | − 1 48.2 | 2.671 | 3.497 | 10.1 | 21.9 |
| 2 21 | 11 50.96 | − 1 21.1 | 2.602 | 3.512 | 7.3 | 21.7 |
| 3 2 | 11 44.30 | − 0 44.3 | 2.561 | 3.527 | 4.2 | 21.6 |
| 3 12 | 11 36.93 | − 0 1.2 | 2.549 | 3.541 | 1.1 | 21.3 |
| 3 22 | 11 29.47 | + 0 44.0 | 2.567 | 3.554 | 2.6 | 21.5 |
| 4 1 | 11 22.61 | + 1 27.2 | 2.616 | 3.568 | 5.7 | 21.7 |
| 4 11 | 11 16.90 | + 2 4.5 | 2.692 | 3.580 | 8.6 | 21.9 |
| 4 21 | 11 12.72 | + 2 33.2 | 2.792 | 3.593 | 11.0 | 22.1 |

**214151** 2005 $BM_{11}$ 3 13.8 339°.36 4°.2/10.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.08 | + 7 34.3 | 1.168 | 2.057 | 15.8 | 19.5 |
| 2 21 | 11 50.83 | + 8 52.6 | 1.102 | 2.046 | 11.3 | 19.2 |
| 3 2 | 11 44.83 | +10 23.2 | 1.057 | 2.035 | 6.5 | 18.9 |
| 3 12 | 11 37.06 | +11 54.3 | 1.037 | 2.025 | 4.3 | 18.7 |
| 3 22 | 11 28.85 | +13 13.2 | 1.041 | 2.016 | 8.1 | 18.9 |
| 4 1 | 11 21.73 | +14 9.2 | 1.067 | 2.008 | 13.2 | 19.1 |
| 4 11 | 11 16.94 | +14 36.3 | 1.114 | 2.002 | 17.9 | 19.4 |
| 4 21 | 11 15.16 | +14 34.3 | 1.177 | 1.996 | 21.9 | 19.6 |

**281439** 2008 $ST_{70}$ 3 13.8 263°.20 0°.4/13.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.87 | + 0 33.8 | 1.991 | 2.839 | 12.2 | 21.2 |
| 2 21 | 11 51.21 | + 1 25.7 | 1.903 | 2.826 | 8.8 | 21.0 |
| 3 2 | 11 44.71 | + 2 30.9 | 1.840 | 2.813 | 4.9 | 20.7 |
| 3 12 | 11 37.02 | + 3 43.9 | 1.806 | 2.799 | 0.7 | 20.3 |
| 3 22 | 11 29.01 | + 4 57.9 | 1.800 | 2.785 | 3.8 | 20.6 |
| 4 1 | 11 21.61 | + 6 5.9 | 1.822 | 2.771 | 8.0 | 20.8 |
| 4 11 | 11 15.66 | + 7 1.7 | 1.870 | 2.757 | 11.8 | 21.0 |
| 4 21 | 11 11.73 | + 7 41.7 | 1.940 | 2.742 | 15.1 | 21.2 |

**503108** 2015 $FN_{318}$ 3 13.8 205°.18 1°.9/11.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.14 | + 5 37.4 | 2.315 | 3.172 | 10.3 | 21.5 |
| 2 21 | 11 49.68 | + 6 45.6 | 2.242 | 3.171 | 7.3 | 21.3 |
| 3 2 | 11 43.71 | + 8 1.2 | 2.196 | 3.170 | 4.0 | 21.1 |
| 3 12 | 11 36.86 | + 9 18.0 | 2.179 | 3.168 | 2.0 | 20.9 |
| 3 22 | 11 29.84 | +10 29.8 | 2.191 | 3.167 | 4.4 | 21.1 |
| 4 1 | 11 23.40 | +11 30.9 | 2.233 | 3.165 | 7.8 | 21.3 |
| 4 11 | 11 18.22 | +12 17.4 | 2.300 | 3.163 | 10.8 | 21.5 |
| 4 21 | 11 14.73 | +12 47.3 | 2.388 | 3.161 | 13.4 | 21.7 |

**139208** 2001 $FW_{191}$ 3 13.8 274°.17 0°.3/14.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.22 | − 0 41.6 | 1.686 | 2.534 | 14.0 | 21.0 |
| 2 21 | 11 53.25 | − 0 7.8 | 1.595 | 2.516 | 10.3 | 20.7 |
| 3 2 | 11 46.01 | + 0 41.9 | 1.528 | 2.498 | 5.9 | 20.4 |
| 3 12 | 11 37.24 | + 1 42.5 | 1.487 | 2.480 | 1.0 | 20.0 |
| 3 22 | 11 27.99 | + 2 47.0 | 1.474 | 2.462 | 4.0 | 20.2 |
| 4 1 | 11 19.42 | + 3 47.4 | 1.489 | 2.443 | 8.9 | 20.4 |
| 4 11 | 11 12.61 | + 4 36.8 | 1.528 | 2.424 | 13.4 | 20.6 |
| 4 21 | 11 8.24 | + 5 10.4 | 1.587 | 2.405 | 17.2 | 20.8 |

**166061** 2002 $CJ_{54}$ 3 13.8 338°.52 1°.2/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.23 | − 1 25.7 | 1.195 | 2.060 | 17.4 | 19.6 |
| 2 21 | 11 53.11 | − 1 19.1 | 1.122 | 2.050 | 12.9 | 19.3 |
| 3 2 | 11 46.13 | − 0 53.4 | 1.069 | 2.041 | 7.6 | 18.9 |
| 3 12 | 11 37.27 | − 0 13.4 | 1.040 | 2.033 | 2.0 | 18.6 |
| 3 22 | 11 27.90 | + 0 33.4 | 1.036 | 2.025 | 4.7 | 18.7 |
| 4 1 | 11 19.59 | + 1 17.8 | 1.055 | 2.019 | 10.4 | 19.0 |
| 4 11 | 11 13.66 | + 1 51.5 | 1.096 | 2.013 | 15.6 | 19.3 |
| 4 21 | 11 10.85 | + 2 9.1 | 1.155 | 2.009 | 20.1 | 19.5 |

**382293** 2012 $UB_{111}$ 3 13.8 266°.90 2°.8/10.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.08 | + 9 22.9 | 2.229 | 3.091 | 10.5 | 20.9 |
| 2 21 | 11 51.11 | +10 12.2 | 2.157 | 3.088 | 7.4 | 20.7 |
| 3 2 | 11 44.53 | +11 5.2 | 2.112 | 3.084 | 4.3 | 20.5 |
| 3 12 | 11 37.00 | +11 56.2 | 2.095 | 3.081 | 2.8 | 20.3 |
| 3 22 | 11 29.29 | +12 39.5 | 2.107 | 3.077 | 5.1 | 20.5 |
| 4 1 | 11 22.22 | +13 10.5 | 2.147 | 3.074 | 8.4 | 20.7 |
| 4 11 | 11 16.51 | +13 26.6 | 2.212 | 3.070 | 11.4 | 20.9 |
| 4 21 | 11 12.63 | +13 27.0 | 2.299 | 3.067 | 14.0 | 21.0 |

**397879** 2008 $UC_{100}$ 3 13.8 146°.39 0°.1/13.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.79 | + 0 12.4 | 1.781 | 2.623 | 13.7 | 22.3 |
| 2 21 | 11 55.42 | + 0 54.0 | 1.715 | 2.634 | 9.8 | 22.1 |
| 3 2 | 11 47.00 | + 1 48.7 | 1.674 | 2.645 | 5.5 | 21.9 |
| 3 12 | 11 37.37 | + 2 50.5 | 1.661 | 2.655 | 0.8 | 21.6 |
| 3 22 | 11 27.61 | + 3 52.5 | 1.678 | 2.663 | 3.9 | 21.8 |
| 4 1 | 11 18.78 | + 4 47.5 | 1.722 | 2.672 | 8.3 | 22.1 |
| 4 11 | 11 11.79 | + 5 30.2 | 1.792 | 2.679 | 12.2 | 22.3 |
| 4 21 | 11 7.14 | + 5 57.7 | 1.884 | 2.685 | 15.5 | 22.6 |

**77816** 2001 $QE_{161}$ 3 13.8 29°.03 1°.5/15.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.22 | − 2 45.8 | 2.113 | 2.943 | 12.3 | 19.0 |
| 2 21 | 11 52.71 | − 2 46.2 | 2.035 | 2.944 | 9.1 | 18.8 |
| 3 2 | 11 45.45 | − 2 34.8 | 1.982 | 2.945 | 5.5 | 18.6 |
| 3 12 | 11 37.14 | − 2 14.2 | 1.956 | 2.947 | 2.0 | 18.3 |
| 3 22 | 11 28.62 | − 1 48.3 | 1.960 | 2.948 | 3.1 | 18.4 |
| 4 1 | 11 20.78 | − 1 21.7 | 1.992 | 2.949 | 6.8 | 18.7 |
| 4 11 | 11 14.41 | − 0 58.9 | 2.051 | 2.950 | 10.3 | 18.9 |
| 4 21 | 11 9.99 | − 0 43.4 | 2.132 | 2.952 | 13.3 | 19.1 |

**158985** 2004 $RB_{330}$ 3 13.8 255°.65 2°.9/16.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.06 | − 7 29.5 | 1.745 | 2.564 | 14.9 | 21.6 |
| 2 21 | 11 54.64 | − 7 9.8 | 1.643 | 2.543 | 11.5 | 21.3 |
| 3 2 | 11 46.84 | − 6 28.7 | 1.564 | 2.520 | 7.5 | 21.0 |
| 3 12 | 11 37.39 | − 5 28.5 | 1.511 | 2.497 | 3.6 | 20.7 |
| 3 22 | 11 27.33 | − 4 14.6 | 1.487 | 2.474 | 4.1 | 20.7 |
| 4 1 | 11 17.86 | − 2 55.2 | 1.490 | 2.449 | 8.4 | 20.9 |
| 4 11 | 11 10.12 | − 1 39.3 | 1.519 | 2.424 | 12.9 | 21.1 |
| 4 21 | 11 4.87 | − 0 34.2 | 1.570 | 2.398 | 16.9 | 21.3 |

**61494** 2000 $QG_{49}$ 3 13.8 202°.13 0°.2/14.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.51 | − 0 7.1 | 2.073 | 2.913 | 12.1 | 19.9 |
| 2 21 | 11 52.97 | + 0 19.8 | 1.993 | 2.910 | 8.8 | 19.7 |
| 3 2 | 11 45.62 | + 0 58.0 | 1.938 | 2.907 | 5.0 | 19.5 |
| 3 12 | 11 37.17 | + 1 43.4 | 1.911 | 2.904 | 0.9 | 19.2 |
| 3 22 | 11 28.48 | + 2 30.8 | 1.913 | 2.900 | 3.4 | 19.3 |
| 4 1 | 11 20.47 | + 3 14.4 | 1.945 | 2.896 | 7.4 | 19.6 |
| 4 11 | 11 13.95 | + 3 49.5 | 2.002 | 2.892 | 11.0 | 19.8 |
| 4 21 | 11 9.43 | + 4 12.8 | 2.082 | 2.887 | 14.1 | 20.0 |

**299271** 2005 $NU_{85}$ 3 13.8 35°.76 4°.1/18.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.37 | −11 8.9 | 2.169 | 2.965 | 13.2 | 20.1 |
| 2 21 | 11 51.39 | −11 19.0 | 2.089 | 2.969 | 10.4 | 19.9 |
| 3 2 | 11 44.73 | −11 11.5 | 2.033 | 2.972 | 7.4 | 19.7 |
| 3 12 | 11 37.04 | −10 47.6 | 2.003 | 2.976 | 4.7 | 19.6 |
| 3 22 | 11 29.12 | −10 10.5 | 2.001 | 2.980 | 4.4 | 19.6 |
| 4 1 | 11 21.86 | − 9 25.3 | 2.027 | 2.984 | 6.7 | 19.7 |
| 4 11 | 11 16.00 | − 8 37.8 | 2.080 | 2.988 | 9.8 | 19.9 |
| 4 21 | 11 12.03 | − 7 53.5 | 2.156 | 2.992 | 12.6 | 20.1 |

**489265** 2006 $ST_{10}$ 3 13.8 137°.41 4°.1/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.37 | −13 14.9 | 2.407 | 3.188 | 12.5 | 21.2 |
| 2 21 | 11 50.55 | −13 9.9 | 2.324 | 3.192 | 10.0 | 21.0 |
| 3 2 | 11 44.21 | −12 46.8 | 2.264 | 3.196 | 7.2 | 20.8 |
| 3 12 | 11 36.95 | −12 6.9 | 2.232 | 3.200 | 4.8 | 20.7 |
| 3 22 | 11 29.51 | −11 13.8 | 2.227 | 3.204 | 4.3 | 20.6 |
| 4 1 | 11 22.65 | −10 12.4 | 2.252 | 3.207 | 6.3 | 20.8 |
| 4 11 | 11 17.05 | − 9 9.0 | 2.304 | 3.210 | 9.0 | 21.0 |
| 4 21 | 11 13.15 | − 8 8.9 | 2.380 | 3.214 | 11.6 | 21.1 |

**169472** 2002 $CN_{98}$ 3 13.8 312°.31 0°.6/14.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.69 | + 0 13.2 | 1.380 | 2.237 | 16.0 | 19.6 |
| 2 21 | 11 55.34 | + 0 16.1 | 1.303 | 2.228 | 11.7 | 19.3 |
| 3 2 | 11 47.28 | + 0 33.4 | 1.248 | 2.220 | 6.8 | 19.0 |
| 3 12 | 11 37.46 | + 1 0.8 | 1.218 | 2.211 | 1.4 | 18.6 |
| 3 22 | 11 27.16 | + 1 32.0 | 1.214 | 2.203 | 4.4 | 18.8 |
| 4 1 | 11 17.84 | + 1 59.8 | 1.236 | 2.195 | 9.8 | 19.1 |
| 4 11 | 11 10.73 | + 2 18.0 | 1.281 | 2.187 | 14.7 | 19.4 |
| 4 21 | 11 6.56 | + 2 22.6 | 1.345 | 2.180 | 18.8 | 19.6 |

**489746** 2007 $YU_{5}$ 3 13.8 54°.70 5°.0/19.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.85 | −14 35.3 | 2.162 | 2.942 | 13.8 | 21.2 |
| 2 21 | 11 51.04 | −14 43.8 | 2.083 | 2.947 | 11.1 | 21.0 |
| 3 2 | 11 44.54 | −14 32.1 | 2.026 | 2.953 | 8.3 | 20.9 |
| 3 12 | 11 37.01 | −14 1.0 | 1.995 | 2.958 | 5.8 | 20.7 |
| 3 22 | 11 29.27 | −13 13.6 | 1.992 | 2.964 | 5.2 | 20.7 |
| 4 1 | 11 22.19 | −12 15.4 | 2.016 | 2.970 | 7.0 | 20.8 |
| 4 11 | 11 16.52 | −11 13.0 | 2.067 | 2.976 | 9.8 | 21.0 |
| 4 21 | 11 12.76 | −10 12.9 | 2.141 | 2.982 | 12.5 | 21.2 |

**368235** 2001 $UJ_{96}$ 3 13.8 89°.39 6°.1/21.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.07 | −19 54.6 | 1.839 | 2.599 | 16.5 | 20.6 |
| 2 21 | 11 50.71 | −19 15.9 | 1.760 | 2.608 | 13.6 | 20.4 |
| 3 2 | 11 44.42 | −18 6.1 | 1.702 | 2.617 | 10.4 | 20.2 |
| 3 12 | 11 36.99 | −16 27.0 | 1.669 | 2.626 | 7.4 | 20.0 |
| 3 22 | 11 29.39 | −14 24.8 | 1.663 | 2.634 | 6.2 | 20.0 |
| 4 1 | 11 22.61 | −12 9.4 | 1.686 | 2.643 | 7.8 | 20.1 |
| 4 11 | 11 17.50 | − 9 52.5 | 1.735 | 2.651 | 10.9 | 20.3 |
| 4 21 | 11 14.57 | − 7 44.6 | 1.809 | 2.660 | 14.0 | 20.5 |

**31038** 1996 $HG_{26}$ 3 13.8 47°.14 2°.7/16.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.58 | − 7 29.2 | 1.296 | 2.139 | 17.7 | 18.1 |
| 2 21 | 11 52.29 | − 6 50.9 | 1.233 | 2.146 | 13.4 | 17.9 |
| 3 2 | 11 45.48 | − 5 45.8 | 1.192 | 2.154 | 8.4 | 17.6 |
| 3 12 | 11 37.17 | − 4 19.4 | 1.175 | 2.163 | 3.6 | 17.4 |
| 3 22 | 11 28.63 | − 2 41.7 | 1.183 | 2.172 | 4.3 | 17.4 |
| 4 1 | 11 21.22 | − 1 4.3 | 1.217 | 2.181 | 9.2 | 17.7 |
| 4 11 | 11 16.02 | + 0 21.6 | 1.274 | 2.191 | 13.9 | 18.0 |
| 4 21 | 11 13.59 | + 1 28.9 | 1.351 | 2.200 | 17.9 | 18.3 |

**274315** 2008 $QG_{45}$ 3 13.8 174°.60 3°.2/17.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.73 | −10 28.4 | 2.446 | 3.238 | 12.0 | 21.1 |
| 2 21 | 11 51.49 | −10 12.1 | 2.360 | 3.241 | 9.3 | 20.9 |
| 3 2 | 11 44.72 | − 9 39.1 | 2.300 | 3.243 | 6.4 | 20.8 |
| 3 12 | 11 37.04 | − 8 51.5 | 2.267 | 3.244 | 3.8 | 20.6 |
| 3 22 | 11 29.16 | − 7 53.3 | 2.263 | 3.245 | 3.6 | 20.6 |
| 4 1 | 11 21.86 | − 6 49.6 | 2.289 | 3.246 | 6.1 | 20.7 |
| 4 11 | 11 15.81 | − 5 46.5 | 2.343 | 3.246 | 9.0 | 20.9 |
| 4 21 | 11 11.47 | − 4 48.9 | 2.421 | 3.245 | 11.8 | 21.1 |

**399667** 2004 $RV_{266}$ 3 13.8 238°.89 1°.2/14.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.50 | − 1 40.6 | 1.512 | 2.358 | 15.5 | 21.9 |
| 2 21 | 11 55.72 | − 1 31.1 | 1.434 | 2.353 | 11.4 | 21.6 |
| 3 2 | 11 47.41 | − 1 5.6 | 1.379 | 2.348 | 6.7 | 21.4 |
| 3 12 | 11 37.48 | − 0 28.3 | 1.350 | 2.342 | 1.8 | 21.0 |
| 3 22 | 11 27.14 | + 0 14.6 | 1.349 | 2.337 | 4.1 | 21.2 |
| 4 1 | 11 17.75 | + 0 55.7 | 1.374 | 2.331 | 9.1 | 21.4 |
| 4 11 | 11 10.42 | + 1 28.4 | 1.423 | 2.325 | 13.7 | 21.7 |
| 4 21 | 11 5.84 | + 1 48.2 | 1.492 | 2.319 | 17.6 | 21.9 |

**63905** 2001 $SF_{18}$ 3 13.8 38°.50 2°.0/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.36 | + 5 15.9 | 1.222 | 2.096 | 16.5 | 18.8 |
| 2 21 | 11 55.81 | + 5 46.3 | 1.166 | 2.102 | 11.7 | 18.6 |
| 3 2 | 11 47.47 | + 6 27.0 | 1.132 | 2.108 | 6.4 | 18.3 |
| 3 12 | 11 37.48 | + 7 9.9 | 1.123 | 2.115 | 2.0 | 18.0 |
| 3 22 | 11 27.32 | + 7 46.4 | 1.139 | 2.123 | 5.9 | 18.3 |
| 4 1 | 11 18.49 | + 8 9.2 | 1.180 | 2.130 | 11.2 | 18.6 |
| 4 11 | 11 12.15 | + 8 14.1 | 1.242 | 2.138 | 15.8 | 18.9 |
| 4 21 | 11 8.88 | + 8 0.4 | 1.323 | 2.147 | 19.7 | 19.2 |

**176011** 2000 $RF_{90}$ 3 13.8 117°.09 1°.1/15.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.21 | − 4 35.5 | 2.677 | 3.497 | 10.3 | 20.6 |
| 2 21 | 11 49.50 | − 3 53.4 | 2.606 | 3.510 | 7.6 | 20.5 |
| 3 2 | 11 43.54 | − 2 59.3 | 2.562 | 3.524 | 4.6 | 20.3 |
| 3 12 | 11 36.86 | − 1 56.9 | 2.547 | 3.537 | 1.6 | 20.1 |
| 3 22 | 11 30.11 | − 0 50.8 | 2.562 | 3.550 | 2.5 | 20.2 |
| 4 1 | 11 23.91 | + 0 14.0 | 2.608 | 3.563 | 5.5 | 20.4 |
| 4 11 | 11 18.81 | + 1 12.8 | 2.681 | 3.575 | 8.4 | 20.6 |
| 4 21 | 11 15.19 | + 2 2.3 | 2.779 | 3.587 | 10.9 | 20.8 |

**470420** 2007 $VO_{162}$ 3 13.8 294°.06 1°.8/15.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.44 | − 4 56.0 | 2.126 | 2.953 | 12.3 | 21.2 |
| 2 21 | 11 50.81 | − 4 39.4 | 2.038 | 2.944 | 9.3 | 21.0 |
| 3 2 | 11 44.46 | − 4 8.1 | 1.974 | 2.935 | 5.8 | 20.8 |
| 3 12 | 11 37.03 | − 3 24.9 | 1.937 | 2.925 | 2.4 | 20.5 |
| 3 22 | 11 29.31 | − 2 34.5 | 1.928 | 2.916 | 3.2 | 20.6 |
| 4 1 | 11 22.18 | − 1 42.5 | 1.949 | 2.907 | 6.8 | 20.8 |
| 4 11 | 11 16.41 | − 0 54.7 | 1.995 | 2.898 | 10.4 | 21.0 |
| 4 21 | 11 12.53 | − 0 15.7 | 2.064 | 2.889 | 13.5 | 21.2 |

**279877** 2001 $PQ_{8}$ 3 13.8 97°.74 4°.2/ 7.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.98 | +14 37.8 | 2.641 | 3.503 | 9.1 | 20.2 |
| 2 21 | 11 50.73 | +16 15.5 | 2.604 | 3.530 | 6.6 | 20.1 |
| 3 2 | 11 44.19 | +17 51.6 | 2.596 | 3.557 | 4.6 | 20.0 |
| 3 12 | 11 36.97 | +19 19.4 | 2.618 | 3.583 | 4.4 | 20.1 |
| 3 22 | 11 29.74 | +20 33.5 | 2.670 | 3.609 | 6.2 | 20.2 |
| 4 1 | 11 23.16 | +21 29.9 | 2.751 | 3.634 | 8.5 | 20.4 |
| 4 11 | 11 17.80 | +22 7.3 | 2.856 | 3.659 | 10.7 | 20.6 |
| 4 21 | 11 14.01 | +22 26.3 | 2.983 | 3.683 | 12.5 | 20.7 |

**60538** 2000 $EX_{60}$ 3 13.8 182°.13 0°.8/14.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.11 | − 2 52.0 | 2.393 | 3.217 | 11.2 | 19.9 |
| 2 21 | 11 52.49 | − 2 11.5 | 2.310 | 3.219 | 8.2 | 19.7 |
| 3 2 | 11 45.29 | − 1 18.4 | 2.254 | 3.219 | 4.8 | 19.5 |
| 3 12 | 11 37.16 | − 0 16.7 | 2.227 | 3.219 | 1.3 | 19.3 |
| 3 22 | 11 28.83 | + 0 48.6 | 2.230 | 3.218 | 2.9 | 19.4 |
| 4 1 | 11 21.10 | + 1 51.7 | 2.264 | 3.216 | 6.5 | 19.6 |
| 4 11 | 11 14.66 | + 2 47.5 | 2.325 | 3.213 | 9.7 | 19.8 |
| 4 21 | 11 9.98 | + 3 32.2 | 2.410 | 3.210 | 12.6 | 20.0 |

**140110** 2001 $SD_{136}$ 3 13.8 264°.39 1°.5/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.13 | + 6 52.8 | 2.226 | 3.077 | 11.0 | 19.9 |
| 2 21 | 11 54.03 | + 7 4.6 | 2.146 | 3.071 | 7.8 | 19.6 |
| 3 2 | 11 46.19 | + 7 20.5 | 2.092 | 3.065 | 4.3 | 19.4 |
| 3 12 | 11 37.30 | + 7 36.5 | 2.068 | 3.059 | 1.5 | 19.2 |
| 3 22 | 11 28.20 | + 7 48.4 | 2.073 | 3.053 | 4.1 | 19.4 |
| 4 1 | 11 19.77 | + 7 52.7 | 2.108 | 3.048 | 7.7 | 19.6 |
| 4 11 | 11 12.79 | + 7 46.8 | 2.168 | 3.042 | 11.0 | 19.8 |
| 4 21 | 11 7.75 | + 7 30.0 | 2.251 | 3.036 | 13.8 | 20.0 |

**459183** 2012 $DS_{39}$ 3 13.8 165°.26 1°.4/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.43 | − 3 20.7 | 2.445 | 3.261 | 11.3 | 21.1 |
| 2 21 | 11 54.79 | − 3 11.7 | 2.366 | 3.268 | 8.4 | 20.9 |
| 3 2 | 11 46.54 | − 2 51.5 | 2.313 | 3.274 | 5.1 | 20.7 |
| 3 12 | 11 37.36 | − 2 22.9 | 2.289 | 3.279 | 1.8 | 20.5 |
| 3 22 | 11 28.00 | − 1 49.4 | 2.297 | 3.284 | 2.9 | 20.6 |
| 4 1 | 11 19.29 | − 1 15.5 | 2.335 | 3.287 | 6.2 | 20.8 |
| 4 11 | 11 11.94 | − 0 45.4 | 2.400 | 3.290 | 9.4 | 21.0 |
| 4 21 | 11 6.41 | − 0 22.4 | 2.490 | 3.292 | 12.1 | 21.2 |

**507479** 2012 $TP_{288}$ 3 13.8 138°.06 3°.2/17.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.06 | −10 42.7 | 2.601 | 3.390 | 11.4 | 21.9 |
| 2 21 | 11 50.91 | −10 33.7 | 2.522 | 3.399 | 8.9 | 21.8 |
| 3 2 | 11 44.37 | −10 9.3 | 2.467 | 3.408 | 6.2 | 21.6 |
| 3 12 | 11 37.02 | − 9 31.5 | 2.440 | 3.416 | 3.8 | 21.5 |
| 3 22 | 11 29.53 | − 8 43.6 | 2.443 | 3.424 | 3.5 | 21.4 |
| 4 1 | 11 22.59 | − 7 50.2 | 2.475 | 3.431 | 5.7 | 21.6 |
| 4 11 | 11 16.84 | − 6 56.5 | 2.535 | 3.438 | 8.4 | 21.8 |
| 4 21 | 11 12.68 | − 6 7.1 | 2.620 | 3.445 | 11.0 | 22.0 |

**467318** 2000 $SC_{29}$ 3 13.8 250°.60 4°.0/18.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.06 | −12 48.4 | 2.729 | 3.503 | 11.4 | 21.6 |
| 2 21 | 11 51.76 | −12 57.8 | 2.622 | 3.486 | 9.1 | 21.4 |
| 3 2 | 11 44.94 | −12 51.9 | 2.539 | 3.468 | 6.7 | 21.2 |
| 3 12 | 11 37.14 | −12 31.2 | 2.484 | 3.450 | 4.5 | 21.1 |
| 3 22 | 11 29.00 | −11 57.8 | 2.457 | 3.431 | 4.2 | 21.0 |
| 4 1 | 11 21.26 | −11 15.3 | 2.461 | 3.412 | 6.1 | 21.1 |
| 4 11 | 11 14.61 | −10 28.7 | 2.492 | 3.393 | 8.7 | 21.2 |
| 4 21 | 11 9.53 | − 9 42.7 | 2.548 | 3.373 | 11.2 | 21.4 |

**67870** 2000 $WG_{32}$ 3 13.8 204°.40 3°.6/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.33 | + 8 59.4 | 1.790 | 2.654 | 12.5 | 19.7 |
| 2 21 | 11 53.82 | +10 17.1 | 1.719 | 2.651 | 8.9 | 19.5 |
| 3 2 | 11 46.22 | +11 41.2 | 1.675 | 2.647 | 5.2 | 19.3 |
| 3 12 | 11 37.33 | +13 3.2 | 1.658 | 2.642 | 3.7 | 19.2 |
| 3 22 | 11 28.18 | +14 14.6 | 1.670 | 2.637 | 6.5 | 19.3 |
| 4 1 | 11 19.85 | +15 8.2 | 1.709 | 2.632 | 10.4 | 19.5 |
| 4 11 | 11 13.26 | +15 40.6 | 1.771 | 2.625 | 14.0 | 19.7 |
| 4 21 | 11 9.00 | +15 51.0 | 1.854 | 2.619 | 17.0 | 19.9 |

**301589** 2010 $CS_{28}$ 3 13.8 320°.66 0°.7/13.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.39 | + 2 34.2 | 1.235 | 2.104 | 16.7 | 21.1 |
| 2 21 | 11 55.35 | + 2 52.6 | 1.163 | 2.096 | 12.1 | 20.8 |
| 3 2 | 11 47.40 | + 3 25.0 | 1.113 | 2.088 | 6.7 | 20.4 |
| 3 12 | 11 37.55 | + 4 5.1 | 1.087 | 2.080 | 1.1 | 20.0 |
| 3 22 | 11 27.22 | + 4 44.7 | 1.086 | 2.072 | 5.3 | 20.3 |
| 4 1 | 11 17.99 | + 5 15.5 | 1.109 | 2.066 | 11.0 | 20.6 |
| 4 11 | 11 11.19 | + 5 31.1 | 1.154 | 2.059 | 16.1 | 20.9 |
| 4 21 | 11 7.54 | + 5 28.8 | 1.218 | 2.053 | 20.3 | 21.1 |

**208496** 2001 $VW_{96}$ 3 13.8 110°.86 0°.8/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.24 | − 3 52.9 | 2.628 | 3.452 | 10.4 | 20.5 |
| 2 21 | 11 49.54 | − 3 1.1 | 2.561 | 3.468 | 7.6 | 20.4 |
| 3 2 | 11 43.58 | − 1 57.3 | 2.520 | 3.484 | 4.4 | 20.2 |
| 3 12 | 11 36.92 | − 0 45.8 | 2.508 | 3.499 | 1.3 | 20.0 |
| 3 22 | 11 30.18 | + 0 28.4 | 2.527 | 3.515 | 2.5 | 20.1 |
| 4 1 | 11 24.02 | + 1 39.9 | 2.576 | 3.530 | 5.7 | 20.3 |
| 4 11 | 11 18.98 | + 2 44.0 | 2.653 | 3.544 | 8.6 | 20.6 |
| 4 21 | 11 15.44 | + 3 37.2 | 2.754 | 3.558 | 11.1 | 20.7 |

**502237** 2015 $BO_{91}$ 3 13.8 80°.47 4°.3/ 8.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 55.47 | +11 1.2 | 1.923 | 2.794 | 11.5 | 20.9 |
| 2 21 | 11 50.81 | +12 48.3 | 1.876 | 2.809 | 8.1 | 20.7 |
| 3 2 | 11 44.41 | +14 38.2 | 1.855 | 2.825 | 5.2 | 20.5 |
| 3 12 | 11 37.05 | +16 21.5 | 1.863 | 2.840 | 4.6 | 20.5 |
| 3 22 | 11 29.62 | +17 49.8 | 1.900 | 2.855 | 7.0 | 20.7 |
| 4 1 | 11 23.01 | +18 57.1 | 1.964 | 2.870 | 10.2 | 20.9 |
| 4 11 | 11 17.96 | +19 40.7 | 2.051 | 2.885 | 13.1 | 21.1 |
| 4 21 | 11 14.91 | +20 1.0 | 2.158 | 2.900 | 15.6 | 21.3 |

**111729** 2002 $CX_{52}$ 3 13.8 353°.80 1°.0/12.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.56 | + 2 34.6 | 2.099 | 2.954 | 11.4 | 19.7 |
| 2 21 | 11 49.42 | + 3 25.7 | 2.025 | 2.952 | 8.1 | 19.4 |
| 3 2 | 11 43.67 | + 4 26.8 | 1.977 | 2.950 | 4.4 | 19.2 |
| 3 12 | 11 36.95 | + 5 32.4 | 1.956 | 2.949 | 1.0 | 19.0 |
| 3 22 | 11 30.05 | + 6 36.1 | 1.965 | 2.948 | 3.8 | 19.2 |
| 4 1 | 11 23.78 | + 7 32.0 | 2.002 | 2.948 | 7.6 | 19.4 |
| 4 11 | 11 18.87 | + 8 15.4 | 2.064 | 2.947 | 11.0 | 19.6 |
| 4 21 | 11 15.77 | + 8 43.7 | 2.148 | 2.947 | 13.9 | 19.8 |

**308534** 2005 $UO_{134}$ 3 13.8 248°.06 1°.6/15.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.25 | − 5 20.8 | 2.878 | 3.690 | 9.9 | 21.8 |
| 2 21 | 11 50.35 | − 5 3.2 | 2.775 | 3.673 | 7.4 | 21.6 |
| 3 2 | 11 44.11 | − 4 34.1 | 2.698 | 3.656 | 4.7 | 21.4 |
| 3 12 | 11 37.03 | − 3 55.6 | 2.651 | 3.638 | 2.0 | 21.2 |
| 3 22 | 11 29.69 | − 3 11.2 | 2.633 | 3.620 | 2.6 | 21.2 |
| 4 1 | 11 22.74 | − 2 24.7 | 2.646 | 3.602 | 5.4 | 21.3 |
| 4 11 | 11 16.78 | − 1 40.6 | 2.687 | 3.583 | 8.3 | 21.5 |
| 4 21 | 11 12.25 | − 1 2.4 | 2.752 | 3.563 | 10.9 | 21.6 |

**298647** 2004 $BG_{102}$ 3 13.8 314°.13 3°.9/16.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.83 | − 7 27.7 | 1.955 | 2.768 | 13.8 | 19.7 |
| 2 21 | 11 54.24 | − 8 4.0 | 1.858 | 2.751 | 10.8 | 19.4 |
| 3 2 | 11 46.55 | − 8 25.9 | 1.784 | 2.734 | 7.4 | 19.2 |
| 3 12 | 11 37.43 | − 8 33.6 | 1.737 | 2.717 | 4.4 | 19.0 |
| 3 22 | 11 27.82 | − 8 29.1 | 1.719 | 2.701 | 4.5 | 18.9 |
| 4 1 | 11 18.78 | − 8 16.0 | 1.728 | 2.685 | 7.7 | 19.1 |
| 4 11 | 11 11.29 | − 7 59.7 | 1.763 | 2.669 | 11.3 | 19.3 |
| 4 21 | 11 6.03 | − 7 45.1 | 1.820 | 2.654 | 14.7 | 19.4 |

**366935** 2005 $UG_{485}$ 3 13.8 155°.42 1°.1/12.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.18 | + 3 29.3 | 2.347 | 3.191 | 10.7 | 22.4 |
| 2 21 | 11 52.51 | + 4 21.2 | 2.278 | 3.200 | 7.6 | 22.3 |
| 3 2 | 11 45.30 | + 5 21.0 | 2.236 | 3.208 | 4.1 | 22.0 |
| 3 12 | 11 37.21 | + 6 23.4 | 2.224 | 3.216 | 1.1 | 21.8 |
| 3 22 | 11 28.99 | + 7 22.8 | 2.242 | 3.223 | 3.7 | 22.0 |
| 4 1 | 11 21.44 | + 8 14.1 | 2.289 | 3.229 | 7.2 | 22.3 |
| 4 11 | 11 15.23 | + 8 53.4 | 2.364 | 3.234 | 10.3 | 22.5 |
| 4 21 | 11 10.79 | + 9 18.9 | 2.461 | 3.239 | 12.9 | 22.7 |

**126362** 2002 $AG_{181}$ 3 13.8 136°.69 6°.8/ 6.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.11 | +21 39.6 | 2.021 | 2.881 | 11.5 | 19.9 |
| 2 21 | 11 55.53 | +22 44.4 | 1.973 | 2.889 | 8.9 | 19.8 |
| 3 2 | 11 47.02 | +23 41.6 | 1.950 | 2.897 | 7.1 | 19.7 |
| 3 12 | 11 37.47 | +24 23.5 | 1.955 | 2.904 | 7.1 | 19.7 |
| 3 22 | 11 27.88 | +24 44.6 | 1.988 | 2.911 | 8.9 | 19.8 |
| 4 1 | 11 19.27 | +24 42.5 | 2.046 | 2.918 | 11.5 | 20.0 |
| 4 11 | 11 12.44 | +24 17.8 | 2.127 | 2.924 | 14.0 | 20.2 |
| 4 21 | 11 7.86 | +23 33.6 | 2.227 | 2.930 | 16.2 | 20.3 |

**83312** 2001 $RF_{114}$ 3 13.8 90°.21 1°.7/11.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.83 | + 5 33.8 | 2.253 | 3.109 | 10.7 | 19.7 |
| 2 21 | 11 50.84 | + 6 27.7 | 2.196 | 3.123 | 7.5 | 19.5 |
| 3 2 | 11 44.37 | + 7 27.8 | 2.164 | 3.138 | 4.1 | 19.3 |
| 3 12 | 11 37.07 | + 8 28.3 | 2.162 | 3.152 | 1.7 | 19.2 |
| 3 22 | 11 29.70 | + 9 23.6 | 2.189 | 3.167 | 4.2 | 19.4 |
| 4 1 | 11 23.04 | +10 8.8 | 2.245 | 3.181 | 7.5 | 19.6 |
| 4 11 | 11 17.72 | +10 40.6 | 2.326 | 3.195 | 10.5 | 19.8 |
| 4 21 | 11 14.15 | +10 57.6 | 2.429 | 3.208 | 13.1 | 20.0 |

