| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336001 2007 $TL_{366}$ | 16.0 | X | 47.03886 | 156.30795 | 284.57618 | 5.30286 | 0.0515442 | 0.17449598 | 3.1716050 | 20 | 1 5.9 | 20.2 |
| 336002 2007 $TZ_{368}$ | 16.0 | X | 130.36979 | 258.02288 | 104.60354 | 15.12269 | 0.2756177 | 0.18203415 | 3.0834303 | 20 | 2 9.9 | 21.1 |
| 336003 2007 $TV_{374}$ | 15.9 | X | 340.57979 | 25.86938 | 153.44736 | 12.65347 | 0.0670328 | 0.19168861 | 2.9790092 | 20 | 1 31.0 | 20.0 |
| 336004 2007 $TZ_{376}$ | 15.9 | X | 134.70547 | 22.04465 | 324.37581 | 4.41802 | 0.1461601 | 0.17960260 | 3.1111979 | 20 | 1 12.2 | 20.5 |
| 336005 2007 $TM_{379}$ | 16.4 | X | 183.63237 | 136.27629 | 202.14562 | 8.67922 | 0.1338935 | 0.18868125 | 3.0105804 | 20 | 2 12.8 | 21.3 |
| 336006 2007 $TU_{385}$ | 15.7 | X | 72.63545 | 275.92818 | 160.11811 | 11.91108 | 0.2519685 | 0.17912883 | 3.1166812 | 20 | 2 29.6 | 19.6 |
| 336007 2007 $TD_{386}$ | 15.3 | X | 93.50707 | 239.45897 | 158.93884 | 16.19131 | 0.0832358 | 0.17873308 | 3.1212802 | 20 | 1 17.0 | 19.8 |
| 336008 2007 $TF_{393}$ | 16.7 | X | 177.85940 | 224.51142 | 131.01014 | 2.85787 | 0.1017254 | 0.19515966 | 2.9435811 | 20 | 2 28.9 | 21.3 |
| 336009 2007 $TL_{397}$ | 15.5 | X | 143.97235 | 173.46158 | 146.89109 | 11.39966 | 0.1253157 | 0.17681162 | 3.1438527 | 20 | — | — |
| 336010 2007 $TG_{404}$ | 15.9 | X | 104.75377 | 90.30064 | 258.37065 | 2.94482 | 0.0500604 | 0.16856800 | 3.2455325 | 20 | — | — |
| 336011 2007 $TN_{407}$ | 15.9 | X | 98.83244 | 217.50926 | 167.05287 | 9.97700 | 0.0876833 | 0.17457180 | 3.1706867 | 20 | 1 8.7 | 20.4 |
| 336012 2007 $TP_{421}$ | 16.0 | X | 95.26685 | 250.77106 | 144.10498 | 16.59302 | 0.2870561 | 0.17866643 | 3.1220564 | 20 | 2 13.4 | 20.3 |
| 336013 2007 $TR_{424}$ | 15.7 | X | 130.67746 | 80.35628 | 327.57371 | 8.05977 | 0.0973393 | 0.18926219 | 3.0044165 | 20 | 3 11.6 | 20.3 |
| 336014 2007 $TX_{440}$ | 15.8 | X | 145.20962 | 7.02466 | 352.55940 | 11.14775 | 0.1723897 | 0.18342074 | 3.0678710 | 20 | 2 11.0 | 20.7 |
| 336015 2007 $TW_{442}$ | 15.6 | X | 109.67412 | 250.97109 | 156.88163 | 9.03437 | 0.1065692 | 0.18260289 | 3.0770244 | 20 | 2 20.4 | 20.1 |
| 336016 2007 $TQ_{445}$ | 18.1 | X | 21.93231 | 69.15347 | 213.86536 | 21.00963 | 0.0874290 | 0.37252245 | 1.9129388 | 20 | 9 11.1 | 20.2 |
| 336017 2007 $TJ_{446}$ | 16.0 | X | 107.09222 | 128.87561 | 252.11693 | 6.99717 | 0.1557641 | 0.17878295 | 3.1206998 | 20 | 1 22.1 | 20.4 |
| 336018 2007 $UZ_{5}$ | 15.5 | X | 81.14644 | 157.16413 | 228.75924 | 8.06166 | 0.0531521 | 0.17439580 | 3.1728195 | 20 | — | — |
| 336019 2007 $UH_{8}$ | 15.6 | X | 48.73605 | 141.40418 | 267.81561 | 13.28290 | 0.0977798 | 0.16977804 | 3.2300931 | 20 | — | — |
| 336020 2007 $UQ_{17}$ | 16.0 | X | 155.70136 | 97.81896 | 219.54510 | 1.56483 | 0.0974541 | 0.17739927 | 3.1369060 | 20 | — | — |
| 336021 2007 $UW_{30}$ | 15.8 | X | 53.98195 | 291.18953 | 112.67928 | 6.57731 | 0.1471001 | 0.17025719 | 3.2240300 | 20 | — | — |
| 336022 2007 $UC_{31}$ | 15.7 | X | 103.61257 | 236.90039 | 188.80735 | 16.53711 | 0.1591054 | 0.18453418 | 3.0555180 | 20 | 3 11.5 | 20.2 |
| 336023 2007 $UU_{35}$ | 16.2 | X | 108.58232 | 280.10653 | 94.86895 | 5.98780 | 0.1902247 | 0.17948799 | 3.1125222 | 20 | 1 23.5 | 20.6 |
| 336024 2007 $UU_{46}$ | 15.7 | X | 104.90874 | 280.38561 | 67.14947 | 6.87049 | 0.1812774 | 0.17071012 | 3.2183248 | 20 | — | — |
| 336025 2007 $UX_{54}$ | 16.2 | X | 143.25240 | 307.64994 | 46.84660 | 1.17500 | 0.1827426 | 0.18004111 | 3.1061440 | 20 | 2 2.0 | 21.0 |
| 336026 2007 $UX_{65}$ | 15.7 | X | 103.66660 | 169.51466 | 209.58276 | 16.86182 | 0.1636199 | 0.17893859 | 3.1188899 | 20 | 1 14.9 | 20.4 |
| 336027 2007 $UT_{116}$ | 15.5 | X | 142.58249 | 281.94794 | 61.69653 | 16.91125 | 0.2407888 | 0.18059779 | 3.0997578 | 20 | 1 27.8 | 20.8 |
| 336028 2007 $UR_{118}$ | 16.0 | X | 99.70403 | 313.20398 | 117.40801 | 7.51804 | 0.2110854 | 0.18278096 | 3.0750257 | 20 | 3 25.0 | 20.5 |
| 336029 2007 $UB_{140}$ | 15.1 | X | 149.44061 | 65.21499 | 262.93317 | 15.00153 | 0.1120961 | 0.17403334 | 3.1772234 | 20 | 1 1.6 | 20.0 |
| 336030 2007 $VH_{7}$ | 15.1 | X | 113.99177 | 177.16793 | 232.77314 | 22.56203 | 0.0935160 | 0.18225803 | 3.0809047 | 20 | 2 17.6 | 20.0 |
| 336031 2007 $VU_{10}$ | 15.5 | X | 127.78212 | 314.33242 | 87.37739 | 6.09659 | 0.2000864 | 0.18469930 | 3.0536966 | 20 | 3 17.4 | 20.3 |
| 336032 2007 $VY_{15}$ | 16.2 | X | 118.01474 | 325.14936 | 8.57709 | 5.22378 | 0.1660910 | 0.17390867 | 3.1787416 | 20 | — | — |
| 336033 2007 $VQ_{117}$ | 15.7 | X | 130.55346 | 114.89971 | 248.83294 | 8.29415 | 0.1590986 | 0.17954320 | 3.1118840 | 20 | 1 26.6 | 20.5 |
| 336034 2007 $VN_{122}$ | 16.2 | X | 135.09835 | 110.99931 | 249.21007 | 9.20310 | 0.2200716 | 0.17915078 | 3.1164266 | 20 | 2 1.2 | 21.3 |
| 336035 2007 $VA_{135}$ | 15.9 | X | 81.17964 | 220.91833 | 222.17911 | 8.82918 | 0.1015760 | 0.18342674 | 3.0678041 | 20 | 2 24.0 | 20.2 |
| 336036 2007 $VG_{150}$ | 16.2 | X | 163.72870 | 320.31840 | 354.29475 | 2.69163 | 0.0660216 | 0.17519412 | 3.1631736 | 20 | — | — |
| 336037 2007 $VM_{234}$ | 16.2 | X | 196.96162 | 219.70437 | 132.69617 | 0.71510 | 0.1924592 | 0.18946482 | 3.0022740 | 20 | 3 14.6 | 21.2 |
| 336038 2007 $VZ_{261}$ | 16.3 | X | 170.19112 | 94.36580 | 199.14512 | 12.00102 | 0.1449344 | 0.17553823 | 3.1590384 | 20 | — | — |
| 336039 2007 $VN_{287}$ | 15.1 | X | 79.97296 | 325.60864 | 90.21554 | 18.89290 | 0.2642777 | 0.17499176 | 3.1656117 | 20 | 2 23.4 | 19.6 |
| 336040 2007 $VS_{298}$ | 15.8 | X | 131.07365 | 246.22588 | 134.20335 | 17.69834 | 0.2587435 | 0.18196187 | 3.0842468 | 20 | 2 29.3 | 20.9 |
| 336041 2007 $VW_{299}$ | 15.7 | X | 73.55372 | 80.42889 | 335.38196 | 12.66379 | 0.1787705 | 0.17512250 | 3.1640360 | 20 | 1 29.3 | 19.8 |
| 336042 2007 $VC_{321}$ | 16.0 | X | 68.34391 | 255.76504 | 173.69432 | 14.94111 | 0.2146786 | 0.17449162 | 3.1716579 | 20 | 2 7.7 | 20.1 |
| 336043 2007 $WZ$ | 15.8 | X | 93.62366 | 36.73323 | 358.81527 | 7.83150 | 0.0159013 | 0.17528261 | 3.1621090 | 20 | 1 7.8 | 20.3 |
| 336044 2007 $WB_{3}$ | 15.8 | X | 129.56789 | 65.18047 | 298.16797 | 7.96886 | 0.1080663 | 0.17783447 | 3.1317860 | 20 | 1 21.9 | 20.5 |
| 336045 2007 $YN_{60}$ | 17.0 | X | 299.76337 | 29.59989 | 287.46215 | 16.77770 | 0.0641878 | 0.35098872 | 1.9904011 | 20 | 5 31.2 | 19.0 |
| 336046 2008 $AS_{54}$ | 17.7 | X | 251.67425 | 281.96922 | 307.44862 | 4.24413 | 0.1236699 | 0.31579939 | 2.1356424 | 20 | — | — |
| 336047 2008 $AO_{136}$ | 17.5 | X | 192.14384 | 120.42989 | 326.60978 | 17.64859 | 0.0567178 | 0.35511703 | 1.9749452 | 20 | 7 19.3 | 19.9 |
| 336048 2008 $CK_{4}$ | 17.6 | X | 196.96523 | 266.30369 | 312.63775 | 6.77245 | 0.1827188 | 0.29680740 | 2.2258005 | 20 | — | — |
| 336049 2008 $CW_{36}$ | 18.2 | X | 158.60615 | 104.52922 | 170.64203 | 5.04819 | 0.2234454 | 0.29811783 | 2.2192731 | 20 | — | — |
| 336050 2008 $CZ_{61}$ | 17.0 | X | 143.52608 | 296.69257 | 345.47151 | 5.96843 | 0.1994011 | 0.29112194 | 2.2546861 | 20 | — | — |
| 336051 2008 $CH_{143}$ | 17.5 | X | 125.22000 | 113.46110 | 135.97204 | 0.23396 | 0.2618359 | 0.28137427 | 2.3064628 | 20 | 11 29.4 | 21.4 |
| 336052 2008 $CC_{145}$ | 18.6 | X | 168.21186 | 356.15804 | 311.99177 | 6.31996 | 0.0379832 | 0.31256751 | 2.1503385 | 20 | — | — |
| 336053 2008 $CU_{199}$ | 16.9 | X | 127.39099 | 341.61637 | 358.26945 | 9.56477 | 0.2503056 | 0.30280183 | 2.1963272 | 20 | — | — |
| 336054 2008 $CX_{211}$ | 17.2 | X | 184.14150 | 112.15102 | 127.56167 | 6.70640 | 0.1010548 | 0.29854229 | 2.2171691 | 20 | — | — |
| 336055 2008 $DV_{8}$ | 17.6 | X | 209.10057 | 152.01244 | 329.51952 | 6.30284 | 0.0546279 | 0.28453569 | 2.2893466 | 20 | 9 18.0 | 20.4 |