**368599** 2004 $RA_{160}$ 3 13.8 123°.24 1°.8/16.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.44 | − 6 1.3 | 2.770 | 3.572 | 10.5 | 21.7 |
| 2 21 | 11 53.14 | − 5 44.5 | 2.704 | 3.596 | 7.8 | 21.6 |
| 3 2 | 11 45.55 | − 5 16.1 | 2.664 | 3.619 | 4.9 | 21.4 |
| 3 12 | 11 37.25 | − 4 38.6 | 2.655 | 3.641 | 2.2 | 21.3 |
| 3 22 | 11 28.91 | − 3 55.8 | 2.676 | 3.662 | 2.6 | 21.3 |
| 4 1 | 11 21.20 | − 3 11.7 | 2.728 | 3.682 | 5.4 | 21.6 |
| 4 11 | 11 14.69 | − 2 30.5 | 2.809 | 3.702 | 8.1 | 21.8 |
| 4 21 | 11 9.75 | − 1 55.4 | 2.915 | 3.720 | 10.5 | 21.9 |

**502667** 2015 $CB_{53}$ 3 13.8 143°.78 1°.3/12.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.63 | + 3 21.4 | 2.206 | 3.060 | 10.9 | 20.9 |
| 2 21 | 11 50.11 | + 4 24.3 | 2.135 | 3.062 | 7.7 | 20.7 |
| 3 2 | 11 44.03 | + 5 36.4 | 2.090 | 3.064 | 4.2 | 20.5 |
| 3 12 | 11 37.03 | + 6 51.7 | 2.074 | 3.066 | 1.3 | 20.3 |
| 3 22 | 11 29.86 | + 8 3.9 | 2.087 | 3.067 | 4.0 | 20.5 |
| 4 1 | 11 23.33 | + 9 6.9 | 2.129 | 3.069 | 7.6 | 20.7 |
| 4 11 | 11 18.12 | + 9 56.2 | 2.196 | 3.071 | 10.8 | 20.9 |
| 4 21 | 11 14.67 | +10 29.6 | 2.286 | 3.072 | 13.6 | 21.1 |

**128450** 2004 $NX_{24}$ 3 13.8 115°.41 6°.7/18.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 9.76 | −13 3.7 | 1.684 | 2.465 | 17.0 | 19.6 |
| 2 21 | 12 1.45 | −14 11.6 | 1.615 | 2.480 | 13.7 | 19.4 |
| 3 2 | 11 50.55 | −14 58.3 | 1.569 | 2.495 | 10.2 | 19.2 |
| 3 12 | 11 38.05 | −15 21.6 | 1.549 | 2.510 | 7.3 | 19.1 |
| 3 22 | 11 25.26 | −15 22.6 | 1.557 | 2.524 | 6.9 | 19.1 |
| 4 1 | 11 13.56 | −15 5.9 | 1.593 | 2.538 | 9.3 | 19.3 |
| 4 11 | 11 4.10 | −14 39.0 | 1.655 | 2.551 | 12.5 | 19.5 |
| 4 21 | 10 57.52 | −14 9.6 | 1.738 | 2.563 | 15.6 | 19.7 |

**366808** 2005 $CX_{16}$ 3 13.8 0°.56 1°.0/14.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.87 | − 1 0.9 | 1.229 | 2.094 | 17.1 | 20.5 |
| 2 21 | 11 53.44 | − 0 51.2 | 1.163 | 2.092 | 12.5 | 20.2 |
| 3 2 | 11 46.28 | − 0 23.5 | 1.119 | 2.091 | 7.3 | 19.9 |
| 3 12 | 11 37.41 | + 0 17.0 | 1.098 | 2.090 | 1.8 | 19.5 |
| 3 22 | 11 28.18 | + 1 2.4 | 1.102 | 2.091 | 4.5 | 19.7 |
| 4 1 | 11 20.09 | + 1 44.3 | 1.130 | 2.092 | 10.0 | 20.0 |
| 4 11 | 11 14.34 | + 2 14.9 | 1.181 | 2.095 | 15.0 | 20.3 |
| 4 21 | 11 11.57 | + 2 29.9 | 1.250 | 2.098 | 19.2 | 20.6 |

**379025** 2008 $VE_{39}$ 3 13.8 143°.49 0°.2/13.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.11 | + 1 4.0 | 2.202 | 3.045 | 11.4 | 21.5 |
| 2 21 | 11 51.86 | + 1 35.7 | 2.129 | 3.049 | 8.2 | 21.3 |
| 3 2 | 11 45.00 | + 2 17.1 | 2.083 | 3.053 | 4.5 | 21.1 |
| 3 12 | 11 37.18 | + 3 3.7 | 2.064 | 3.057 | 0.7 | 20.8 |
| 3 22 | 11 29.21 | + 3 50.6 | 2.075 | 3.061 | 3.3 | 21.0 |
| 4 1 | 11 21.92 | + 4 32.6 | 2.115 | 3.065 | 7.0 | 21.3 |
| 4 11 | 11 16.00 | + 5 5.3 | 2.182 | 3.068 | 10.4 | 21.5 |
| 4 21 | 11 11.92 | + 5 26.3 | 2.271 | 3.071 | 13.2 | 21.7 |

**235462** 2003 $YN_{165}$ 3 13.8 56°.96 1°.0/12.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.02 | + 3 2.2 | 1.980 | 2.835 | 12.0 | 20.6 |
| 2 21 | 11 51.22 | + 3 46.9 | 1.913 | 2.839 | 8.5 | 20.4 |
| 3 2 | 11 44.68 | + 4 41.2 | 1.870 | 2.844 | 4.6 | 20.1 |
| 3 12 | 11 37.14 | + 5 39.2 | 1.856 | 2.849 | 1.1 | 19.9 |
| 3 22 | 11 29.44 | + 6 34.7 | 1.870 | 2.854 | 4.0 | 20.1 |
| 4 1 | 11 22.48 | + 7 21.9 | 1.913 | 2.859 | 7.9 | 20.3 |
| 4 11 | 11 17.01 | + 7 56.4 | 1.980 | 2.864 | 11.4 | 20.6 |
| 4 21 | 11 13.52 | + 8 15.9 | 2.069 | 2.869 | 14.4 | 20.8 |

**491106** 2011 $SL_{49}$ 3 13.8 231°.60 0°.7/14.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.54 | − 2 1.7 | 1.694 | 2.534 | 14.4 | 22.8 |
| 2 21 | 11 54.92 | − 1 26.7 | 1.606 | 2.523 | 10.6 | 22.5 |
| 3 2 | 11 46.98 | − 0 34.7 | 1.543 | 2.511 | 6.2 | 22.2 |
| 3 12 | 11 37.52 | + 0 29.5 | 1.506 | 2.499 | 1.4 | 21.9 |
| 3 22 | 11 27.61 | + 1 38.7 | 1.498 | 2.486 | 3.9 | 22.0 |
| 4 1 | 11 18.46 | + 2 44.8 | 1.518 | 2.472 | 8.8 | 22.3 |
| 4 11 | 11 11.12 | + 3 40.4 | 1.563 | 2.458 | 13.2 | 22.5 |
| 4 21 | 11 6.28 | + 4 20.7 | 1.628 | 2.443 | 16.9 | 22.7 |

**243770** 2000 $RU_{79}$ 3 13.8 201°.89 0°.3/13.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.85 | + 2 1.0 | 2.823 | 3.661 | 9.3 | 21.4 |
| 2 21 | 11 50.72 | + 2 31.3 | 2.739 | 3.657 | 6.7 | 21.2 |
| 3 2 | 11 44.29 | + 3 8.8 | 2.682 | 3.652 | 3.7 | 21.0 |
| 3 12 | 11 37.08 | + 3 50.0 | 2.655 | 3.648 | 0.6 | 20.7 |
| 3 22 | 11 29.70 | + 4 31.0 | 2.658 | 3.643 | 2.8 | 20.9 |
| 4 1 | 11 22.80 | + 5 8.0 | 2.692 | 3.637 | 5.9 | 21.1 |
| 4 11 | 11 16.95 | + 5 37.5 | 2.753 | 3.631 | 8.7 | 21.3 |
| 4 21 | 11 12.56 | + 5 57.5 | 2.838 | 3.625 | 11.2 | 21.5 |

**275561** 1999 $RD_{139}$ 3 13.8 248°.45 1°.6/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.32 | − 3 42.0 | 1.505 | 2.345 | 15.8 | 20.5 |
| 2 21 | 11 55.79 | − 3 20.5 | 1.416 | 2.330 | 11.9 | 20.2 |
| 3 2 | 11 47.61 | − 2 39.0 | 1.350 | 2.316 | 7.2 | 19.9 |
| 3 12 | 11 37.64 | − 1 41.7 | 1.309 | 2.300 | 2.4 | 19.6 |
| 3 22 | 11 27.07 | − 0 35.3 | 1.296 | 2.284 | 4.2 | 19.6 |
| 4 1 | 11 17.30 | + 0 31.2 | 1.309 | 2.268 | 9.4 | 19.9 |
| 4 11 | 11 9.57 | + 1 28.9 | 1.347 | 2.250 | 14.3 | 20.1 |
| 4 21 | 11 4.66 | + 2 11.9 | 1.404 | 2.233 | 18.5 | 20.3 |

**169133** 2001 $PT_{54}$ 3 13.8 220°.41 0°.1/13.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.42 | + 0 18.6 | 2.460 | 3.299 | 10.5 | 20.9 |
| 2 21 | 11 50.59 | + 0 59.1 | 2.375 | 3.293 | 7.5 | 20.7 |
| 3 2 | 11 44.29 | + 1 49.7 | 2.316 | 3.286 | 4.2 | 20.5 |
| 3 12 | 11 37.08 | + 2 46.2 | 2.287 | 3.280 | 0.6 | 20.2 |
| 3 22 | 11 29.67 | + 3 43.8 | 2.287 | 3.273 | 3.0 | 20.4 |
| 4 1 | 11 22.78 | + 4 37.2 | 2.317 | 3.266 | 6.5 | 20.6 |
| 4 11 | 11 17.08 | + 5 22.0 | 2.373 | 3.258 | 9.7 | 20.8 |
| 4 21 | 11 13.02 | + 5 55.3 | 2.453 | 3.250 | 12.4 | 21.0 |

**146550** 2001 $SB_{292}$ 3 13.8 122°.20 7°.9/22.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.39 | −21 42.8 | 1.983 | 2.720 | 16.3 | 19.9 |
| 2 21 | 11 53.84 | −22 13.3 | 1.905 | 2.729 | 13.8 | 19.8 |
| 3 2 | 11 46.25 | −22 17.4 | 1.848 | 2.737 | 11.2 | 19.6 |
| 3 12 | 11 37.40 | −21 54.1 | 1.814 | 2.745 | 8.9 | 19.5 |
| 3 22 | 11 28.27 | −21 5.3 | 1.806 | 2.754 | 7.9 | 19.4 |
| 4 1 | 11 19.92 | −19 56.6 | 1.824 | 2.761 | 8.9 | 19.5 |
| 4 11 | 11 13.27 | −18 36.5 | 1.868 | 2.769 | 11.1 | 19.7 |
| 4 21 | 11 8.87 | −17 13.7 | 1.935 | 2.776 | 13.6 | 19.8 |

**358100** 2006 $KD_{42}$ 3 13.8 277°.62 0°.6/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.00 | + 1 21.7 | 1.680 | 2.532 | 13.9 | 22.1 |
| 2 21 | 11 54.74 | + 2 2.4 | 1.578 | 2.503 | 10.1 | 21.8 |
| 3 2 | 11 47.02 | + 2 58.2 | 1.501 | 2.473 | 5.7 | 21.5 |
| 3 12 | 11 37.56 | + 4 3.6 | 1.450 | 2.443 | 0.9 | 21.1 |
| 3 22 | 11 27.41 | + 5 11.1 | 1.427 | 2.412 | 4.6 | 21.3 |
| 4 1 | 11 17.84 | + 6 12.4 | 1.431 | 2.381 | 9.7 | 21.5 |
| 4 11 | 11 10.01 | + 7 0.1 | 1.460 | 2.349 | 14.4 | 21.7 |
| 4 21 | 11 4.74 | + 7 29.9 | 1.509 | 2.317 | 18.4 | 21.9 |

**463218** 2012 $DW_{34}$ 3 13.8 323°.76 2°.3/11.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.07 | + 5 35.9 | 1.587 | 2.453 | 13.7 | 21.5 |
| 2 21 | 11 53.11 | + 6 28.7 | 1.518 | 2.451 | 9.8 | 21.3 |
| 3 2 | 11 45.92 | + 7 31.1 | 1.474 | 2.449 | 5.4 | 21.0 |
| 3 12 | 11 37.37 | + 8 35.4 | 1.456 | 2.446 | 2.3 | 20.8 |
| 3 22 | 11 28.55 | + 9 33.5 | 1.465 | 2.444 | 5.6 | 21.0 |
| 4 1 | 11 20.64 | +10 18.0 | 1.500 | 2.442 | 10.0 | 21.3 |
| 4 11 | 11 14.63 | +10 44.4 | 1.559 | 2.440 | 14.1 | 21.5 |
| 4 21 | 11 11.08 | +10 51.1 | 1.638 | 2.439 | 17.5 | 21.7 |

**82647** 2001 $PS_{10}$ 3 13.8 81°.15 4°.6/ 9.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.54 | +11 30.8 | 1.642 | 2.515 | 13.0 | 19.1 |
| 2 21 | 11 53.26 | +12 49.9 | 1.592 | 2.526 | 9.3 | 18.9 |
| 3 2 | 11 45.89 | +14 11.4 | 1.567 | 2.538 | 5.8 | 18.8 |
| 3 12 | 11 37.35 | +15 26.0 | 1.569 | 2.549 | 4.8 | 18.7 |
| 3 22 | 11 28.72 | +16 25.3 | 1.598 | 2.560 | 7.4 | 18.9 |
| 4 1 | 11 21.12 | +17 3.6 | 1.653 | 2.571 | 11.0 | 19.1 |
| 4 11 | 11 15.40 | +17 18.8 | 1.731 | 2.582 | 14.4 | 19.4 |
| 4 21 | 11 12.06 | +17 11.9 | 1.828 | 2.593 | 17.2 | 19.6 |

**311571** 2006 $FG_{18}$ 3 13.8 229°.11 2°.0/12.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.07 | + 5 33.0 | 1.752 | 2.610 | 13.1 | 21.3 |
| 2 21 | 11 55.19 | + 6 17.2 | 1.673 | 2.601 | 9.4 | 21.0 |
| 3 2 | 11 47.09 | + 7 10.2 | 1.618 | 2.592 | 5.2 | 20.7 |
| 3 12 | 11 37.56 | + 8 5.5 | 1.591 | 2.582 | 2.0 | 20.5 |
| 3 22 | 11 27.68 | + 8 55.9 | 1.592 | 2.571 | 5.2 | 20.7 |
| 4 1 | 11 18.61 | + 9 34.7 | 1.621 | 2.561 | 9.5 | 20.9 |
| 4 11 | 11 11.33 | + 9 57.5 | 1.674 | 2.549 | 13.5 | 21.1 |
| 4 21 | 11 6.48 | +10 2.8 | 1.747 | 2.538 | 17.0 | 21.3 |

**372460** 2009 $SM_{138}$ 3 13.8 160°.44 1°.0/12.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.97 | + 3 28.5 | 2.103 | 2.951 | 11.6 | 22.1 |
| 2 21 | 11 53.26 | + 4 4.9 | 2.032 | 2.955 | 8.3 | 21.9 |
| 3 2 | 11 45.81 | + 4 49.6 | 1.987 | 2.959 | 4.5 | 21.6 |
| 3 12 | 11 37.35 | + 5 37.5 | 1.970 | 2.963 | 1.0 | 21.4 |
| 3 22 | 11 28.72 | + 6 23.0 | 1.983 | 2.966 | 3.9 | 21.6 |
| 4 1 | 11 20.81 | + 7 1.0 | 2.025 | 2.969 | 7.7 | 21.8 |
| 4 11 | 11 14.41 | + 7 27.5 | 2.093 | 2.971 | 11.1 | 22.1 |
| 4 21 | 11 9.97 | + 7 40.7 | 2.182 | 2.974 | 14.0 | 22.3 |

**342792** 2008 $WT_{126}$ 3 13.8 48°.16 0°.5/13.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.30 | + 1 33.4 | 1.983 | 2.835 | 12.1 | 20.8 |
| 2 21 | 11 50.69 | + 2 16.6 | 1.919 | 2.844 | 8.6 | 20.6 |
| 3 2 | 11 44.40 | + 3 10.4 | 1.881 | 2.854 | 4.7 | 20.4 |
| 3 12 | 11 37.14 | + 4 9.1 | 1.870 | 2.863 | 0.7 | 20.1 |
| 3 22 | 11 29.77 | + 5 6.7 | 1.888 | 2.873 | 3.7 | 20.3 |
| 4 1 | 11 23.14 | + 5 57.1 | 1.934 | 2.883 | 7.6 | 20.6 |
| 4 11 | 11 17.99 | + 6 35.7 | 2.005 | 2.894 | 11.0 | 20.8 |
| 4 21 | 11 14.77 | + 7 0.1 | 2.098 | 2.904 | 14.0 | 21.0 |

**308169** 2005 $BF_{23}$ 3 13.8 42°.50 0°.3/13.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.00 | + 1 19.8 | 1.298 | 2.162 | 16.3 | 19.9 |
| 2 21 | 11 54.72 | + 1 43.1 | 1.242 | 2.172 | 11.8 | 19.7 |
| 3 2 | 11 46.88 | + 2 20.8 | 1.208 | 2.182 | 6.5 | 19.4 |
| 3 12 | 11 37.54 | + 3 6.2 | 1.200 | 2.193 | 1.0 | 19.1 |
| 3 22 | 11 28.05 | + 3 51.4 | 1.217 | 2.204 | 4.7 | 19.3 |
| 4 1 | 11 19.80 | + 4 28.4 | 1.259 | 2.216 | 9.9 | 19.7 |
| 4 11 | 11 13.86 | + 4 51.6 | 1.324 | 2.228 | 14.5 | 20.0 |
| 4 21 | 11 10.77 | + 4 58.2 | 1.409 | 2.241 | 18.3 | 20.2 |

**153970** 2002 $AJ_{79}$ 3 13.8 166°.33 2°.0/11.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.09 | + 5 55.8 | 2.047 | 2.903 | 11.6 | 20.6 |
| 2 21 | 11 52.69 | + 6 49.0 | 1.978 | 2.906 | 8.2 | 20.4 |
| 3 2 | 11 45.53 | + 7 49.2 | 1.935 | 2.908 | 4.5 | 20.1 |
| 3 12 | 11 37.33 | + 8 50.2 | 1.920 | 2.911 | 2.0 | 20.0 |
| 3 22 | 11 28.95 | + 9 45.7 | 1.935 | 2.913 | 4.7 | 20.2 |
| 4 1 | 11 21.32 | +10 30.1 | 1.978 | 2.914 | 8.4 | 20.4 |
| 4 11 | 11 15.19 | +10 59.7 | 2.047 | 2.915 | 11.7 | 20.6 |
| 4 21 | 11 11.06 | +11 13.0 | 2.136 | 2.916 | 14.6 | 20.8 |

**195026** 2002 $CY_{36}$ 3 13.8 97°.40 1°.1/14.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.17 | − 2 54.1 | 1.593 | 2.431 | 15.2 | 20.5 |
| 2 21 | 11 55.81 | − 2 22.0 | 1.540 | 2.454 | 11.1 | 20.3 |
| 3 2 | 11 47.29 | − 1 33.4 | 1.510 | 2.477 | 6.5 | 20.1 |
| 3 12 | 11 37.60 | − 0 34.0 | 1.507 | 2.499 | 1.8 | 19.8 |
| 3 22 | 11 27.88 | + 0 29.0 | 1.532 | 2.520 | 3.7 | 20.0 |
| 4 1 | 11 19.30 | + 1 27.7 | 1.585 | 2.542 | 8.3 | 20.3 |
| 4 11 | 11 12.76 | + 2 15.7 | 1.663 | 2.562 | 12.3 | 20.6 |
| 4 21 | 11 8.71 | + 2 49.3 | 1.763 | 2.582 | 15.7 | 20.8 |

**452340** 2001 $ST_{127}$ 3 13.8 190°.39 0°.1/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 3.46 | + 0 43.7 | 1.845 | 2.684 | 13.4 | 21.9 |
| 2 21 | 11 56.77 | + 1 5.5 | 1.766 | 2.683 | 9.7 | 21.6 |
| 3 2 | 11 47.92 | + 1 38.9 | 1.712 | 2.682 | 5.5 | 21.4 |
| 3 12 | 11 37.72 | + 2 19.4 | 1.686 | 2.679 | 0.9 | 21.0 |
| 3 22 | 11 27.22 | + 3 1.1 | 1.690 | 2.676 | 3.8 | 21.2 |
| 4 1 | 11 17.56 | + 3 38.2 | 1.722 | 2.672 | 8.3 | 21.5 |
| 4 11 | 11 9.68 | + 4 5.5 | 1.780 | 2.667 | 12.3 | 21.7 |
| 4 21 | 11 4.19 | + 4 20.2 | 1.860 | 2.661 | 15.7 | 21.9 |

**174534** 2003 $EY_{32}$ 3 13.8 309°.13 0°.7/13.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.57 | + 1 21.6 | 2.277 | 3.126 | 10.8 | 19.9 |
| 2 21 | 11 49.37 | + 2 18.7 | 2.200 | 3.123 | 7.7 | 19.7 |
| 3 2 | 11 43.65 | + 3 26.5 | 2.148 | 3.121 | 4.2 | 19.5 |
| 3 12 | 11 37.04 | + 4 39.6 | 2.125 | 3.118 | 0.8 | 19.2 |
| 3 22 | 11 30.24 | + 5 51.9 | 2.132 | 3.116 | 3.5 | 19.4 |
| 4 1 | 11 24.01 | + 6 57.5 | 2.167 | 3.114 | 7.1 | 19.7 |
| 4 11 | 11 19.03 | + 7 51.5 | 2.229 | 3.111 | 10.4 | 19.9 |
| 4 21 | 11 15.74 | + 8 31.0 | 2.313 | 3.109 | 13.1 | 20.1 |

**173936** Yuribo 3 13.8 72°.12 6°.7/ 5.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.22 | +21 37.4 | 2.174 | 3.041 | 10.5 | 19.5 |
| 2 21 | 11 51.30 | +23 6.9 | 2.130 | 3.049 | 8.2 | 19.3 |
| 3 2 | 11 44.72 | +24 29.9 | 2.113 | 3.057 | 6.8 | 19.3 |
| 3 12 | 11 37.20 | +25 38.4 | 2.123 | 3.065 | 7.1 | 19.3 |
| 3 22 | 11 29.60 | +26 26.6 | 2.160 | 3.073 | 8.9 | 19.4 |
| 4 1 | 11 22.78 | +26 51.3 | 2.222 | 3.081 | 11.2 | 19.6 |
| 4 11 | 11 17.45 | +26 52.4 | 2.306 | 3.089 | 13.5 | 19.7 |
| 4 21 | 11 14.05 | +26 32.2 | 2.408 | 3.097 | 15.4 | 19.9 |

**29176** 1990 $QJ_{10}$ 3 13.8 158°.22 0°.2/13.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.31 | + 1 28.4 | 2.515 | 3.355 | 10.2 | 19.4 |
| 2 21 | 11 51.15 | + 1 59.5 | 2.441 | 3.359 | 7.3 | 19.2 |
| 3 2 | 11 44.58 | + 2 38.9 | 2.392 | 3.363 | 4.0 | 19.0 |
| 3 12 | 11 37.18 | + 3 22.6 | 2.373 | 3.366 | 0.6 | 18.7 |
| 3 22 | 11 29.64 | + 4 6.3 | 2.384 | 3.369 | 3.0 | 18.9 |
| 4 1 | 11 22.68 | + 4 45.5 | 2.424 | 3.372 | 6.3 | 19.2 |
| 4 11 | 11 16.92 | + 5 16.5 | 2.492 | 3.375 | 9.4 | 19.3 |
| 4 21 | 11 12.77 | + 5 37.1 | 2.582 | 3.377 | 12.0 | 19.5 |

**172003** 2001 $UB_{33}$ 3 13.8 161°.49 5°.0/ 7.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.89 | +18 58.1 | 2.561 | 3.421 | 9.4 | 20.2 |
| 2 21 | 11 52.27 | +19 56.0 | 2.504 | 3.425 | 7.1 | 20.1 |
| 3 2 | 11 45.18 | +20 49.9 | 2.475 | 3.428 | 5.3 | 20.0 |
| 3 12 | 11 37.27 | +21 33.9 | 2.474 | 3.431 | 5.2 | 20.0 |
| 3 22 | 11 29.27 | +22 3.6 | 2.501 | 3.434 | 6.9 | 20.1 |
| 4 1 | 11 21.94 | +22 16.1 | 2.556 | 3.436 | 9.2 | 20.2 |
| 4 11 | 11 15.90 | +22 10.9 | 2.635 | 3.438 | 11.4 | 20.4 |
| 4 21 | 11 11.58 | +21 49.1 | 2.735 | 3.440 | 13.4 | 20.5 |

**452505** 2004 $RL_{99}$ 3 13.8 120°.13 1°.4/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.08 | − 4 31.8 | 1.652 | 2.486 | 15.0 | 21.2 |
| 2 21 | 11 54.37 | − 3 48.4 | 1.589 | 2.500 | 11.0 | 21.0 |
| 3 2 | 11 46.54 | − 2 46.2 | 1.549 | 2.514 | 6.6 | 20.8 |
| 3 12 | 11 37.49 | − 1 30.9 | 1.536 | 2.528 | 2.1 | 20.5 |
| 3 22 | 11 28.31 | − 0 10.3 | 1.552 | 2.540 | 3.7 | 20.6 |
| 4 1 | 11 20.12 | + 1 6.9 | 1.596 | 2.553 | 8.2 | 20.9 |
| 4 11 | 11 13.83 | + 2 13.2 | 1.665 | 2.565 | 12.2 | 21.2 |
| 4 21 | 11 9.94 | + 3 3.8 | 1.755 | 2.576 | 15.7 | 21.4 |

**409403** 2005 $EF_{276}$ 3 13.8 22°.03 0°.3/13.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.09 | + 1 1.3 | 1.252 | 2.120 | 16.5 | 20.5 |
| 2 21 | 11 53.48 | + 1 28.0 | 1.193 | 2.125 | 11.9 | 20.2 |
| 3 2 | 11 46.26 | + 2 10.4 | 1.157 | 2.131 | 6.6 | 20.0 |
| 3 12 | 11 37.47 | + 3 1.6 | 1.144 | 2.138 | 1.0 | 19.6 |
| 3 22 | 11 28.47 | + 3 53.0 | 1.157 | 2.145 | 4.8 | 19.9 |
| 4 1 | 11 20.66 | + 4 36.0 | 1.195 | 2.153 | 10.1 | 20.2 |
| 4 11 | 11 15.15 | + 5 4.1 | 1.254 | 2.162 | 14.9 | 20.5 |
| 4 21 | 11 12.51 | + 5 14.4 | 1.333 | 2.171 | 18.8 | 20.8 |

**99417** 2002 $AA_{141}$ 3 13.8 117°.29 4°.5/ 7.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.24 | +15 53.2 | 2.479 | 3.344 | 9.4 | 19.6 |
| 2 21 | 11 50.42 | +17 10.4 | 2.426 | 3.353 | 6.9 | 19.5 |
| 3 2 | 11 44.17 | +18 26.1 | 2.400 | 3.361 | 4.9 | 19.3 |
| 3 12 | 11 37.13 | +19 33.7 | 2.403 | 3.368 | 4.8 | 19.3 |
| 3 22 | 11 29.99 | +20 27.9 | 2.436 | 3.376 | 6.6 | 19.5 |
| 4 1 | 11 23.48 | +21 4.9 | 2.495 | 3.384 | 9.0 | 19.6 |
| 4 11 | 11 18.23 | +21 23.2 | 2.579 | 3.391 | 11.4 | 19.8 |
| 4 21 | 11 14.63 | +21 23.6 | 2.682 | 3.398 | 13.4 | 20.0 |

**252984** 2002 $QK_{78}$ 3 13.8 269°.15 0°.3/14.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.30 | + 0 25.8 | 1.633 | 2.482 | 14.3 | 20.8 |
| 2 21 | 11 54.77 | + 0 41.9 | 1.553 | 2.475 | 10.4 | 20.6 |
| 3 2 | 11 46.92 | + 1 11.0 | 1.498 | 2.468 | 5.9 | 20.3 |
| 3 12 | 11 37.59 | + 1 48.6 | 1.468 | 2.461 | 1.1 | 19.9 |
| 3 22 | 11 27.88 | + 2 28.5 | 1.467 | 2.454 | 4.0 | 20.1 |
| 4 1 | 11 19.02 | + 3 4.2 | 1.492 | 2.447 | 8.8 | 20.4 |
| 4 11 | 11 12.05 | + 3 30.0 | 1.542 | 2.440 | 13.2 | 20.6 |
| 4 21 | 11 7.60 | + 3 42.4 | 1.613 | 2.433 | 16.9 | 20.9 |

**426748** 2013 $TW_{89}$ 3 13.8 311°.34 1°.3/12.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.23 | + 4 54.9 | 1.849 | 2.706 | 12.6 | 20.8 |
| 2 21 | 11 53.71 | + 5 19.3 | 1.775 | 2.703 | 9.0 | 20.6 |
| 3 2 | 11 46.19 | + 5 51.2 | 1.727 | 2.700 | 4.9 | 20.4 |
| 3 12 | 11 37.46 | + 6 25.5 | 1.705 | 2.697 | 1.4 | 20.1 |
| 3 22 | 11 28.49 | + 6 56.5 | 1.712 | 2.695 | 4.4 | 20.3 |
| 4 1 | 11 20.32 | + 7 19.0 | 1.747 | 2.692 | 8.5 | 20.5 |
| 4 11 | 11 13.83 | + 7 29.2 | 1.806 | 2.690 | 12.3 | 20.8 |
| 4 21 | 11 9.55 | + 7 25.7 | 1.887 | 2.687 | 15.5 | 21.0 |

**15366** 1996 $HR_{16}$ 3 13.8 233°.05 6°.0/ 7.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.50 | +19 0.0 | 2.081 | 2.941 | 11.2 | 19.1 |
| 2 21 | 11 55.98 | +19 59.6 | 2.009 | 2.929 | 8.5 | 18.9 |
| 3 2 | 11 47.44 | +20 55.2 | 1.963 | 2.917 | 6.4 | 18.8 |
| 3 12 | 11 37.66 | +21 39.2 | 1.945 | 2.904 | 6.2 | 18.7 |
| 3 22 | 11 27.62 | +22 5.3 | 1.955 | 2.891 | 8.2 | 18.8 |
| 4 1 | 11 18.37 | +22 10.0 | 1.992 | 2.878 | 11.1 | 19.0 |
| 4 11 | 11 10.79 | +21 52.7 | 2.052 | 2.863 | 13.9 | 19.1 |
| 4 21 | 11 5.45 | +21 15.4 | 2.132 | 2.849 | 16.4 | 19.3 |

**423241** 2004 $TL_{78}$ 3 13.8 157°.60 4°.2/18.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.32 | −13 31.7 | 2.493 | 3.266 | 12.4 | 21.9 |
| 2 21 | 11 52.67 | −13 31.0 | 2.410 | 3.273 | 9.9 | 21.7 |
| 3 2 | 11 45.47 | −13 12.7 | 2.352 | 3.280 | 7.2 | 21.6 |
| 3 12 | 11 37.35 | −12 38.0 | 2.320 | 3.286 | 4.8 | 21.4 |
| 3 22 | 11 29.04 | −11 50.0 | 2.318 | 3.292 | 4.3 | 21.4 |
| 4 1 | 11 21.33 | −10 53.5 | 2.344 | 3.297 | 6.2 | 21.5 |
| 4 11 | 11 14.90 | − 9 54.2 | 2.399 | 3.301 | 8.9 | 21.7 |
| 4 21 | 11 10.20 | − 8 57.7 | 2.479 | 3.305 | 11.5 | 21.9 |

**406508** 2007 $VR_{148}$ 3 13.8 156°.04 1°.2/12.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.67 | + 3 28.1 | 1.946 | 2.795 | 12.4 | 22.1 |
| 2 21 | 11 54.59 | + 4 16.5 | 1.879 | 2.803 | 8.8 | 21.9 |
| 3 2 | 11 46.61 | + 5 14.2 | 1.837 | 2.810 | 4.8 | 21.7 |
| 3 12 | 11 37.53 | + 6 15.2 | 1.824 | 2.817 | 1.3 | 21.4 |
| 3 22 | 11 28.29 | + 7 12.8 | 1.841 | 2.822 | 4.3 | 21.7 |
| 4 1 | 11 19.88 | + 8 1.0 | 1.886 | 2.828 | 8.3 | 21.9 |
| 4 11 | 11 13.13 | + 8 35.4 | 1.956 | 2.832 | 11.9 | 22.1 |
| 4 21 | 11 8.53 | + 8 54.1 | 2.049 | 2.836 | 14.9 | 22.4 |

**269519** 2009 $US_{146}$ 3 13.8 289°.37 2°.2/11.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.87 | + 6 19.1 | 1.806 | 2.668 | 12.5 | 20.7 |
| 2 21 | 11 52.80 | + 7 5.2 | 1.733 | 2.663 | 8.9 | 20.4 |
| 3 2 | 11 45.71 | + 7 59.0 | 1.684 | 2.659 | 4.9 | 20.2 |
| 3 12 | 11 37.40 | + 8 53.8 | 1.664 | 2.654 | 2.2 | 20.0 |
| 3 22 | 11 28.83 | + 9 42.8 | 1.671 | 2.649 | 5.2 | 20.2 |
| 4 1 | 11 21.05 | +10 19.8 | 1.705 | 2.645 | 9.2 | 20.4 |
| 4 11 | 11 14.94 | +10 40.9 | 1.764 | 2.640 | 12.9 | 20.6 |
| 4 21 | 11 11.06 | +10 44.7 | 1.843 | 2.636 | 16.1 | 20.8 |

**60818** 2000 $HM_{38}$ 3 13.8 188°.63 0°.3/13.4 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.89 | + 0 45.4 | 2.296 | 3.134 | 11.1 | 20.5 |
| 2 21 | 11 52.45 | + 1 33.6 | 2.216 | 3.134 | 8.0 | 20.3 |
| 3 2 | 11 45.38 | + 2 32.3 | 2.162 | 3.132 | 4.4 | 20.0 |
| 3 12 | 11 37.34 | + 3 36.9 | 2.137 | 3.130 | 0.7 | 19.7 |
| 3 22 | 11 29.09 | + 4 41.6 | 2.143 | 3.128 | 3.4 | 20.0 |
| 4 1 | 11 21.46 | + 5 40.6 | 2.178 | 3.124 | 7.1 | 20.2 |
| 4 11 | 11 15.15 | + 6 29.1 | 2.240 | 3.120 | 10.4 | 20.4 |
| 4 21 | 11 10.65 | + 7 4.4 | 2.325 | 3.116 | 13.2 | 20.6 |

**424691** 2008 $RR_{140}$ 3 13.8 149°.86 1°.3/15.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.58 | − 2 52.3 | 2.144 | 2.973 | 12.2 | 21.3 |
| 2 21 | 11 53.00 | − 2 38.3 | 2.068 | 2.977 | 9.0 | 21.1 |
| 3 2 | 11 45.71 | − 2 11.9 | 2.017 | 2.981 | 5.4 | 20.8 |
| 3 12 | 11 37.40 | − 1 36.3 | 1.994 | 2.985 | 1.8 | 20.6 |
| 3 22 | 11 28.89 | − 0 56.0 | 2.001 | 2.989 | 3.1 | 20.7 |
| 4 1 | 11 21.08 | − 0 16.1 | 2.036 | 2.992 | 6.8 | 20.9 |
| 4 11 | 11 14.72 | + 0 18.4 | 2.098 | 2.995 | 10.2 | 21.1 |
| 4 21 | 11 10.29 | + 0 43.9 | 2.183 | 2.998 | 13.2 | 21.3 |

**328714** 2009 $TE_{17}$ 3 13.8 142°.10 4°.1/ 9.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.65 | +12 3.0 | 2.052 | 2.918 | 11.1 | 20.8 |
| 2 21 | 11 52.37 | +13 21.9 | 1.994 | 2.924 | 7.9 | 20.6 |
| 3 2 | 11 45.35 | +14 42.8 | 1.963 | 2.931 | 5.0 | 20.4 |
| 3 12 | 11 37.34 | +15 57.8 | 1.960 | 2.937 | 4.3 | 20.4 |
| 3 22 | 11 29.19 | +17 0.0 | 1.986 | 2.943 | 6.6 | 20.5 |
| 4 1 | 11 21.82 | +17 44.2 | 2.039 | 2.948 | 9.7 | 20.7 |
| 4 11 | 11 15.98 | +18 8.3 | 2.117 | 2.954 | 12.7 | 20.9 |
| 4 21 | 11 12.13 | +18 12.4 | 2.214 | 2.958 | 15.2 | 21.1 |