| 336056 2008 $DE_{67}$ | 17.9 | X | 151.87504 | 29.33730 | 196.42726 | 6.17012 | 0.1538558 | 0.28365126 | 2.2941029 | 20 | 11 25.3 | 21.5 |
| 336057 2008 $EN_{19}$ | 17.6 | X | 121.64263 | 85.85461 | 195.22429 | 4.06996 | 0.2410057 | 0.28563831 | 2.2834513 | 20 | — | — |
| 336058 2008 $EU_{36}$ | 17.8 | X | 175.82532 | 42.00501 | 189.53449 | 2.25795 | 0.1346643 | 0.29187710 | 2.2507955 | 20 | 12 28.7 | 20.8 |
| 336059 2008 $EF_{95}$ | 17.6 | X | 162.15322 | 90.41191 | 149.92091 | 5.61191 | 0.1286104 | 0.28328118 | 2.2961005 | 20 | 12 24.3 | 21.0 |
| 336060 2008 $EE_{109}$ | 17.2 | X | 100.56640 | 158.46684 | 134.25439 | 6.44017 | 0.1749649 | 0.28534925 | 2.2849931 | 20 | 12 31.0 | 20.8 |
| 336061 2008 $EN_{113}$ | 17.4 | X | 140.30735 | 347.73204 | 335.64332 | 5.78463 | 0.2026735 | 0.30484488 | 2.1865032 | 20 | — | — |
| 336062 2008 $EL_{117}$ | 18.3 | X | 104.49172 | 208.78421 | 41.02653 | 3.24827 | 0.1848283 | 0.27541133 | 2.3396354 | 20 | 11 10.3 | 21.9 |
| 336063 2008 $EB_{122}$ | 17.9 | X | 96.37217 | 315.31460 | 344.75722 | 2.03448 | 0.2119797 | 0.28450739 | 2.2894984 | 20 | — | — |
| 336064 2008 $EF_{137}$ | 17.9 | X | 131.88898 | 240.37194 | 36.09106 | 4.85379 | 0.1224258 | 0.28900585 | 2.2656786 | 20 | — | — |
| 336065 2008 $EX_{147}$ | 17.6 | X | 138.75439 | 284.44297 | 9.61822 | 5.70599 | 0.1404195 | 0.29439638 | 2.2379364 | 20 | — | — |
| 336066 2008 $FR_{7}$ | 18.2 | X | 202.82491 | 237.03938 | 4.08291 | 3.32089 | 0.1286841 | 0.30105629 | 2.2048087 | 20 | — | — |
| 336067 2008 $FZ_{15}$ | 17.6 | X | 159.35476 | 85.94709 | 112.08940 | 5.37778 | 0.1664567 | 0.27795271 | 2.3253524 | 20 | 10 28.7 | 21.2 |
| 336068 2008 $FB_{27}$ | 12.8 | X | 257.26389 | 119.28542 | 216.48345 | 29.26542 | 0.1177428 | 0.08132295 | 5.2762733 | 20 | 4 28.1 | 20.0 |
| 336069 2008 $FQ_{45}$ | 18.0 | X | 187.03456 | 265.85656 | 19.39329 | 4.40953 | 0.1564221 | 0.30489515 | 2.1862629 | 20 | — | — |
| 336070 2008 $FV_{58}$ | 17.8 | X | 131.93220 | 194.33893 | 83.66957 | 3.72336 | 0.1625842 | 0.28941840 | 2.2635250 | 20 | — | — |
| 336071 2008 $FR_{67}$ | 17.8 | X | 96.16844 | 169.36702 | 73.31061 | 2.37719 | 0.1473940 | 0.27095836 | 2.3651990 | 20 | 10 22.3 | 21.2 |
| 336072 2008 $FG_{69}$ | 17.8 | X | 124.54264 | 131.63201 | 113.49430 | 2.61708 | 0.1712142 | 0.27745548 | 2.3281297 | 20 | 11 22.9 | 21.5 |
| 336073 2008 $FG_{70}$ | 17.9 | X | 233.46169 | 18.65743 | 203.22903 | 4.75701 | 0.1286649 | 0.29698995 | 2.2248883 | 20 | — | — |
| 336074 2008 $FU_{73}$ | 12.8 | X | 272.09011 | 274.58017 | 29.14438 | 18.07412 | 0.0372349 | 0.08482453 | 5.1300519 | 20 | 4 17.9 | 19.6 |
| 336075 2008 $FU_{91}$ | 17.7 | X | 183.10654 | 86.13545 | 158.19184 | 4.28018 | 0.1511299 | 0.29511495 | 2.2343022 | 20 | — | — |
| 336076 2008 $FY_{100}$ | 17.5 | X | 113.28688 | 177.67600 | 85.26506 | 6.22071 | 0.1919254 | 0.27786238 | 2.3258563 | 20 | 12 5.2 | 21.3 |
| 336077 2008 $FK_{105}$ | 17.9 | X | 138.81284 | 136.44916 | 106.64566 | 2.86534 | 0.1838263 | 0.28168992 | 2.3047395 | 20 | 12 3.3 | 21.6 |
| 336078 2008 $FU_{111}$ | 17.5 | X | 137.89772 | 112.72178 | 140.59593 | 5.82827 | 0.1390735 | 0.28116939 | 2.3075831 | 20 | 12 16.1 | 21.1 |
| 336079 2008 $GA_{1}$ | 17.5 | X | 231.11727 | 356.91126 | 217.64477 | 7.49256 | 0.1643031 | 0.29804475 | 2.2196359 | 20 | — | — |
| 336080 2008 $GO_{10}$ | 17.4 | X | 125.98344 | 119.99234 | 184.90489 | 2.67877 | 0.1572061 | 0.28827969 | 2.2694817 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336081 2008 $GR_{13}$ | 18.0 | X | 120.65187 | 195.37178 | 147.04844 | 2.19880 | 0.1543855 | 0.30216702 | 2.1994023 | 20 | — | — |
| 336082 2008 $GK_{31}$ | 17.5 | X | 145.33990 | 159.97173 | 125.24929 | 5.59643 | 0.0978509 | 0.29166142 | 2.2519050 | 20 | — | — |
| 336083 2008 $GA_{33}$ | 17.7 | X | 158.77931 | 127.15496 | 91.86807 | 5.24626 | 0.1660492 | 0.28115372 | 2.3076689 | 20 | 11 22.4 | 21.2 |