**421478** 2014 $OS_{43}$ 3 13.8 125°.17 1°.9/12.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.18 | + 4 56.7 | 1.759 | 2.614 | 13.2 | 21.7 |
| 2 21 | 11 55.03 | + 5 52.4 | 1.702 | 2.629 | 9.3 | 21.5 |
| 3 2 | 11 46.87 | + 6 56.5 | 1.669 | 2.643 | 5.1 | 21.2 |
| 3 12 | 11 37.58 | + 8 1.8 | 1.665 | 2.657 | 1.9 | 21.1 |
| 3 22 | 11 28.20 | + 9 0.8 | 1.690 | 2.669 | 5.0 | 21.3 |
| 4 1 | 11 19.80 | + 9 47.3 | 1.743 | 2.682 | 9.1 | 21.6 |
| 4 11 | 11 13.24 | +10 17.3 | 1.820 | 2.693 | 12.7 | 21.8 |
| 4 21 | 11 9.00 | +10 29.7 | 1.918 | 2.704 | 15.8 | 22.0 |

**86690** 2000 $FS_{45}$ 3 13.8 305°.42 4°.6/10.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.21 | + 9 29.9 | 1.276 | 2.157 | 15.4 | 19.2 |
| 2 21 | 11 54.51 | +10 37.9 | 1.206 | 2.145 | 11.1 | 19.0 |
| 3 2 | 11 46.99 | +11 54.2 | 1.159 | 2.134 | 6.6 | 18.7 |
| 3 12 | 11 37.64 | +13 7.8 | 1.137 | 2.123 | 4.7 | 18.5 |
| 3 22 | 11 27.83 | +14 7.6 | 1.140 | 2.112 | 8.1 | 18.7 |
| 4 1 | 11 19.09 | +14 44.9 | 1.167 | 2.102 | 13.0 | 18.9 |
| 4 11 | 11 12.69 | +14 55.5 | 1.215 | 2.092 | 17.5 | 19.1 |
| 4 21 | 11 9.34 | +14 39.9 | 1.280 | 2.082 | 21.4 | 19.4 |

**224450** 2005 $VW_{9}$ 3 13.8 238°.20 0°.1/13.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.84 | + 0 52.1 | 2.276 | 3.112 | 11.3 | 21.5 |
| 2 21 | 11 53.98 | + 1 20.3 | 2.179 | 3.095 | 8.2 | 21.3 |
| 3 2 | 11 46.33 | + 1 58.8 | 2.108 | 3.078 | 4.6 | 21.1 |
| 3 12 | 11 37.52 | + 2 43.7 | 2.067 | 3.060 | 0.7 | 20.7 |
| 3 22 | 11 28.35 | + 3 30.0 | 2.055 | 3.041 | 3.3 | 20.9 |
| 4 1 | 11 19.70 | + 4 12.4 | 2.073 | 3.021 | 7.2 | 21.1 |
| 4 11 | 11 12.39 | + 4 46.5 | 2.118 | 3.001 | 10.8 | 21.3 |
| 4 21 | 11 6.98 | + 5 9.1 | 2.186 | 2.980 | 13.9 | 21.5 |

**273710** 2007 $EQ_{65}$ 3 13.8 177°.55 2°.3/11.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.69 | + 7 31.3 | 1.984 | 2.842 | 11.8 | 20.7 |
| 2 21 | 11 53.91 | + 8 10.0 | 1.914 | 2.842 | 8.4 | 20.5 |
| 3 2 | 11 46.25 | + 8 53.9 | 1.870 | 2.843 | 4.7 | 20.2 |
| 3 12 | 11 37.49 | + 9 37.2 | 1.854 | 2.843 | 2.3 | 20.1 |
| 3 22 | 11 28.55 | +10 13.9 | 1.867 | 2.844 | 4.9 | 20.2 |
| 4 1 | 11 20.39 | +10 39.3 | 1.908 | 2.843 | 8.7 | 20.5 |
| 4 11 | 11 13.83 | +10 50.3 | 1.974 | 2.843 | 12.1 | 20.7 |
| 4 21 | 11 9.38 | +10 46.1 | 2.062 | 2.843 | 15.0 | 20.9 |

**338377** 2002 $YR_{14}$ 3 13.8 60°.90 2°.8/10.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.35 | + 8 33.7 | 2.014 | 2.878 | 11.3 | 20.5 |
| 2 21 | 11 51.37 | + 9 32.2 | 1.964 | 2.895 | 8.0 | 20.3 |
| 3 2 | 11 44.75 | +10 34.7 | 1.940 | 2.913 | 4.5 | 20.2 |
| 3 12 | 11 37.25 | +11 34.3 | 1.944 | 2.931 | 2.9 | 20.1 |
| 3 22 | 11 29.71 | +12 25.0 | 1.977 | 2.948 | 5.3 | 20.3 |
| 4 1 | 11 22.98 | +13 2.0 | 2.037 | 2.966 | 8.6 | 20.5 |
| 4 11 | 11 17.77 | +13 22.6 | 2.122 | 2.984 | 11.7 | 20.7 |
| 4 21 | 11 14.48 | +13 26.5 | 2.228 | 3.002 | 14.2 | 20.9 |

**425512** 2010 $JS_{72}$ 3 13.8 231°.11 0°.1/13.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.12 | − 1 6.6 | 2.696 | 3.529 | 9.8 | 21.4 |
| 2 21 | 11 49.62 | − 0 13.5 | 2.604 | 3.518 | 7.1 | 21.2 |
| 3 2 | 11 43.78 | + 0 50.6 | 2.539 | 3.508 | 4.0 | 21.0 |
| 3 12 | 11 37.11 | + 2 1.7 | 2.504 | 3.497 | 0.7 | 20.7 |
| 3 22 | 11 30.23 | + 3 14.7 | 2.499 | 3.485 | 2.8 | 20.9 |
| 4 1 | 11 23.79 | + 4 24.4 | 2.525 | 3.474 | 6.1 | 21.1 |
| 4 11 | 11 18.40 | + 5 25.9 | 2.578 | 3.462 | 9.1 | 21.3 |
| 4 21 | 11 14.48 | + 6 16.0 | 2.655 | 3.449 | 11.7 | 21.4 |

**201424** 2002 $YQ_{7}$ 3 13.8 43°.51 5°.4/17.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.99 | −10 41.7 | 1.280 | 2.107 | 18.9 | 19.9 |
| 2 21 | 11 54.98 | −10 57.8 | 1.214 | 2.111 | 14.9 | 19.7 |
| 3 2 | 11 47.19 | −10 46.4 | 1.167 | 2.116 | 10.4 | 19.4 |
| 3 12 | 11 37.67 | −10 8.8 | 1.143 | 2.122 | 6.3 | 19.2 |
| 3 22 | 11 27.79 | − 9 10.7 | 1.144 | 2.127 | 5.9 | 19.2 |
| 4 1 | 11 19.06 | − 8 1.4 | 1.170 | 2.133 | 9.6 | 19.4 |
| 4 11 | 11 12.70 | − 6 52.1 | 1.219 | 2.139 | 14.1 | 19.7 |
| 4 21 | 11 9.36 | − 5 51.8 | 1.287 | 2.146 | 18.1 | 19.9 |

**8423** Macao 3 13.8 126°.33 0°.4/13.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.78 | + 1 50.0 | 2.824 | 3.661 | 9.3 | 19.3 |
| 2 21 | 11 50.61 | + 2 30.0 | 2.759 | 3.677 | 6.6 | 19.1 |
| 3 2 | 11 44.22 | + 3 17.1 | 2.721 | 3.692 | 3.6 | 19.0 |
| 3 12 | 11 37.17 | + 4 7.5 | 2.713 | 3.707 | 0.6 | 18.7 |
| 3 22 | 11 30.05 | + 4 56.8 | 2.737 | 3.721 | 2.8 | 18.9 |
| 4 1 | 11 23.48 | + 5 41.0 | 2.790 | 3.735 | 5.8 | 19.1 |
| 4 11 | 11 18.00 | + 6 17.0 | 2.871 | 3.748 | 8.5 | 19.3 |
| 4 21 | 11 13.94 | + 6 42.7 | 2.976 | 3.761 | 10.8 | 19.5 |

**351550** 2005 $TX_{73}$ 3 13.8 140°.91 0°.9/12.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.39 | + 1 18.5 | 1.719 | 2.567 | 13.8 | 21.7 |
| 2 21 | 11 55.27 | + 2 21.2 | 1.657 | 2.580 | 9.8 | 21.5 |
| 3 2 | 11 47.06 | + 3 36.9 | 1.620 | 2.592 | 5.4 | 21.3 |
| 3 12 | 11 37.64 | + 4 58.3 | 1.611 | 2.604 | 1.0 | 21.0 |
| 3 22 | 11 28.10 | + 6 17.0 | 1.631 | 2.615 | 4.4 | 21.2 |
| 4 1 | 11 19.52 | + 7 25.2 | 1.679 | 2.624 | 8.8 | 21.5 |
| 4 11 | 11 12.82 | + 8 17.1 | 1.752 | 2.634 | 12.8 | 21.8 |
| 4 21 | 11 8.49 | + 8 50.5 | 1.847 | 2.642 | 16.0 | 22.0 |

**427734** 2004 $QA_{13}$ 3 13.8 182°.59 2°.1/11.2 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.99 | + 8 16.5 | 2.653 | 3.502 | 9.5 | 22.8 |
| 2 21 | 11 53.04 | + 9 2.1 | 2.579 | 3.503 | 6.7 | 22.6 |
| 3 2 | 11 45.65 | + 9 51.3 | 2.532 | 3.504 | 3.8 | 22.4 |
| 3 12 | 11 37.42 | +10 39.3 | 2.516 | 3.503 | 2.2 | 22.3 |
| 3 22 | 11 29.04 | +11 21.5 | 2.530 | 3.502 | 4.2 | 22.4 |
| 4 1 | 11 21.23 | +11 54.0 | 2.574 | 3.500 | 7.2 | 22.6 |
| 4 11 | 11 14.63 | +12 14.3 | 2.645 | 3.497 | 9.9 | 22.8 |
| 4 21 | 11 9.66 | +12 21.4 | 2.738 | 3.494 | 12.3 | 22.9 |

**78112** 2002 $MR_2$ 3 13.8 263°.85 4°.9/18.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.88 | −13 11.2 | 2.278 | 3.056 | 13.2 | 19.4 |
| 2 21 | 11 53.43 | −13 30.7 | 2.172 | 3.037 | 10.7 | 19.2 |
| 3 2 | 11 46.11 | −13 32.4 | 2.089 | 3.018 | 7.9 | 19.0 |
| 3 12 | 11 37.53 | −13 16.3 | 2.033 | 2.998 | 5.5 | 18.8 |
| 3 22 | 11 28.48 | −12 44.2 | 2.005 | 2.978 | 5.0 | 18.7 |
| 4 1 | 11 19.90 | −12 0.3 | 2.006 | 2.957 | 7.2 | 18.8 |
| 4 11 | 11 12.63 | −11 10.7 | 2.033 | 2.936 | 10.2 | 18.9 |
| 4 21 | 11 7.30 | −10 21.4 | 2.084 | 2.915 | 13.2 | 19.1 |

**323467** 2004 $KX_{13}$ 3 13.8 204°.25 18°.6/23.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 12.56 | +43 39.8 | 1.267 | 2.088 | 19.3 | 20.2 |
| 2 21 | 12 4.83 | +46 8.5 | 1.246 | 2.086 | 18.6 | 20.1 |
| 3 2 | 11 52.91 | +47 59.6 | 1.245 | 2.084 | 18.8 | 20.1 |
| 3 12 | 11 38.57 | +48 57.8 | 1.262 | 2.081 | 20.0 | 20.2 |
| 3 22 | 11 24.23 | +48 56.8 | 1.295 | 2.078 | 21.7 | 20.3 |
| 4 1 | 11 12.22 | +47 59.5 | 1.343 | 2.074 | 23.6 | 20.4 |
| 4 11 | 11 4.08 | +46 16.1 | 1.404 | 2.070 | 25.4 | 20.6 |
| 4 21 | 11 0.24 | +43 58.5 | 1.474 | 2.065 | 26.9 | 20.7 |

**421987** 2014 $QQ_{305}$ 3 13.8 263°.28 2°.2/11.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.45 | + 4 4.8 | 1.558 | 2.422 | 14.1 | 22.1 |
| 2 21 | 11 53.63 | + 5 15.2 | 1.475 | 2.407 | 10.1 | 21.8 |
| 3 2 | 11 46.40 | + 6 39.9 | 1.417 | 2.392 | 5.5 | 21.5 |
| 3 12 | 11 37.59 | + 8 10.3 | 1.385 | 2.376 | 2.2 | 21.2 |
| 3 22 | 11 28.29 | + 9 36.7 | 1.380 | 2.360 | 5.8 | 21.4 |
| 4 1 | 11 19.77 | +10 49.3 | 1.403 | 2.344 | 10.6 | 21.7 |
| 4 11 | 11 13.16 | +11 41.4 | 1.448 | 2.327 | 15.0 | 21.9 |
| 4 21 | 11 9.14 | +12 10.2 | 1.513 | 2.311 | 18.8 | 22.1 |

**285681** 2000 $SY_{143}$ 3 13.8 162°.99 4°.2/20.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.54 | −17 24.8 | 3.137 | 3.879 | 10.7 | 21.9 |
| 2 21 | 11 49.76 | −17 10.6 | 3.047 | 3.885 | 8.7 | 21.8 |
| 3 2 | 11 43.80 | −16 39.7 | 2.981 | 3.890 | 6.7 | 21.6 |
| 3 12 | 11 37.14 | −15 53.2 | 2.943 | 3.895 | 4.8 | 21.5 |
| 3 22 | 11 30.35 | −14 54.0 | 2.934 | 3.899 | 4.2 | 21.5 |
| 4 1 | 11 24.01 | −13 45.9 | 2.955 | 3.903 | 5.3 | 21.5 |
| 4 11 | 11 18.64 | −12 34.1 | 3.005 | 3.906 | 7.3 | 21.7 |
| 4 21 | 11 14.61 | −11 23.4 | 3.080 | 3.909 | 9.4 | 21.8 |

**508140** 2015 $FT_{74}$ 3 13.8 261°.47 3°.9/ 9.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.80 | +14 22.8 | 2.486 | 3.346 | 9.6 | 21.8 |
| 2 21 | 11 52.38 | +15 9.4 | 2.405 | 3.331 | 7.0 | 21.6 |
| 3 2 | 11 45.37 | +15 55.8 | 2.351 | 3.316 | 4.6 | 21.5 |
| 3 12 | 11 37.40 | +16 36.6 | 2.326 | 3.301 | 4.0 | 21.4 |
| 3 22 | 11 29.20 | +17 6.7 | 2.331 | 3.285 | 5.9 | 21.5 |
| 4 1 | 11 21.55 | +17 22.6 | 2.363 | 3.269 | 8.7 | 21.6 |
| 4 11 | 11 15.16 | +17 22.4 | 2.420 | 3.253 | 11.4 | 21.8 |
| 4 21 | 11 10.51 | +17 6.4 | 2.499 | 3.237 | 13.8 | 21.9 |

**68232** 2001 $DM_{35}$ 3 13.8 269°.11 3°.0/16.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.79 | − 6 59.5 | 2.058 | 2.872 | 13.2 | 18.9 |
| 2 21 | 11 53.42 | − 7 6.4 | 1.964 | 2.860 | 10.1 | 18.7 |
| 3 2 | 11 46.11 | − 6 57.7 | 1.893 | 2.847 | 6.7 | 18.5 |
| 3 12 | 11 37.54 | − 6 35.2 | 1.850 | 2.834 | 3.5 | 18.2 |
| 3 22 | 11 28.58 | − 6 2.2 | 1.835 | 2.821 | 3.8 | 18.2 |
| 4 1 | 11 20.20 | − 5 23.7 | 1.849 | 2.807 | 7.1 | 18.4 |
| 4 11 | 11 13.28 | − 4 45.4 | 1.889 | 2.794 | 10.8 | 18.6 |
| 4 21 | 11 8.43 | − 4 12.6 | 1.952 | 2.780 | 14.0 | 18.8 |

**74669** 1999 $RN_{96}$ 3 13.8 258°.46 0°.8/13.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.26 | + 1 47.9 | 1.734 | 2.586 | 13.5 | 20.3 |
| 2 21 | 11 54.04 | + 2 33.2 | 1.645 | 2.569 | 9.8 | 20.1 |
| 3 2 | 11 46.58 | + 3 32.1 | 1.580 | 2.553 | 5.4 | 19.8 |
| 3 12 | 11 37.63 | + 4 38.8 | 1.542 | 2.535 | 1.0 | 19.4 |
| 3 22 | 11 28.21 | + 5 45.6 | 1.533 | 2.517 | 4.5 | 19.6 |
| 4 1 | 11 19.49 | + 6 44.7 | 1.551 | 2.499 | 9.2 | 19.9 |
| 4 11 | 11 12.49 | + 7 29.9 | 1.594 | 2.481 | 13.5 | 20.1 |
| 4 21 | 11 7.89 | + 7 57.5 | 1.657 | 2.462 | 17.1 | 20.3 |

**385891** 2006 $SC_{227}$ 3 13.8 83°.23 0°.9/14.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.35 | − 1 4.8 | 2.271 | 3.104 | 11.4 | 21.1 |
| 2 21 | 11 52.77 | − 1 1.0 | 2.197 | 3.109 | 8.4 | 21.0 |
| 3 2 | 11 45.58 | − 0 47.3 | 2.148 | 3.114 | 4.9 | 20.7 |
| 3 12 | 11 37.45 | − 0 26.6 | 2.128 | 3.120 | 1.4 | 20.5 |
| 3 22 | 11 29.15 | − 0 2.7 | 2.137 | 3.125 | 2.9 | 20.6 |
| 4 1 | 11 21.52 | + 0 20.3 | 2.175 | 3.130 | 6.5 | 20.9 |
| 4 11 | 11 15.25 | + 0 38.5 | 2.240 | 3.135 | 9.8 | 21.1 |
| 4 21 | 11 10.81 | + 0 49.0 | 2.329 | 3.141 | 12.6 | 21.3 |

**85390** 1996 $QZ_2$ 3 13.8 200°.47 1°.2/15.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.25 | − 3 42.6 | 2.463 | 3.283 | 11.1 | 20.3 |
| 2 21 | 11 52.68 | − 3 13.8 | 2.374 | 3.279 | 8.2 | 20.1 |
| 3 2 | 11 45.55 | − 2 32.4 | 2.311 | 3.273 | 4.9 | 19.9 |
| 3 12 | 11 37.45 | − 1 41.7 | 2.277 | 3.268 | 1.7 | 19.7 |
| 3 22 | 11 29.12 | − 0 46.2 | 2.273 | 3.261 | 2.8 | 19.7 |
| 4 1 | 11 21.33 | + 0 9.0 | 2.300 | 3.254 | 6.2 | 20.0 |
| 4 11 | 11 14.77 | + 0 58.9 | 2.354 | 3.246 | 9.5 | 20.1 |
| 4 21 | 11 9.93 | + 1 39.6 | 2.432 | 3.237 | 12.3 | 20.3 |

**287847** 2003 $SQ_{235}$ 3 13.8 122°.54 2°.7/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 4.69 | + 8 44.2 | 1.818 | 2.673 | 12.8 | 20.6 |
| 2 21 | 11 57.48 | + 9 19.4 | 1.763 | 2.690 | 9.1 | 20.4 |
| 3 2 | 11 48.23 | + 9 58.3 | 1.734 | 2.706 | 5.1 | 20.2 |
| 3 12 | 11 37.87 | +10 34.1 | 1.733 | 2.721 | 2.8 | 20.1 |
| 3 22 | 11 27.48 | +11 1.3 | 1.761 | 2.736 | 5.4 | 20.3 |
| 4 1 | 11 18.16 | +11 15.4 | 1.818 | 2.750 | 9.2 | 20.5 |
| 4 11 | 11 10.75 | +11 14.3 | 1.899 | 2.763 | 12.7 | 20.8 |
| 4 21 | 11 5.73 | +10 58.3 | 2.001 | 2.776 | 15.6 | 21.0 |

**276909** 2004 $TZ_4$ 3 13.8 167°.04 0°.2/14.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.05 | − 0 12.3 | 2.186 | 3.024 | 11.6 | 21.6 |
| 2 21 | 11 52.63 | + 0 17.5 | 2.110 | 3.027 | 8.4 | 21.4 |
| 3 2 | 11 45.54 | + 0 58.2 | 2.060 | 3.029 | 4.8 | 21.2 |
| 3 12 | 11 37.45 | + 1 45.5 | 2.038 | 3.031 | 0.9 | 20.9 |
| 3 22 | 11 29.19 | + 2 34.4 | 2.046 | 3.033 | 3.2 | 21.1 |
| 4 1 | 11 21.59 | + 3 19.5 | 2.083 | 3.035 | 7.0 | 21.3 |
| 4 11 | 11 15.39 | + 3 56.2 | 2.147 | 3.036 | 10.4 | 21.5 |
| 4 21 | 11 11.07 | + 4 21.5 | 2.233 | 3.037 | 13.3 | 21.7 |

**327416** 2005 $VF_{112}$ 3 13.8 189°.21 2°.9/16.9 17 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.32 | − 8 41.6 | 2.237 | 3.041 | 12.6 | 21.4 |
| 2 21 | 11 52.87 | − 8 29.0 | 2.151 | 3.040 | 9.7 | 21.2 |
| 3 2 | 11 45.71 | − 7 59.8 | 2.089 | 3.039 | 6.5 | 21.0 |
| 3 12 | 11 37.49 | − 7 16.1 | 2.055 | 3.037 | 3.5 | 20.8 |
| 3 22 | 11 29.03 | − 6 22.1 | 2.050 | 3.035 | 3.5 | 20.8 |
| 4 1 | 11 21.17 | − 5 23.4 | 2.074 | 3.032 | 6.5 | 21.0 |
| 4 11 | 11 14.69 | − 4 26.1 | 2.126 | 3.029 | 9.8 | 21.2 |
| 4 21 | 11 10.10 | − 3 35.4 | 2.201 | 3.025 | 12.8 | 21.4 |

**235044** 2003 $FK_{59}$ 3 13.8 288°.31 8°.5/ 9.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 13.88 | +22 17.1 | 1.422 | 2.279 | 15.6 | 19.5 |
| 2 21 | 12 5.22 | +22 43.8 | 1.341 | 2.257 | 12.3 | 19.2 |
| 3 2 | 11 53.11 | +22 59.0 | 1.283 | 2.235 | 9.4 | 19.0 |
| 3 12 | 11 38.71 | +22 51.3 | 1.252 | 2.213 | 8.7 | 18.9 |
| 3 22 | 11 23.73 | +22 13.4 | 1.247 | 2.190 | 11.1 | 19.0 |
| 4 1 | 11 10.06 | +21 3.4 | 1.267 | 2.168 | 15.0 | 19.1 |
| 4 11 | 10 59.24 | +19 25.2 | 1.310 | 2.146 | 19.0 | 19.3 |
| 4 21 | 10 52.06 | +17 26.0 | 1.371 | 2.123 | 22.5 | 19.5 |

**417446** 2006 $OZ_{11}$ 3 13.9 272°.55 4°.4/17.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.29 | − 9 1.4 | 1.756 | 2.565 | 15.3 | 20.8 |
| 2 21 | 11 56.43 | − 9 25.7 | 1.651 | 2.541 | 12.1 | 20.5 |
| 3 2 | 11 48.07 | − 9 31.6 | 1.569 | 2.517 | 8.4 | 20.3 |
| 3 12 | 11 37.93 | − 9 18.9 | 1.513 | 2.492 | 5.1 | 20.0 |
| 3 22 | 11 27.05 | − 8 50.1 | 1.485 | 2.467 | 5.1 | 19.9 |
| 4 1 | 11 16.71 | − 8 10.5 | 1.484 | 2.441 | 8.6 | 20.1 |
| 4 11 | 11 8.11 | − 7 27.4 | 1.508 | 2.415 | 12.8 | 20.3 |
| 4 21 | 11 2.07 | − 6 47.8 | 1.554 | 2.389 | 16.7 | 20.4 |

**133229** 2003 $QT_{100}$ 3 13.9 130°.86 1°.0/14.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.04 | − 3 42.5 | 1.744 | 2.579 | 14.2 | 20.4 |
| 2 21 | 11 53.63 | − 2 54.6 | 1.676 | 2.590 | 10.4 | 20.2 |
| 3 2 | 11 46.20 | − 1 49.1 | 1.633 | 2.600 | 6.1 | 19.9 |
| 3 12 | 11 37.58 | − 0 31.8 | 1.618 | 2.609 | 1.7 | 19.6 |
| 3 22 | 11 28.80 | + 0 49.7 | 1.630 | 2.619 | 3.5 | 19.8 |
| 4 1 | 11 20.90 | + 2 7.2 | 1.671 | 2.627 | 8.0 | 20.1 |
| 4 11 | 11 14.78 | + 3 13.4 | 1.738 | 2.636 | 11.9 | 20.3 |
| 4 21 | 11 10.93 | + 4 3.9 | 1.826 | 2.643 | 15.3 | 20.6 |

**370830** 2004 $VA_{80}$ 3 13.9 123°.52 0°.9/12.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.79 | + 4 33.4 | 2.245 | 3.087 | 11.2 | 21.5 |
| 2 21 | 11 55.15 | + 4 50.3 | 2.181 | 3.102 | 7.9 | 21.3 |
| 3 2 | 11 46.87 | + 5 13.0 | 2.144 | 3.116 | 4.3 | 21.1 |
| 3 12 | 11 37.68 | + 5 37.5 | 2.136 | 3.129 | 1.0 | 20.9 |
| 3 22 | 11 28.42 | + 5 59.5 | 2.159 | 3.142 | 3.6 | 21.1 |
| 4 1 | 11 19.94 | + 6 15.1 | 2.211 | 3.154 | 7.2 | 21.3 |
| 4 11 | 11 12.97 | + 6 21.7 | 2.290 | 3.166 | 10.4 | 21.6 |
| 4 21 | 11 7.92 | + 6 17.8 | 2.392 | 3.178 | 13.0 | 21.8 |

**410245** 2007 $TN_{64}$ 3 13.9 220°.30 1°.5/15.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.86 | − 4 52.8 | 1.842 | 2.671 | 13.9 | 21.9 |
| 2 21 | 11 53.60 | − 4 14.6 | 1.755 | 2.663 | 10.4 | 21.6 |
| 3 2 | 11 46.27 | − 3 17.8 | 1.692 | 2.655 | 6.3 | 21.3 |
| 3 12 | 11 37.61 | − 2 6.7 | 1.656 | 2.646 | 2.2 | 21.1 |
| 3 22 | 11 28.59 | − 0 48.0 | 1.649 | 2.637 | 3.5 | 21.1 |
| 4 1 | 11 20.27 | + 0 30.4 | 1.670 | 2.627 | 7.9 | 21.4 |
| 4 11 | 11 13.58 | + 1 40.6 | 1.717 | 2.617 | 12.0 | 21.6 |
| 4 21 | 11 9.15 | + 2 37.3 | 1.786 | 2.606 | 15.5 | 21.8 |

**465738** 2009 $VS_{60}$ 3 13.9 193°.25 1°.6/12.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.49 | + 5 21.1 | 2.355 | 3.204 | 10.5 | 22.6 |
| 2 21 | 11 52.88 | + 6 9.1 | 2.277 | 3.202 | 7.5 | 22.4 |
| 3 2 | 11 45.67 | + 7 3.8 | 2.227 | 3.199 | 4.1 | 22.1 |
| 3 12 | 11 37.50 | + 8 0.1 | 2.205 | 3.196 | 1.6 | 21.9 |
| 3 22 | 11 29.13 | + 8 52.4 | 2.214 | 3.192 | 4.1 | 22.1 |
| 4 1 | 11 21.37 | + 9 35.9 | 2.252 | 3.188 | 7.5 | 22.3 |
| 4 11 | 11 14.93 | +10 6.9 | 2.316 | 3.183 | 10.6 | 22.5 |
| 4 21 | 11 10.27 | +10 23.8 | 2.403 | 3.177 | 13.3 | 22.7 |

**502045** 2015 $AY_{149}$ 3 13.9 250°.14 1°.0/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.33 | + 3 27.9 | 2.020 | 2.871 | 11.9 | 21.5 |
| 2 21 | 11 53.05 | + 4 4.3 | 1.935 | 2.860 | 8.5 | 21.3 |
| 3 2 | 11 45.90 | + 4 50.1 | 1.877 | 2.849 | 4.7 | 21.0 |
| 3 12 | 11 37.55 | + 5 40.1 | 1.846 | 2.839 | 1.1 | 20.8 |
| 3 22 | 11 28.90 | + 6 28.3 | 1.844 | 2.827 | 4.1 | 21.0 |
| 4 1 | 11 20.90 | + 7 9.0 | 1.871 | 2.816 | 8.1 | 21.2 |
| 4 11 | 11 14.39 | + 7 37.8 | 1.923 | 2.804 | 11.8 | 21.4 |
| 4 21 | 11 9.93 | + 7 52.2 | 1.996 | 2.792 | 14.9 | 21.6 |

**419927** 2011 $BW_{33}$ 3 13.9 155°.89 2°.2/15.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.52 | − 4 49.7 | 1.887 | 2.714 | 13.7 | 21.2 |
| 2 21 | 11 53.95 | − 4 46.8 | 1.810 | 2.715 | 10.3 | 21.0 |
| 3 2 | 11 46.40 | − 4 28.5 | 1.756 | 2.716 | 6.4 | 20.8 |
| 3 12 | 11 37.63 | − 3 57.7 | 1.730 | 2.718 | 2.8 | 20.6 |
| 3 22 | 11 28.60 | − 3 19.0 | 1.731 | 2.719 | 3.5 | 20.6 |
| 4 1 | 11 20.34 | − 2 38.0 | 1.761 | 2.720 | 7.4 | 20.8 |
| 4 11 | 11 13.72 | − 2 0.8 | 1.817 | 2.721 | 11.2 | 21.1 |
| 4 21 | 11 9.29 | − 1 31.8 | 1.895 | 2.722 | 14.5 | 21.3 |

**206215** 2002 $VB_{39}$ 3 13.9 153°.39 6°.9/ 4.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.48 | +24 43.9 | 2.425 | 3.281 | 10.0 | 19.8 |
| 2 21 | 11 52.86 | +26 1.1 | 2.378 | 3.285 | 8.1 | 19.7 |
| 3 2 | 11 45.62 | +27 10.0 | 2.357 | 3.289 | 6.9 | 19.7 |
| 3 12 | 11 37.49 | +28 3.6 | 2.365 | 3.293 | 7.3 | 19.7 |
| 3 22 | 11 29.27 | +28 37.1 | 2.400 | 3.297 | 8.8 | 19.8 |
| 4 1 | 11 21.80 | +28 48.2 | 2.460 | 3.301 | 10.9 | 19.9 |
| 4 11 | 11 15.76 | +28 37.2 | 2.542 | 3.304 | 12.9 | 20.1 |
| 4 21 | 11 11.58 | +28 6.4 | 2.642 | 3.307 | 14.7 | 20.2 |

**183240** 2002 $TG_{96}$ 3 13.9 152°.31 2°.5/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.73 | − 7 53.9 | 2.180 | 2.987 | 12.8 | 19.9 |
| 2 21 | 11 53.13 | − 7 28.1 | 2.103 | 2.996 | 9.7 | 19.7 |
| 3 2 | 11 45.83 | − 6 45.5 | 2.051 | 3.004 | 6.3 | 19.5 |
| 3 12 | 11 37.53 | − 5 49.1 | 2.027 | 3.012 | 3.1 | 19.3 |
| 3 22 | 11 29.07 | − 4 43.9 | 2.032 | 3.019 | 3.3 | 19.4 |
| 4 1 | 11 21.30 | − 3 36.3 | 2.067 | 3.025 | 6.5 | 19.6 |
| 4 11 | 11 14.96 | − 2 32.5 | 2.129 | 3.031 | 9.9 | 19.8 |
| 4 21 | 11 10.54 | − 1 37.6 | 2.215 | 3.036 | 12.9 | 20.0 |

**200234** Kumashiro 3 13.9 157°.86 1°.8/16.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.35 | − 6 23.4 | 2.386 | 3.200 | 11.6 | 21.3 |
| 2 21 | 11 51.32 | − 5 46.8 | 2.307 | 3.205 | 8.7 | 21.1 |
| 3 2 | 11 44.79 | − 4 55.3 | 2.253 | 3.211 | 5.4 | 20.9 |
| 3 12 | 11 37.37 | − 3 52.5 | 2.228 | 3.216 | 2.3 | 20.7 |
| 3 22 | 11 29.80 | − 2 43.1 | 2.233 | 3.220 | 2.8 | 20.8 |
| 4 1 | 11 22.82 | − 1 33.2 | 2.267 | 3.224 | 6.1 | 21.0 |
| 4 11 | 11 17.10 | − 0 28.5 | 2.329 | 3.228 | 9.3 | 21.2 |
| 4 21 | 11 13.08 | + 0 26.8 | 2.416 | 3.231 | 12.1 | 21.4 |

**455618** 2004 $TB_{326}$ 3 13.9 134°.18 1°.5/15.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.03 | − 4 50.5 | 1.876 | 2.700 | 13.8 | 22.4 |
| 2 21 | 11 54.91 | − 4 12.9 | 1.810 | 2.716 | 10.3 | 22.2 |
| 3 2 | 11 46.86 | − 3 18.5 | 1.768 | 2.731 | 6.2 | 22.0 |
| 3 12 | 11 37.71 | − 2 12.0 | 1.755 | 2.745 | 2.1 | 21.8 |
| 3 22 | 11 28.43 | − 1 0.0 | 1.770 | 2.758 | 3.4 | 21.9 |
| 4 1 | 11 20.04 | + 0 10.1 | 1.814 | 2.770 | 7.4 | 22.1 |
| 4 11 | 11 13.37 | + 1 11.6 | 1.885 | 2.782 | 11.2 | 22.4 |
| 4 21 | 11 8.91 | + 2 0.2 | 1.979 | 2.793 | 14.4 | 22.6 |

**245494** 2005 $QX_{56}$ 3 13.9 233°.12 3°.6/18.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.65 | −11 11.8 | 2.506 | 3.295 | 11.8 | 20.3 |
| 2 21 | 11 50.85 | −11 10.1 | 2.415 | 3.292 | 9.3 | 20.1 |
| 3 2 | 11 44.56 | −10 52.4 | 2.349 | 3.287 | 6.6 | 19.9 |
| 3 12 | 11 37.35 | −10 20.0 | 2.310 | 3.283 | 4.1 | 19.8 |
| 3 22 | 11 29.90 | − 9 36.1 | 2.299 | 3.279 | 3.8 | 19.7 |
| 4 1 | 11 22.96 | − 8 45.0 | 2.318 | 3.275 | 6.0 | 19.9 |
| 4 11 | 11 17.19 | − 7 52.4 | 2.364 | 3.270 | 8.8 | 20.0 |
| 4 21 | 11 13.07 | − 7 3.1 | 2.434 | 3.266 | 11.5 | 20.2 |

**496346** 2013 $QX_{14}$ 3 13.9 264°.48 3°.8/17.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.45 | − 9 14.7 | 1.823 | 2.636 | 14.7 | 21.4 |
| 2 21 | 11 53.41 | − 9 13.6 | 1.731 | 2.624 | 11.5 | 21.2 |
| 3 2 | 11 46.23 | − 8 52.4 | 1.662 | 2.611 | 7.8 | 20.9 |
| 3 12 | 11 37.64 | − 8 12.7 | 1.618 | 2.599 | 4.5 | 20.7 |
| 3 22 | 11 28.61 | − 7 18.7 | 1.602 | 2.587 | 4.4 | 20.7 |
| 4 1 | 11 20.23 | − 6 16.9 | 1.614 | 2.574 | 7.8 | 20.8 |
| 4 11 | 11 13.50 | − 5 15.3 | 1.651 | 2.561 | 11.7 | 21.0 |
| 4 21 | 11 9.06 | − 4 20.6 | 1.710 | 2.548 | 15.3 | 21.2 |

**173494** 2000 $SG_{250}$ 3 13.9 222°.07 1°.5/11.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.08 | + 5 31.3 | 2.749 | 3.598 | 9.2 | 20.9 |
| 2 21 | 11 50.31 | + 6 21.9 | 2.665 | 3.590 | 6.5 | 20.7 |
| 3 2 | 11 44.20 | + 7 18.4 | 2.609 | 3.582 | 3.5 | 20.5 |
| 3 12 | 11 37.29 | + 8 16.5 | 2.582 | 3.573 | 1.5 | 20.3 |
| 3 22 | 11 30.19 | + 9 11.3 | 2.586 | 3.563 | 3.7 | 20.5 |
| 4 1 | 11 23.55 | + 9 58.4 | 2.620 | 3.554 | 6.7 | 20.6 |
| 4 11 | 11 17.97 | +10 34.5 | 2.680 | 3.544 | 9.4 | 20.8 |
| 4 21 | 11 13.85 | +10 57.9 | 2.763 | 3.533 | 11.9 | 21.0 |

**490545** 2009 $VR_{70}$ 3 13.9 172°.56 2°.8/16.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.87 | − 7 55.8 | 2.065 | 2.877 | 13.2 | 21.6 |
| 2 21 | 11 52.65 | − 7 44.1 | 1.984 | 2.878 | 10.1 | 21.4 |
| 3 2 | 11 45.64 | − 7 15.2 | 1.927 | 2.880 | 6.7 | 21.2 |
| 3 12 | 11 37.53 | − 6 31.7 | 1.897 | 2.881 | 3.5 | 21.0 |
| 3 22 | 11 29.17 | − 5 38.1 | 1.896 | 2.881 | 3.6 | 21.0 |
| 4 1 | 11 21.50 | − 4 40.4 | 1.923 | 2.882 | 6.8 | 21.2 |
| 4 11 | 11 15.29 | − 3 44.9 | 1.976 | 2.882 | 10.3 | 21.4 |
| 4 21 | 11 11.08 | − 2 57.0 | 2.053 | 2.882 | 13.4 | 21.6 |