| 336084 2008 $GS_{62}$ | 17.2 | X | 122.30036 | 97.68603 | 212.95833 | 7.64463 | 0.2074058 | 0.29044388 | 2.2581939 | 20 | — | — |
| 336085 2008 $GF_{63}$ | 17.5 | X | 109.63919 | 202.95435 | 44.61722 | 3.56988 | 0.1946317 | 0.27314604 | 2.3525531 | 20 | 11 12.2 | 21.2 |
| 336086 2008 $GF_{74}$ | 17.4 | X | 92.18863 | 238.15772 | 87.53558 | 7.82450 | 0.1441465 | 0.28735604 | 2.2743423 | 20 | — | — |
| 336087 2008 $GW_{90}$ | 17.5 | X | 104.22360 | 278.65096 | 37.16768 | 5.57032 | 0.1752663 | 0.28845384 | 2.2685681 | 20 | — | — |
| 336088 2008 $GB_{99}$ | 17.9 | X | 124.44583 | 115.70016 | 191.03998 | 1.83501 | 0.2224724 | 0.28950371 | 2.2630803 | 20 | — | — |
| 336089 2008 $GO_{107}$ | 17.1 | X | 119.48719 | 229.71597 | 50.23393 | 6.47556 | 0.2395347 | 0.28407322 | 2.2918306 | 20 | — | — |
| 336090 2008 $GL_{109}$ | 18.0 | X | 37.33321 | 104.12936 | 190.95604 | 6.34708 | 0.2056590 | 0.26289130 | 2.4133403 | 20 | 10 30.1 | 20.9 |
| 336091 2008 $GR_{119}$ | 18.1 | X | 105.72230 | 111.57457 | 158.86987 | 4.05025 | 0.1904712 | 0.27517382 | 2.3409814 | 20 | 12 7.6 | 21.8 |
| 336092 2008 $GU_{121}$ | 17.8 | X | 230.91460 | 40.54807 | 183.00782 | 6.07892 | 0.1566290 | 0.29860786 | 2.2168445 | 20 | — | — |
| 336093 2008 $GK_{144}$ | 17.6 | X | 84.61807 | 137.53248 | 130.58138 | 3.04347 | 0.1886676 | 0.27079950 | 2.3661239 | 20 | 11 15.5 | 21.3 |
| 336094 2008 $HN_{3}$ | 17.2 | X | 108.38242 | 207.46411 | 66.10080 | 7.65437 | 0.1123628 | 0.27959198 | 2.3162543 | 20 | 12 11.3 | 20.5 |
| 336095 2008 $HA_{4}$ | 17.8 | X | 154.33755 | 80.69549 | 135.87491 | 6.46662 | 0.1557323 | 0.28155250 | 2.3054894 | 20 | 11 16.9 | 21.5 |
| 336096 2008 $HQ_{5}$ | 17.6 | X | 143.25895 | 315.96794 | 208.46915 | 1.79046 | 0.1514470 | 0.26965227 | 2.3728302 | 20 | 8 27.3 | 21.3 |
| 336097 2008 $HQ_{15}$ | 17.7 | X | 71.69525 | 140.34451 | 128.04750 | 6.15803 | 0.1987008 | 0.26709326 | 2.3879621 | 20 | 11 5.1 | 21.3 |
| 336098 2008 $HB_{34}$ | 17.2 | X | 72.96268 | 185.34147 | 130.29037 | 5.95929 | 0.2473781 | 0.27481669 | 2.3430091 | 20 | — | — |
| 336099 2008 $HE_{34}$ | 17.8 | X | 91.83683 | 119.40352 | 153.93799 | 4.64777 | 0.2164170 | 0.27213627 | 2.3583691 | 20 | 11 30.4 | 21.6 |
| 336100 2008 $HL_{44}$ | 17.7 | X | 74.14863 | 170.26795 | 140.10116 | 2.77934 | 0.2144719 | 0.27538458 | 2.3397869 | 20 | 12 29.6 | 21.3 |
| 336101 2008 $HL_{55}$ | 18.0 | X | 60.06380 | 260.04061 | 67.84045 | 6.97789 | 0.1506802 | 0.27647710 | 2.3336189 | 20 | — | — |
| 336102 2008 $HB_{59}$ | 18.4 | X | 86.31704 | 103.46915 | 196.06861 | 3.41975 | 0.2138022 | 0.27690677 | 2.3312043 | 20 | 12 27.1 | 22.1 |
| 336103 2008 $HU_{61}$ | 17.1 | X | 159.78586 | 39.56195 | 236.03642 | 6.00580 | 0.1105107 | 0.28980856 | 2.2614930 | 20 | — | — |
| 336104 2008 $HF_{66}$ | 17.5 | X | 110.83835 | 246.57458 | 26.69127 | 3.51591 | 0.1834378 | 0.27994002 | 2.3143341 | 20 | 12 15.3 | 21.3 |
| 336105 2008 $HN_{67}$ | 17.9 | X | 90.42597 | 105.64573 | 160.40292 | 1.51218 | 0.1656777 | 0.27102422 | 2.3648158 | 20 | 11 16.2 | 21.5 |
| 336106 2008 $HE_{70}$ | 17.4 | X | 82.97577 | 132.41456 | 123.48101 | 3.71624 | 0.2582398 | 0.26679963 | 2.3897139 | 20 | 11 4.4 | 21.3 |
| 336107 2008 $JD_{7}$ | 17.4 | X | 58.48815 | 82.10924 | 227.88122 | 6.20591 | 0.2273590 | 0.27095144 | 2.3652392 | 20 | 12 15.3 | 21.0 |
| 336108 Luberon | 17.6 | X | 82.72294 | 233.10887 | 47.90690 | 2.03782 | 0.1772661 | 0.27334489 | 2.3514121 | 20 | 11 28.2 | 21.0 |
| 336109 2008 $JN_{8}$ | 17.0 | X | 139.41815 | 95.55600 | 118.07138 | 7.97377 | 0.1186624 | 0.27452206 | 2.3446852 | 20 | 10 30.8 | 20.6 |
| 336110 2008 $JY_{20}$ | 17.0 | X | 66.87539 | 177.35373 | 97.37839 | 5.82067 | 0.2264207 | 0.26564707 | 2.3966210 | 20 | 11 10.3 | 20.6 |
| 336111 2008 $JK_{34}$ | 17.2 | X | 22.01103 | 133.25576 | 147.39827 | 8.05476 | 0.2234659 | 0.25673725 | 2.4517535 | 20 | 9 18.4 | 19.6 |