**420622** 2012 $HA_{69}$ 3 13.9 349°.28 6°.5/ 7.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.50 | +14 10.8 | 1.386 | 2.272 | 14.0 | 20.4 |
| 2 21 | 11 51.62 | +15 48.5 | 1.329 | 2.267 | 10.3 | 20.2 |
| 3 2 | 11 45.30 | +17 28.1 | 1.295 | 2.262 | 7.2 | 20.0 |
| 3 12 | 11 37.48 | +18 57.5 | 1.286 | 2.259 | 6.9 | 19.9 |
| 3 22 | 11 29.40 | +20 5.7 | 1.303 | 2.255 | 9.7 | 20.1 |
| 4 1 | 11 22.35 | +20 45.6 | 1.342 | 2.253 | 13.6 | 20.3 |
| 4 11 | 11 17.38 | +20 54.9 | 1.403 | 2.251 | 17.2 | 20.5 |
| 4 21 | 11 15.07 | +20 35.8 | 1.479 | 2.251 | 20.3 | 20.7 |

**316689** 1996 $EX_5$ 3 13.9 191°.45 0°.6/13.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.68 | + 1 33.4 | 2.195 | 3.037 | 11.5 | 20.2 |
| 2 21 | 11 53.13 | + 2 21.7 | 2.116 | 3.036 | 8.2 | 20.0 |
| 3 2 | 11 45.87 | + 3 20.4 | 2.062 | 3.033 | 4.5 | 19.8 |
| 3 12 | 11 37.57 | + 4 24.5 | 2.038 | 3.031 | 0.8 | 19.5 |
| 3 22 | 11 29.04 | + 5 28.0 | 2.043 | 3.027 | 3.6 | 19.7 |
| 4 1 | 11 21.16 | + 6 24.9 | 2.078 | 3.023 | 7.4 | 19.9 |
| 4 11 | 11 14.67 | + 7 10.4 | 2.139 | 3.019 | 10.9 | 20.1 |
| 4 21 | 11 10.09 | + 7 41.9 | 2.223 | 3.013 | 13.8 | 20.3 |

**49570** 1999 $CQ_{110}$ 3 13.9 121°.50 1°.0/15.1 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.09 | − 3 58.7 | 2.333 | 3.160 | 11.4 | 19.0 |
| 2 21 | 11 50.43 | − 3 11.7 | 2.261 | 3.169 | 8.4 | 18.9 |
| 3 2 | 11 44.29 | − 2 11.0 | 2.214 | 3.178 | 4.9 | 18.7 |
| 3 12 | 11 37.31 | − 1 1.1 | 2.195 | 3.187 | 1.5 | 18.4 |
| 3 22 | 11 30.20 | + 0 12.6 | 2.207 | 3.195 | 2.8 | 18.5 |
| 4 1 | 11 23.70 | + 1 23.9 | 2.248 | 3.203 | 6.3 | 18.8 |
| 4 11 | 11 18.47 | + 2 27.4 | 2.316 | 3.211 | 9.5 | 19.0 |
| 4 21 | 11 14.91 | + 3 19.4 | 2.408 | 3.219 | 12.2 | 19.2 |

**171483** 1995 $SO_{45}$ 3 13.9 149°.70 0°.2/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.35 | − 0 33.4 | 1.980 | 2.817 | 12.7 | 22.1 |
| 2 21 | 11 54.38 | + 0 4.5 | 1.910 | 2.827 | 9.2 | 21.9 |
| 3 2 | 11 46.57 | + 0 54.9 | 1.866 | 2.835 | 5.2 | 21.6 |
| 3 12 | 11 37.68 | + 1 52.7 | 1.850 | 2.843 | 0.9 | 21.3 |
| 3 22 | 11 28.63 | + 2 51.7 | 1.864 | 2.851 | 3.4 | 21.6 |
| 4 1 | 11 20.38 | + 3 45.7 | 1.906 | 2.857 | 7.5 | 21.8 |
| 4 11 | 11 13.73 | + 4 29.4 | 1.975 | 2.864 | 11.2 | 22.1 |
| 4 21 | 11 9.19 | + 4 59.9 | 2.066 | 2.869 | 14.3 | 22.3 |

**88601** 2001 $QF_{284}$ 3 13.9 21°.08 1°.2/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.41 | + 1 54.6 | 1.328 | 2.200 | 15.6 | 18.3 |
| 2 21 | 11 51.48 | + 2 51.6 | 1.271 | 2.205 | 11.1 | 18.0 |
| 3 2 | 11 45.17 | + 4 3.9 | 1.237 | 2.212 | 6.0 | 17.8 |
| 3 12 | 11 37.47 | + 5 22.8 | 1.227 | 2.220 | 1.3 | 17.5 |
| 3 22 | 11 29.57 | + 6 38.3 | 1.243 | 2.228 | 5.1 | 17.7 |
| 4 1 | 11 22.76 | + 7 41.0 | 1.284 | 2.237 | 10.2 | 18.0 |
| 4 11 | 11 18.03 | + 8 24.5 | 1.348 | 2.247 | 14.6 | 18.3 |
| 4 21 | 11 15.91 | + 8 46.3 | 1.431 | 2.258 | 18.3 | 18.6 |

**467518** 2007 $GC_2$ 3 13.9 295°.39 7°.1/ 6.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.51 | +19 48.6 | 1.770 | 2.641 | 12.3 | 21.0 |
| 2 21 | 11 54.10 | +21 7.6 | 1.712 | 2.637 | 9.5 | 20.8 |
| 3 2 | 11 46.53 | +22 21.5 | 1.679 | 2.632 | 7.4 | 20.7 |
| 3 12 | 11 37.69 | +23 20.9 | 1.673 | 2.628 | 7.5 | 20.7 |
| 3 22 | 11 28.64 | +23 58.3 | 1.693 | 2.624 | 9.6 | 20.8 |
| 4 1 | 11 20.52 | +24 9.7 | 1.737 | 2.620 | 12.6 | 20.9 |
| 4 11 | 11 14.27 | +23 54.9 | 1.803 | 2.616 | 15.5 | 21.1 |
| 4 21 | 11 10.41 | +23 16.8 | 1.887 | 2.612 | 18.0 | 21.3 |

**236183** 2005 $VC_{119}$ 3 13.9 146°.68 0°.3/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.72 | − 1 53.6 | 1.502 | 2.350 | 15.4 | 21.3 |
| 2 21 | 11 54.44 | − 1 0.3 | 1.434 | 2.355 | 11.2 | 21.0 |
| 3 2 | 11 46.81 | + 0 11.5 | 1.390 | 2.360 | 6.4 | 20.8 |
| 3 12 | 11 37.75 | + 1 35.1 | 1.372 | 2.365 | 1.2 | 20.4 |
| 3 22 | 11 28.44 | + 3 1.2 | 1.381 | 2.369 | 4.2 | 20.7 |
| 4 1 | 11 20.12 | + 4 20.1 | 1.418 | 2.373 | 9.2 | 20.9 |
| 4 11 | 11 13.83 | + 5 23.9 | 1.479 | 2.376 | 13.6 | 21.2 |
| 4 21 | 11 10.14 | + 6 8.5 | 1.560 | 2.379 | 17.4 | 21.5 |

**429631** 2011 $FN_{80}$ 3 13.9 32°.62 1°.0/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.96 | − 3 54.4 | 1.734 | 2.576 | 14.0 | 20.7 |
| 2 21 | 11 50.78 | − 3 1.6 | 1.663 | 2.579 | 10.3 | 20.5 |
| 3 2 | 11 44.67 | − 1 50.4 | 1.616 | 2.583 | 6.0 | 20.3 |
| 3 12 | 11 37.40 | − 0 26.6 | 1.595 | 2.587 | 1.7 | 20.0 |
| 3 22 | 11 29.92 | + 1 1.9 | 1.603 | 2.591 | 3.5 | 20.1 |
| 4 1 | 11 23.23 | + 2 26.4 | 1.638 | 2.596 | 7.9 | 20.4 |
| 4 11 | 11 18.19 | + 3 39.3 | 1.698 | 2.600 | 11.9 | 20.6 |
| 4 21 | 11 15.30 | + 4 35.8 | 1.780 | 2.605 | 15.3 | 20.9 |

**398094** 2009 $QQ_{15}$ 3 13.9 176°.58 0°.9/12.8 15

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.48 | + 1 58.2 | 2.304 | 3.146 | 10.9 | 22.3 |
| 2 21 | 11 52.18 | + 2 57.7 | 2.228 | 3.149 | 7.8 | 22.1 |
| 3 2 | 11 45.31 | + 4 7.0 | 2.179 | 3.151 | 4.2 | 21.9 |
| 3 12 | 11 37.50 | + 5 20.9 | 2.159 | 3.152 | 0.9 | 21.6 |
| 3 22 | 11 29.50 | + 6 33.1 | 2.170 | 3.153 | 3.6 | 21.8 |
| 4 1 | 11 22.13 | + 7 37.7 | 2.210 | 3.153 | 7.2 | 22.0 |
| 4 11 | 11 16.07 | + 8 30.1 | 2.277 | 3.152 | 10.5 | 22.2 |
| 4 21 | 11 11.79 | + 9 7.7 | 2.367 | 3.151 | 13.2 | 22.4 |

**415417** 2013 $PS_{62}$ 3 13.9 16°.56 2°.1/15.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.19 | − 5 50.9 | 1.470 | 2.314 | 16.0 | 20.3 |
| 2 21 | 11 51.24 | − 5 14.4 | 1.401 | 2.316 | 12.0 | 20.1 |
| 3 2 | 11 45.04 | − 4 15.5 | 1.355 | 2.319 | 7.4 | 19.8 |
| 3 12 | 11 37.47 | − 2 59.3 | 1.333 | 2.323 | 2.8 | 19.6 |
| 3 22 | 11 29.65 | − 1 34.1 | 1.338 | 2.327 | 3.9 | 19.6 |
| 4 1 | 11 22.75 | − 0 9.9 | 1.369 | 2.332 | 8.5 | 19.9 |
| 4 11 | 11 17.77 | + 1 4.1 | 1.424 | 2.338 | 13.0 | 20.2 |
| 4 21 | 11 15.27 | + 2 1.8 | 1.500 | 2.344 | 16.7 | 20.4 |

**81958** 2000 $QQ_{14}$ 3 13.9 302°.65 2°.0/15.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.24 | − 4 13.1 | 2.146 | 2.970 | 12.3 | 18.9 |
| 2 21 | 11 52.93 | − 4 19.6 | 2.058 | 2.962 | 9.3 | 18.6 |
| 3 2 | 11 45.82 | − 4 13.5 | 1.995 | 2.955 | 5.8 | 18.4 |
| 3 12 | 11 37.60 | − 3 56.9 | 1.959 | 2.947 | 2.5 | 18.2 |
| 3 22 | 11 29.07 | − 3 33.1 | 1.953 | 2.940 | 3.2 | 18.2 |
| 4 1 | 11 21.14 | − 3 6.7 | 1.975 | 2.933 | 6.8 | 18.4 |
| 4 11 | 11 14.61 | − 2 42.5 | 2.023 | 2.925 | 10.3 | 18.6 |
| 4 21 | 11 10.03 | − 2 24.3 | 2.094 | 2.918 | 13.4 | 18.8 |

**466010** 2011 $GO_{42}$ 3 13.9 304°.87 1°.0/13.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.77 | + 3 42.9 | 1.752 | 2.609 | 13.1 | 21.1 |
| 2 21 | 11 53.61 | + 4 7.0 | 1.671 | 2.598 | 9.4 | 20.8 |
| 3 2 | 11 46.33 | + 4 40.6 | 1.615 | 2.588 | 5.2 | 20.5 |
| 3 12 | 11 37.69 | + 5 18.5 | 1.585 | 2.578 | 1.1 | 20.2 |
| 3 22 | 11 28.70 | + 5 54.5 | 1.584 | 2.568 | 4.4 | 20.4 |
| 4 1 | 11 20.47 | + 6 22.9 | 1.609 | 2.558 | 8.8 | 20.7 |
| 4 11 | 11 13.95 | + 6 39.0 | 1.659 | 2.549 | 12.9 | 20.9 |
| 4 21 | 11 9.77 | + 6 40.6 | 1.730 | 2.540 | 16.3 | 21.1 |

**492253** 2013 $VM_{14}$ 3 13.9 159°.17 8°.2/25.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.31 | −28 34.6 | 2.508 | 3.179 | 14.7 | 21.7 |
| 2 21 | 11 52.17 | −28 46.7 | 2.419 | 3.184 | 13.0 | 21.6 |
| 3 2 | 11 45.36 | −28 33.0 | 2.349 | 3.189 | 11.0 | 21.5 |
| 3 12 | 11 37.52 | −27 52.2 | 2.302 | 3.194 | 9.3 | 21.4 |
| 3 22 | 11 29.45 | −26 45.9 | 2.281 | 3.198 | 8.3 | 21.3 |
| 4 1 | 11 22.00 | −25 18.5 | 2.286 | 3.201 | 8.5 | 21.3 |
| 4 11 | 11 15.93 | −23 37.5 | 2.318 | 3.205 | 9.8 | 21.4 |
| 4 21 | 11 11.72 | −21 51.0 | 2.375 | 3.207 | 11.7 | 21.5 |

**195595** 2002 $JV_{133}$ 3 13.9 230°.36 3°.7/17.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.18 | −11 16.1 | 2.307 | 3.098 | 12.7 | 20.3 |
| 2 21 | 11 52.11 | −11 10.4 | 2.212 | 3.089 | 10.0 | 20.1 |
| 3 2 | 11 45.36 | −10 47.0 | 2.140 | 3.080 | 7.0 | 19.9 |
| 3 12 | 11 37.53 | −10 7.1 | 2.096 | 3.071 | 4.4 | 19.7 |
| 3 22 | 11 29.39 | − 9 14.3 | 2.081 | 3.061 | 4.0 | 19.7 |
| 4 1 | 11 21.78 | − 8 13.8 | 2.094 | 3.051 | 6.5 | 19.8 |
| 4 11 | 11 15.48 | − 7 11.9 | 2.135 | 3.041 | 9.6 | 20.0 |
| 4 21 | 11 10.99 | − 6 14.3 | 2.200 | 3.031 | 12.6 | 20.2 |

**468137** 2014 $UZ_{121}$ 3 13.9 20°.21 2°.6/12.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 5.32 | + 9 0.6 | 1.429 | 2.295 | 15.0 | 20.1 |
| 2 21 | 11 58.51 | + 8 57.6 | 1.367 | 2.298 | 10.8 | 19.9 |
| 3 2 | 11 49.08 | + 8 57.3 | 1.329 | 2.302 | 6.1 | 19.6 |
| 3 12 | 11 38.12 | + 8 54.0 | 1.317 | 2.307 | 2.6 | 19.4 |
| 3 22 | 11 26.99 | + 8 42.6 | 1.331 | 2.312 | 5.7 | 19.6 |
| 4 1 | 11 17.09 | + 8 19.8 | 1.373 | 2.318 | 10.4 | 19.9 |
| 4 11 | 11 9.55 | + 7 44.0 | 1.437 | 2.324 | 14.7 | 20.1 |
| 4 21 | 11 4.92 | + 6 55.9 | 1.521 | 2.331 | 18.2 | 20.4 |

**462302** 2008 $GU_5$ 3 13.9 357°.74 1°.2/12.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.22 | + 0 46.2 | 1.373 | 2.242 | 15.3 | 21.0 |
| 2 21 | 11 50.68 | + 2 0.1 | 1.307 | 2.240 | 11.0 | 20.7 |
| 3 2 | 11 44.78 | + 3 32.4 | 1.263 | 2.238 | 6.0 | 20.4 |
| 3 12 | 11 37.44 | + 5 14.1 | 1.244 | 2.237 | 1.2 | 20.1 |
| 3 22 | 11 29.81 | + 6 53.9 | 1.252 | 2.237 | 5.2 | 20.4 |
| 4 1 | 11 23.13 | + 8 20.7 | 1.285 | 2.237 | 10.3 | 20.7 |
| 4 11 | 11 18.43 | + 9 26.6 | 1.341 | 2.238 | 14.8 | 20.9 |
| 4 21 | 11 16.32 | +10 8.0 | 1.416 | 2.240 | 18.6 | 21.2 |

**136047** 2002 $XK_{16}$ 3 13.9 68°.74 0°.9/13.0 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.54 | + 4 34.2 | 2.137 | 2.986 | 11.4 | 19.4 |
| 2 21 | 11 53.74 | + 4 47.7 | 2.064 | 2.987 | 8.2 | 19.2 |
| 3 2 | 11 46.21 | + 5 7.6 | 2.017 | 2.989 | 4.5 | 19.0 |
| 3 12 | 11 37.66 | + 5 29.6 | 1.999 | 2.991 | 1.0 | 18.7 |
| 3 22 | 11 28.94 | + 5 49.4 | 2.010 | 2.993 | 3.7 | 18.9 |
| 4 1 | 11 20.93 | + 6 2.9 | 2.049 | 2.995 | 7.4 | 19.2 |
| 4 11 | 11 14.41 | + 6 7.2 | 2.115 | 2.997 | 10.8 | 19.4 |
| 4 21 | 11 9.84 | + 6 0.7 | 2.203 | 3.000 | 13.7 | 19.6 |

**328586** 2009 $SQ_{49}$ 3 13.9 218°.50 0°.8/13.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 2.22 | + 3 59.2 | 2.188 | 3.030 | 11.5 | 21.0 |
| 2 21 | 11 55.73 | + 4 14.2 | 2.102 | 3.022 | 8.3 | 20.8 |
| 3 2 | 11 47.37 | + 4 36.2 | 2.042 | 3.014 | 4.6 | 20.5 |
| 3 12 | 11 37.86 | + 5 1.0 | 2.012 | 3.005 | 0.9 | 20.3 |
| 3 22 | 11 28.06 | + 5 24.3 | 2.011 | 2.995 | 3.7 | 20.4 |
| 4 1 | 11 18.91 | + 5 41.7 | 2.041 | 2.985 | 7.6 | 20.7 |
| 4 11 | 11 11.25 | + 5 49.9 | 2.096 | 2.975 | 11.1 | 20.9 |
| 4 21 | 11 5.60 | + 5 47.2 | 2.175 | 2.964 | 14.1 | 21.0 |

**304865** 2007 $RF_{107}$ 3 13.9 110°.21 0°.6/13.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.52 | − 0 6.2 | 1.573 | 2.426 | 14.6 | 20.7 |
| 2 21 | 11 53.44 | + 0 59.5 | 1.511 | 2.436 | 10.5 | 20.5 |
| 3 2 | 11 46.19 | + 2 21.2 | 1.473 | 2.446 | 5.8 | 20.2 |
| 3 12 | 11 37.67 | + 3 51.1 | 1.462 | 2.455 | 0.9 | 19.9 |
| 3 22 | 11 28.98 | + 5 19.8 | 1.479 | 2.464 | 4.4 | 20.2 |
| 4 1 | 11 21.27 | + 6 38.1 | 1.523 | 2.473 | 9.1 | 20.5 |
| 4 11 | 11 15.46 | + 7 39.4 | 1.591 | 2.482 | 13.3 | 20.8 |
| 4 21 | 11 12.08 | + 8 20.4 | 1.680 | 2.490 | 16.7 | 21.0 |

**386855** 2010 $UT_{96}$ 3 13.9 94°.28 15°.0/ 6.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 21.98 | +35 1.2 | 1.171 | 2.011 | 19.4 | 20.6 |
| 2 21 | 12 10.87 | +36 1.9 | 1.141 | 2.024 | 16.9 | 20.5 |
| 3 2 | 11 55.91 | +36 30.9 | 1.132 | 2.037 | 15.2 | 20.5 |
| 3 12 | 11 39.16 | +36 14.5 | 1.144 | 2.050 | 15.3 | 20.5 |
| 3 22 | 11 23.06 | +35 8.7 | 1.179 | 2.063 | 17.0 | 20.6 |
| 4 1 | 11 9.75 | +33 19.0 | 1.234 | 2.075 | 19.4 | 20.8 |
| 4 11 | 11 0.43 | +30 57.2 | 1.309 | 2.087 | 22.0 | 21.0 |
| 4 21 | 10 55.34 | +28 15.9 | 1.399 | 2.099 | 24.3 | 21.3 |

**426820** 2013 $UU_5$ 3 13.9 127°.54 3°.5/10.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.81 | +10 52.5 | 2.016 | 2.879 | 11.4 | 20.4 |
| 2 21 | 11 53.29 | +11 44.5 | 1.954 | 2.884 | 8.1 | 20.2 |
| 3 2 | 11 45.98 | +12 39.0 | 1.917 | 2.888 | 4.9 | 20.0 |
| 3 12 | 11 37.63 | +13 29.1 | 1.909 | 2.892 | 3.5 | 20.0 |
| 3 22 | 11 29.15 | +14 9.0 | 1.930 | 2.897 | 5.9 | 20.1 |
| 4 1 | 11 21.46 | +14 34.0 | 1.978 | 2.901 | 9.2 | 20.3 |
| 4 11 | 11 15.34 | +14 41.9 | 2.051 | 2.904 | 12.3 | 20.5 |
| 4 21 | 11 11.27 | +14 32.8 | 2.144 | 2.908 | 15.0 | 20.7 |

**105171** 2000 $OA_{19}$ 3 13.9 190°.65 0°.3/13.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.31 | + 1 32.5 | 3.112 | 3.946 | 8.6 | 20.8 |
| 2 21 | 11 50.32 | + 2 9.9 | 3.028 | 3.944 | 6.2 | 20.7 |
| 3 2 | 11 44.18 | + 2 54.3 | 2.972 | 3.942 | 3.4 | 20.5 |
| 3 12 | 11 37.34 | + 3 42.5 | 2.946 | 3.939 | 0.5 | 20.2 |
| 3 22 | 11 30.36 | + 4 30.6 | 2.951 | 3.936 | 2.6 | 20.4 |
| 4 1 | 11 23.80 | + 5 14.8 | 2.987 | 3.932 | 5.4 | 20.6 |
| 4 11 | 11 18.18 | + 5 52.0 | 3.051 | 3.927 | 8.0 | 20.8 |
| 4 21 | 11 13.87 | + 6 19.9 | 3.139 | 3.923 | 10.3 | 20.9 |

**128500** 2004 $PJ_{17}$ 3 13.9 205°.11 0°.8/14.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.09 | − 1 59.9 | 2.072 | 2.906 | 12.3 | 20.8 |
| 2 21 | 11 52.82 | − 1 32.8 | 1.990 | 2.904 | 9.1 | 20.6 |
| 3 2 | 11 45.77 | − 0 52.6 | 1.934 | 2.901 | 5.3 | 20.4 |
| 3 12 | 11 37.61 | − 0 3.3 | 1.905 | 2.897 | 1.4 | 20.1 |
| 3 22 | 11 29.20 | + 0 49.8 | 1.906 | 2.894 | 3.2 | 20.2 |
| 4 1 | 11 21.45 | + 1 40.9 | 1.935 | 2.890 | 7.1 | 20.5 |
| 4 11 | 11 15.15 | + 2 24.3 | 1.991 | 2.886 | 10.8 | 20.7 |
| 4 21 | 11 10.83 | + 2 56.6 | 2.069 | 2.881 | 13.9 | 20.9 |

**189415** 1995 $UF_{18}$ 3 13.9 152°.41 1°.4/15.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.73 | − 4 14.7 | 1.782 | 2.610 | 14.3 | 21.5 |
| 2 21 | 11 55.58 | − 3 37.1 | 1.711 | 2.620 | 10.6 | 21.3 |
| 3 2 | 11 47.34 | − 2 42.1 | 1.665 | 2.629 | 6.3 | 21.1 |
| 3 12 | 11 37.86 | − 1 34.6 | 1.646 | 2.637 | 2.0 | 20.8 |
| 3 22 | 11 28.19 | − 0 21.5 | 1.656 | 2.645 | 3.5 | 20.9 |
| 4 1 | 11 19.41 | + 0 49.3 | 1.695 | 2.651 | 7.9 | 21.2 |
| 4 11 | 11 12.45 | + 1 50.7 | 1.760 | 2.657 | 11.9 | 21.5 |
| 4 21 | 11 7.82 | + 2 38.2 | 1.847 | 2.662 | 15.3 | 21.7 |

**282238** 2002 $CN_{281}$ 3 13.9 191°.99 2°.4/16.9 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.39 | − 7 51.7 | 2.832 | 3.631 | 10.4 | 20.8 |
| 2 21 | 11 51.23 | − 7 48.4 | 2.743 | 3.630 | 8.0 | 20.7 |
| 3 2 | 11 44.74 | − 7 32.7 | 2.680 | 3.628 | 5.3 | 20.5 |
| 3 12 | 11 37.44 | − 7 6.4 | 2.645 | 3.626 | 2.9 | 20.3 |
| 3 22 | 11 29.96 | − 6 32.4 | 2.640 | 3.624 | 2.9 | 20.3 |
| 4 1 | 11 22.93 | − 5 54.3 | 2.665 | 3.621 | 5.4 | 20.5 |
| 4 11 | 11 16.96 | − 5 16.5 | 2.718 | 3.619 | 8.0 | 20.6 |
| 4 21 | 11 12.46 | − 4 42.6 | 2.796 | 3.615 | 10.5 | 20.8 |

**271732** 2004 $RG_{273}$ 3 13.9 315°.50 1°.5/12.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.34 | + 3 55.8 | 1.474 | 2.342 | 14.5 | 20.1 |
| 2 21 | 11 53.08 | + 4 28.2 | 1.383 | 2.316 | 10.5 | 19.8 |
| 3 2 | 11 46.29 | + 5 13.2 | 1.315 | 2.291 | 5.8 | 19.5 |
| 3 12 | 11 37.74 | + 6 4.4 | 1.273 | 2.265 | 1.5 | 19.1 |
| 3 22 | 11 28.56 | + 6 54.0 | 1.257 | 2.241 | 5.3 | 19.3 |
| 4 1 | 11 20.09 | + 7 33.7 | 1.266 | 2.217 | 10.5 | 19.5 |
| 4 11 | 11 13.56 | + 7 57.3 | 1.297 | 2.194 | 15.3 | 19.7 |
| 4 21 | 11 9.75 | + 8 1.7 | 1.348 | 2.171 | 19.4 | 19.9 |

**415339** 2013 $HV_{119}$ 3 13.9 199°.61 1°.7/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.66 | + 4 55.7 | 2.029 | 2.879 | 11.9 | 22.4 |
| 2 21 | 11 54.70 | + 5 44.3 | 1.950 | 2.875 | 8.5 | 22.1 |
| 3 2 | 11 46.83 | + 6 41.2 | 1.898 | 2.871 | 4.7 | 21.9 |
| 3 12 | 11 37.79 | + 7 40.5 | 1.875 | 2.866 | 1.7 | 21.7 |
| 3 22 | 11 28.48 | + 8 35.6 | 1.881 | 2.860 | 4.5 | 21.8 |
| 4 1 | 11 19.89 | + 9 20.8 | 1.915 | 2.854 | 8.4 | 22.1 |
| 4 11 | 11 12.85 | + 9 51.7 | 1.976 | 2.847 | 12.0 | 22.3 |
| 4 21 | 11 7.92 | +10 6.8 | 2.058 | 2.839 | 15.0 | 22.5 |

**309821** 2009 $BB_{134}$ 3 13.9 285°.72 3°.5/10.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.46 | + 6 43.6 | 1.452 | 2.326 | 14.3 | 20.5 |
| 2 21 | 11 53.02 | + 8 7.7 | 1.381 | 2.317 | 10.2 | 20.2 |
| 3 2 | 11 46.14 | + 9 43.5 | 1.333 | 2.309 | 5.8 | 19.9 |
| 3 12 | 11 37.70 | +11 20.8 | 1.312 | 2.300 | 3.6 | 19.7 |
| 3 22 | 11 28.88 | +12 48.4 | 1.318 | 2.291 | 7.0 | 19.9 |
| 4 1 | 11 20.96 | +13 56.8 | 1.348 | 2.283 | 11.6 | 20.2 |
| 4 11 | 11 15.05 | +14 40.1 | 1.401 | 2.274 | 15.9 | 20.4 |
| 4 21 | 11 11.80 | +14 57.4 | 1.473 | 2.266 | 19.4 | 20.6 |

**126263** 2002 $AH_{81}$ 3 13.9 85°.26 1°.8/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.60 | + 2 44.2 | 1.410 | 2.276 | 15.2 | 19.2 |
| 2 21 | 11 53.69 | + 3 58.4 | 1.353 | 2.285 | 10.8 | 18.9 |
| 3 2 | 11 46.40 | + 5 26.8 | 1.319 | 2.294 | 5.8 | 18.7 |
| 3 12 | 11 37.73 | + 7 0.0 | 1.311 | 2.303 | 1.8 | 18.4 |
| 3 22 | 11 28.88 | + 8 27.3 | 1.331 | 2.313 | 5.5 | 18.7 |
| 4 1 | 11 21.13 | + 9 39.3 | 1.376 | 2.322 | 10.3 | 19.0 |
| 4 11 | 11 15.47 | +10 29.9 | 1.444 | 2.331 | 14.6 | 19.3 |
| 4 21 | 11 12.44 | +10 57.1 | 1.532 | 2.340 | 18.2 | 19.5 |

**233962** 2010 $AY_{25}$ 3 13.9 129°.34 4°.1/18.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.74 | −11 11.4 | 2.191 | 2.980 | 13.3 | 20.4 |
| 2 21 | 11 53.92 | −11 25.2 | 2.113 | 2.989 | 10.5 | 20.3 |
| 3 2 | 11 46.35 | −11 21.7 | 2.059 | 2.997 | 7.4 | 20.1 |
| 3 12 | 11 37.72 | −11 1.8 | 2.032 | 3.004 | 4.8 | 19.9 |
| 3 22 | 11 28.88 | −10 28.7 | 2.034 | 3.012 | 4.4 | 19.9 |
| 4 1 | 11 20.72 | − 9 47.2 | 2.064 | 3.019 | 6.8 | 20.1 |
| 4 11 | 11 14.02 | − 9 3.0 | 2.121 | 3.026 | 9.8 | 20.3 |
| 4 21 | 11 9.29 | − 8 21.7 | 2.202 | 3.032 | 12.6 | 20.5 |

**375275** 2008 $HP_{51}$ 3 13.9 209°.26 4°.9/20.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.47 | −17 16.8 | 2.516 | 3.267 | 12.8 | 22.2 |
| 2 21 | 11 52.24 | −17 3.2 | 2.416 | 3.260 | 10.5 | 22.0 |
| 3 2 | 11 45.42 | −16 28.7 | 2.339 | 3.252 | 8.0 | 21.9 |
| 3 12 | 11 37.58 | −15 34.0 | 2.288 | 3.244 | 5.7 | 21.7 |
| 3 22 | 11 29.45 | −14 22.2 | 2.266 | 3.234 | 5.0 | 21.6 |
| 4 1 | 11 21.84 | −12 58.7 | 2.274 | 3.225 | 6.5 | 21.7 |
| 4 11 | 11 15.45 | −11 30.4 | 2.310 | 3.214 | 9.1 | 21.9 |
| 4 21 | 11 10.80 | −10 4.2 | 2.371 | 3.203 | 11.8 | 22.0 |

**397588** 2007 $VS_{7}$ 3 13.9 172°.01 0°.2/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.61 | − 1 30.8 | 2.073 | 2.906 | 12.4 | 22.1 |
| 2 21 | 11 53.87 | − 0 38.6 | 1.997 | 2.911 | 9.0 | 21.9 |
| 3 2 | 11 46.34 | + 0 27.2 | 1.946 | 2.914 | 5.1 | 21.7 |
| 3 12 | 11 37.72 | + 1 41.6 | 1.924 | 2.917 | 0.9 | 21.4 |
| 3 22 | 11 28.90 | + 2 57.8 | 1.932 | 2.919 | 3.4 | 21.6 |
| 4 1 | 11 20.80 | + 4 8.9 | 1.970 | 2.920 | 7.4 | 21.8 |
| 4 11 | 11 14.20 | + 5 9.2 | 2.034 | 2.921 | 11.0 | 22.1 |
| 4 21 | 11 9.62 | + 5 55.0 | 2.122 | 2.920 | 14.1 | 22.3 |

**410718** 2009 $BN_{66}$ 3 13.9 188°.25 3°.1/16.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.20 | − 7 46.4 | 1.859 | 2.671 | 14.4 | 21.7 |
| 2 21 | 11 55.27 | − 7 39.3 | 1.776 | 2.671 | 11.1 | 21.5 |
| 3 2 | 11 47.24 | − 7 13.5 | 1.717 | 2.670 | 7.3 | 21.2 |
| 3 12 | 11 37.88 | − 6 31.4 | 1.685 | 2.669 | 3.7 | 21.0 |
| 3 22 | 11 28.19 | − 5 37.8 | 1.681 | 2.667 | 3.9 | 21.0 |
| 4 1 | 11 19.27 | − 4 39.3 | 1.706 | 2.664 | 7.6 | 21.2 |
| 4 11 | 11 12.05 | − 3 43.2 | 1.756 | 2.661 | 11.4 | 21.5 |
| 4 21 | 11 7.14 | − 2 55.4 | 1.829 | 2.657 | 14.9 | 21.7 |

**186193** 2001 $VF_{90}$ 3 13.9 119°.02 5°.6/ 7.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.88 | +18 8.1 | 2.175 | 3.035 | 10.8 | 20.6 |
| 2 21 | 11 54.59 | +19 28.4 | 2.134 | 3.055 | 8.0 | 20.4 |
| 3 2 | 11 46.61 | +20 44.0 | 2.120 | 3.075 | 6.0 | 20.3 |
| 3 12 | 11 37.75 | +21 47.6 | 2.136 | 3.094 | 5.9 | 20.4 |
| 3 22 | 11 28.88 | +22 33.3 | 2.179 | 3.112 | 7.7 | 20.5 |
| 4 1 | 11 20.91 | +22 58.0 | 2.250 | 3.129 | 10.3 | 20.7 |
| 4 11 | 11 14.52 | +23 1.5 | 2.344 | 3.146 | 12.7 | 20.9 |
| 4 21 | 11 10.14 | +22 45.5 | 2.457 | 3.162 | 14.8 | 21.1 |

**403347** 2009 $FS_{3}$ 3 13.9 337°.54 0°.1/13.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.68 | + 1 36.7 | 1.397 | 2.256 | 15.7 | 20.5 |
| 2 21 | 11 56.11 | + 1 41.1 | 1.325 | 2.252 | 11.5 | 20.2 |
| 3 2 | 11 47.89 | + 1 58.1 | 1.276 | 2.248 | 6.5 | 19.9 |
| 3 12 | 11 38.00 | + 2 22.7 | 1.252 | 2.245 | 1.1 | 19.5 |
| 3 22 | 11 27.74 | + 2 48.8 | 1.255 | 2.242 | 4.5 | 19.7 |
| 4 1 | 11 18.50 | + 3 9.7 | 1.283 | 2.240 | 9.7 | 20.0 |
| 4 11 | 11 11.48 | + 3 20.0 | 1.334 | 2.238 | 14.4 | 20.3 |
| 4 21 | 11 7.33 | + 3 16.8 | 1.405 | 2.236 | 18.4 | 20.5 |

**231604** 2009 $FG_{74}$ 3 13.9 262°.71 0°.3/14.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.20 | − 0 3.7 | 1.632 | 2.480 | 14.4 | 21.2 |
| 2 21 | 11 54.80 | + 0 16.7 | 1.552 | 2.473 | 10.5 | 21.0 |
| 3 2 | 11 47.08 | + 0 51.2 | 1.495 | 2.465 | 6.0 | 20.7 |
| 3 12 | 11 37.87 | + 1 34.8 | 1.465 | 2.457 | 1.1 | 20.3 |
| 3 22 | 11 28.28 | + 2 21.3 | 1.462 | 2.450 | 4.0 | 20.5 |
| 4 1 | 11 19.51 | + 3 3.7 | 1.486 | 2.442 | 8.8 | 20.8 |
| 4 11 | 11 12.60 | + 3 35.9 | 1.535 | 2.434 | 13.2 | 21.0 |
| 4 21 | 11 8.22 | + 3 54.0 | 1.605 | 2.426 | 16.9 | 21.2 |

**146713** 2001 $WZ_{26}$ 3 13.9 143°.08 8°.7/ 4.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.14 | +25 45.2 | 1.865 | 2.725 | 12.3 | 19.2 |
| 2 21 | 11 55.90 | +27 7.6 | 1.820 | 2.728 | 10.1 | 19.0 |
| 3 2 | 11 47.51 | +28 18.7 | 1.800 | 2.731 | 8.8 | 19.0 |
| 3 12 | 11 37.91 | +29 9.2 | 1.806 | 2.734 | 9.1 | 19.0 |
| 3 22 | 11 28.24 | +29 32.9 | 1.837 | 2.737 | 11.0 | 19.1 |
| 4 1 | 11 19.62 | +29 27.8 | 1.893 | 2.740 | 13.4 | 19.2 |
| 4 11 | 11 12.94 | +28 55.5 | 1.969 | 2.742 | 15.8 | 19.4 |
| 4 21 | 11 8.71 | +28 0.2 | 2.062 | 2.745 | 17.8 | 19.6 |

**423728** 2006 $BC_{135}$ 3 13.9 153°.12 2°.6/10.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.32 | + 7 28.0 | 2.098 | 2.957 | 11.2 | 21.3 |
| 2 21 | 11 52.20 | + 8 33.1 | 2.032 | 2.962 | 7.9 | 21.1 |
| 3 2 | 11 45.38 | + 9 43.9 | 1.993 | 2.966 | 4.4 | 20.8 |
| 3 12 | 11 37.58 | +10 54.0 | 1.982 | 2.970 | 2.6 | 20.7 |
| 3 22 | 11 29.62 | +11 56.5 | 2.001 | 2.973 | 5.1 | 20.9 |
| 4 1 | 11 22.37 | +12 46.0 | 2.048 | 2.977 | 8.6 | 21.1 |
| 4 11 | 11 16.58 | +13 19.0 | 2.119 | 2.980 | 11.7 | 21.3 |
| 4 21 | 11 12.70 | +13 34.5 | 2.212 | 2.982 | 14.4 | 21.5 |