| 336112 2008 $JL_{35}$ | 16.1 | X | 130.08950 | 16.40597 | 253.07176 | 23.44815 | 0.2268329 | 0.28084974 | 2.3093337 | 20 | 12 24.7 | 20.2 |
| 336113 2008 $JC_{38}$ | 17.3 | X | 61.40213 | 181.63278 | 129.63973 | 2.06694 | 0.1905521 | 0.27170651 | 2.3608552 | 20 | 12 16.3 | 20.8 |
| 336114 2008 $KO_{1}$ | 17.4 | X | 44.09169 | 199.86484 | 134.23949 | 6.77047 | 0.1410897 | 0.27288596 | 2.3540477 | 20 | 12 21.1 | 20.5 |
| 336115 2008 $KZ_{3}$ | 17.5 | X | 62.36372 | 78.43009 | 204.81782 | 6.46781 | 0.1086775 | 0.26729187 | 2.3867791 | 20 | 11 1.2 | 20.5 |
| 336116 2008 $KB_{9}$ | 17.9 | X | 181.21264 | 10.07404 | 211.16418 | 2.99999 | 0.1243186 | 0.28433890 | 2.2904028 | 20 | 12 20.9 | 21.0 |
| 336117 2008 $LK_{15}$ | 17.7 | X | 143.69721 | 64.07936 | 215.25682 | 6.41898 | 0.1013344 | 0.28556795 | 2.2838263 | 20 | — | — |
| 336118 2008 $LT_{17}$ | 13.8 | X | 250.77632 | 129.74856 | 202.97706 | 12.85193 | 0.0510367 | 0.08317739 | 5.1975561 | 20 | 4 26.0 | 20.8 |
| 336119 2008 $NY_{1}$ | 16.6 | X | 47.12089 | 6.51673 | 307.21931 | 8.11421 | 0.1460191 | 0.26214428 | 2.4179230 | 20 | 11 24.6 | 20.0 |
| 336120 2008 $NY_{4}$ | 17.1 | X | 151.06825 | 290.78290 | 289.56332 | 7.56168 | 0.1484460 | 0.26875143 | 2.3781296 | 20 | 11 12.8 | 20.9 |
| 336121 2008 $OS_{3}$ | 16.1 | X | 21.79991 | 125.57046 | 219.80038 | 4.63814 | 0.2176776 | 0.25899998 | 2.4374529 | 20 | 12 15.5 | 19.1 |
| 336122 2008 $OA_{8}$ | 17.0 | X | 351.48711 | 188.75933 | 165.09294 | 2.63285 | 0.2126234 | 0.25463654 | 2.4652193 | 20 | 11 4.6 | 19.1 |
| 336123 2008 $OK_{10}$ | 17.0 | X | 326.16777 | 164.65107 | 229.19002 | 6.42298 | 0.2882061 | 0.25282375 | 2.4769893 | 20 | 11 9.9 | 17.9 |
| 336124 2008 $OQ_{18}$ | 17.6 | X | 26.98804 | 34.09080 | 298.09762 | 1.55911 | 0.1917262 | 0.25934510 | 2.4352900 | 20 | 11 30.8 | 20.5 |
| 336125 2008 $OL_{19}$ | 16.9 | X | 356.05517 | 4.19488 | 275.39483 | 8.21107 | 0.0972150 | 0.24129634 | 2.5552627 | 20 | 7 7.5 | 19.7 |
| 336126 2008 $OB_{24}$ | 17.0 | X | 49.86204 | 83.07977 | 155.56693 | 7.76471 | 0.1027791 | 0.24241311 | 2.5474088 | 20 | 8 8.4 | 20.2 |
| 336127 2008 $OE_{25}$ | 16.5 | X | 227.33093 | 42.34229 | 306.71296 | 10.33701 | 0.0904331 | 0.22243378 | 2.6977532 | 20 | 4 3.3 | 20.7 |
| 336128 2008 $PU_{4}$ | 17.3 | X | 7.20311 | 282.56094 | 38.32996 | 5.36888 | 0.2335183 | 0.25212161 | 2.4815860 | 20 | 10 20.2 | 19.4 |
| 336129 2008 $PD_{8}$ | 16.9 | X | 13.24924 | 15.57273 | 271.34191 | 6.95510 | 0.1364543 | 0.24739140 | 2.5131186 | 20 | 8 20.9 | 19.6 |
| 336130 2008 $PL_{8}$ | 16.4 | X | 328.88509 | 330.29895 | 292.46089 | 11.41596 | 0.0994863 | 0.23158481 | 2.6262093 | 20 | 4 19.8 | 19.9 |
| 336131 2008 $PH_{11}$ | 17.3 | X | 15.35736 | 285.54526 | 42.38328 | 1.03176 | 0.2293659 | 0.25560408 | 2.4589944 | 20 | 11 13.3 | 19.9 |
| 336132 2008 $PC_{14}$ | 16.9 | X | 358.37719 | 208.40508 | 136.27666 | 3.99686 | 0.1630274 | 0.25412055 | 2.4685553 | 20 | 10 29.4 | 19.3 |
| 336133 2008 $PT_{18}$ | 16.1 | X | 292.93024 | 305.23845 | 91.77483 | 10.43371 | 0.2580606 | 0.24465570 | 2.5318180 | 20 | 8 17.4 | 18.8 |
| 336134 2008 $PW_{20}$ | 16.5 | X | 330.14122 | 262.88981 | 43.65018 | 13.09237 | 0.2374019 | 0.24127073 | 2.5554435 | 20 | 6 13.1 | 18.8 |
| 336135 2008 $QV_{1}$ | 16.4 | X | 240.38328 | 219.63493 | 173.66959 | 13.27566 | 0.1689332 | 0.23179850 | 2.6245950 | 20 | 6 12.6 | 20.6 |
| 336136 2008 $QR_{6}$ | 17.2 | X | 346.82145 | 131.42856 | 160.65849 | 5.03622 | 0.1613232 | 0.24038063 | 2.5617480 | 20 | 7 8.0 | 19.6 |
| 336137 2008 $QY_{7}$ | 17.4 | X | 5.38732 | 207.35989 | 145.54036 | 1.89322 | 0.1865004 | 0.25583865 | 2.4574911 | 20 | 11 25.5 | 20.0 |
| 336138 2008 $QP_{9}$ | 16.9 | X | 6.73112 | 97.26892 | 162.29760 | 28.02431 | 0.2389600 | 0.23996627 | 2.5646961 | 20 | 7 8.3 | 19.7 |
| 336139 2008 $QW_{12}$ | 17.1 | X | 30.95421 | 149.91860 | 157.80718 | 2.21751 | 0.2029372 | 0.25479306 | 2.4642097 | 20 | 11 5.2 | 20.1 |