**191165** 2002 $JR_{148}$ 3 13.9 76°.30 0°.7/14.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.14 | − 1 56.9 | 1.865 | 2.706 | 13.2 | 20.4 |
| 2 21 | 11 52.23 | − 1 23.3 | 1.796 | 2.713 | 9.6 | 20.2 |
| 3 2 | 11 45.46 | − 0 35.5 | 1.751 | 2.719 | 5.6 | 19.9 |
| 3 12 | 11 37.60 | + 0 21.7 | 1.734 | 2.726 | 1.3 | 19.7 |
| 3 22 | 11 29.56 | + 1 22.0 | 1.745 | 2.733 | 3.4 | 19.8 |
| 4 1 | 11 22.31 | + 2 18.8 | 1.783 | 2.739 | 7.5 | 20.1 |
| 4 11 | 11 16.65 | + 3 6.0 | 1.848 | 2.746 | 11.3 | 20.3 |
| 4 21 | 11 13.08 | + 3 40.2 | 1.934 | 2.753 | 14.5 | 20.5 |

**444307** 2005 $VF_{92}$ 3 13.9 2°.42 2°.7/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.09 | + 5 39.4 | 1.135 | 2.016 | 16.9 | 20.5 |
| 2 21 | 11 54.58 | + 6 26.5 | 1.076 | 2.015 | 12.1 | 20.2 |
| 3 2 | 11 47.15 | + 7 25.6 | 1.038 | 2.014 | 6.7 | 19.9 |
| 3 12 | 11 37.90 | + 8 27.0 | 1.023 | 2.015 | 2.7 | 19.7 |
| 3 22 | 11 28.32 | + 9 20.1 | 1.033 | 2.015 | 6.7 | 19.9 |
| 4 1 | 11 20.02 | + 9 55.8 | 1.067 | 2.017 | 12.1 | 20.2 |
| 4 11 | 11 14.26 | +10 9.2 | 1.121 | 2.019 | 17.0 | 20.5 |
| 4 21 | 11 11.65 | + 9 59.3 | 1.193 | 2.022 | 21.0 | 20.7 |

**390450** 2013 $YO_{82}$ 3 13.9 0°.06 3°.6/17.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.16 | − 9 35.3 | 2.180 | 2.983 | 12.9 | 21.7 |
| 2 21 | 11 52.13 | − 9 41.2 | 2.097 | 2.983 | 10.1 | 21.5 |
| 3 2 | 11 45.39 | − 9 30.5 | 2.038 | 2.983 | 6.9 | 21.3 |
| 3 12 | 11 37.60 | − 9 4.6 | 2.005 | 2.983 | 4.2 | 21.2 |
| 3 22 | 11 29.55 | − 8 27.1 | 2.001 | 2.983 | 4.0 | 21.1 |
| 4 1 | 11 22.13 | − 7 42.7 | 2.025 | 2.983 | 6.6 | 21.3 |
| 4 11 | 11 16.08 | − 6 57.4 | 2.075 | 2.983 | 9.8 | 21.5 |
| 4 21 | 11 11.92 | − 6 16.3 | 2.149 | 2.983 | 12.7 | 21.7 |

**201179** 2002 $PW_{9}$ 3 13.9 214°.91 2°.4/16.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.80 | − 7 7.8 | 2.266 | 3.078 | 12.2 | 21.0 |
| 2 21 | 11 51.82 | − 6 52.7 | 2.179 | 3.074 | 9.3 | 20.8 |
| 3 2 | 11 45.20 | − 6 22.2 | 2.116 | 3.071 | 6.0 | 20.6 |
| 3 12 | 11 37.57 | − 5 38.8 | 2.082 | 3.067 | 3.0 | 20.4 |
| 3 22 | 11 29.68 | − 4 46.8 | 2.076 | 3.062 | 3.2 | 20.4 |
| 4 1 | 11 22.37 | − 3 51.4 | 2.099 | 3.058 | 6.4 | 20.6 |
| 4 11 | 11 16.37 | − 2 58.5 | 2.150 | 3.053 | 9.7 | 20.8 |
| 4 21 | 11 12.18 | − 2 12.8 | 2.223 | 3.048 | 12.7 | 21.0 |

**371057** 2005 $UL_{234}$ 3 13.9 201°.86 0°.1/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.22 | − 0 2.6 | 2.422 | 3.255 | 10.8 | 22.7 |
| 2 21 | 11 52.74 | + 0 40.7 | 2.335 | 3.250 | 7.8 | 22.5 |
| 3 2 | 11 45.68 | + 1 34.8 | 2.275 | 3.245 | 4.4 | 22.2 |
| 3 12 | 11 37.65 | + 2 35.3 | 2.245 | 3.238 | 0.7 | 21.9 |
| 3 22 | 11 29.38 | + 3 37.0 | 2.245 | 3.231 | 3.1 | 22.1 |
| 4 1 | 11 21.67 | + 4 34.5 | 2.275 | 3.223 | 6.7 | 22.3 |
| 4 11 | 11 15.20 | + 5 23.1 | 2.333 | 3.215 | 10.0 | 22.5 |
| 4 21 | 11 10.46 | + 5 59.6 | 2.413 | 3.206 | 12.8 | 22.7 |

**351640** 2005 $YL_{57}$ 3 13.9 82°.84 1°.4/14.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.44 | − 3 6.2 | 1.389 | 2.232 | 16.7 | 21.4 |
| 2 21 | 11 57.04 | − 2 42.7 | 1.340 | 2.257 | 12.3 | 21.1 |
| 3 2 | 11 48.20 | − 2 0.9 | 1.313 | 2.280 | 7.2 | 20.9 |
| 3 12 | 11 38.04 | − 1 6.5 | 1.312 | 2.304 | 2.1 | 20.7 |
| 3 22 | 11 27.89 | − 0 7.6 | 1.339 | 2.327 | 4.0 | 20.8 |
| 4 1 | 11 19.05 | + 0 47.6 | 1.391 | 2.350 | 8.9 | 21.2 |
| 4 11 | 11 12.51 | + 1 31.8 | 1.468 | 2.372 | 13.3 | 21.5 |
| 4 21 | 11 8.73 | + 2 1.2 | 1.565 | 2.394 | 16.9 | 21.8 |

**65313** 2002 $JB_{80}$ 3 13.9 142°.50 0°.1/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.25 | + 0 57.1 | 2.012 | 2.856 | 12.2 | 20.0 |
| 2 21 | 11 52.94 | + 1 26.2 | 1.939 | 2.859 | 8.8 | 19.8 |
| 3 2 | 11 45.84 | + 2 5.9 | 1.891 | 2.862 | 4.9 | 19.6 |
| 3 12 | 11 37.68 | + 2 51.7 | 1.871 | 2.865 | 0.8 | 19.3 |
| 3 22 | 11 29.32 | + 3 37.9 | 1.881 | 2.867 | 3.5 | 19.5 |
| 4 1 | 11 21.68 | + 4 19.0 | 1.918 | 2.869 | 7.5 | 19.7 |
| 4 11 | 11 15.56 | + 4 50.5 | 1.982 | 2.872 | 11.1 | 20.0 |
| 4 21 | 11 11.45 | + 5 9.4 | 2.067 | 2.874 | 14.1 | 20.2 |

**11625** Francelinda 3 13.9 184°.01 2°.5/17.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.69 | − 9 7.3 | 2.466 | 3.269 | 11.6 | 18.9 |
| 2 21 | 11 50.19 | − 8 34.8 | 2.380 | 3.269 | 8.9 | 18.8 |
| 3 2 | 11 44.24 | − 7 45.9 | 2.319 | 3.269 | 5.9 | 18.6 |
| 3 12 | 11 37.42 | − 6 43.4 | 2.286 | 3.268 | 3.1 | 18.4 |
| 3 22 | 11 30.40 | − 5 31.9 | 2.282 | 3.268 | 3.1 | 18.4 |
| 4 1 | 11 23.93 | − 4 17.1 | 2.308 | 3.267 | 5.9 | 18.6 |
| 4 11 | 11 18.62 | − 3 5.1 | 2.361 | 3.266 | 8.9 | 18.7 |
| 4 21 | 11 14.94 | − 2 0.8 | 2.439 | 3.265 | 11.7 | 18.9 |

**219529** 2001 $QC_{169}$ 3 13.9 214°.86 1°.8/11.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.07 | + 3 52.7 | 2.254 | 3.103 | 10.9 | 21.4 |
| 2 21 | 11 52.04 | + 5 17.2 | 2.170 | 3.095 | 7.7 | 21.2 |
| 3 2 | 11 45.35 | + 6 52.2 | 2.113 | 3.086 | 4.2 | 20.9 |
| 3 12 | 11 37.61 | + 8 31.0 | 2.086 | 3.077 | 1.8 | 20.8 |
| 3 22 | 11 29.59 | +10 6.0 | 2.090 | 3.067 | 4.5 | 20.9 |
| 4 1 | 11 22.14 | +11 30.2 | 2.124 | 3.056 | 8.1 | 21.1 |
| 4 11 | 11 15.99 | +12 38.2 | 2.183 | 3.044 | 11.4 | 21.3 |
| 4 21 | 11 11.67 | +13 27.7 | 2.265 | 3.032 | 14.2 | 21.5 |

**72820** 2001 $HR_{1}$ 3 13.9 43°.78 1°.4/12.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.29 | + 4 30.1 | 1.744 | 2.604 | 13.0 | 19.0 |
| 2 21 | 11 53.10 | + 5 2.8 | 1.684 | 2.613 | 9.3 | 18.8 |
| 3 2 | 11 45.96 | + 5 43.7 | 1.649 | 2.623 | 5.0 | 18.6 |
| 3 12 | 11 37.70 | + 6 27.0 | 1.641 | 2.633 | 1.4 | 18.4 |
| 3 22 | 11 29.32 | + 7 6.3 | 1.660 | 2.643 | 4.5 | 18.6 |
| 4 1 | 11 21.84 | + 7 36.1 | 1.707 | 2.654 | 8.6 | 18.9 |
| 4 11 | 11 16.11 | + 7 52.6 | 1.778 | 2.665 | 12.3 | 19.1 |
| 4 21 | 11 12.59 | + 7 54.2 | 1.871 | 2.676 | 15.4 | 19.3 |

**417432** 2006 $KL_{71}$ 3 13.9 241°.96 1°.1/12.8 16

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.12 | + 2 0.1 | 1.841 | 2.691 | 12.9 | 22.2 |
| 2 21 | 11 53.88 | + 2 58.6 | 1.753 | 2.677 | 9.3 | 22.0 |
| 3 2 | 11 46.54 | + 4 10.7 | 1.689 | 2.662 | 5.1 | 21.7 |
| 3 12 | 11 37.82 | + 5 29.9 | 1.654 | 2.647 | 1.2 | 21.4 |
| 3 22 | 11 28.68 | + 6 48.5 | 1.647 | 2.630 | 4.5 | 21.6 |
| 4 1 | 11 20.20 | + 7 58.5 | 1.669 | 2.614 | 8.9 | 21.8 |
| 4 11 | 11 13.34 | + 8 53.4 | 1.715 | 2.596 | 13.0 | 22.0 |
| 4 21 | 11 8.74 | + 9 30.0 | 1.783 | 2.578 | 16.5 | 22.2 |

**381601** 2008 $VA_{66}$ 3 13.9 241°.01 3°.5/10.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.75 | +10 46.5 | 2.047 | 2.912 | 11.2 | 21.1 |
| 2 21 | 11 52.59 | +11 42.1 | 1.978 | 2.909 | 8.0 | 20.9 |
| 3 2 | 11 45.66 | +12 40.7 | 1.936 | 2.906 | 4.8 | 20.7 |
| 3 12 | 11 37.66 | +13 35.6 | 1.921 | 2.904 | 3.6 | 20.6 |
| 3 22 | 11 29.46 | +14 20.5 | 1.935 | 2.901 | 5.9 | 20.7 |
| 4 1 | 11 21.99 | +14 50.5 | 1.976 | 2.898 | 9.2 | 20.9 |
| 4 11 | 11 16.01 | +15 3.1 | 2.042 | 2.895 | 12.4 | 21.1 |
| 4 21 | 11 12.04 | +14 58.1 | 2.128 | 2.893 | 15.1 | 21.3 |

**16449** Kigoyama 3 13.9 114°.57 1°.9/16.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.89 | − 6 28.4 | 2.627 | 3.436 | 10.8 | 18.1 |
| 2 21 | 11 50.88 | − 6 7.8 | 2.554 | 3.450 | 8.1 | 17.9 |
| 3 2 | 11 44.55 | − 5 34.5 | 2.508 | 3.463 | 5.2 | 17.7 |
| 3 12 | 11 37.47 | − 4 51.2 | 2.490 | 3.476 | 2.4 | 17.6 |
| 3 22 | 11 30.28 | − 4 1.8 | 2.502 | 3.488 | 2.7 | 17.6 |
| 4 1 | 11 23.66 | − 3 10.8 | 2.543 | 3.501 | 5.5 | 17.8 |
| 4 11 | 11 18.19 | − 2 23.0 | 2.613 | 3.513 | 8.3 | 18.0 |
| 4 21 | 11 14.25 | − 1 41.9 | 2.706 | 3.524 | 10.8 | 18.2 |

**270280** 2001 $VH_{11}$ 3 13.9 134°.44 4°.2/18.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.95 | −13 42.4 | 2.411 | 3.182 | 12.8 | 22.1 |
| 2 21 | 11 53.91 | −13 39.3 | 2.336 | 3.198 | 10.2 | 21.9 |
| 3 2 | 11 46.29 | −13 17.8 | 2.286 | 3.214 | 7.4 | 21.8 |
| 3 12 | 11 37.76 | −12 39.4 | 2.263 | 3.229 | 4.9 | 21.6 |
| 3 22 | 11 29.09 | −11 47.6 | 2.269 | 3.243 | 4.4 | 21.6 |
| 4 1 | 11 21.10 | −10 47.5 | 2.304 | 3.257 | 6.3 | 21.8 |
| 4 11 | 11 14.48 | − 9 45.3 | 2.367 | 3.269 | 9.0 | 21.9 |
| 4 21 | 11 9.67 | − 8 46.5 | 2.456 | 3.282 | 11.6 | 22.1 |

**413224** 2003 $RF_{9}$ 3 13.9 205°.66 1°.9/15.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.06 | − 6 34.0 | 2.062 | 2.878 | 13.1 | 22.0 |
| 2 21 | 11 53.61 | − 5 53.3 | 1.973 | 2.872 | 9.9 | 21.8 |
| 3 2 | 11 46.29 | − 4 54.4 | 1.908 | 2.866 | 6.2 | 21.6 |
| 3 12 | 11 37.78 | − 3 40.9 | 1.871 | 2.859 | 2.5 | 21.3 |
| 3 22 | 11 28.95 | − 2 18.9 | 1.863 | 2.851 | 3.3 | 21.3 |
| 4 1 | 11 20.75 | − 0 55.8 | 1.885 | 2.842 | 7.1 | 21.6 |
| 4 11 | 11 14.04 | + 0 21.0 | 1.934 | 2.833 | 10.9 | 21.8 |
| 4 21 | 11 9.36 | + 1 26.1 | 2.006 | 2.822 | 14.2 | 22.0 |

**382327** 2013 $TH_{28}$ 3 13.9 157°.09 1°.8/12.0 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.17 | + 6 26.6 | 2.184 | 3.036 | 11.1 | 21.5 |
| 2 21 | 11 53.47 | + 7 4.3 | 2.115 | 3.041 | 7.8 | 21.3 |
| 3 2 | 11 46.09 | + 7 47.6 | 2.072 | 3.045 | 4.3 | 21.1 |
| 3 12 | 11 37.73 | + 8 31.1 | 2.058 | 3.048 | 1.8 | 20.9 |
| 3 22 | 11 29.22 | + 9 9.7 | 2.073 | 3.052 | 4.3 | 21.1 |
| 4 1 | 11 21.42 | + 9 38.7 | 2.118 | 3.055 | 7.8 | 21.3 |
| 4 11 | 11 15.07 | + 9 55.0 | 2.187 | 3.057 | 11.0 | 21.5 |
| 4 21 | 11 10.62 | + 9 57.7 | 2.279 | 3.060 | 13.8 | 21.7 |

**44490** 1998 $WL_{23}$ 3 13.9 83°.39 0°.4/14.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.85 | − 0 54.6 | 2.042 | 2.883 | 12.2 | 18.7 |
| 2 21 | 11 51.93 | − 0 24.9 | 1.969 | 2.886 | 8.9 | 18.5 |
| 3 2 | 11 45.28 | + 0 16.9 | 1.920 | 2.889 | 5.1 | 18.2 |
| 3 12 | 11 37.61 | + 1 6.6 | 1.900 | 2.892 | 1.1 | 18.0 |
| 3 22 | 11 29.75 | + 1 58.4 | 1.908 | 2.896 | 3.2 | 18.1 |
| 4 1 | 11 22.58 | + 2 46.8 | 1.945 | 2.899 | 7.2 | 18.4 |
| 4 11 | 11 16.87 | + 3 26.5 | 2.007 | 2.902 | 10.7 | 18.6 |
| 4 21 | 11 13.10 | + 3 54.4 | 2.092 | 2.906 | 13.7 | 18.8 |

**414773** 2010 $OP_{112}$ 3 13.9 125°.71 6°.2/ 7.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.81 | +20 22.0 | 2.145 | 3.001 | 11.1 | 22.8 |
| 2 21 | 11 56.70 | +21 29.7 | 2.104 | 3.020 | 8.5 | 22.7 |
| 3 2 | 11 47.82 | +22 30.7 | 2.090 | 3.038 | 6.5 | 22.6 |
| 3 12 | 11 38.00 | +23 17.6 | 2.104 | 3.056 | 6.4 | 22.6 |
| 3 22 | 11 28.22 | +23 45.3 | 2.146 | 3.073 | 8.2 | 22.8 |
| 4 1 | 11 19.42 | +23 51.4 | 2.215 | 3.089 | 10.6 | 22.9 |
| 4 11 | 11 12.34 | +23 36.5 | 2.308 | 3.104 | 13.1 | 23.1 |
| 4 21 | 11 7.41 | +23 3.1 | 2.420 | 3.119 | 15.1 | 23.3 |

**424071** 2007 $DA_{11}$ 3 13.9 15°.61 1°.5/12.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.90 | + 1 0.8 | 1.541 | 2.405 | 14.2 | 20.4 |
| 2 21 | 11 50.25 | + 2 32.3 | 1.475 | 2.407 | 10.1 | 20.1 |
| 3 2 | 11 44.50 | + 4 20.8 | 1.434 | 2.410 | 5.4 | 19.8 |
| 3 12 | 11 37.49 | + 6 16.6 | 1.420 | 2.413 | 1.5 | 19.6 |
| 3 22 | 11 30.26 | + 8 8.8 | 1.434 | 2.416 | 5.1 | 19.8 |
| 4 1 | 11 23.89 | + 9 46.8 | 1.474 | 2.420 | 9.7 | 20.1 |
| 4 11 | 11 19.31 | +11 3.2 | 1.538 | 2.425 | 13.9 | 20.4 |
| 4 21 | 11 17.04 | +11 54.8 | 1.621 | 2.429 | 17.3 | 20.6 |

**170246** 2003 $QN_{41}$ 3 13.9 158°.80 0°.7/13.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.33 | + 1 37.2 | 2.005 | 2.848 | 12.3 | 20.8 |
| 2 21 | 11 54.42 | + 2 27.8 | 1.935 | 2.856 | 8.8 | 20.6 |
| 3 2 | 11 46.67 | + 3 29.4 | 1.891 | 2.863 | 4.8 | 20.4 |
| 3 12 | 11 37.84 | + 4 36.2 | 1.876 | 2.869 | 0.9 | 20.1 |
| 3 22 | 11 28.84 | + 5 41.4 | 1.891 | 2.875 | 3.8 | 20.3 |
| 4 1 | 11 20.62 | + 6 38.7 | 1.934 | 2.880 | 7.9 | 20.6 |
| 4 11 | 11 13.98 | + 7 23.3 | 2.004 | 2.884 | 11.4 | 20.8 |
| 4 21 | 11 9.42 | + 7 52.6 | 2.095 | 2.887 | 14.5 | 21.0 |

**302021** 2000 $SW_{102}$ 3 13.9 123°.79 0°.2/13.8 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.90 | + 0 51.6 | 1.788 | 2.630 | 13.6 | 21.5 |
| 2 21 | 11 56.34 | + 1 22.6 | 1.727 | 2.646 | 9.8 | 21.3 |
| 3 2 | 11 47.75 | + 2 5.2 | 1.692 | 2.662 | 5.5 | 21.1 |
| 3 12 | 11 38.01 | + 2 53.8 | 1.684 | 2.677 | 0.8 | 20.8 |
| 3 22 | 11 28.18 | + 3 42.2 | 1.705 | 2.692 | 3.8 | 21.1 |
| 4 1 | 11 19.33 | + 4 24.2 | 1.755 | 2.706 | 8.1 | 21.4 |
| 4 11 | 11 12.33 | + 4 55.0 | 1.831 | 2.719 | 11.9 | 21.6 |
| 4 21 | 11 7.66 | + 5 12.2 | 1.928 | 2.731 | 15.1 | 21.8 |

**490310** 2009 $BQ_{38}$ 3 13.9 89°.57 0°.4/13.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.88 | + 1 50.4 | 2.192 | 3.037 | 11.3 | 21.9 |
| 2 21 | 11 51.81 | + 2 22.3 | 2.123 | 3.045 | 8.1 | 21.7 |
| 3 2 | 11 45.16 | + 3 3.2 | 2.080 | 3.052 | 4.5 | 21.5 |
| 3 12 | 11 37.59 | + 3 48.6 | 2.066 | 3.059 | 0.7 | 21.2 |
| 3 22 | 11 29.89 | + 4 33.3 | 2.081 | 3.066 | 3.3 | 21.5 |
| 4 1 | 11 22.86 | + 5 12.5 | 2.124 | 3.073 | 7.0 | 21.7 |
| 4 11 | 11 17.20 | + 5 42.0 | 2.194 | 3.081 | 10.3 | 21.9 |
| 4 21 | 11 13.36 | + 5 59.6 | 2.286 | 3.088 | 13.1 | 22.1 |

**209446** 2004 $FU_{130}$ 3 13.9 35°.69 4°.9/ 8.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.95 | +14 26.0 | 1.995 | 2.866 | 11.1 | 19.8 |
| 2 21 | 11 51.31 | +15 41.3 | 1.940 | 2.871 | 8.1 | 19.6 |
| 3 2 | 11 44.93 | +16 56.3 | 1.911 | 2.877 | 5.5 | 19.4 |
| 3 12 | 11 37.56 | +18 3.2 | 1.910 | 2.882 | 5.1 | 19.4 |
| 3 22 | 11 30.06 | +18 55.2 | 1.937 | 2.888 | 7.2 | 19.6 |
| 4 1 | 11 23.34 | +19 27.9 | 1.990 | 2.894 | 10.2 | 19.8 |
| 4 11 | 11 18.14 | +19 39.5 | 2.066 | 2.900 | 13.0 | 20.0 |
| 4 21 | 11 14.91 | +19 31.0 | 2.162 | 2.906 | 15.5 | 20.1 |

**50598** 2000 $EH_{48}$ 3 13.9 120°.97 1°.4/15.5 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.85 | − 5 48.3 | 1.987 | 2.810 | 13.2 | 18.7 |
| 2 21 | 11 52.61 | − 4 49.8 | 1.921 | 2.826 | 9.8 | 18.5 |
| 3 2 | 11 45.64 | − 3 33.7 | 1.879 | 2.841 | 5.9 | 18.3 |
| 3 12 | 11 37.67 | − 2 5.3 | 1.866 | 2.856 | 2.0 | 18.1 |
| 3 22 | 11 29.59 | − 0 32.0 | 1.882 | 2.870 | 3.1 | 18.2 |
| 4 1 | 11 22.31 | + 0 58.4 | 1.927 | 2.884 | 7.0 | 18.4 |
| 4 11 | 11 16.56 | + 2 18.8 | 2.000 | 2.897 | 10.6 | 18.7 |
| 4 21 | 11 12.81 | + 3 24.4 | 2.095 | 2.909 | 13.7 | 18.9 |

**228171** 2009 $SG_{211}$ 3 13.9 245°.25 1°.2/12.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.56 | + 3 51.6 | 1.963 | 2.813 | 12.2 | 21.5 |
| 2 21 | 11 54.06 | + 4 27.0 | 1.878 | 2.802 | 8.8 | 21.3 |
| 3 2 | 11 46.58 | + 5 11.6 | 1.818 | 2.791 | 4.8 | 21.0 |
| 3 12 | 11 37.85 | + 6 0.0 | 1.787 | 2.779 | 1.2 | 20.8 |
| 3 22 | 11 28.78 | + 6 46.4 | 1.784 | 2.767 | 4.2 | 20.9 |
| 4 1 | 11 20.37 | + 7 24.7 | 1.810 | 2.754 | 8.4 | 21.2 |
| 4 11 | 11 13.52 | + 7 50.6 | 1.861 | 2.742 | 12.1 | 21.4 |
| 4 21 | 11 8.81 | + 8 1.8 | 1.933 | 2.728 | 15.4 | 21.6 |

**456936** 2007 $YC_{53}$ 3 13.9 27°.91 2°.2/12.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.79 | + 4 14.5 | 1.249 | 2.126 | 15.9 | 21.0 |
| 2 21 | 11 52.60 | + 5 14.5 | 1.197 | 2.135 | 11.3 | 20.7 |
| 3 2 | 11 45.89 | + 6 27.2 | 1.168 | 2.144 | 6.1 | 20.5 |
| 3 12 | 11 37.73 | + 7 42.8 | 1.163 | 2.155 | 2.2 | 20.3 |
| 3 22 | 11 29.41 | + 8 50.9 | 1.183 | 2.166 | 6.0 | 20.5 |
| 4 1 | 11 22.29 | + 9 42.7 | 1.228 | 2.178 | 11.0 | 20.8 |
| 4 11 | 11 17.41 | +10 12.8 | 1.295 | 2.190 | 15.4 | 21.1 |
| 4 21 | 11 15.28 | +10 20.1 | 1.380 | 2.203 | 19.0 | 21.4 |

**73887** 1997 $ED_{7}$ 3 13.9 127°.42 3°.3/17.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.01 | − 8 53.5 | 1.799 | 2.611 | 14.9 | 19.7 |
| 2 21 | 11 54.39 | − 8 40.3 | 1.728 | 2.621 | 11.4 | 19.5 |
| 3 2 | 11 46.74 | − 8 6.9 | 1.680 | 2.631 | 7.6 | 19.3 |
| 3 12 | 11 37.87 | − 7 16.1 | 1.658 | 2.641 | 4.1 | 19.1 |
| 3 22 | 11 28.79 | − 6 13.5 | 1.664 | 2.650 | 4.0 | 19.1 |
| 4 1 | 11 20.58 | − 5 6.2 | 1.699 | 2.658 | 7.5 | 19.3 |
| 4 11 | 11 14.12 | − 4 2.1 | 1.759 | 2.667 | 11.2 | 19.6 |
| 4 21 | 11 9.93 | − 3 7.2 | 1.841 | 2.674 | 14.6 | 19.8 |

**410352** 2007 $VC_{11}$ 3 13.9 204°.04 2°.4/16.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.12 | − 7 9.2 | 2.215 | 3.020 | 12.6 | 22.4 |
| 2 21 | 11 55.01 | − 6 52.2 | 2.122 | 3.014 | 9.7 | 22.2 |
| 3 2 | 11 47.06 | − 6 19.1 | 2.054 | 3.007 | 6.2 | 21.9 |
| 3 12 | 11 37.94 | − 5 32.2 | 2.014 | 2.999 | 3.0 | 21.7 |
| 3 22 | 11 28.48 | − 4 36.1 | 2.005 | 2.991 | 3.4 | 21.7 |
| 4 1 | 11 19.62 | − 3 36.4 | 2.025 | 2.981 | 6.8 | 21.9 |
| 4 11 | 11 12.19 | − 2 39.4 | 2.072 | 2.970 | 10.3 | 22.1 |
| 4 21 | 11 6.73 | − 1 50.1 | 2.144 | 2.959 | 13.4 | 22.3 |

**427409** 1999 $UA_{22}$ 3 13.9 143°.59 0°.8/14.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.24 | − 2 29.9 | 2.191 | 3.023 | 11.9 | 21.5 |
| 2 21 | 11 52.11 | − 1 55.3 | 2.117 | 3.029 | 8.7 | 21.3 |
| 3 2 | 11 45.35 | − 1 7.8 | 2.069 | 3.035 | 5.1 | 21.1 |
| 3 12 | 11 37.64 | − 0 11.7 | 2.049 | 3.041 | 1.3 | 20.9 |
| 3 22 | 11 29.77 | + 0 47.8 | 2.058 | 3.046 | 3.0 | 21.0 |
| 4 1 | 11 22.56 | + 1 44.7 | 2.097 | 3.051 | 6.7 | 21.2 |
| 4 11 | 11 16.72 | + 2 33.8 | 2.162 | 3.056 | 10.1 | 21.5 |
| 4 21 | 11 12.72 | + 3 11.7 | 2.250 | 3.061 | 13.0 | 21.7 |

**207643** 2006 $UW_{181}$ 3 13.9 207°.68 0°.5/14.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.60 | − 3 4.1 | 2.439 | 3.270 | 10.8 | 20.1 |
| 2 21 | 11 49.43 | − 2 5.7 | 2.357 | 3.269 | 7.9 | 19.9 |
| 3 2 | 11 43.84 | − 0 54.0 | 2.301 | 3.267 | 4.6 | 19.7 |
| 3 12 | 11 37.40 | + 0 26.6 | 2.274 | 3.266 | 1.1 | 19.4 |
| 3 22 | 11 30.79 | + 1 50.2 | 2.277 | 3.264 | 2.8 | 19.5 |
| 4 1 | 11 24.70 | + 3 10.7 | 2.309 | 3.263 | 6.2 | 19.8 |
| 4 11 | 11 19.76 | + 4 22.4 | 2.369 | 3.261 | 9.4 | 20.0 |
| 4 21 | 11 16.40 | + 5 21.4 | 2.453 | 3.259 | 12.2 | 20.1 |

**4685** Karetnikov 3 13.9 87°.58 0°.6/13.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.84 | + 2 25.8 | 2.351 | 3.196 | 10.7 | 17.4 |
| 2 21 | 11 51.64 | + 3 1.3 | 2.291 | 3.213 | 7.6 | 17.2 |
| 3 2 | 11 45.01 | + 3 44.5 | 2.258 | 3.230 | 4.1 | 17.0 |
| 3 12 | 11 37.58 | + 4 31.0 | 2.254 | 3.247 | 0.7 | 16.7 |
| 3 22 | 11 30.10 | + 5 15.8 | 2.279 | 3.263 | 3.2 | 17.0 |
| 4 1 | 11 23.29 | + 5 54.6 | 2.333 | 3.280 | 6.6 | 17.2 |
| 4 11 | 11 17.78 | + 6 23.7 | 2.414 | 3.296 | 9.7 | 17.4 |
| 4 21 | 11 13.97 | + 6 41.3 | 2.518 | 3.312 | 12.2 | 17.6 |

**488781** 2004 $TW_{337}$ 3 13.9 224°.70 1°.9/12.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.58 | + 6 13.9 | 1.999 | 2.855 | 11.8 | 21.1 |
| 2 21 | 11 53.98 | + 6 48.9 | 1.923 | 2.850 | 8.4 | 20.9 |
| 3 2 | 11 46.49 | + 7 30.3 | 1.873 | 2.846 | 4.7 | 20.6 |
| 3 12 | 11 37.85 | + 8 12.6 | 1.851 | 2.841 | 1.9 | 20.4 |
| 3 22 | 11 28.96 | + 8 50.2 | 1.857 | 2.837 | 4.6 | 20.6 |
| 4 1 | 11 20.80 | + 9 17.8 | 1.892 | 2.832 | 8.4 | 20.8 |
| 4 11 | 11 14.20 | + 9 32.1 | 1.952 | 2.827 | 12.0 | 21.0 |
| 4 21 | 11 9.68 | + 9 31.7 | 2.033 | 2.821 | 15.0 | 21.2 |

**189181** 2003 $AS_{66}$ 3 13.9 312°.04 2°.1/15.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.53 | − 1 56.2 | 1.556 | 2.398 | 15.3 | 19.3 |
| 2 21 | 11 56.72 | − 2 22.9 | 1.469 | 2.384 | 11.5 | 19.0 |
| 3 2 | 11 48.32 | − 2 36.7 | 1.405 | 2.370 | 7.1 | 18.7 |
| 3 12 | 11 38.18 | − 2 39.5 | 1.366 | 2.356 | 2.7 | 18.4 |
| 3 22 | 11 27.47 | − 2 34.8 | 1.355 | 2.343 | 4.1 | 18.5 |
| 4 1 | 11 17.55 | − 2 27.3 | 1.370 | 2.330 | 8.9 | 18.7 |
| 4 11 | 11 9.62 | − 2 22.7 | 1.410 | 2.317 | 13.5 | 19.0 |
| 4 21 | 11 4.45 | − 2 25.0 | 1.470 | 2.305 | 17.4 | 19.2 |

**61774** 2000 $QV_{171}$ 3 13.9 165°.95 0°.8/14.9 18 R

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.19 | − 1 54.7 | 2.770 | 3.593 | 9.9 | 19.9 |
| 2 21 | 11 51.81 | − 1 41.0 | 2.690 | 3.597 | 7.3 | 19.8 |
| 3 2 | 11 45.10 | − 1 18.2 | 2.636 | 3.600 | 4.3 | 19.6 |
| 3 12 | 11 37.62 | − 0 49.0 | 2.611 | 3.603 | 1.3 | 19.3 |
| 3 22 | 11 29.98 | − 0 16.7 | 2.618 | 3.605 | 2.5 | 19.4 |
| 4 1 | 11 22.86 | + 0 14.8 | 2.654 | 3.607 | 5.5 | 19.7 |
| 4 11 | 11 16.83 | + 0 42.2 | 2.718 | 3.609 | 8.4 | 19.8 |
| 4 21 | 11 12.29 | + 1 2.6 | 2.806 | 3.611 | 10.9 | 20.0 |

**282587** 2005 $EW_{173}$ 3 13.9 130°.03 2°.0/16.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.46 | − 6 38.6 | 2.147 | 2.966 | 12.5 | 20.5 |
| 2 21 | 11 50.92 | − 6 7.1 | 2.067 | 2.968 | 9.4 | 20.3 |
| 3 2 | 11 44.74 | − 5 19.0 | 2.012 | 2.970 | 6.0 | 20.1 |
| 3 12 | 11 37.57 | − 4 18.0 | 1.984 | 2.971 | 2.6 | 19.8 |
| 3 22 | 11 30.19 | − 3 9.2 | 1.985 | 2.973 | 3.1 | 19.9 |
| 4 1 | 11 23.44 | − 1 59.1 | 2.015 | 2.975 | 6.5 | 20.1 |
| 4 11 | 11 18.05 | − 0 54.2 | 2.072 | 2.976 | 10.0 | 20.3 |
| 4 21 | 11 14.49 | + 0 0.8 | 2.152 | 2.978 | 13.0 | 20.5 |

**375793** 2009 $SR_{339}$ 3 13.9 85°.61 3°.1/17.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.94 | − 9 16.9 | 1.925 | 2.737 | 14.1 | 21.0 |
| 2 21 | 11 52.06 | − 8 51.3 | 1.857 | 2.750 | 10.8 | 20.8 |
| 3 2 | 11 45.39 | − 8 6.0 | 1.812 | 2.763 | 7.1 | 20.6 |
| 3 12 | 11 37.67 | − 7 4.2 | 1.793 | 2.776 | 3.8 | 20.4 |
| 3 22 | 11 29.81 | − 5 51.9 | 1.803 | 2.789 | 3.7 | 20.5 |
| 4 1 | 11 22.74 | − 4 36.3 | 1.841 | 2.802 | 6.9 | 20.7 |
| 4 11 | 11 17.23 | − 3 24.7 | 1.905 | 2.815 | 10.4 | 20.9 |
| 4 21 | 11 13.76 | − 2 23.0 | 1.993 | 2.827 | 13.5 | 21.1 |

**368238** 2001 $UO_{133}$ 3 13.9 201°.62 1°.7/15.8 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.22 | − 5 33.0 | 2.245 | 3.062 | 12.1 | 22.7 |
| 2 21 | 11 52.88 | − 5 2.0 | 2.157 | 3.058 | 9.1 | 22.5 |
| 3 2 | 11 45.84 | − 4 15.7 | 2.094 | 3.053 | 5.6 | 22.3 |
| 3 12 | 11 37.76 | − 3 17.5 | 2.060 | 3.048 | 2.3 | 22.0 |
| 3 22 | 11 29.40 | − 2 12.3 | 2.055 | 3.042 | 3.0 | 22.1 |
| 4 1 | 11 21.64 | − 1 6.2 | 2.079 | 3.036 | 6.6 | 22.3 |
| 4 11 | 11 15.21 | − 0 5.2 | 2.131 | 3.029 | 10.1 | 22.5 |
| 4 21 | 11 10.65 | + 0 45.9 | 2.206 | 3.021 | 13.1 | 22.7 |