| 336140 2008 $QR_{13}$ | 17.3 | X | 295.11070 | 106.53183 | 289.24816 | 3.42200 | 0.2309986 | 0.24601985 | 2.5224503 | 20 | 8 20.0 | 19.6 |
| 336141 2008 $QM_{17}$ | 16.1 | X | 300.58659 | 281.21759 | 352.57444 | 13.50696 | 0.1855099 | 0.22396303 | 2.6854588 | 20 | 3 15.9 | 19.6 |
| 336142 2008 $QY_{18}$ | 16.2 | X | 279.18306 | 157.97882 | 179.92575 | 12.85683 | 0.1741887 | 0.23020133 | 2.6367209 | 20 | 5 16.4 | 20.0 |
| 336143 2008 $QK_{22}$ | 16.7 | X | 301.88254 | 102.59219 | 202.91666 | 11.35411 | 0.1864809 | 0.23095908 | 2.6309505 | 20 | 4 30.2 | 20.0 |
| 336144 2008 $QG_{23}$ | 16.0 | X | 161.64972 | 194.41950 | 236.87205 | 8.12778 | 0.2123228 | 0.21844303 | 2.7305109 | 20 | 5 17.9 | 20.6 |
| 336145 2008 $QA_{27}$ | 16.9 | X | 257.23747 | 318.25800 | 47.07616 | 3.56031 | 0.1973104 | 0.23200361 | 2.6230479 | 20 | 5 20.8 | 20.9 |
| 336146 2008 $QT_{31}$ | 16.3 | X | 204.00506 | 89.26980 | 325.32704 | 11.74531 | 0.2658871 | 0.22313768 | 2.6920767 | 20 | 5 28.2 | 21.3 |
| 336147 2008 $QP_{37}$ | 16.8 | X | 182.61830 | 85.37939 | 349.21898 | 11.37037 | 0.1664435 | 0.22573755 | 2.6713667 | 20 | 6 7.0 | 21.4 |
| 336148 2008 $QP_{38}$ | 16.8 | X | 307.21279 | 354.14665 | 306.08737 | 6.06366 | 0.1645776 | 0.23025591 | 2.6363042 | 20 | 4 30.9 | 20.2 |
| 336149 2008 $QA_{40}$ | 17.6 | X | 273.33886 | 55.98356 | 313.76951 | 1.80978 | 0.1906656 | 0.23570925 | 2.5954836 | 20 | 6 15.9 | 21.1 |
| 336150 2008 $QF_{44}$ | 16.4 | X | 226.67913 | 235.13929 | 164.63989 | 7.59934 | 0.1638519 | 0.22790450 | 2.6544066 | 20 | 6 7.2 | 20.7 |
| 336151 2008 $QH_{45}$ | 17.1 | X | 279.27082 | 159.26566 | 208.22893 | 7.41009 | 0.2068002 | 0.23549128 | 2.5970850 | 20 | 6 18.2 | 20.6 |
| 336152 2008 $QQ_{45}$ | 16.8 | X | 302.12144 | 196.62487 | 153.38643 | 9.45771 | 0.1762493 | 0.23868155 | 2.5738910 | 20 | 7 4.1 | 19.8 |
| 336153 2008 RH | 16.8 | X | 290.55762 | 250.37675 | 126.55429 | 7.30276 | 0.1354321 | 0.24010728 | 2.5636919 | 20 | 7 31.4 | 19.5 |
| 336154 2008 $RL_{1}$ | 16.6 | X | 46.76975 | 70.67152 | 159.21741 | 13.91497 | 0.1031329 | 0.23847397 | 2.5753844 | 20 | 7 21.2 | 19.9 |
| 336155 2008 $RO_{1}$ | 17.4 | X | 347.92626 | 252.16209 | 127.53436 | 3.34191 | 0.2055979 | 0.25760268 | 2.4462592 | 20 | 12 6.0 | 19.6 |
| 336156 2008 $RU_{4}$ | 17.2 | X | 307.22466 | 2.43092 | 288.63446 | 0.89019 | 0.0990000 | 0.22712820 | 2.6604515 | 20 | 5 1.0 | 20.3 |
| 336157 2008 $RN_{8}$ | 17.0 | X | 291.39083 | 115.16853 | 210.62170 | 4.28151 | 0.0488551 | 0.22972492 | 2.6403651 | 20 | 6 3.3 | 20.3 |
| 336158 2008 $RW_{9}$ | 16.2 | X | 322.67666 | 248.77384 | 343.12174 | 7.82110 | 0.1461906 | 0.21488163 | 2.7605981 | 20 | 2 29.1 | 19.7 |
| 336159 2008 $RL_{13}$ | 16.8 | X | 186.43805 | 104.20881 | 309.69187 | 5.14140 | 0.0435992 | 0.22413632 | 2.6840745 | 20 | 5 16.3 | 20.7 |
| 336160 2008 $RW_{14}$ | 17.2 | X | 221.09440 | 106.01879 | 338.76239 | 12.81302 | 0.1423577 | 0.23604412 | 2.5930283 | 20 | 8 3.4 | 21.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336161 2008 $RH_{16}$ | 16.6 | X | 29.39808 | 347.77441 | 264.62299 | 3.44530 | 0.1736180 | 0.23875317 | 2.5733762 | 20 | 8 5.5 | 19.3 |
| 336162 2008 $RV_{21}$ | 16.5 | X | 29.59480 | 324.94071 | 339.16094 | 9.11853 | 0.2185485 | 0.25411958 | 2.4685616 | 20 | 10 26.6 | 19.6 |
| 336163 2008 $RN_{22}$ | 16.7 | X | 357.91667 | 143.46890 | 148.90211 | 14.53461 | 0.1386024 | 0.24188885 | 2.5510883 | 20 | 7 31.8 | 19.2 |
| 336164 2008 $RE_{23}$ | 16.8 | X | 250.33235 | 34.77968 | 329.98328 | 7.41253 | 0.2453543 | 0.22613434 | 2.6682409 | 20 | 5 5.4 | 21.2 |
| 336165 2008 $RG_{24}$ | 16.4 | X | 295.75374 | 56.82831 | 289.94717 | 6.31740 | 0.1569395 | 0.23415281 | 2.6069726 | 20 | 6 22.2 | 19.4 |
| 336166 2008 $RH_{27}$ | 17.0 | X | 288.77209 | 50.30002 | 323.08917 | 8.77948 | 0.2183388 | 0.23794912 | 2.5791700 | 20 | 7 10.4 | 20.0 |
| 336167 2008 $RR_{30}$ | 16.4 | X | 275.30772 | 335.42322 | 358.86682 | 10.38205 | 0.0695189 | 0.22782515 | 2.6550229 | 20 | 5 16.4 | 20.2 |
| 336168 2008 $RM_{31}$ | 16.6 | X | 270.35686 | 128.21926 | 172.48613 | 10.34991 | 0.1322599 | 0.22195380 | 2.7016411 | 20 | 3 22.8 | 20.3 |
| 336169 2008 $RJ_{33}$ | 17.5 | X | 13.32102 | 327.35347 | 303.13105 | 2.81730 | 0.2145128 | 0.24111785 | 2.5565236 | 20 | 8 8.5 | 19.8 |
| 336170 2008 $RL_{34}$ | 16.5 | X | 69.73287 | 17.81958 | 183.86130 | 13.41526 | 0.1031127 | 0.23309558 | 2.6148494 | 20 | 7 14.2 | 20.2 |
| 336171 2008 $RO_{39}$ | 16.6 | X | 341.06554 | 271.55946 | 356.51628 | 10.97252 | 0.1763227 | 0.23117763 | 2.6292921 | 20 | 5 12.5 | 19.4 |
| 336172 2008 $RP_{42}$ | 17.0 | X | 283.06836 | 285.27570 | 28.98021 | 2.33939 | 0.0635381 | 0.22435103 | 2.6823617 | 20 | 5 4.1 | 20.4 |
| 336173 2008 $RV_{44}$ | 16.8 | X | 319.61971 | 85.86927 | 176.16323 | 12.19659 | 0.2153376 | 0.22565847 | 2.6719908 | 20 | 3 23.9 | 19.7 |
| 336174 2008 $RS_{46}$ | 17.1 | X | 282.68421 | 193.73136 | 193.38089 | 3.47109 | 0.1214655 | 0.23774803 | 2.5806242 | 20 | 8 3.3 | 20.2 |
| 336175 2008 $RK_{57}$ | 17.2 | X | 300.84362 | 147.99448 | 183.07198 | 3.41612 | 0.2075408 | 0.23493983 | 2.6011473 | 20 | 5 30.6 | 20.3 |
| 336176 2008 $RK_{66}$ | 16.8 | X | 1.16598 | 21.57535 | 19.49711 | 6.75586 | 0.1034621 | 0.26132362 | 2.4229824 | 20 | — | — |
| 336177 Churri | 16.7 | X | 325.31695 | 185.80679 | 161.64660 | 5.35333 | 0.2940812 | 0.24022070 | 2.5628849 | 20 | 8 3.0 | 18.2 |
| 336178 2008 $RJ_{87}$ | 16.1 | X | 144.75148 | 164.84018 | 257.66133 | 6.32613 | 0.0988341 | 0.21300525 | 2.7767866 | 20 | 4 12.1 | 20.3 |
| 336179 2008 $RS_{88}$ | 16.2 | X | 175.19425 | 112.25400 | 340.33351 | 11.28932 | 0.1397548 | 0.22536726 | 2.6742921 | 20 | 6 25.4 | 20.6 |
| 336180 2008 $RU_{88}$ | 16.4 | X | 210.79642 | 226.73806 | 208.63825 | 12.79604 | 0.0445518 | 0.23246512 | 2.6195751 | 20 | 7 13.1 | 20.3 |
| 336181 2008 $RN_{89}$ | 16.2 | X | 303.56619 | 47.86993 | 230.46194 | 6.28220 | 0.0828224 | 0.22062605 | 2.7124695 | 20 | 4 10.2 | 19.9 |
| 336182 2008 $RZ_{95}$ | 16.7 | X | 240.38963 | 46.76149 | 319.42962 | 8.33483 | 0.0838127 | 0.22918579 | 2.6445042 | 20 | 5 13.5 | 20.6 |
| 336183 2008 $RW_{103}$ | 16.1 | X | 9.34305 | 233.95878 | 298.85320 | 5.55401 | 0.0345372 | 0.20929204 | 2.8095337 | 20 | 3 1.1 | 19.9 |
| 336184 2008 $RN_{107}$ | 16.9 | X | 301.96429 | 132.56328 | 199.76598 | 2.38449 | 0.2544546 | 0.23194043 | 2.6235242 | 20 | 5 25.8 | 19.9 |
| 336185 2008 $RX_{112}$ | 16.4 | X | 235.81102 | 117.68324 | 238.50101 | 5.29104 | 0.0373664 | 0.22156541 | 2.7047974 | 20 | 5 2.3 | 20.0 |
| 336186 2008 $RM_{113}$ | 16.8 | X | 216.30609 | 29.29189 | 293.79994 | 3.32558 | 0.0667746 | 0.21040332 | 2.7996323 | 20 | 2 25.9 | 21.0 |
| 336187 2008 $RX_{113}$ | 16.9 | X | 146.57435 | 113.75821 | 349.96705 | 5.08007 | 0.0575261 | 0.22730747 | 2.6590525 | 20 | 6 4.5 | 20.7 |
| 336188 2008 $RE_{131}$ | 17.5 | X | 298.37209 | 97.18831 | 230.05446 | 2.07232 | 0.2313001 | 0.23205243 | 2.6226800 | 20 | 5 16.7 | 20.7 |
| 336189 2008 $RD_{132}$ | 16.3 | X | 201.22393 | 278.27262 | 114.41681 | 5.36314 | 0.1835185 | 0.22192511 | 2.7018740 | 20 | 5 5.6 | 20.8 |
| 336190 2008 $RL_{133}$ | 16.8 | X | 255.67840 | 63.25961 | 284.19669 | 11.05713 | 0.1600351 | 0.22511926 | 2.6762558 | 20 | 4 26.8 | 21.0 |
| 336191 2008 $RE_{136}$ | 16.5 | X | 240.70907 | 94.06087 | 248.12957 | 5.64601 | 0.1691380 | 0.22176421 | 2.7031807 | 20 | 4 6.0 | 20.8 |
| 336192 2008 $RS_{137}$ | 16.4 | X | 139.16774 | 182.39794 | 251.58443 | 4.23278 | 0.0500113 | 0.21581724 | 2.7526138 | 20 | 4 16.6 | 20.3 |
| 336193 2008 $RO_{138}$ | 18.1 | X | 297.73653 | 46.48034 | 356.86557 | 2.66647 | 0.2223512 | 0.24561652 | 2.5252110 | 20 | 9 9.3 | 20.2 |