**260817** 2005 $OR_{23}$ 3 13.9 155°.37 3°.5/17.6 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.84 | −10 15.7 | 2.194 | 2.988 | 13.1 | 22.2 |
| 2 21 | 11 54.02 | −10 11.0 | 2.114 | 2.995 | 10.2 | 22.1 |
| 3 2 | 11 46.46 | − 9 48.7 | 2.059 | 3.002 | 7.0 | 21.9 |
| 3 12 | 11 37.85 | − 9 10.6 | 2.031 | 3.008 | 4.2 | 21.7 |
| 3 22 | 11 29.04 | − 8 20.7 | 2.032 | 3.014 | 3.9 | 21.7 |
| 4 1 | 11 20.90 | − 7 24.4 | 2.062 | 3.019 | 6.6 | 21.9 |
| 4 11 | 11 14.21 | − 6 28.2 | 2.120 | 3.024 | 9.8 | 22.1 |
| 4 21 | 11 9.48 | − 5 37.3 | 2.201 | 3.028 | 12.7 | 22.3 |

**371169** 2005 $YD_{34}$ 3 13.9 66°.32 2°.4/11.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.40 | + 6 14.4 | 1.704 | 2.568 | 13.1 | 21.0 |
| 2 21 | 11 53.17 | + 7 13.6 | 1.654 | 2.586 | 9.2 | 20.8 |
| 3 2 | 11 46.00 | + 8 19.9 | 1.629 | 2.604 | 5.1 | 20.6 |
| 3 12 | 11 37.77 | + 9 25.5 | 1.632 | 2.622 | 2.4 | 20.4 |
| 3 22 | 11 29.49 | +10 23.0 | 1.662 | 2.639 | 5.3 | 20.6 |
| 4 1 | 11 22.20 | +11 6.3 | 1.720 | 2.658 | 9.2 | 20.9 |
| 4 11 | 11 16.69 | +11 31.9 | 1.801 | 2.676 | 12.8 | 21.2 |
| 4 21 | 11 13.41 | +11 39.1 | 1.903 | 2.694 | 15.7 | 21.4 |

**75118** 1999 $VP_{60}$ 3 13.9 254°.56 0°.2/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.34 | + 0 11.6 | 1.752 | 2.599 | 13.6 | 19.6 |
| 2 21 | 11 54.16 | + 0 50.8 | 1.663 | 2.585 | 9.9 | 19.3 |
| 3 2 | 11 46.77 | + 1 44.6 | 1.599 | 2.570 | 5.6 | 19.0 |
| 3 12 | 11 37.93 | + 2 47.6 | 1.562 | 2.555 | 0.9 | 18.6 |
| 3 22 | 11 28.65 | + 3 52.9 | 1.553 | 2.540 | 4.0 | 18.8 |
| 4 1 | 11 20.06 | + 4 52.7 | 1.572 | 2.525 | 8.7 | 19.1 |
| 4 11 | 11 13.18 | + 5 40.4 | 1.616 | 2.509 | 13.0 | 19.3 |
| 4 21 | 11 8.65 | + 6 12.2 | 1.681 | 2.492 | 16.7 | 19.5 |

**462198** 2007 $VV_{2}$ 3 13.9 126°.81 2°.9/11.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.91 | + 8 42.2 | 1.904 | 2.760 | 12.3 | 22.1 |
| 2 21 | 11 56.25 | + 9 35.3 | 1.850 | 2.777 | 8.7 | 21.9 |
| 3 2 | 11 47.67 | +10 32.3 | 1.822 | 2.793 | 5.0 | 21.8 |
| 3 12 | 11 38.04 | +11 26.2 | 1.822 | 2.809 | 3.0 | 21.6 |
| 3 22 | 11 28.37 | +12 10.7 | 1.852 | 2.824 | 5.5 | 21.8 |
| 4 1 | 11 19.67 | +12 40.9 | 1.910 | 2.838 | 9.1 | 22.1 |
| 4 11 | 11 12.74 | +12 54.3 | 1.993 | 2.852 | 12.4 | 22.3 |
| 4 21 | 11 8.04 | +12 50.9 | 2.097 | 2.865 | 15.2 | 22.5 |

**163379** 2002 $PK_{85}$ 3 13.9 199°.69 1°.3/12.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.27 | + 4 30.8 | 2.305 | 3.155 | 10.7 | 20.6 |
| 2 21 | 11 52.11 | + 5 12.6 | 2.228 | 3.153 | 7.6 | 20.4 |
| 3 2 | 11 45.37 | + 6 1.5 | 2.177 | 3.150 | 4.1 | 20.2 |
| 3 12 | 11 37.68 | + 6 52.8 | 2.156 | 3.148 | 1.3 | 19.9 |
| 3 22 | 11 29.80 | + 7 41.1 | 2.164 | 3.145 | 3.8 | 20.1 |
| 4 1 | 11 22.51 | + 8 21.6 | 2.201 | 3.142 | 7.3 | 20.3 |
| 4 11 | 11 16.54 | + 8 50.5 | 2.264 | 3.138 | 10.5 | 20.5 |
| 4 21 | 11 12.33 | + 9 5.9 | 2.349 | 3.135 | 13.3 | 20.7 |

**351531** 2005 $SC_{173}$ 3 13.9 77°.26 3°.0/16.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.11 | − 7 18.6 | 1.310 | 2.147 | 17.9 | 20.8 |
| 2 21 | 11 54.99 | − 6 56.7 | 1.249 | 2.159 | 13.6 | 20.5 |
| 3 2 | 11 47.27 | − 6 9.6 | 1.210 | 2.170 | 8.6 | 20.3 |
| 3 12 | 11 38.01 | − 5 2.1 | 1.194 | 2.182 | 3.9 | 20.0 |
| 3 22 | 11 28.53 | − 3 42.6 | 1.205 | 2.194 | 4.4 | 20.1 |
| 4 1 | 11 20.23 | − 2 21.7 | 1.241 | 2.205 | 9.2 | 20.4 |
| 4 11 | 11 14.23 | − 1 9.6 | 1.301 | 2.217 | 13.8 | 20.7 |
| 4 21 | 11 11.08 | − 0 13.1 | 1.381 | 2.228 | 17.7 | 21.0 |

**294471** 2007 $VR_{327}$ 3 13.9 161°.15 0°.1/13.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.14 | + 0 59.1 | 2.426 | 3.263 | 10.7 | 21.4 |
| 2 21 | 11 52.64 | + 1 17.5 | 2.350 | 3.266 | 7.7 | 21.2 |
| 3 2 | 11 45.63 | + 1 44.3 | 2.299 | 3.268 | 4.3 | 21.0 |
| 3 12 | 11 37.73 | + 2 16.1 | 2.278 | 3.271 | 0.7 | 20.7 |
| 3 22 | 11 29.66 | + 2 48.7 | 2.287 | 3.273 | 2.9 | 20.9 |
| 4 1 | 11 22.20 | + 3 18.0 | 2.325 | 3.275 | 6.4 | 21.1 |
| 4 11 | 11 15.99 | + 3 40.2 | 2.390 | 3.277 | 9.5 | 21.3 |
| 4 21 | 11 11.50 | + 3 53.2 | 2.478 | 3.279 | 12.2 | 21.5 |

**301834** 2011 $QT_{33}$ 3 13.9 204°.89 1°.8/16.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.74 | − 5 6.1 | 2.673 | 3.484 | 10.6 | 21.3 |
| 2 21 | 11 52.31 | − 5 3.1 | 2.584 | 3.481 | 8.0 | 21.1 |
| 3 2 | 11 45.45 | − 4 49.0 | 2.521 | 3.477 | 5.0 | 20.9 |
| 3 12 | 11 37.71 | − 4 25.6 | 2.486 | 3.473 | 2.3 | 20.7 |
| 3 22 | 11 29.75 | − 3 56.1 | 2.482 | 3.468 | 2.7 | 20.8 |
| 4 1 | 11 22.28 | − 3 24.3 | 2.507 | 3.464 | 5.6 | 20.9 |
| 4 11 | 11 15.94 | − 2 54.2 | 2.561 | 3.459 | 8.6 | 21.1 |
| 4 21 | 11 11.17 | − 2 29.3 | 2.639 | 3.453 | 11.2 | 21.3 |

**224349** 2005 $UG_{105}$ 3 13.9 74°.12 1°.6/12.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.90 | + 4 10.7 | 1.762 | 2.622 | 13.0 | 20.5 |
| 2 21 | 11 52.91 | + 5 1.2 | 1.696 | 2.625 | 9.2 | 20.3 |
| 3 2 | 11 45.94 | + 6 1.5 | 1.655 | 2.629 | 5.0 | 20.0 |
| 3 12 | 11 37.79 | + 7 4.6 | 1.641 | 2.633 | 1.6 | 19.8 |
| 3 22 | 11 29.45 | + 8 3.5 | 1.655 | 2.637 | 4.7 | 20.0 |
| 4 1 | 11 21.95 | + 8 51.4 | 1.696 | 2.641 | 8.9 | 20.3 |
| 4 11 | 11 16.15 | + 9 23.8 | 1.762 | 2.644 | 12.6 | 20.5 |
| 4 21 | 11 12.57 | + 9 38.8 | 1.849 | 2.648 | 15.8 | 20.7 |

**75107** 1999 $VW_{54}$ 3 13.9 257°.23 2°.1/12.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.76 | + 5 39.1 | 1.683 | 2.543 | 13.4 | 19.7 |
| 2 21 | 11 55.22 | + 6 20.4 | 1.602 | 2.531 | 9.6 | 19.5 |
| 3 2 | 11 47.38 | + 7 10.9 | 1.545 | 2.519 | 5.4 | 19.2 |
| 3 12 | 11 38.05 | + 8 3.7 | 1.516 | 2.507 | 2.1 | 18.9 |
| 3 22 | 11 28.32 | + 8 51.6 | 1.514 | 2.494 | 5.3 | 19.1 |
| 4 1 | 11 19.38 | + 9 27.9 | 1.539 | 2.482 | 9.8 | 19.3 |
| 4 11 | 11 12.27 | + 9 47.9 | 1.589 | 2.469 | 13.9 | 19.6 |
| 4 21 | 11 7.64 | + 9 49.9 | 1.658 | 2.455 | 17.4 | 19.8 |

**309392** 2007 $TB_{186}$ 3 13.9 117°.82 1°.2/12.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.14 | + 2 23.0 | 1.686 | 2.539 | 13.7 | 21.4 |
| 2 21 | 11 54.51 | + 3 21.6 | 1.627 | 2.552 | 9.8 | 21.2 |
| 3 2 | 11 46.82 | + 4 32.1 | 1.592 | 2.565 | 5.3 | 21.0 |
| 3 12 | 11 37.94 | + 5 46.9 | 1.585 | 2.577 | 1.3 | 20.7 |
| 3 22 | 11 28.93 | + 6 58.1 | 1.606 | 2.589 | 4.6 | 21.0 |
| 4 1 | 11 20.89 | + 7 58.1 | 1.655 | 2.601 | 8.9 | 21.3 |
| 4 11 | 11 14.70 | + 8 41.8 | 1.728 | 2.612 | 12.8 | 21.5 |
| 4 21 | 11 10.84 | + 9 7.2 | 1.823 | 2.622 | 16.0 | 21.8 |

**296583** 2009 $RD_{14}$ 3 13.9 139°.88 0°.1/13.9 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.88 | + 0 16.6 | 2.109 | 2.949 | 11.9 | 22.4 |
| 2 21 | 11 53.32 | + 0 53.2 | 2.040 | 2.958 | 8.6 | 22.2 |
| 3 2 | 11 46.06 | + 1 40.7 | 1.997 | 2.966 | 4.8 | 22.0 |
| 3 12 | 11 37.81 | + 2 34.3 | 1.981 | 2.975 | 0.8 | 21.7 |
| 3 22 | 11 29.42 | + 3 28.4 | 1.996 | 2.982 | 3.3 | 21.9 |
| 4 1 | 11 21.75 | + 4 17.3 | 2.039 | 2.990 | 7.2 | 22.2 |
| 4 11 | 11 15.56 | + 4 56.5 | 2.109 | 2.997 | 10.6 | 22.4 |
| 4 21 | 11 11.30 | + 5 23.0 | 2.201 | 3.003 | 13.5 | 22.6 |

**496880** 2000 $SH_{233}$ 3 13.9 143°.10 0°.2/14.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.74 | + 1 42.1 | 2.849 | 3.674 | 9.6 | 21.0 |
| 2 21 | 11 54.97 | + 1 38.3 | 2.773 | 3.683 | 6.9 | 20.9 |
| 3 2 | 11 46.84 | + 1 40.4 | 2.725 | 3.692 | 3.9 | 20.7 |
| 3 12 | 11 37.94 | + 1 46.1 | 2.707 | 3.700 | 0.7 | 20.4 |
| 3 22 | 11 28.93 | + 1 52.6 | 2.722 | 3.708 | 2.5 | 20.6 |
| 4 1 | 11 20.49 | + 1 57.3 | 2.767 | 3.716 | 5.6 | 20.8 |
| 4 11 | 11 13.23 | + 1 57.7 | 2.841 | 3.723 | 8.4 | 21.0 |
| 4 21 | 11 7.55 | + 1 52.3 | 2.940 | 3.729 | 10.8 | 21.2 |

**427429** 2000 $SR_{304}$ 3 13.9 126°.66 0°.6/13.4 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.45 | + 3 19.9 | 2.309 | 3.146 | 11.1 | 21.7 |
| 2 21 | 11 55.67 | + 3 37.1 | 2.245 | 3.163 | 7.9 | 21.5 |
| 3 2 | 11 47.28 | + 4 0.9 | 2.209 | 3.179 | 4.4 | 21.3 |
| 3 12 | 11 38.01 | + 4 27.4 | 2.201 | 3.194 | 0.8 | 21.1 |
| 3 22 | 11 28.68 | + 4 52.4 | 2.225 | 3.209 | 3.3 | 21.3 |
| 4 1 | 11 20.11 | + 5 12.1 | 2.279 | 3.224 | 6.9 | 21.5 |
| 4 11 | 11 13.02 | + 5 23.4 | 2.359 | 3.237 | 10.0 | 21.8 |
| 4 21 | 11 7.82 | + 5 24.8 | 2.463 | 3.251 | 12.7 | 22.0 |

**375223** 2008 $FV_{52}$ 3 13.9 265°.23 0°.1/13.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.51 | − 0 21.8 | 1.859 | 2.705 | 13.0 | 21.9 |
| 2 21 | 11 52.75 | + 0 25.6 | 1.768 | 2.689 | 9.5 | 21.6 |
| 3 2 | 11 45.96 | + 1 28.1 | 1.702 | 2.673 | 5.4 | 21.3 |
| 3 12 | 11 37.83 | + 2 40.3 | 1.663 | 2.656 | 0.8 | 21.0 |
| 3 22 | 11 29.29 | + 3 55.1 | 1.652 | 2.639 | 3.8 | 21.2 |
| 4 1 | 11 21.37 | + 5 4.9 | 1.670 | 2.622 | 8.3 | 21.4 |
| 4 11 | 11 15.00 | + 6 2.7 | 1.713 | 2.605 | 12.4 | 21.6 |
| 4 21 | 11 10.82 | + 6 44.5 | 1.777 | 2.587 | 15.9 | 21.8 |

**292140** 2006 $RH_{83}$ 3 13.9 323°.05 2°.1/16.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 53.39 | − 7 52.5 | 2.114 | 2.932 | 12.7 | 20.4 |
| 2 21 | 11 49.52 | − 7 5.1 | 2.027 | 2.927 | 9.7 | 20.2 |
| 3 2 | 11 44.01 | − 5 58.8 | 1.965 | 2.922 | 6.2 | 20.0 |
| 3 12 | 11 37.50 | − 4 37.2 | 1.931 | 2.917 | 2.8 | 19.7 |
| 3 22 | 11 30.75 | − 3 6.7 | 1.925 | 2.913 | 3.1 | 19.8 |
| 4 1 | 11 24.58 | − 1 34.5 | 1.948 | 2.908 | 6.6 | 20.0 |
| 4 11 | 11 19.73 | − 0 8.3 | 1.997 | 2.904 | 10.2 | 20.2 |
| 4 21 | 11 16.69 | + 1 6.1 | 2.071 | 2.900 | 13.3 | 20.4 |

**197605** 2004 $JH_{15}$ 3 13.9 248°.81 1°.3/12.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.75 | + 4 48.4 | 2.532 | 3.382 | 9.8 | 20.9 |
| 2 21 | 11 50.98 | + 5 30.5 | 2.447 | 3.371 | 7.0 | 20.7 |
| 3 2 | 11 44.75 | + 6 19.4 | 2.388 | 3.361 | 3.8 | 20.5 |
| 3 12 | 11 37.62 | + 7 10.5 | 2.358 | 3.350 | 1.3 | 20.3 |
| 3 22 | 11 30.27 | + 7 59.0 | 2.359 | 3.339 | 3.7 | 20.4 |
| 4 1 | 11 23.41 | + 8 40.4 | 2.388 | 3.328 | 6.9 | 20.6 |
| 4 11 | 11 17.70 | + 9 10.9 | 2.444 | 3.316 | 9.9 | 20.8 |
| 4 21 | 11 13.59 | + 9 28.8 | 2.523 | 3.305 | 12.5 | 21.0 |

**239238** 2006 $SW_{246}$ 3 13.9 313°.87 0°.7/13.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.87 | + 2 15.6 | 1.854 | 2.710 | 12.6 | 20.5 |
| 2 21 | 11 51.59 | + 2 49.6 | 1.763 | 2.690 | 9.1 | 20.2 |
| 3 2 | 11 45.31 | + 3 35.2 | 1.697 | 2.670 | 5.1 | 19.9 |
| 3 12 | 11 37.74 | + 4 27.2 | 1.657 | 2.650 | 0.9 | 19.6 |
| 3 22 | 11 29.75 | + 5 19.5 | 1.646 | 2.631 | 4.1 | 19.8 |
| 4 1 | 11 22.36 | + 6 5.4 | 1.661 | 2.612 | 8.4 | 20.0 |
| 4 11 | 11 16.49 | + 6 39.3 | 1.701 | 2.594 | 12.5 | 20.2 |
| 4 21 | 11 12.77 | + 6 58.2 | 1.762 | 2.576 | 15.9 | 20.4 |

**434942** 2006 $UM_{9}$ 3 13.9 188°.68 0°.3/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.58 | + 1 26.4 | 2.860 | 3.696 | 9.2 | 21.9 |
| 2 21 | 11 50.67 | + 2 2.7 | 2.778 | 3.695 | 6.6 | 21.8 |
| 3 2 | 11 44.49 | + 2 46.7 | 2.724 | 3.694 | 3.7 | 21.6 |
| 3 12 | 11 37.58 | + 3 34.8 | 2.699 | 3.692 | 0.6 | 21.3 |
| 3 22 | 11 30.51 | + 4 22.8 | 2.705 | 3.690 | 2.7 | 21.5 |
| 4 1 | 11 23.90 | + 5 6.8 | 2.741 | 3.687 | 5.8 | 21.7 |
| 4 11 | 11 18.31 | + 5 43.1 | 2.804 | 3.685 | 8.5 | 21.9 |
| 4 21 | 11 14.14 | + 6 9.6 | 2.892 | 3.681 | 10.9 | 22.0 |

**289139** 2004 $VR_{7}$ 3 13.9 74°.07 5°.2/ 9.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.38 | +12 28.7 | 1.373 | 2.248 | 15.0 | 20.2 |
| 2 21 | 11 57.08 | +13 32.7 | 1.332 | 2.266 | 10.7 | 20.0 |
| 3 2 | 11 48.30 | +14 37.1 | 1.314 | 2.284 | 6.7 | 19.8 |
| 3 12 | 11 38.19 | +15 31.7 | 1.322 | 2.303 | 5.3 | 19.8 |
| 3 22 | 11 28.13 | +16 8.3 | 1.357 | 2.321 | 8.1 | 20.0 |
| 4 1 | 11 19.44 | +16 22.1 | 1.416 | 2.339 | 12.0 | 20.2 |
| 4 11 | 11 13.10 | +16 12.4 | 1.497 | 2.357 | 15.7 | 20.5 |
| 4 21 | 11 9.58 | +15 41.6 | 1.596 | 2.375 | 18.8 | 20.8 |

**522616** 2016 $FM_{65}$ 3 13.9 212°.19 4°.4/ 8.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.43 | +12 54.6 | 2.099 | 2.964 | 10.9 | 22.4 |
| 2 21 | 11 53.14 | +14 11.8 | 2.030 | 2.959 | 7.9 | 22.2 |
| 3 2 | 11 46.04 | +15 31.1 | 1.986 | 2.953 | 5.2 | 22.0 |
| 3 12 | 11 37.84 | +16 44.8 | 1.972 | 2.947 | 4.5 | 21.9 |
| 3 22 | 11 29.41 | +17 45.7 | 1.986 | 2.941 | 6.8 | 22.0 |
| 4 1 | 11 21.66 | +18 28.6 | 2.028 | 2.934 | 9.9 | 22.2 |
| 4 11 | 11 15.40 | +18 51.0 | 2.093 | 2.927 | 12.9 | 22.4 |
| 4 21 | 11 11.14 | +18 53.1 | 2.179 | 2.919 | 15.5 | 22.6 |

**405406** 2004 $RN_{18}$ 3 13.9 213°.74 0°.1/14.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.33 | − 0 59.0 | 1.774 | 2.615 | 13.7 | 22.0 |
| 2 21 | 11 54.80 | − 0 11.6 | 1.691 | 2.609 | 10.0 | 21.8 |
| 3 2 | 11 47.11 | + 0 51.7 | 1.632 | 2.602 | 5.7 | 21.5 |
| 3 12 | 11 38.04 | + 2 5.1 | 1.601 | 2.594 | 1.0 | 21.1 |
| 3 22 | 11 28.59 | + 3 21.2 | 1.598 | 2.585 | 3.9 | 21.3 |
| 4 1 | 11 19.89 | + 4 31.9 | 1.624 | 2.576 | 8.5 | 21.6 |
| 4 11 | 11 12.92 | + 5 30.3 | 1.675 | 2.566 | 12.7 | 21.8 |
| 4 21 | 11 8.29 | + 6 12.1 | 1.748 | 2.556 | 16.3 | 22.0 |

**165379** 2000 $WA_{144}$ 3 13.9 36°.46 3°.8/10.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.86 | + 7 52.8 | 1.265 | 2.145 | 15.6 | 19.2 |
| 2 21 | 11 54.11 | + 8 59.0 | 1.215 | 2.153 | 11.1 | 19.0 |
| 3 2 | 11 46.79 | +10 13.0 | 1.187 | 2.162 | 6.3 | 18.7 |
| 3 12 | 11 37.97 | +11 24.5 | 1.184 | 2.171 | 3.8 | 18.6 |
| 3 22 | 11 29.02 | +12 23.1 | 1.206 | 2.181 | 7.2 | 18.8 |
| 4 1 | 11 21.30 | +13 1.1 | 1.252 | 2.192 | 11.8 | 19.1 |
| 4 11 | 11 15.89 | +13 15.1 | 1.320 | 2.202 | 16.0 | 19.4 |
| 4 21 | 11 13.30 | +13 5.7 | 1.406 | 2.214 | 19.5 | 19.6 |

**463147** 2011 $YV_{45}$ 3 13.9 111°.07 1°.7/15.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 2.60 | − 3 33.5 | 1.725 | 2.556 | 14.6 | 21.6 |
| 2 21 | 11 56.27 | − 3 24.9 | 1.661 | 2.570 | 10.8 | 21.4 |
| 3 2 | 11 47.82 | − 3 0.8 | 1.621 | 2.584 | 6.5 | 21.2 |
| 3 12 | 11 38.14 | − 2 25.0 | 1.608 | 2.598 | 2.4 | 21.0 |
| 3 22 | 11 28.32 | − 1 42.9 | 1.624 | 2.612 | 3.6 | 21.1 |
| 4 1 | 11 19.48 | − 1 1.1 | 1.667 | 2.625 | 7.8 | 21.4 |
| 4 11 | 11 12.52 | − 0 25.4 | 1.736 | 2.637 | 11.7 | 21.6 |
| 4 21 | 11 7.96 | − 0 0.0 | 1.827 | 2.649 | 15.1 | 21.9 |

**396204** 2013 $RC_{90}$ 3 13.9 323°.90 3°.5/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.13 | −10 44.2 | 1.648 | 2.466 | 15.7 | 20.3 |
| 2 21 | 11 50.49 | −10 4.8 | 1.562 | 2.458 | 12.3 | 20.1 |
| 3 2 | 11 44.75 | − 8 58.8 | 1.499 | 2.450 | 8.3 | 19.8 |
| 3 12 | 11 37.66 | − 7 29.7 | 1.460 | 2.443 | 4.5 | 19.6 |
| 3 22 | 11 30.20 | − 5 44.7 | 1.449 | 2.436 | 4.2 | 19.5 |
| 4 1 | 11 23.48 | − 3 53.8 | 1.464 | 2.429 | 7.9 | 19.7 |
| 4 11 | 11 18.46 | − 2 8.0 | 1.505 | 2.423 | 12.1 | 19.9 |
| 4 21 | 11 15.74 | − 0 35.8 | 1.568 | 2.417 | 15.9 | 20.2 |

**152698** 1998 $RG_{58}$ 3 13.9 221°.81 0°.1/13.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.78 | − 0 16.7 | 1.620 | 2.467 | 14.5 | 20.8 |
| 2 21 | 11 55.30 | + 0 28.3 | 1.539 | 2.460 | 10.6 | 20.6 |
| 3 2 | 11 47.47 | + 1 29.5 | 1.481 | 2.452 | 6.0 | 20.3 |
| 3 12 | 11 38.11 | + 2 40.9 | 1.451 | 2.444 | 0.9 | 19.9 |
| 3 22 | 11 28.34 | + 3 54.4 | 1.449 | 2.436 | 4.2 | 20.1 |
| 4 1 | 11 19.39 | + 5 1.4 | 1.474 | 2.426 | 9.2 | 20.4 |
| 4 11 | 11 12.34 | + 5 54.7 | 1.524 | 2.417 | 13.6 | 20.6 |
| 4 21 | 11 7.83 | + 6 30.3 | 1.594 | 2.406 | 17.4 | 20.8 |

**368699** 2005 $SR_{155}$ 3 13.9 242°.97 5°.4/18.7 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.65 | −13 34.4 | 2.076 | 2.853 | 14.3 | 21.3 |
| 2 21 | 11 55.69 | −14 3.5 | 1.976 | 2.840 | 11.7 | 21.1 |
| 3 2 | 11 47.63 | −14 13.4 | 1.899 | 2.826 | 8.7 | 20.8 |
| 3 12 | 11 38.14 | −14 3.7 | 1.848 | 2.812 | 6.1 | 20.7 |
| 3 22 | 11 28.16 | −13 36.0 | 1.826 | 2.797 | 5.6 | 20.6 |
| 4 1 | 11 18.71 | −12 54.7 | 1.831 | 2.782 | 7.8 | 20.7 |
| 4 11 | 11 10.78 | −12 6.5 | 1.863 | 2.766 | 11.0 | 20.8 |
| 4 21 | 11 5.03 | −11 18.0 | 1.918 | 2.750 | 14.1 | 21.0 |

**492617** 2014 $OQ_{243}$ 3 13.9 238°.19 2°.0/12.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.73 | + 5 20.6 | 1.759 | 2.613 | 13.2 | 22.6 |
| 2 21 | 11 56.64 | + 6 6.0 | 1.672 | 2.598 | 9.5 | 22.3 |
| 3 2 | 11 48.21 | + 7 1.1 | 1.610 | 2.583 | 5.3 | 22.0 |
| 3 12 | 11 38.24 | + 7 59.3 | 1.575 | 2.566 | 2.0 | 21.8 |
| 3 22 | 11 27.80 | + 8 53.0 | 1.570 | 2.549 | 5.2 | 21.9 |
| 4 1 | 11 18.08 | + 9 35.4 | 1.592 | 2.531 | 9.7 | 22.2 |
| 4 11 | 11 10.16 | +10 1.6 | 1.638 | 2.513 | 13.8 | 22.4 |
| 4 21 | 11 4.72 | +10 9.6 | 1.705 | 2.493 | 17.4 | 22.6 |

**295311** 2008 $GJ_{127}$ 3 13.9 267°.14 3°.1/10.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.17 | + 7 25.3 | 1.878 | 2.742 | 12.1 | 20.7 |
| 2 21 | 11 52.51 | + 8 44.6 | 1.793 | 2.725 | 8.6 | 20.4 |
| 3 2 | 11 45.83 | +10 13.2 | 1.734 | 2.707 | 4.9 | 20.2 |
| 3 12 | 11 37.85 | +11 43.1 | 1.703 | 2.690 | 3.2 | 20.0 |
| 3 22 | 11 29.46 | +13 5.4 | 1.701 | 2.672 | 6.0 | 20.2 |
| 4 1 | 11 21.70 | +14 12.7 | 1.726 | 2.653 | 10.0 | 20.3 |
| 4 11 | 11 15.50 | +14 59.7 | 1.775 | 2.635 | 13.7 | 20.5 |
| 4 21 | 11 11.47 | +15 24.8 | 1.844 | 2.616 | 16.8 | 20.7 |

**258176** 2001 $SC_{153}$ 3 13.9 95°.21 0°.2/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.88 | − 0 6.9 | 1.985 | 2.821 | 12.7 | 21.2 |
| 2 21 | 11 55.40 | + 0 22.0 | 1.933 | 2.848 | 9.2 | 21.0 |
| 3 2 | 11 47.18 | + 1 1.7 | 1.907 | 2.875 | 5.1 | 20.8 |
| 3 12 | 11 38.05 | + 1 47.3 | 1.909 | 2.902 | 0.9 | 20.6 |
| 3 22 | 11 28.92 | + 2 33.5 | 1.940 | 2.927 | 3.3 | 20.8 |
| 4 1 | 11 20.73 | + 3 14.6 | 2.001 | 2.952 | 7.2 | 21.1 |
| 4 11 | 11 14.20 | + 3 46.4 | 2.088 | 2.977 | 10.7 | 21.3 |
| 4 21 | 11 9.76 | + 4 6.4 | 2.197 | 3.000 | 13.5 | 21.6 |

**124588** 2001 $SD_{21}$ 3 13.9 200°.69 1°.9/11.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.42 | + 5 59.3 | 2.160 | 3.012 | 11.2 | 20.8 |
| 2 21 | 11 53.79 | + 6 49.6 | 2.083 | 3.009 | 8.0 | 20.5 |
| 3 2 | 11 46.41 | + 7 46.9 | 2.032 | 3.005 | 4.4 | 20.3 |
| 3 12 | 11 37.94 | + 8 45.3 | 2.010 | 3.000 | 1.9 | 20.1 |
| 3 22 | 11 29.25 | + 9 38.8 | 2.017 | 2.995 | 4.5 | 20.3 |
| 4 1 | 11 21.20 | +10 22.0 | 2.054 | 2.989 | 8.1 | 20.5 |
| 4 11 | 11 14.60 | +10 51.2 | 2.116 | 2.983 | 11.5 | 20.7 |
| 4 21 | 11 9.94 | +11 4.8 | 2.199 | 2.976 | 14.3 | 20.9 |

**369804** 2012 $HR_{40}$ 3 13.9 252°.42 2°.2/11.8 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.52 | + 5 57.4 | 1.794 | 2.655 | 12.7 | 20.7 |
| 2 21 | 11 53.42 | + 6 48.6 | 1.721 | 2.651 | 9.0 | 20.5 |
| 3 2 | 11 46.30 | + 7 48.1 | 1.673 | 2.647 | 5.0 | 20.3 |
| 3 12 | 11 37.93 | + 8 49.1 | 1.653 | 2.643 | 2.2 | 20.1 |
| 3 22 | 11 29.30 | + 9 44.3 | 1.661 | 2.639 | 5.2 | 20.2 |
| 4 1 | 11 21.45 | +10 27.2 | 1.696 | 2.635 | 9.2 | 20.5 |
| 4 11 | 11 15.28 | +10 53.6 | 1.755 | 2.631 | 13.0 | 20.7 |
| 4 21 | 11 11.35 | +11 2.1 | 1.835 | 2.627 | 16.2 | 20.9 |

**202826** 2008 $SG_{118}$ 3 13.9 327°.86 3°.6/17.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 53.85 | −10 57.3 | 1.746 | 2.560 | 15.1 | 19.6 |
| 2 21 | 11 50.21 | −10 25.0 | 1.659 | 2.552 | 11.9 | 19.4 |
| 3 2 | 11 44.58 | − 9 27.9 | 1.594 | 2.543 | 8.1 | 19.1 |
| 3 12 | 11 37.66 | − 8 8.9 | 1.554 | 2.535 | 4.5 | 18.9 |
| 3 22 | 11 30.40 | − 6 34.4 | 1.542 | 2.528 | 4.2 | 18.8 |
| 4 1 | 11 23.83 | − 4 53.1 | 1.557 | 2.521 | 7.6 | 19.0 |
| 4 11 | 11 18.86 | − 3 15.2 | 1.597 | 2.514 | 11.6 | 19.2 |
| 4 21 | 11 16.07 | − 1 48.8 | 1.660 | 2.508 | 15.2 | 19.4 |

**434912** 2006 $TW_{65}$ 3 13.9 184°.26 2°.4/11.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.64 | + 9 52.2 | 2.657 | 3.509 | 9.4 | 21.6 |
| 2 21 | 11 52.92 | +10 23.1 | 2.583 | 3.509 | 6.6 | 21.4 |
| 3 2 | 11 45.79 | +10 55.9 | 2.538 | 3.508 | 3.9 | 21.2 |
| 3 12 | 11 37.84 | +11 26.5 | 2.522 | 3.508 | 2.4 | 21.1 |
| 3 22 | 11 29.75 | +11 50.7 | 2.536 | 3.507 | 4.3 | 21.2 |
| 4 1 | 11 22.24 | +12 5.3 | 2.580 | 3.506 | 7.1 | 21.4 |
| 4 11 | 11 15.91 | +12 8.3 | 2.650 | 3.504 | 9.8 | 21.6 |
| 4 21 | 11 11.20 | +11 59.3 | 2.742 | 3.503 | 12.2 | 21.7 |

**127802** 2003 $FM_{77}$ 3 13.9 266°.56 1°.1/14.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.41 | − 1 10.4 | 1.443 | 2.291 | 15.9 | 20.3 |
| 2 21 | 11 56.70 | − 1 5.8 | 1.367 | 2.287 | 11.8 | 20.0 |
| 3 2 | 11 48.35 | − 0 45.6 | 1.314 | 2.282 | 6.9 | 19.7 |
| 3 12 | 11 38.30 | − 0 13.9 | 1.286 | 2.278 | 1.8 | 19.4 |
| 3 22 | 11 27.83 | + 0 23.2 | 1.285 | 2.273 | 4.2 | 19.5 |
| 4 1 | 11 18.32 | + 0 58.3 | 1.310 | 2.269 | 9.3 | 19.8 |
| 4 11 | 11 10.97 | + 1 24.8 | 1.359 | 2.265 | 14.1 | 20.0 |
| 4 21 | 11 6.47 | + 1 38.6 | 1.428 | 2.260 | 18.0 | 20.3 |

**434841** 2006 $SN_{104}$ 3 13.9 75°.76 0°.8/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.50 | − 3 23.4 | 2.258 | 3.089 | 11.5 | 21.7 |
| 2 21 | 11 50.17 | − 2 38.4 | 2.183 | 3.094 | 8.5 | 21.5 |
| 3 2 | 11 44.33 | − 1 39.7 | 2.134 | 3.100 | 5.0 | 21.3 |
| 3 12 | 11 37.61 | − 0 31.8 | 2.113 | 3.105 | 1.4 | 21.1 |
| 3 22 | 11 30.73 | + 0 39.7 | 2.122 | 3.110 | 2.8 | 21.2 |
| 4 1 | 11 24.46 | + 1 48.7 | 2.159 | 3.115 | 6.4 | 21.4 |
| 4 11 | 11 19.45 | + 2 49.5 | 2.224 | 3.121 | 9.7 | 21.6 |
| 4 21 | 11 16.14 | + 3 38.5 | 2.311 | 3.126 | 12.6 | 21.8 |

**272950** 2006 $BU_{283}$ 3 13.9 169°.00 0°.4/14.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.13 | + 0 9.0 | 2.118 | 2.955 | 12.0 | 21.1 |
| 2 21 | 11 54.30 | + 0 21.6 | 2.042 | 2.957 | 8.7 | 20.9 |
| 3 2 | 11 46.69 | + 0 44.4 | 1.990 | 2.958 | 5.0 | 20.7 |
| 3 12 | 11 38.01 | + 1 13.5 | 1.967 | 2.960 | 1.0 | 20.4 |
| 3 22 | 11 29.11 | + 1 44.7 | 1.973 | 2.961 | 3.2 | 20.5 |
| 4 1 | 11 20.91 | + 2 13.2 | 2.009 | 2.962 | 7.1 | 20.8 |
| 4 11 | 11 14.20 | + 2 34.6 | 2.071 | 2.962 | 10.6 | 21.0 |
| 4 21 | 11 9.46 | + 2 46.4 | 2.155 | 2.963 | 13.6 | 21.2 |

**351948** 2006 $TW_{81}$ 3 13.9 249°.10 5°.1/20.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.61 | −17 15.3 | 2.433 | 3.191 | 13.0 | 20.7 |
| 2 21 | 11 50.29 | −17 6.5 | 2.341 | 3.188 | 10.7 | 20.5 |
| 3 2 | 11 44.44 | −16 36.7 | 2.271 | 3.185 | 8.2 | 20.4 |
| 3 12 | 11 37.64 | −15 46.9 | 2.227 | 3.182 | 5.9 | 20.2 |
| 3 22 | 11 30.60 | −14 40.2 | 2.211 | 3.179 | 5.1 | 20.2 |
| 4 1 | 11 24.08 | −13 21.9 | 2.224 | 3.176 | 6.5 | 20.2 |
| 4 11 | 11 18.79 | −11 58.8 | 2.263 | 3.173 | 9.0 | 20.4 |
| 4 21 | 11 15.18 | −10 37.6 | 2.328 | 3.170 | 11.6 | 20.5 |

**126212** 2002 $AY_{43}$ 3 13.9 297°.53 4°.3/17.9 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.23 | −10 43.2 | 1.837 | 2.642 | 14.9 | 20.0 |
| 2 21 | 11 53.27 | −10 48.1 | 1.754 | 2.640 | 11.7 | 19.7 |
| 3 2 | 11 46.26 | −10 32.3 | 1.694 | 2.638 | 8.2 | 19.5 |
| 3 12 | 11 37.95 | − 9 57.4 | 1.659 | 2.636 | 5.0 | 19.3 |
| 3 22 | 11 29.31 | − 9 7.2 | 1.652 | 2.634 | 4.7 | 19.3 |
| 4 1 | 11 21.39 | − 8 8.1 | 1.672 | 2.632 | 7.6 | 19.5 |
| 4 11 | 11 15.12 | − 7 8.0 | 1.717 | 2.630 | 11.2 | 19.7 |
| 4 21 | 11 11.07 | − 6 13.4 | 1.785 | 2.628 | 14.5 | 19.9 |

**109477** 2001 $QY_{220}$ 3 13.9 151°.45 0°.7/14.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.26 | − 3 7.3 | 2.453 | 3.280 | 10.9 | 20.1 |
| 2 21 | 11 50.62 | − 2 21.1 | 2.375 | 3.285 | 8.0 | 19.9 |
| 3 2 | 11 44.55 | − 1 22.3 | 2.324 | 3.290 | 4.7 | 19.7 |
| 3 12 | 11 37.65 | − 0 15.2 | 2.302 | 3.294 | 1.3 | 19.5 |
| 3 22 | 11 30.60 | + 0 55.1 | 2.310 | 3.298 | 2.7 | 19.6 |
| 4 1 | 11 24.11 | + 2 2.9 | 2.347 | 3.302 | 6.1 | 19.8 |
| 4 11 | 11 18.80 | + 3 3.1 | 2.412 | 3.305 | 9.2 | 20.0 |
| 4 21 | 11 15.10 | + 3 52.1 | 2.501 | 3.309 | 11.9 | 20.2 |

**501103** 2013 $SF_{83}$ 3 13.9 82°.46 7°.3/22.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.87 | −21 6.7 | 2.055 | 2.795 | 15.6 | 20.8 |
| 2 21 | 11 52.84 | −21 27.8 | 1.979 | 2.806 | 13.2 | 20.6 |
| 3 2 | 11 45.93 | −21 23.5 | 1.924 | 2.817 | 10.6 | 20.4 |
| 3 12 | 11 37.89 | −20 53.3 | 1.893 | 2.828 | 8.3 | 20.3 |
| 3 22 | 11 29.62 | −19 59.7 | 1.887 | 2.839 | 7.3 | 20.3 |
| 4 1 | 11 22.09 | −18 48.4 | 1.909 | 2.850 | 8.3 | 20.4 |
| 4 11 | 11 16.12 | −17 27.4 | 1.956 | 2.860 | 10.5 | 20.5 |
| 4 21 | 11 12.24 | −16 5.1 | 2.026 | 2.871 | 13.0 | 20.7 |

**379432** 2010 $CB_{26}$ 3 13.9 59°.13 0°.4/13.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.78 | + 1 10.0 | 1.918 | 2.768 | 12.5 | 21.3 |
| 2 21 | 11 52.02 | + 1 51.9 | 1.849 | 2.772 | 9.0 | 21.1 |
| 3 2 | 11 45.45 | + 2 45.2 | 1.805 | 2.777 | 5.0 | 20.8 |
| 3 12 | 11 37.81 | + 3 44.5 | 1.788 | 2.782 | 0.8 | 20.5 |
| 3 22 | 11 29.99 | + 4 43.3 | 1.800 | 2.786 | 3.7 | 20.8 |
| 4 1 | 11 22.92 | + 5 35.3 | 1.840 | 2.791 | 7.8 | 21.0 |
| 4 11 | 11 17.38 | + 6 15.5 | 1.905 | 2.796 | 11.4 | 21.2 |
| 4 21 | 11 13.87 | + 6 41.1 | 1.992 | 2.801 | 14.5 | 21.4 |

**501094** 2013 $SW_{76}$ 3 13.9 199°.01 4°.7/19.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.60 | −14 41.6 | 2.326 | 3.096 | 13.2 | 22.5 |
| 2 21 | 11 53.22 | −14 40.2 | 2.233 | 3.092 | 10.7 | 22.3 |
| 3 2 | 11 46.12 | −14 19.0 | 2.164 | 3.089 | 7.9 | 22.1 |
| 3 12 | 11 37.93 | −13 38.7 | 2.121 | 3.084 | 5.4 | 21.9 |
| 3 22 | 11 29.45 | −12 42.6 | 2.106 | 3.079 | 4.8 | 21.9 |
| 4 1 | 11 21.53 | −11 35.8 | 2.121 | 3.074 | 6.7 | 22.0 |
| 4 11 | 11 14.95 | −10 25.1 | 2.162 | 3.068 | 9.6 | 22.1 |
| 4 21 | 11 10.23 | − 9 16.9 | 2.229 | 3.061 | 12.4 | 22.3 |

**224302** 2005 $TM_{190}$ 3 13.9 245°.13 0°.7/14.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.33 | − 0 17.4 | 2.044 | 2.877 | 12.5 | 20.7 |
| 2 21 | 11 56.10 | − 0 13.8 | 1.950 | 2.863 | 9.2 | 20.5 |
| 3 2 | 11 47.83 | + 0 0.4 | 1.882 | 2.849 | 5.4 | 20.2 |
| 3 12 | 11 38.23 | + 0 22.2 | 1.842 | 2.834 | 1.3 | 19.9 |
| 3 22 | 11 28.21 | + 0 47.3 | 1.831 | 2.819 | 3.3 | 20.0 |
| 4 1 | 11 18.80 | + 1 11.0 | 1.849 | 2.803 | 7.5 | 20.2 |
| 4 11 | 11 10.92 | + 1 28.7 | 1.894 | 2.787 | 11.4 | 20.4 |
| 4 21 | 11 5.20 | + 1 37.2 | 1.962 | 2.770 | 14.7 | 20.6 |

**247099** 2000 $SH_{299}$ 3 13.9 187°.72 1°.9/16.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.84 | − 7 51.9 | 3.101 | 3.898 | 9.6 | 21.9 |
| 2 21 | 11 50.11 | − 7 24.0 | 3.010 | 3.897 | 7.3 | 21.8 |
| 3 2 | 11 44.21 | − 6 43.9 | 2.946 | 3.896 | 4.8 | 21.6 |
| 3 12 | 11 37.61 | − 5 53.8 | 2.911 | 3.894 | 2.4 | 21.4 |
| 3 22 | 11 30.86 | − 4 57.2 | 2.906 | 3.892 | 2.5 | 21.4 |
| 4 1 | 11 24.51 | − 3 58.2 | 2.932 | 3.889 | 4.9 | 21.6 |
| 4 11 | 11 19.10 | − 3 1.0 | 2.987 | 3.886 | 7.5 | 21.8 |
| 4 21 | 11 14.99 | − 2 9.5 | 3.067 | 3.882 | 9.8 | 21.9 |

**192567** 1998 $WD_{35}$ 3 13.9 139°.72 0°.8/13.0 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.00 | + 3 9.1 | 2.247 | 3.093 | 11.1 | 21.1 |
| 2 21 | 11 52.65 | + 3 44.8 | 2.177 | 3.099 | 7.9 | 20.9 |
| 3 2 | 11 45.72 | + 4 28.5 | 2.133 | 3.105 | 4.3 | 20.7 |
| 3 12 | 11 37.87 | + 5 15.4 | 2.118 | 3.110 | 0.9 | 20.4 |
| 3 22 | 11 29.86 | + 6 0.4 | 2.132 | 3.116 | 3.5 | 20.7 |
| 4 1 | 11 22.52 | + 6 38.7 | 2.176 | 3.121 | 7.1 | 20.9 |
| 4 11 | 11 16.55 | + 7 6.5 | 2.245 | 3.126 | 10.4 | 21.1 |
| 4 21 | 11 12.38 | + 7 21.8 | 2.338 | 3.131 | 13.1 | 21.3 |

**489621** 2007 $TW_{300}$ 3 13.9 133°.58 2°.4/16.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.12 | − 7 59.7 | 2.436 | 3.242 | 11.6 | 21.8 |
| 2 21 | 11 51.25 | − 7 37.6 | 2.358 | 3.249 | 8.9 | 21.6 |
| 3 2 | 11 44.92 | − 7 0.5 | 2.305 | 3.257 | 5.8 | 21.4 |
| 3 12 | 11 37.73 | − 6 11.1 | 2.280 | 3.263 | 3.0 | 21.3 |
| 3 22 | 11 30.39 | − 5 13.6 | 2.284 | 3.270 | 3.0 | 21.3 |
| 4 1 | 11 23.63 | − 4 13.3 | 2.318 | 3.276 | 5.9 | 21.5 |
| 4 11 | 11 18.08 | − 3 15.8 | 2.379 | 3.283 | 8.9 | 21.7 |
| 4 21 | 11 14.19 | − 2 25.3 | 2.464 | 3.288 | 11.6 | 21.9 |

**498378** 2007 $WC_{25}$ 3 13.9 123°.50 4°.2/ 8.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.05 | +15 15.2 | 2.453 | 3.314 | 9.7 | 21.7 |
| 2 21 | 11 52.56 | +16 13.3 | 2.399 | 3.324 | 7.1 | 21.5 |
| 3 2 | 11 45.61 | +17 9.8 | 2.372 | 3.335 | 4.8 | 21.4 |
| 3 12 | 11 37.84 | +17 58.9 | 2.375 | 3.345 | 4.4 | 21.4 |
| 3 22 | 11 30.00 | +18 35.6 | 2.406 | 3.355 | 6.1 | 21.5 |
| 4 1 | 11 22.85 | +18 56.8 | 2.465 | 3.364 | 8.7 | 21.7 |
| 4 11 | 11 17.01 | +19 1.3 | 2.549 | 3.374 | 11.1 | 21.9 |
| 4 21 | 11 12.89 | +18 49.6 | 2.653 | 3.383 | 13.3 | 22.0 |

**426890** 2013 $WS_{56}$ 3 13.9 205°.87 6°.2/ 6.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.99 | +21 23.4 | 2.355 | 3.213 | 10.2 | 21.2 |
| 2 21 | 11 54.14 | +22 34.7 | 2.293 | 3.209 | 7.9 | 21.1 |
| 3 2 | 11 46.58 | +23 40.6 | 2.259 | 3.204 | 6.4 | 21.0 |
| 3 12 | 11 38.01 | +24 33.9 | 2.253 | 3.198 | 6.5 | 21.0 |
| 3 22 | 11 29.27 | +25 9.3 | 2.274 | 3.193 | 8.2 | 21.1 |
| 4 1 | 11 21.23 | +25 23.4 | 2.322 | 3.187 | 10.6 | 21.2 |
| 4 11 | 11 14.63 | +25 16.1 | 2.393 | 3.180 | 12.9 | 21.4 |
| 4 21 | 11 9.96 | +24 49.1 | 2.483 | 3.173 | 15.0 | 21.5 |

**87904** 2000 $SR_{309}$ 3 13.9 262°.09 2°.0/11.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.38 | + 5 1.1 | 1.950 | 2.808 | 12.0 | 19.9 |
| 2 21 | 11 52.60 | + 6 3.8 | 1.864 | 2.793 | 8.5 | 19.7 |
| 3 2 | 11 45.88 | + 7 16.7 | 1.804 | 2.777 | 4.7 | 19.4 |
| 3 12 | 11 37.91 | + 8 33.0 | 1.771 | 2.762 | 2.0 | 19.2 |
| 3 22 | 11 29.59 | + 9 45.2 | 1.768 | 2.746 | 4.9 | 19.3 |
| 4 1 | 11 21.87 | +10 46.2 | 1.792 | 2.730 | 9.0 | 19.6 |
| 4 11 | 11 15.66 | +11 30.9 | 1.841 | 2.713 | 12.7 | 19.7 |
| 4 21 | 11 11.52 | +11 56.9 | 1.911 | 2.697 | 15.9 | 19.9 |

**62845** 2000 $UB_{67}$ 3 13.9 228°.18 0°.2/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 59.28 | + 0 3.8 | 2.133 | 2.970 | 11.9 | 20.2 |
| 2 21 | 11 53.77 | + 0 28.4 | 2.046 | 2.962 | 8.7 | 20.0 |
| 3 2 | 11 46.46 | + 1 4.1 | 1.985 | 2.953 | 4.9 | 19.8 |
| 3 12 | 11 38.01 | + 1 46.8 | 1.951 | 2.944 | 0.9 | 19.4 |
| 3 22 | 11 29.25 | + 2 31.6 | 1.948 | 2.935 | 3.3 | 19.6 |
| 4 1 | 11 21.10 | + 3 13.1 | 1.973 | 2.925 | 7.2 | 19.8 |
| 4 11 | 11 14.37 | + 3 46.4 | 2.025 | 2.915 | 10.9 | 20.0 |
| 4 21 | 11 9.61 | + 4 8.3 | 2.099 | 2.904 | 14.0 | 20.2 |

**3308** Ferreri 3 13.9 65°.75 0°.2/13.7 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.15 | − 2 27.3 | 2.108 | 2.946 | 12.0 | 16.2 |
| 2 21 | 11 49.93 | − 0 52.1 | 2.047 | 2.965 | 8.6 | 16.0 |
| 3 2 | 11 44.20 | + 0 57.7 | 2.013 | 2.983 | 4.7 | 15.8 |
| 3 12 | 11 37.61 | + 2 55.0 | 2.008 | 3.002 | 0.7 | 15.5 |
| 3 22 | 11 30.95 | + 4 51.3 | 2.034 | 3.020 | 3.4 | 15.8 |
| 4 1 | 11 24.98 | + 6 38.4 | 2.090 | 3.039 | 7.2 | 16.0 |
| 4 11 | 11 20.37 | + 8 9.9 | 2.173 | 3.057 | 10.5 | 16.3 |
| 4 21 | 11 17.51 | + 9 22.5 | 2.279 | 3.076 | 13.3 | 16.5 |

**21075** Heussinger 3 13.9 243°.08 1°.3/15.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.81 | − 3 29.0 | 1.882 | 2.713 | 13.5 | 19.8 |
| 2 21 | 11 54.43 | − 3 3.8 | 1.790 | 2.700 | 10.1 | 19.6 |
| 3 2 | 11 46.96 | − 2 22.4 | 1.722 | 2.686 | 6.1 | 19.3 |
| 3 12 | 11 38.11 | − 1 28.5 | 1.681 | 2.672 | 2.0 | 19.0 |
| 3 22 | 11 28.82 | − 0 27.8 | 1.669 | 2.657 | 3.4 | 19.1 |
| 4 1 | 11 20.16 | + 0 32.6 | 1.685 | 2.642 | 7.8 | 19.3 |
| 4 11 | 11 13.10 | + 1 26.0 | 1.726 | 2.626 | 11.9 | 19.5 |
| 4 21 | 11 8.27 | + 2 7.5 | 1.790 | 2.609 | 15.5 | 19.7 |

**341514** 2007 $TB_{421}$ 3 13.9 104°.45 3°.7/ 9.1 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.40 | +12 12.5 | 2.376 | 3.239 | 9.9 | 20.7 |
| 2 21 | 11 51.41 | +13 31.1 | 2.326 | 3.255 | 7.1 | 20.5 |
| 3 2 | 11 44.97 | +14 50.6 | 2.304 | 3.271 | 4.5 | 20.4 |
| 3 12 | 11 37.74 | +16 4.3 | 2.311 | 3.287 | 3.9 | 20.4 |
| 3 22 | 11 30.44 | +17 6.5 | 2.347 | 3.302 | 5.8 | 20.5 |
| 4 1 | 11 23.82 | +17 52.8 | 2.412 | 3.317 | 8.6 | 20.7 |
| 4 11 | 11 18.50 | +18 21.1 | 2.501 | 3.332 | 11.1 | 20.9 |
| 4 21 | 11 14.87 | +18 31.7 | 2.611 | 3.347 | 13.3 | 21.1 |

**335877** 2007 $RC_{128}$ 3 13.9 156°.44 0°.5/13.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.07 | + 2 17.0 | 2.605 | 3.445 | 9.9 | 21.7 |
| 2 21 | 11 51.82 | + 2 54.1 | 2.532 | 3.451 | 7.1 | 21.5 |
| 3 2 | 11 45.21 | + 3 38.9 | 2.486 | 3.457 | 3.9 | 21.3 |
| 3 12 | 11 37.79 | + 4 27.1 | 2.469 | 3.462 | 0.7 | 21.1 |
| 3 22 | 11 30.25 | + 5 14.3 | 2.483 | 3.467 | 3.0 | 21.3 |
| 4 1 | 11 23.26 | + 5 56.2 | 2.526 | 3.472 | 6.3 | 21.5 |
| 4 11 | 11 17.44 | + 6 29.2 | 2.597 | 3.476 | 9.2 | 21.7 |
| 4 21 | 11 13.18 | + 6 51.3 | 2.691 | 3.479 | 11.7 | 21.9 |

**469601** 2004 $FB_{78}$ 3 13.9 322°.54 1°.0/12.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.83 | + 2 30.4 | 2.079 | 2.932 | 11.5 | 20.4 |
| 2 21 | 11 50.57 | + 3 24.8 | 2.002 | 2.928 | 8.2 | 20.2 |
| 3 2 | 11 44.65 | + 4 29.7 | 1.951 | 2.924 | 4.5 | 20.0 |
| 3 12 | 11 37.71 | + 5 39.3 | 1.927 | 2.920 | 1.1 | 19.7 |
| 3 22 | 11 30.55 | + 6 47.3 | 1.933 | 2.916 | 3.9 | 19.9 |
| 4 1 | 11 24.00 | + 7 47.2 | 1.967 | 2.913 | 7.7 | 20.1 |
| 4 11 | 11 18.82 | + 8 34.1 | 2.026 | 2.909 | 11.2 | 20.3 |
| 4 21 | 11 15.50 | + 9 5.3 | 2.107 | 2.906 | 14.2 | 20.5 |

**111059** 2001 $VB_{42}$ 3 13.9 156°.30 0°.2/14.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.59 | − 0 20.5 | 2.303 | 3.136 | 11.3 | 20.3 |
| 2 21 | 11 53.77 | + 0 12.0 | 2.230 | 3.144 | 8.2 | 20.1 |
| 3 2 | 11 46.35 | + 0 54.8 | 2.183 | 3.151 | 4.6 | 19.9 |
| 3 12 | 11 37.99 | + 1 44.0 | 2.165 | 3.158 | 0.9 | 19.6 |
| 3 22 | 11 29.48 | + 2 34.4 | 2.177 | 3.164 | 3.0 | 19.8 |
| 4 1 | 11 21.63 | + 3 20.9 | 2.219 | 3.169 | 6.7 | 20.0 |
| 4 11 | 11 15.15 | + 3 59.3 | 2.288 | 3.174 | 9.9 | 20.3 |
| 4 21 | 11 10.48 | + 4 26.6 | 2.380 | 3.179 | 12.7 | 20.4 |

**176008** 2000 $RS_{79}$ 3 13.9 192°.24 4°.8/20.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.99 | −17 40.9 | 2.894 | 3.637 | 11.5 | 20.2 |
| 2 21 | 11 51.08 | −17 41.9 | 2.799 | 3.635 | 9.5 | 20.1 |
| 3 2 | 11 44.83 | −17 25.4 | 2.727 | 3.633 | 7.3 | 19.9 |
| 3 12 | 11 37.75 | −16 52.0 | 2.682 | 3.630 | 5.5 | 19.8 |
| 3 22 | 11 30.45 | −16 3.8 | 2.666 | 3.628 | 4.8 | 19.7 |
| 4 1 | 11 23.60 | −15 4.8 | 2.679 | 3.624 | 5.9 | 19.8 |
| 4 11 | 11 17.80 | −14 0.2 | 2.719 | 3.621 | 8.0 | 19.9 |
| 4 21 | 11 13.47 | −12 55.3 | 2.785 | 3.617 | 10.2 | 20.1 |

**260808** 2005 $OR_{1}$ 3 13.9 164°.84 7°.5/ 5.2 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.39 | +23 38.0 | 2.102 | 2.960 | 11.2 | 20.5 |
| 2 21 | 11 55.27 | +25 7.4 | 2.054 | 2.964 | 9.0 | 20.3 |
| 3 2 | 11 47.25 | +26 28.6 | 2.032 | 2.969 | 7.6 | 20.2 |
| 3 12 | 11 38.14 | +27 32.9 | 2.038 | 2.972 | 7.9 | 20.3 |
| 3 22 | 11 28.91 | +28 14.2 | 2.071 | 2.975 | 9.7 | 20.4 |
| 4 1 | 11 20.55 | +28 29.7 | 2.129 | 2.978 | 12.0 | 20.5 |
| 4 11 | 11 13.88 | +28 19.8 | 2.209 | 2.980 | 14.3 | 20.7 |
| 4 21 | 11 9.39 | +27 47.7 | 2.307 | 2.981 | 16.3 | 20.9 |

**338595** 2003 $SO_{150}$ 3 13.9 231°.20 3°.5/ 9.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.82 | +12 51.5 | 2.640 | 3.495 | 9.3 | 21.5 |
| 2 21 | 11 53.21 | +13 51.1 | 2.555 | 3.480 | 6.7 | 21.4 |
| 3 2 | 11 46.06 | +14 52.3 | 2.498 | 3.464 | 4.3 | 21.2 |
| 3 12 | 11 37.96 | +15 49.4 | 2.471 | 3.447 | 3.6 | 21.1 |
| 3 22 | 11 29.59 | +16 37.1 | 2.474 | 3.430 | 5.5 | 21.2 |
| 4 1 | 11 21.72 | +17 11.4 | 2.506 | 3.412 | 8.3 | 21.3 |
| 4 11 | 11 15.01 | +17 29.9 | 2.564 | 3.393 | 10.9 | 21.5 |
| 4 21 | 11 9.96 | +17 32.1 | 2.643 | 3.374 | 13.3 | 21.6 |

**473034** 2015 $HE_{73}$ 3 13.9 218°.40 1°.0/12.6 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.88 | + 4 19.8 | 2.796 | 3.640 | 9.2 | 22.1 |
| 2 21 | 11 50.97 | + 4 57.4 | 2.711 | 3.633 | 6.5 | 21.9 |
| 3 2 | 11 44.75 | + 5 41.1 | 2.654 | 3.626 | 3.6 | 21.7 |
| 3 12 | 11 37.73 | + 6 26.9 | 2.627 | 3.619 | 1.0 | 21.4 |
| 3 22 | 11 30.53 | + 7 10.8 | 2.630 | 3.611 | 3.2 | 21.6 |
| 4 1 | 11 23.79 | + 7 48.7 | 2.663 | 3.603 | 6.2 | 21.8 |
| 4 11 | 11 18.09 | + 8 17.4 | 2.723 | 3.595 | 9.0 | 22.0 |
| 4 21 | 11 13.84 | + 8 35.0 | 2.806 | 3.586 | 11.5 | 22.1 |

**173085** 2007 $PY_{31}$ 3 13.9 204°.46 0°.2/13.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.75 | + 1 9.6 | 2.205 | 3.047 | 11.4 | 20.8 |
| 2 21 | 11 52.58 | + 1 40.1 | 2.126 | 3.045 | 8.2 | 20.6 |
| 3 2 | 11 45.75 | + 2 20.4 | 2.072 | 3.043 | 4.6 | 20.4 |
| 3 12 | 11 37.91 | + 3 6.3 | 2.047 | 3.040 | 0.7 | 20.1 |
| 3 22 | 11 29.85 | + 3 52.7 | 2.052 | 3.038 | 3.3 | 20.3 |
| 4 1 | 11 22.41 | + 4 34.3 | 2.085 | 3.035 | 7.1 | 20.5 |
| 4 11 | 11 16.33 | + 5 6.8 | 2.144 | 3.032 | 10.5 | 20.7 |
| 4 21 | 11 12.09 | + 5 27.6 | 2.226 | 3.029 | 13.4 | 20.9 |

**273959** 2007 $KX_{1}$ 3 13.9 194°.11 3°.8/18.8 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.05 | −13 22.5 | 2.596 | 3.370 | 11.9 | 21.7 |
| 2 21 | 11 51.95 | −13 8.6 | 2.503 | 3.367 | 9.5 | 21.6 |
| 3 2 | 11 45.35 | −12 37.1 | 2.434 | 3.365 | 6.8 | 21.4 |
| 3 12 | 11 37.85 | −11 49.5 | 2.393 | 3.361 | 4.5 | 21.2 |
| 3 22 | 11 30.11 | −10 49.0 | 2.380 | 3.357 | 4.0 | 21.2 |
| 4 1 | 11 22.87 | − 9 40.7 | 2.398 | 3.353 | 5.9 | 21.3 |
| 4 11 | 11 16.79 | − 8 30.4 | 2.443 | 3.348 | 8.6 | 21.5 |
| 4 21 | 11 12.35 | − 7 23.8 | 2.514 | 3.342 | 11.3 | 21.6 |

**318684** 2005 $QM_{49}$ 3 13.9 226°.91 1°.9/12.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.54 | + 5 38.4 | 1.970 | 2.824 | 12.0 | 21.3 |
| 2 21 | 11 54.08 | + 6 25.9 | 1.890 | 2.817 | 8.6 | 21.0 |
| 3 2 | 11 46.68 | + 7 21.3 | 1.836 | 2.809 | 4.7 | 20.8 |
| 3 12 | 11 38.08 | + 8 18.7 | 1.810 | 2.801 | 1.9 | 20.6 |
| 3 22 | 11 29.17 | + 9 11.5 | 1.813 | 2.792 | 4.7 | 20.7 |
| 4 1 | 11 20.96 | + 9 53.6 | 1.844 | 2.783 | 8.7 | 20.9 |
| 4 11 | 11 14.30 | +10 20.9 | 1.900 | 2.773 | 12.3 | 21.1 |
| 4 21 | 11 9.76 | +10 31.8 | 1.978 | 2.764 | 15.4 | 21.3 |

**360510** 2003 $OQ_{4}$ 3 13.9 233°.13 3°.3/10.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.70 | + 7 35.5 | 1.815 | 2.677 | 12.5 | 21.3 |
| 2 21 | 11 54.39 | + 8 55.3 | 1.734 | 2.665 | 8.9 | 21.0 |
| 3 2 | 11 46.95 | +10 24.0 | 1.680 | 2.652 | 5.2 | 20.8 |
| 3 12 | 11 38.13 | +11 53.2 | 1.653 | 2.639 | 3.3 | 20.6 |
| 3 22 | 11 28.92 | +13 14.0 | 1.655 | 2.626 | 6.2 | 20.8 |
| 4 1 | 11 20.42 | +14 18.6 | 1.685 | 2.612 | 10.2 | 21.0 |
| 4 11 | 11 13.60 | +15 2.1 | 1.739 | 2.597 | 14.0 | 21.2 |
| 4 21 | 11 9.08 | +15 23.3 | 1.812 | 2.581 | 17.2 | 21.4 |

**522541** 2016 $ED_{239}$ 3 13.9 293°.70 5°.3/18.1 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.78 | −11 21.2 | 1.775 | 2.575 | 15.5 | 21.3 |
| 2 21 | 11 55.32 | −11 56.8 | 1.684 | 2.564 | 12.4 | 21.0 |
| 3 2 | 11 47.56 | −12 12.8 | 1.616 | 2.554 | 9.0 | 20.8 |
| 3 12 | 11 38.25 | −12 8.8 | 1.573 | 2.544 | 6.0 | 20.6 |
| 3 22 | 11 28.42 | −11 46.9 | 1.556 | 2.533 | 5.7 | 20.5 |
| 4 1 | 11 19.26 | −11 11.9 | 1.567 | 2.523 | 8.4 | 20.7 |
| 4 11 | 11 11.84 | −10 31.0 | 1.603 | 2.513 | 12.0 | 20.8 |
| 4 21 | 11 6.86 | − 9 51.2 | 1.660 | 2.503 | 15.4 | 21.0 |

**144158** 2004 $BR_{99}$ 3 13.9 194°.23 2°.7/10.3 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.62 | + 7 42.5 | 2.336 | 3.196 | 10.1 | 20.1 |
| 2 21 | 11 50.28 | + 9 7.4 | 2.265 | 3.195 | 7.1 | 19.9 |
| 3 2 | 11 44.44 | +10 38.5 | 2.222 | 3.194 | 4.1 | 19.7 |
| 3 12 | 11 37.70 | +12 8.8 | 2.208 | 3.194 | 2.8 | 19.6 |
| 3 22 | 11 30.78 | +13 31.6 | 2.225 | 3.192 | 5.1 | 19.8 |
| 4 1 | 11 24.43 | +14 41.0 | 2.270 | 3.191 | 8.2 | 20.0 |
| 4 11 | 11 19.31 | +15 33.1 | 2.340 | 3.190 | 11.1 | 20.2 |
| 4 21 | 11 15.86 | +16 6.7 | 2.432 | 3.188 | 13.6 | 20.3 |

**203558** 2002 $CA_{101}$ 3 13.9 43°.98 2°.0/12.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.92 | + 3 40.0 | 1.202 | 2.077 | 16.6 | 20.2 |
| 2 21 | 11 54.24 | + 4 38.5 | 1.154 | 2.090 | 11.8 | 19.9 |
| 3 2 | 11 46.93 | + 5 50.5 | 1.128 | 2.104 | 6.4 | 19.7 |
| 3 12 | 11 38.12 | + 7 5.9 | 1.126 | 2.118 | 2.1 | 19.4 |
| 3 22 | 11 29.22 | + 8 14.1 | 1.150 | 2.133 | 5.9 | 19.7 |
| 4 1 | 11 21.62 | + 9 5.9 | 1.198 | 2.149 | 11.0 | 20.0 |
| 4 11 | 11 16.39 | + 9 36.1 | 1.268 | 2.165 | 15.5 | 20.3 |
| 4 21 | 11 14.03 | + 9 43.7 | 1.356 | 2.181 | 19.2 | 20.6 |

**173339** 1999 $XL_{16}$ 3 13.9 165°.67 5°.3/ 8.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 2.35 | +17 10.2 | 2.227 | 3.085 | 10.7 | 20.9 |
| 2 21 | 11 55.82 | +18 23.9 | 2.170 | 3.092 | 8.0 | 20.7 |
| 3 2 | 11 47.53 | +19 34.7 | 2.141 | 3.098 | 5.8 | 20.6 |
| 3 12 | 11 38.23 | +20 35.3 | 2.140 | 3.103 | 5.5 | 20.6 |
| 3 22 | 11 28.81 | +21 19.7 | 2.169 | 3.107 | 7.4 | 20.7 |
| 4 1 | 11 20.18 | +21 44.3 | 2.225 | 3.110 | 10.1 | 20.9 |
| 4 11 | 11 13.11 | +21 48.2 | 2.305 | 3.113 | 12.7 | 21.0 |
| 4 21 | 11 8.07 | +21 32.8 | 2.405 | 3.115 | 14.9 | 21.2 |

**80079** 1999 $JS_{119}$ 3 13.9 227°.75 1°.6/16.2 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.99 | − 6 12.2 | 2.810 | 3.620 | 10.2 | 20.0 |
| 2 21 | 11 50.39 | − 5 39.4 | 2.713 | 3.609 | 7.7 | 19.8 |
| 3 2 | 11 44.48 | − 4 53.5 | 2.643 | 3.599 | 4.8 | 19.6 |
| 3 12 | 11 37.74 | − 3 57.4 | 2.601 | 3.588 | 2.1 | 19.4 |
| 3 22 | 11 30.78 | − 2 55.0 | 2.589 | 3.576 | 2.5 | 19.4 |
| 4 1 | 11 24.23 | − 1 51.0 | 2.608 | 3.565 | 5.4 | 19.6 |
| 4 11 | 11 18.69 | − 0 50.5 | 2.654 | 3.552 | 8.3 | 19.7 |
| 4 21 | 11 14.58 | + 0 2.8 | 2.726 | 3.540 | 10.9 | 19.9 |

**264307** 1999 $LE_{29}$ 3 13.9 329°.10 4°.3/ 9.9 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.77 | + 9 26.0 | 1.489 | 2.368 | 13.7 | 20.2 |
| 2 21 | 11 51.88 | +10 45.7 | 1.419 | 2.357 | 9.8 | 20.0 |
| 3 2 | 11 45.66 | +12 13.3 | 1.372 | 2.346 | 5.9 | 19.7 |
| 3 12 | 11 37.96 | +13 38.6 | 1.352 | 2.336 | 4.5 | 19.6 |
| 3 22 | 11 29.90 | +14 51.6 | 1.358 | 2.326 | 7.5 | 19.7 |
| 4 1 | 11 22.70 | +15 43.8 | 1.388 | 2.317 | 11.8 | 20.0 |
| 4 11 | 11 17.40 | +16 10.9 | 1.441 | 2.309 | 15.8 | 20.2 |
| 4 21 | 11 14.64 | +16 12.5 | 1.511 | 2.301 | 19.2 | 20.4 |

**489328** 2006 $TQ_{65}$ 3 13.9 147°.38 2°.7/17.7 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.70 | − 9 54.5 | 2.995 | 3.780 | 10.2 | 22.4 |
| 2 21 | 11 51.46 | − 9 46.3 | 2.914 | 3.790 | 7.9 | 22.3 |
| 3 2 | 11 45.00 | − 9 25.3 | 2.858 | 3.799 | 5.4 | 22.1 |
| 3 12 | 11 37.82 | − 8 53.1 | 2.831 | 3.808 | 3.2 | 22.0 |
| 3 22 | 11 30.52 | − 8 12.5 | 2.835 | 3.816 | 3.0 | 22.0 |
| 4 1 | 11 23.69 | − 7 27.4 | 2.869 | 3.824 | 5.1 | 22.1 |
| 4 11 | 11 17.87 | − 6 42.0 | 2.931 | 3.832 | 7.5 | 22.3 |
| 4 21 | 11 13.46 | − 6 0.1 | 3.018 | 3.838 | 9.8 | 22.5 |

**410228** 2007 $SE_{20}$ 3 13.9 245°.05 0°.4/14.3 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 12 4.00 | + 0 1.8 | 1.924 | 2.758 | 13.1 | 21.7 |
| 2 21 | 11 57.52 | + 0 15.4 | 1.825 | 2.739 | 9.7 | 21.4 |
| 3 2 | 11 48.79 | + 0 41.0 | 1.751 | 2.719 | 5.6 | 21.1 |
| 3 12 | 11 38.51 | + 1 14.7 | 1.705 | 2.698 | 1.2 | 20.8 |
| 3 22 | 11 27.68 | + 1 51.7 | 1.689 | 2.676 | 3.6 | 20.9 |
| 4 1 | 11 17.45 | + 2 26.1 | 1.701 | 2.653 | 8.2 | 21.1 |
| 4 11 | 11 8.85 | + 2 52.7 | 1.740 | 2.630 | 12.4 | 21.3 |
| 4 21 | 11 2.60 | + 3 7.8 | 1.801 | 2.606 | 16.0 | 21.5 |

**170295** 2003 $SW$ 3 13.9 91°.46 0°.5/14.4 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.90 | − 1 19.7 | 1.621 | 2.463 | 14.8 | 21.0 |
| 2 21 | 11 55.90 | − 0 45.8 | 1.568 | 2.485 | 10.7 | 20.8 |
| 3 2 | 11 47.67 | + 0 2.8 | 1.538 | 2.507 | 6.1 | 20.6 |
| 3 12 | 11 38.28 | + 1 0.2 | 1.536 | 2.528 | 1.3 | 20.3 |
| 3 22 | 11 28.85 | + 1 59.2 | 1.561 | 2.549 | 3.7 | 20.5 |
| 4 1 | 11 20.50 | + 2 52.5 | 1.615 | 2.570 | 8.3 | 20.9 |
| 4 11 | 11 14.11 | + 3 34.3 | 1.693 | 2.590 | 12.3 | 21.1 |
| 4 21 | 11 10.16 | + 4 1.4 | 1.793 | 2.610 | 15.6 | 21.4 |

**369850** 2012 $JG_{49}$ 3 13.9 213°.03 1°.6/15.5 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.56 | − 4 4.3 | 1.901 | 2.731 | 13.4 | 21.8 |
| 2 21 | 11 53.44 | − 3 44.3 | 1.821 | 2.729 | 10.0 | 21.5 |
| 3 2 | 11 46.36 | − 3 8.6 | 1.764 | 2.727 | 6.1 | 21.3 |
| 3 12 | 11 38.08 | − 2 20.9 | 1.735 | 2.725 | 2.2 | 21.0 |
| 3 22 | 11 29.52 | − 1 26.5 | 1.734 | 2.723 | 3.3 | 21.1 |
| 4 1 | 11 21.66 | − 0 32.1 | 1.762 | 2.720 | 7.4 | 21.3 |
| 4 11 | 11 15.38 | + 0 16.2 | 1.815 | 2.718 | 11.2 | 21.6 |
| 4 21 | 11 11.23 | + 0 53.7 | 1.890 | 2.715 | 14.6 | 21.8 |

**333096** 2011 $UC_{248}$ 3 13.9 13°.33 0°.9/14.6 18

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.60 | − 1 55.9 | 1.246 | 2.108 | 17.1 | 20.6 |
| 2 21 | 11 53.42 | − 1 28.1 | 1.183 | 2.110 | 12.5 | 20.3 |
| 3 2 | 11 46.59 | − 0 40.3 | 1.141 | 2.112 | 7.3 | 20.0 |
| 3 12 | 11 38.13 | + 0 21.3 | 1.123 | 2.116 | 1.8 | 19.7 |
| 3 22 | 11 29.36 | + 1 27.7 | 1.130 | 2.120 | 4.4 | 19.9 |
| 4 1 | 11 21.71 | + 2 29.1 | 1.162 | 2.124 | 9.8 | 20.2 |
| 4 11 | 11 16.31 | + 3 16.9 | 1.216 | 2.130 | 14.7 | 20.5 |
| 4 21 | 11 13.78 | + 3 46.5 | 1.289 | 2.136 | 18.8 | 20.8 |

**498870** 2008 $YW_{90}$ 3 13.9 137°.92 4°.6/ 8.4 17

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.78 | +14 26.4 | 2.178 | 3.044 | 10.5 | 21.3 |
| 2 21 | 11 51.91 | +15 42.1 | 2.118 | 3.047 | 7.7 | 21.1 |
| 3 2 | 11 45.39 | +16 57.8 | 2.085 | 3.049 | 5.2 | 20.9 |
| 3 12 | 11 37.91 | +18 6.2 | 2.080 | 3.051 | 4.8 | 20.9 |
| 3 22 | 11 30.28 | +19 0.8 | 2.104 | 3.053 | 6.9 | 21.1 |
| 4 1 | 11 23.33 | +19 37.3 | 2.155 | 3.055 | 9.7 | 21.2 |
| 4 11 | 11 17.80 | +19 53.8 | 2.229 | 3.057 | 12.4 | 21.4 |
| 4 21 | 11 14.14 | +19 50.8 | 2.323 | 3.059 | 14.8 | 21.6 |

**412810** 2014 $PP_{34}$ 3 13.9 207°.52 3°.9/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 12 0.91 | + 9 49.0 | 1.741 | 2.606 | 12.8 | 21.3 |
| 2 21 | 11 55.28 | +11 2.1 | 1.671 | 2.602 | 9.2 | 21.1 |
| 3 2 | 11 47.45 | +12 20.7 | 1.626 | 2.598 | 5.5 | 20.9 |
| 3 12 | 11 38.27 | +13 36.3 | 1.609 | 2.592 | 4.0 | 20.8 |
| 3 22 | 11 28.79 | +14 40.2 | 1.620 | 2.587 | 6.8 | 20.9 |
| 4 1 | 11 20.16 | +15 25.9 | 1.658 | 2.581 | 10.6 | 21.1 |
| 4 11 | 11 13.33 | +15 49.7 | 1.719 | 2.574 | 14.3 | 21.3 |
| 4 21 | 11 8.91 | +15 51.8 | 1.800 | 2.567 | 17.4 | 21.5 |

**208490** 2001 $VA_{73}$ 3 13.9 350°.09 3°.1/17.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 54.78 | − 9 35.9 | 2.115 | 2.923 | 13.1 | 20.0 |
| 2 21 | 11 50.58 | − 9 16.2 | 2.031 | 2.922 | 10.1 | 19.8 |
| 3 2 | 11 44.71 | − 8 38.0 | 1.971 | 2.920 | 6.8 | 19.6 |
| 3 12 | 11 37.81 | − 7 43.7 | 1.938 | 2.919 | 3.8 | 19.4 |
| 3 22 | 11 30.66 | − 6 38.2 | 1.933 | 2.918 | 3.6 | 19.4 |
| 4 1 | 11 24.13 | − 5 27.6 | 1.956 | 2.917 | 6.5 | 19.6 |
| 4 11 | 11 18.94 | − 4 19.0 | 2.005 | 2.917 | 9.9 | 19.8 |
| 4 21 | 11 15.61 | − 3 17.9 | 2.078 | 2.916 | 12.9 | 20.0 |

**129284** 2005 $RX_{33}$ 3 13.9 133°.42 4°.0/17.6 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.72 | − 9 43.2 | 2.070 | 2.865 | 13.8 | 19.6 |
| 2 21 | 11 56.26 | −10 5.0 | 1.994 | 2.874 | 10.8 | 19.4 |
| 3 2 | 11 47.88 | −10 10.0 | 1.941 | 2.883 | 7.5 | 19.2 |
| 3 12 | 11 38.34 | − 9 59.2 | 1.916 | 2.892 | 4.6 | 19.0 |
| 3 22 | 11 28.56 | − 9 35.3 | 1.920 | 2.900 | 4.4 | 19.0 |
| 4 1 | 11 19.54 | − 9 3.2 | 1.953 | 2.908 | 7.1 | 19.2 |
| 4 11 | 11 12.11 | − 8 28.6 | 2.012 | 2.916 | 10.3 | 19.4 |
| 4 21 | 11 6.82 | − 7 56.8 | 2.095 | 2.923 | 13.2 | 19.6 |

**40591** 1999 $RR_{142}$ 3 13.9 211°.50 1°.3/12.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.03 | + 1 39.0 | 1.859 | 2.709 | 12.8 | 19.7 |
| 2 21 | 11 53.11 | + 2 59.6 | 1.779 | 2.704 | 9.1 | 19.4 |
| 3 2 | 11 46.21 | + 4 34.4 | 1.725 | 2.698 | 5.0 | 19.2 |
| 3 12 | 11 38.07 | + 6 16.2 | 1.700 | 2.692 | 1.4 | 18.9 |
| 3 22 | 11 29.61 | + 7 55.8 | 1.704 | 2.685 | 4.6 | 19.1 |
| 4 1 | 11 21.86 | + 9 24.6 | 1.736 | 2.678 | 8.9 | 19.3 |
| 4 11 | 11 15.69 | +10 36.0 | 1.794 | 2.671 | 12.7 | 19.6 |
| 4 21 | 11 11.69 | +11 26.6 | 1.873 | 2.662 | 16.0 | 19.8 |

**176452** 2001 $XW_{40}$ 3 13.9 160°.79 6°.7/24.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.55 | −26 30.0 | 3.193 | 3.861 | 11.9 | 21.6 |
| 2 21 | 11 52.89 | −26 59.5 | 3.103 | 3.867 | 10.4 | 21.5 |
| 3 2 | 11 45.87 | −27 10.1 | 3.034 | 3.873 | 8.8 | 21.3 |
| 3 12 | 11 38.00 | −27 0.9 | 2.989 | 3.879 | 7.5 | 21.3 |
| 3 22 | 11 29.90 | −26 32.6 | 2.971 | 3.884 | 6.8 | 21.2 |
| 4 1 | 11 22.26 | −25 48.0 | 2.981 | 3.888 | 7.1 | 21.2 |
| 4 11 | 11 15.67 | −24 51.7 | 3.018 | 3.892 | 8.2 | 21.3 |
| 4 21 | 11 10.58 | −23 49.0 | 3.081 | 3.896 | 9.7 | 21.4 |

**344271** 2001 $TE_{19}$ 3 13.9 117°.30 6°.0/22.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.79 | −21 39.1 | 2.769 | 3.484 | 12.6 | 21.7 |
| 2 21 | 11 52.40 | −21 54.2 | 2.691 | 3.500 | 10.6 | 21.5 |
| 3 2 | 11 45.59 | −21 49.4 | 2.635 | 3.516 | 8.6 | 21.4 |
| 3 12 | 11 37.95 | −21 24.9 | 2.605 | 3.532 | 6.8 | 21.3 |
| 3 22 | 11 30.16 | −20 42.7 | 2.603 | 3.547 | 6.0 | 21.3 |
| 4 1 | 11 22.94 | −19 46.6 | 2.629 | 3.562 | 6.7 | 21.4 |
| 4 11 | 11 16.90 | −18 42.3 | 2.682 | 3.576 | 8.4 | 21.5 |
| 4 21 | 11 12.48 | −17 35.6 | 2.760 | 3.590 | 10.3 | 21.6 |

**246625** 2008 $WY_{86}$ 3 13.9 270°.89 3°.3/16.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.84 | − 8 8.4 | 1.449 | 2.279 | 16.9 | 20.9 |
| 2 21 | 11 54.28 | − 7 49.3 | 1.363 | 2.267 | 13.0 | 20.6 |
| 3 2 | 11 47.13 | − 7 4.9 | 1.298 | 2.256 | 8.6 | 20.3 |
| 3 12 | 11 38.25 | − 5 58.1 | 1.258 | 2.244 | 4.2 | 20.0 |
| 3 22 | 11 28.82 | − 4 35.6 | 1.244 | 2.232 | 4.5 | 20.0 |
| 4 1 | 11 20.20 | − 3 7.4 | 1.257 | 2.221 | 9.1 | 20.2 |
| 4 11 | 11 13.60 | − 1 44.5 | 1.293 | 2.209 | 13.8 | 20.5 |
| 4 21 | 11 9.78 | − 0 35.2 | 1.350 | 2.197 | 18.1 | 20.7 |

**80329** 1999 $XH_{91}$ 3 13.9 159°.62 3°.0/16.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.94 | − 7 22.7 | 1.671 | 2.489 | 15.6 | 19.5 |
| 2 21 | 11 56.77 | − 7 11.4 | 1.597 | 2.495 | 11.9 | 19.3 |
| 3 2 | 11 48.31 | − 6 39.7 | 1.545 | 2.501 | 7.7 | 19.1 |
| 3 12 | 11 38.42 | − 5 50.8 | 1.520 | 2.506 | 3.7 | 18.9 |
| 3 22 | 11 28.25 | − 4 50.5 | 1.523 | 2.510 | 4.1 | 18.9 |
| 4 1 | 11 18.99 | − 3 46.4 | 1.554 | 2.514 | 8.1 | 19.1 |
| 4 11 | 11 11.67 | − 2 46.6 | 1.611 | 2.517 | 12.2 | 19.4 |
| 4 21 | 11 6.87 | − 1 57.2 | 1.689 | 2.519 | 15.8 | 19.6 |

**318652** 2005 $MR_{45}$ 3 13.9 208°.96 1°.3/15.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.19 | − 3 29.2 | 1.932 | 2.762 | 13.2 | 21.2 |
| 2 21 | 11 53.88 | − 3 4.0 | 1.849 | 2.759 | 9.8 | 21.0 |
| 3 2 | 11 46.62 | − 2 23.5 | 1.791 | 2.755 | 5.9 | 20.7 |
| 3 12 | 11 38.14 | − 1 31.6 | 1.760 | 2.751 | 1.9 | 20.5 |
| 3 22 | 11 29.36 | − 0 33.8 | 1.758 | 2.746 | 3.3 | 20.5 |
| 4 1 | 11 21.27 | + 0 23.3 | 1.784 | 2.742 | 7.4 | 20.8 |
| 4 11 | 11 14.74 | + 1 13.3 | 1.837 | 2.736 | 11.3 | 21.0 |
| 4 21 | 11 10.34 | + 1 51.8 | 1.911 | 2.731 | 14.6 | 21.2 |

**199506** 2006 $DF_{117}$ 3 13.9 265°.14 0°.7/13.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 56.04 | + 1 11.8 | 1.980 | 2.830 | 12.2 | 20.6 |
| 2 21 | 11 51.54 | + 2 6.6 | 1.904 | 2.828 | 8.7 | 20.3 |
| 3 2 | 11 45.27 | + 3 13.5 | 1.853 | 2.825 | 4.8 | 20.1 |
| 3 12 | 11 37.91 | + 4 26.8 | 1.830 | 2.823 | 0.9 | 19.8 |
| 3 22 | 11 30.32 | + 5 39.4 | 1.836 | 2.821 | 3.8 | 20.0 |
| 4 1 | 11 23.39 | + 6 44.6 | 1.870 | 2.818 | 7.8 | 20.3 |
| 4 11 | 11 17.92 | + 7 36.8 | 1.929 | 2.816 | 11.5 | 20.5 |
| 4 21 | 11 14.41 | + 8 12.9 | 2.010 | 2.813 | 14.6 | 20.7 |

**336942** 2011 $HV_{70}$ 3 13.9 244°.67 0°.4/14.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.36 | − 1 58.2 | 2.004 | 2.843 | 12.5 | 20.7 |
| 2 21 | 11 51.79 | − 1 11.9 | 1.921 | 2.837 | 9.1 | 20.5 |
| 3 2 | 11 45.42 | − 0 10.8 | 1.864 | 2.832 | 5.3 | 20.2 |
| 3 12 | 11 37.94 | + 1 0.0 | 1.834 | 2.827 | 1.1 | 19.9 |
| 3 22 | 11 30.19 | + 2 14.1 | 1.833 | 2.821 | 3.3 | 20.1 |
| 4 1 | 11 23.07 | + 3 24.5 | 1.861 | 2.816 | 7.4 | 20.3 |
| 4 11 | 11 17.39 | + 4 24.8 | 1.915 | 2.810 | 11.1 | 20.5 |
| 4 21 | 11 13.67 | + 5 11.0 | 1.991 | 2.804 | 14.3 | 20.7 |

**502697** 2015 $DL_{14}$ 3 13.9 208°.26 1°.5/12.3 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.00 | + 3 55.8 | 2.070 | 2.923 | 11.6 | 21.4 |
| 2 21 | 11 52.17 | + 4 55.5 | 1.994 | 2.920 | 8.2 | 21.2 |
| 3 2 | 11 45.60 | + 6 4.6 | 1.944 | 2.918 | 4.5 | 21.0 |
| 3 12 | 11 37.98 | + 7 17.1 | 1.923 | 2.915 | 1.5 | 20.7 |
| 3 22 | 11 30.11 | + 8 26.2 | 1.931 | 2.911 | 4.3 | 20.9 |
| 4 1 | 11 22.91 | + 9 25.4 | 1.967 | 2.908 | 8.1 | 21.2 |
| 4 11 | 11 17.12 | +10 10.1 | 2.029 | 2.904 | 11.5 | 21.4 |
| 4 21 | 11 13.26 | +10 38.1 | 2.112 | 2.900 | 14.5 | 21.6 |

**458859** 2011 $UY_{95}$ 3 13.9 121°.64 0°.5/13.5 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 2.46 | + 1 17.3 | 1.734 | 2.579 | 13.8 | 22.1 |
| 2 21 | 11 56.18 | + 1 59.4 | 1.675 | 2.596 | 9.9 | 21.9 |
| 3 2 | 11 47.85 | + 2 53.4 | 1.640 | 2.611 | 5.5 | 21.7 |
| 3 12 | 11 38.35 | + 3 52.9 | 1.633 | 2.626 | 0.9 | 21.4 |
| 3 22 | 11 28.74 | + 4 51.0 | 1.655 | 2.641 | 4.0 | 21.7 |
| 4 1 | 11 20.13 | + 5 40.9 | 1.706 | 2.655 | 8.4 | 22.0 |
| 4 11 | 11 13.38 | + 6 17.6 | 1.781 | 2.668 | 12.3 | 22.2 |
| 4 21 | 11 8.99 | + 6 38.7 | 1.878 | 2.681 | 15.5 | 22.5 |

**346128** 2007 $VR_{171}$ 3 13.9 123°.38 0°.2/14.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.50 | − 0 4.6 | 2.428 | 3.262 | 10.7 | 21.9 |
| 2 21 | 11 52.24 | + 0 21.1 | 2.357 | 3.272 | 7.8 | 21.7 |
| 3 2 | 11 45.52 | + 0 56.1 | 2.312 | 3.281 | 4.4 | 21.5 |
| 3 12 | 11 37.96 | + 1 36.8 | 2.297 | 3.290 | 0.8 | 21.2 |
| 3 22 | 11 30.28 | + 2 18.7 | 2.311 | 3.298 | 2.8 | 21.4 |
| 4 1 | 11 23.21 | + 2 57.3 | 2.355 | 3.307 | 6.2 | 21.6 |
| 4 11 | 11 17.38 | + 3 28.7 | 2.426 | 3.315 | 9.3 | 21.8 |
| 4 21 | 11 13.23 | + 3 50.4 | 2.520 | 3.323 | 12.0 | 22.0 |

**222838** 2002 $EO_{52}$ 3 13.9 82°.31 0°.2/14.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.69 | + 0 20.5 | 1.844 | 2.688 | 13.2 | 20.5 |
| 2 21 | 11 54.21 | + 0 39.6 | 1.775 | 2.694 | 9.6 | 20.3 |
| 3 2 | 11 46.78 | + 1 10.1 | 1.730 | 2.700 | 5.4 | 20.1 |
| 3 12 | 11 38.18 | + 1 47.7 | 1.713 | 2.706 | 1.0 | 19.8 |
| 3 22 | 11 29.40 | + 2 26.7 | 1.724 | 2.711 | 3.5 | 20.0 |
| 4 1 | 11 21.43 | + 3 1.7 | 1.763 | 2.717 | 7.8 | 20.3 |
| 4 11 | 11 15.13 | + 3 27.6 | 1.827 | 2.723 | 11.6 | 20.5 |
| 4 21 | 11 11.01 | + 3 41.6 | 1.913 | 2.729 | 14.8 | 20.7 |

**411193** 2010 $JE_{148}$ 3 13.9 321°.04 5°.0/ 9.9 14 C

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.29 | + 8 17.1 | 1.139 | 2.029 | 16.1 | 20.9 |
| 2 21 | 11 52.20 | + 9 49.1 | 1.066 | 2.009 | 11.6 | 20.6 |
| 3 2 | 11 46.18 | +11 35.5 | 1.014 | 1.990 | 6.9 | 20.2 |
| 3 12 | 11 38.14 | +13 23.3 | 0.986 | 1.971 | 5.2 | 20.1 |
| 3 22 | 11 29.46 | +14 57.7 | 0.981 | 1.953 | 9.1 | 20.2 |
| 4 1 | 11 21.75 | +16 6.3 | 0.999 | 1.937 | 14.3 | 20.4 |
| 4 11 | 11 16.43 | +16 41.9 | 1.037 | 1.921 | 19.3 | 20.7 |
| 4 21 | 11 14.30 | +16 44.0 | 1.090 | 1.906 | 23.5 | 20.9 |

**95823** 2003 $FW_{82}$ 3 13.9 254°.75 3°.1/11.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.10 | + 6 11.3 | 1.521 | 2.389 | 14.1 | 19.7 |
| 2 21 | 11 54.29 | + 7 30.1 | 1.446 | 2.380 | 10.1 | 19.4 |
| 3 2 | 11 47.05 | + 9 0.8 | 1.396 | 2.370 | 5.7 | 19.2 |
| 3 12 | 11 38.26 | +10 33.8 | 1.371 | 2.360 | 3.2 | 19.0 |
| 3 22 | 11 29.05 | +11 58.6 | 1.374 | 2.350 | 6.5 | 19.1 |
| 4 1 | 11 20.69 | +13 5.9 | 1.404 | 2.339 | 11.1 | 19.4 |
| 4 11 | 11 14.29 | +13 50.1 | 1.456 | 2.329 | 15.4 | 19.6 |
| 4 21 | 11 10.50 | +14 9.5 | 1.526 | 2.318 | 19.0 | 19.8 |

**63039** 2000 $WS_{71}$ 3 13.9 288°.19 4°.9/19.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 56.10 | −15 9.5 | 2.403 | 3.172 | 12.9 | 19.4 |
| 2 21 | 11 51.44 | −15 19.9 | 2.311 | 3.167 | 10.5 | 19.2 |
| 3 2 | 11 45.19 | −15 11.5 | 2.242 | 3.163 | 7.9 | 19.0 |
| 3 12 | 11 37.93 | −14 44.9 | 2.199 | 3.158 | 5.6 | 18.9 |
| 3 22 | 11 30.39 | −14 2.6 | 2.184 | 3.154 | 5.0 | 18.8 |
| 4 1 | 11 23.37 | −13 9.1 | 2.197 | 3.149 | 6.6 | 18.9 |
| 4 11 | 11 17.58 | −12 10.2 | 2.237 | 3.145 | 9.2 | 19.0 |
| 4 21 | 11 13.52 | −11 12.1 | 2.301 | 3.140 | 11.8 | 19.2 |

**366442** 2001 $XM_{146}$ 3 13.9 158°.76 1°.9/16.1 16

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 58.95 | − 6 8.5 | 2.328 | 3.140 | 11.9 | 22.0 |
| 2 21 | 11 53.38 | − 5 43.0 | 2.250 | 3.147 | 9.0 | 21.9 |
| 3 2 | 11 46.21 | − 5 2.8 | 2.197 | 3.154 | 5.6 | 21.7 |
| 3 12 | 11 38.09 | − 4 11.2 | 2.172 | 3.160 | 2.5 | 21.5 |
| 3 22 | 11 29.80 | − 3 12.9 | 2.178 | 3.165 | 2.9 | 21.5 |
| 4 1 | 11 22.14 | − 2 13.3 | 2.213 | 3.170 | 6.2 | 21.7 |
| 4 11 | 11 15.81 | − 1 18.1 | 2.275 | 3.174 | 9.5 | 21.9 |
| 4 21 | 11 11.27 | − 0 31.5 | 2.362 | 3.178 | 12.3 | 22.1 |

**498054** 2007 $RF_{48}$ 3 13.9 206°.65 0°.8/13.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.20 | + 3 18.2 | 2.415 | 3.259 | 10.5 | 22.2 |
| 2 21 | 11 52.83 | + 3 47.7 | 2.334 | 3.255 | 7.5 | 22.0 |
| 3 2 | 11 45.91 | + 4 24.6 | 2.280 | 3.251 | 4.1 | 21.8 |
| 3 12 | 11 38.05 | + 5 4.8 | 2.254 | 3.247 | 0.9 | 21.6 |
| 3 22 | 11 29.98 | + 5 43.6 | 2.258 | 3.242 | 3.3 | 21.8 |
| 4 1 | 11 22.48 | + 6 16.7 | 2.292 | 3.237 | 6.8 | 22.0 |
| 4 11 | 11 16.23 | + 6 40.6 | 2.353 | 3.232 | 10.0 | 22.2 |
| 4 21 | 11 11.69 | + 6 53.0 | 2.436 | 3.227 | 12.7 | 22.3 |

**371982** 2008 $GK_{93}$ 3 13.9 291°.42 5°.4/ 8.8 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.86 | +13 33.4 | 1.657 | 2.531 | 12.9 | 20.6 |
| 2 21 | 11 53.91 | +14 52.0 | 1.592 | 2.525 | 9.4 | 20.3 |
| 3 2 | 11 46.74 | +16 12.4 | 1.552 | 2.519 | 6.3 | 20.1 |
| 3 12 | 11 38.21 | +17 25.1 | 1.539 | 2.514 | 5.6 | 20.1 |
| 3 22 | 11 29.39 | +18 21.4 | 1.552 | 2.508 | 8.2 | 20.2 |
| 4 1 | 11 21.46 | +18 55.1 | 1.591 | 2.502 | 11.8 | 20.4 |
| 4 11 | 11 15.38 | +19 4.0 | 1.652 | 2.497 | 15.2 | 20.6 |
| 4 21 | 11 11.73 | +18 49.2 | 1.731 | 2.492 | 18.2 | 20.8 |

**78280** 2002 $PG_{39}$ 3 13.9 110°.46 0°.3/13.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.75 | + 0 27.9 | 1.796 | 2.640 | 13.5 | 20.5 |
| 2 21 | 11 54.92 | + 1 11.2 | 1.737 | 2.657 | 9.7 | 20.3 |
| 3 2 | 11 47.14 | + 2 6.9 | 1.702 | 2.673 | 5.4 | 20.0 |
| 3 12 | 11 38.26 | + 3 8.9 | 1.695 | 2.689 | 0.8 | 19.7 |
| 3 22 | 11 29.28 | + 4 10.2 | 1.718 | 2.704 | 3.8 | 20.0 |
| 4 1 | 11 21.23 | + 5 4.2 | 1.768 | 2.719 | 8.0 | 20.3 |
| 4 11 | 11 14.93 | + 5 45.7 | 1.844 | 2.733 | 11.8 | 20.5 |
| 4 21 | 11 10.86 | + 6 12.1 | 1.941 | 2.747 | 14.9 | 20.8 |

**468997** 2015 $AO_{177}$ 3 13.9 29°.30 0°.1/14.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 59.29 | + 0 52.3 | 1.667 | 2.519 | 14.0 | 20.7 |
| 2 21 | 11 54.08 | + 1 6.0 | 1.601 | 2.524 | 10.1 | 20.5 |
| 3 2 | 11 46.77 | + 1 31.5 | 1.559 | 2.530 | 5.7 | 20.2 |
| 3 12 | 11 38.22 | + 2 4.1 | 1.543 | 2.536 | 1.0 | 19.9 |
| 3 22 | 11 29.46 | + 2 38.0 | 1.555 | 2.543 | 3.8 | 20.1 |
| 4 1 | 11 21.60 | + 3 7.3 | 1.594 | 2.550 | 8.3 | 20.4 |
| 4 11 | 11 15.55 | + 3 27.1 | 1.657 | 2.557 | 12.3 | 20.7 |
| 4 21 | 11 11.85 | + 3 34.5 | 1.742 | 2.565 | 15.7 | 20.9 |

**95774** 2003 $EQ_{53}$ 3 13.9 280°.00 7°.8/ 6.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.56 | +22 10.3 | 1.812 | 2.677 | 12.4 | 19.9 |
| 2 21 | 11 55.83 | +23 26.1 | 1.746 | 2.664 | 9.8 | 19.7 |
| 3 2 | 11 47.82 | +24 35.1 | 1.704 | 2.650 | 8.0 | 19.5 |
| 3 12 | 11 38.41 | +25 27.8 | 1.689 | 2.636 | 8.2 | 19.5 |
| 3 22 | 11 28.68 | +25 56.9 | 1.700 | 2.622 | 10.3 | 19.6 |
| 4 1 | 11 19.84 | +25 58.4 | 1.736 | 2.608 | 13.2 | 19.7 |
| 4 11 | 11 12.87 | +25 32.6 | 1.792 | 2.594 | 16.0 | 19.9 |
| 4 21 | 11 8.38 | +24 42.6 | 1.867 | 2.580 | 18.6 | 20.1 |

**403892** 2011 $WC_{142}$ 3 13.9 230°.46 3°.3/16.9 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.44 | − 8 42.2 | 1.752 | 2.566 | 15.1 | 22.1 |
| 2 21 | 11 55.09 | − 8 28.1 | 1.662 | 2.556 | 11.7 | 21.9 |
| 3 2 | 11 47.48 | − 7 52.4 | 1.594 | 2.546 | 7.8 | 21.6 |
| 3 12 | 11 38.37 | − 6 57.7 | 1.552 | 2.535 | 4.1 | 21.3 |
| 3 22 | 11 28.80 | − 5 49.0 | 1.538 | 2.524 | 4.2 | 21.3 |
| 4 1 | 11 19.92 | − 4 34.2 | 1.552 | 2.513 | 8.0 | 21.5 |
| 4 11 | 11 12.78 | − 3 21.9 | 1.591 | 2.500 | 12.2 | 21.7 |
| 4 21 | 11 8.05 | − 2 19.2 | 1.653 | 2.487 | 15.9 | 21.9 |

**322296** 2011 $FW_{60}$ 3 13.9 127°.13 0°.4/13.6 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 58.33 | + 1 23.3 | 2.056 | 2.901 | 12.0 | 21.4 |
| 2 21 | 11 53.08 | + 2 0.0 | 1.987 | 2.907 | 8.6 | 21.2 |
| 3 2 | 11 46.10 | + 2 46.9 | 1.942 | 2.913 | 4.8 | 21.0 |
| 3 12 | 11 38.11 | + 3 39.1 | 1.926 | 2.920 | 0.8 | 20.7 |
| 3 22 | 11 29.95 | + 4 30.8 | 1.940 | 2.925 | 3.5 | 20.9 |
| 4 1 | 11 22.51 | + 5 16.4 | 1.981 | 2.931 | 7.4 | 21.2 |
| 4 11 | 11 16.54 | + 5 51.4 | 2.049 | 2.937 | 10.9 | 21.4 |
| 4 21 | 11 12.53 | + 6 13.3 | 2.139 | 2.942 | 13.8 | 21.6 |

**505227** 2012 $UM_{12}$ 3 13.9 175°.43 0°.8/15.1 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 55.46 | − 3 32.6 | 2.514 | 3.338 | 10.7 | 22.5 |
| 2 21 | 11 50.82 | − 2 47.9 | 2.432 | 3.340 | 7.9 | 22.3 |
| 3 2 | 11 44.77 | − 1 50.6 | 2.377 | 3.341 | 4.7 | 22.1 |
| 3 12 | 11 37.89 | − 0 44.5 | 2.350 | 3.342 | 1.4 | 21.9 |
| 3 22 | 11 30.82 | + 0 25.3 | 2.354 | 3.342 | 2.6 | 22.0 |
| 4 1 | 11 24.28 | + 1 33.3 | 2.388 | 3.343 | 6.0 | 22.2 |
| 4 11 | 11 18.89 | + 2 34.3 | 2.449 | 3.343 | 9.1 | 22.4 |
| 4 21 | 11 15.08 | + 3 24.6 | 2.534 | 3.342 | 11.8 | 22.6 |

**295366** 2008 $HO_{51}$ 3 13.9 206°.52 3°.8/18.7 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| | h m | ° ′ | | | ° | m |
| 2 11 | 11 57.99 | −13 17.8 | 2.529 | 3.303 | 12.2 | 21.8 |
| 2 21 | 11 52.73 | −12 58.5 | 2.431 | 3.296 | 9.7 | 21.7 |
| 3 2 | 11 45.91 | −12 20.7 | 2.357 | 3.289 | 7.0 | 21.5 |
| 3 12 | 11 38.09 | −11 25.9 | 2.311 | 3.281 | 4.5 | 21.3 |
| 3 22 | 11 30.00 | −10 17.7 | 2.294 | 3.273 | 4.0 | 21.2 |
| 4 1 | 11 22.40 | − 9 1.5 | 2.308 | 3.263 | 6.1 | 21.4 |
| 4 11 | 11 16.00 | − 7 43.7 | 2.349 | 3.253 | 9.0 | 21.5 |
| 4 21 | 11 11.30 | − 6 30.3 | 2.416 | 3.243 | 11.7 | 21.7 |

**316838** 2000 $CF_{142}$ 3 13.9 180°.80 0°.4/14.4 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.54 | − 0 50.1 | 2.299 | 3.133 | 11.3 | 21.5 |
| 2 21 | 11 52.42 | − 0 20.8 | 2.220 | 3.134 | 8.2 | 21.3 |
| 3 2 | 11 45.71 | + 0 19.4 | 2.166 | 3.134 | 4.7 | 21.1 |
| 3 12 | 11 38.05 | + 1 6.6 | 2.141 | 3.134 | 1.0 | 20.8 |
| 3 22 | 11 30.19 | + 1 56.1 | 2.146 | 3.134 | 2.9 | 20.9 |
| 4 1 | 11 22.92 | + 2 42.5 | 2.180 | 3.133 | 6.6 | 21.2 |
| 4 11 | 11 16.96 | + 3 21.4 | 2.241 | 3.133 | 9.9 | 21.4 |
| 4 21 | 11 12.75 | + 3 49.7 | 2.325 | 3.132 | 12.7 | 21.6 |

**144150** 2004 $BS_{95}$ 3 13.9 192°.78 3°.6/11.0 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.68 | + 8 34.5 | 1.561 | 2.424 | 14.1 | 20.1 |
| 2 21 | 11 57.48 | + 9 38.0 | 1.493 | 2.423 | 10.1 | 19.8 |
| 3 2 | 11 48.80 | +10 48.4 | 1.449 | 2.422 | 5.9 | 19.6 |
| 3 12 | 11 38.59 | +11 56.7 | 1.433 | 2.419 | 3.7 | 19.4 |
| 3 22 | 11 28.07 | +12 54.1 | 1.444 | 2.416 | 6.7 | 19.6 |
| 4 1 | 11 18.55 | +13 33.3 | 1.482 | 2.412 | 11.0 | 19.9 |
| 4 11 | 11 11.10 | +13 50.9 | 1.543 | 2.408 | 15.1 | 20.1 |
| 4 21 | 11 6.36 | +13 46.8 | 1.623 | 2.403 | 18.5 | 20.3 |

**463468** 2013 $PB_{31}$ 3 14.0 241°.06 7°.4/20.5 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.32 | −18 24.5 | 1.973 | 2.727 | 15.8 | 21.2 |
| 2 21 | 11 55.65 | −19 8.7 | 1.880 | 2.720 | 13.3 | 21.0 |
| 3 2 | 11 47.78 | −19 30.2 | 1.809 | 2.712 | 10.5 | 20.8 |
| 3 12 | 11 38.44 | −19 27.0 | 1.762 | 2.705 | 8.2 | 20.7 |
| 3 22 | 11 28.61 | −19 0.1 | 1.741 | 2.697 | 7.4 | 20.6 |
| 4 1 | 11 19.38 | −18 13.7 | 1.747 | 2.689 | 8.8 | 20.7 |
| 4 11 | 11 11.78 | −17 15.3 | 1.779 | 2.681 | 11.5 | 20.8 |
| 4 21 | 11 6.50 | −16 13.0 | 1.833 | 2.672 | 14.3 | 21.0 |

**360511** 2003 $OE_{7}$ 3 14.0 249°.96 0°.2/14.2 17

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 0.15 | − 1 24.1 | 1.856 | 2.694 | 13.4 | 21.6 |
| 2 21 | 11 54.83 | − 0 39.1 | 1.759 | 2.675 | 9.8 | 21.3 |
| 3 2 | 11 47.34 | + 0 22.2 | 1.686 | 2.655 | 5.7 | 21.0 |
| 3 12 | 11 38.37 | + 1 34.9 | 1.642 | 2.634 | 1.1 | 20.6 |
| 3 22 | 11 28.89 | + 2 52.0 | 1.626 | 2.613 | 3.7 | 20.8 |
| 4 1 | 11 19.99 | + 4 5.6 | 1.638 | 2.591 | 8.4 | 21.0 |
| 4 11 | 11 12.69 | + 5 8.2 | 1.676 | 2.568 | 12.7 | 21.2 |
| 4 21 | 11 7.67 | + 5 55.1 | 1.736 | 2.544 | 16.3 | 21.4 |

**79507** 1998 $HD_{42}$ 3 14.0 107°.47 2°.1/12.3 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 1.93 | + 3 41.0 | 1.364 | 2.228 | 15.7 | 20.0 |
| 2 21 | 11 56.28 | + 4 49.1 | 1.310 | 2.241 | 11.1 | 19.7 |
| 3 2 | 11 48.10 | + 6 10.0 | 1.279 | 2.253 | 6.1 | 19.5 |
| 3 12 | 11 38.47 | + 7 34.2 | 1.274 | 2.265 | 2.1 | 19.2 |
| 3 22 | 11 28.70 | + 8 51.1 | 1.296 | 2.277 | 5.7 | 19.5 |
| 4 1 | 11 20.13 | + 9 51.9 | 1.344 | 2.289 | 10.6 | 19.8 |
| 4 11 | 11 13.81 | +10 31.3 | 1.415 | 2.300 | 15.0 | 20.1 |
| 4 21 | 11 10.29 | +10 48.0 | 1.504 | 2.310 | 18.5 | 20.4 |

**138617** 2000 $QP_{205}$ 3 14.0 176°.67 0°.0/14.1 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 11 57.58 | + 1 0.8 | 3.013 | 3.842 | 9.0 | 20.7 |
| 2 21 | 11 52.12 | + 1 19.9 | 2.932 | 3.844 | 6.5 | 20.6 |
| 3 2 | 11 45.43 | + 1 45.9 | 2.878 | 3.846 | 3.7 | 20.4 |
| 3 12 | 11 38.01 | + 2 15.8 | 2.854 | 3.847 | 0.6 | 20.1 |
| 3 22 | 11 30.45 | + 2 46.4 | 2.861 | 3.847 | 2.4 | 20.3 |
| 4 1 | 11 23.35 | + 3 14.4 | 2.899 | 3.847 | 5.4 | 20.5 |
| 4 11 | 11 17.26 | + 3 36.8 | 2.964 | 3.847 | 8.1 | 20.7 |
| 4 21 | 11 12.56 | + 3 51.5 | 3.055 | 3.846 | 10.4 | 20.8 |

**90950** 1997 $VH_{5}$ 3 14.0 115°.16 4°.5/10.2 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.61 | +11 35.7 | 1.621 | 2.487 | 13.6 | 19.1 |
| 2 21 | 11 57.15 | +12 40.4 | 1.571 | 2.502 | 9.7 | 18.9 |
| 3 2 | 11 48.46 | +13 46.9 | 1.547 | 2.516 | 6.0 | 18.7 |
| 3 12 | 11 38.54 | +14 46.2 | 1.549 | 2.530 | 4.6 | 18.7 |
| 3 22 | 11 28.56 | +15 30.7 | 1.579 | 2.544 | 7.2 | 18.8 |
| 4 1 | 11 19.72 | +15 55.3 | 1.636 | 2.557 | 10.9 | 19.1 |
| 4 11 | 11 12.92 | +15 58.3 | 1.716 | 2.569 | 14.4 | 19.3 |
| 4 21 | 11 8.66 | +15 41.2 | 1.815 | 2.581 | 17.3 | 19.6 |

**374112** 2004 $SW_{34}$ 3 14.0 111°.88 3°.8/10.4 18

| 2020 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\beta$ | $V$ |
|---|---|---|---|---|---|---|
| 2 11 | 12 3.03 | +13 4.7 | 2.136 | 2.992 | 11.1 | 21.3 |
| 2 21 | 11 56.29 | +13 42.4 | 2.084 | 3.009 | 8.0 | 21.1 |
| 3 2 | 11 47.82 | +14 19.4 | 2.058 | 3.024 | 5.0 | 21.0 |
| 3 12 | 11 38.43 | +14 49.8 | 2.060 | 3.040 | 3.8 | 20.9 |
| 3 22 | 11 29.02 | +15 8.9 | 2.093 | 3.055 | 5.8 | 21.1 |
| 4 1 | 11 20.50 | +15 13.6 | 2.153 | 3.070 | 8.9 | 21.3 |
| 4 11 | 11 13.60 | +15 2.9 | 2.239 | 3.084 | 11.7 | 21.5 |
| 4 21 | 11 8.75 | +14 37.7 | 2.346 | 3.098 | 14.2 | 21.7 |