| 336194 2008 $RM_{140}$ | 16.0 | X | 180.07340 | 128.49992 | 301.23542 | 10.95662 | 0.1487934 | 0.22121470 | 2.7076554 | 20 | 5 30.0 | 20.6 |
| 336195 2008 $RW_{141}$ | 16.1 | X | 139.39047 | 256.99423 | 187.65792 | 11.32504 | 0.0139980 | 0.22210317 | 2.7004297 | 20 | 4 29.9 | 19.8 |
| 336196 2008 $RY_{144}$ | 16.6 | X | 2.54684 | 52.80406 | 236.37871 | 3.16220 | 0.0749660 | 0.24042586 | 2.5614267 | 20 | 7 31.5 | 19.4 |
| 336197 2008 $RV_{145}$ | 16.9 | X | 155.71503 | 73.67658 | 26.40158 | 3.72174 | 0.1961740 | 0.22283561 | 2.6945091 | 20 | 6 16.8 | 21.4 |
| 336198 2008 $SR_{2}$ | 15.8 | X | 297.80309 | 257.82638 | 78.51459 | 13.38574 | 0.2016541 | 0.23314040 | 2.6145143 | 20 | 6 3.2 | 18.8 |
| 336199 2008 $SG_{3}$ | 16.6 | X | 310.70292 | 174.75165 | 163.13126 | 11.93464 | 0.0504359 | 0.23624034 | 2.5915923 | 20 | 7 17.5 | 20.0 |
| 336200 2008 $SQ_{3}$ | 16.7 | X | 220.85406 | 358.06530 | 35.44918 | 5.17934 | 0.2505698 | 0.22476529 | 2.6790648 | 20 | 5 17.6 | 21.3 |
| 336201 2008 $SU_{3}$ | 15.7 | X | 215.86868 | 182.68277 | 166.20933 | 14.33916 | 0.0410591 | 0.21621506 | 2.7492364 | 20 | 4 1.5 | 19.7 |
| 336202 2008 $SE_{5}$ | 16.8 | X | 240.48956 | 257.22611 | 127.49940 | 4.13996 | 0.1831838 | 0.22779018 | 2.6552946 | 20 | 5 30.8 | 21.0 |
| 336203 Sandrobuss | 17.1 | X | 271.50965 | 244.89751 | 100.86424 | 3.26895 | 0.2173998 | 0.22853930 | 2.6494890 | 20 | 5 9.9 | 21.0 |
| 336204 Sardinas | 17.3 | X | 314.41597 | 321.10283 | 6.93857 | 3.18155 | 0.2448366 | 0.23785895 | 2.5798219 | 20 | 6 12.2 | 19.7 |
| 336205 2008 $SX_{18}$ | 16.8 | X | 185.40807 | 229.70951 | 216.80371 | 5.22178 | 0.1434447 | 0.22650215 | 2.6653515 | 20 | 6 26.3 | 21.1 |
| 336206 2008 $SP_{29}$ | 16.2 | X | 216.63343 | 233.14267 | 200.68061 | 9.77888 | 0.1330425 | 0.23078528 | 2.6322713 | 20 | 7 10.8 | 20.3 |
| 336207 2008 $SA_{31}$ | 16.8 | X | 359.20091 | 307.93780 | 305.59661 | 7.26797 | 0.1157945 | 0.22826010 | 2.6516491 | 20 | 6 3.4 | 19.7 |
| 336208 2008 $SP_{31}$ | 16.8 | X | 210.40273 | 123.26744 | 296.79354 | 4.86936 | 0.1263642 | 0.22673518 | 2.6635250 | 20 | 6 18.5 | 21.0 |
| 336209 2008 $SJ_{32}$ | 16.5 | X | 291.18503 | 33.59935 | 220.52484 | 11.39356 | 0.1533171 | 0.21388241 | 2.7691894 | 20 | 2 10.6 | 20.8 |
| 336210 2008 $SB_{44}$ | 17.0 | X | 300.11245 | 91.74455 | 201.76745 | 4.20917 | 0.1611671 | 0.22329803 | 2.6907878 | 20 | 4 14.9 | 20.3 |
| 336211 2008 $SH_{44}$ | 16.8 | X | 296.79067 | 139.53092 | 196.52224 | 10.66690 | 0.2595354 | 0.23284050 | 2.6167588 | 20 | 5 23.2 | 20.1 |
| 336212 2008 $SN_{45}$ | 16.9 | X | 19.70497 | 333.99138 | 28.06026 | 2.53369 | 0.0547344 | 0.25461120 | 2.4653829 | 20 | 12 8.1 | 19.8 |
| 336213 2008 $SC_{46}$ | 16.8 | X | 71.71874 | 101.21114 | 42.51391 | 4.14858 | 0.0329043 | 0.21386209 | 2.7693648 | 20 | 4 20.5 | 20.5 |
| 336214 2008 $SR_{49}$ | 17.7 | X | 297.75000 | 324.18061 | 349.76615 | 3.79022 | 0.0801306 | 0.22841655 | 2.6504381 | 20 | 5 20.8 | 21.2 |
| 336215 2008 $SS_{50}$ | 17.7 | X | 345.48884 | 97.92473 | 184.09035 | 12.56802 | 0.2555444 | 0.23691176 | 2.5866935 | 20 | 6 13.8 | 19.9 |
| 336216 2008 $SE_{55}$ | 17.3 | X | 286.05168 | 156.49474 | 174.34882 | 2.69637 | 0.1189078 | 0.22788435 | 2.6545631 | 20 | 5 22.9 | 20.6 |
| 336217 2008 $SP_{55}$ | 16.8 | X | 289.78734 | 247.23530 | 17.25351 | 2.62667 | 0.1662341 | 0.21509488 | 2.7587732 | 20 | 2 25.2 | 20.6 |
| 336218 2008 $SH_{56}$ | 16.4 | X | 13.62114 | 0.28785 | 185.98874 | 9.95354 | 0.0485727 | 0.21196400 | 2.7858730 | 20 | 3 26.5 | 19.9 |
| 336219 2008 $SK_{56}$ | 16.8 | X | 244.27818 | 298.60984 | 35.43711 | 1.53514 | 0.1002136 | 0.21826934 | 2.7319593 | 20 | 4 8.2 | 20.8 |
| 336220 2008 $SR_{58}$ | 16.5 | X | 249.39527 | 356.34654 | 40.71922 | 5.39006 | 0.0730742 | 0.22997294 | 2.6384663 | 20 | 7 10.4 | 20.1 |
| 336221 2008 $SJ_{63}$ | 17.3 | X | 252.32525 | 93.80215 | 322.13230 | 3.73567 | 0.2681127 | 0.23404786 | 2.6077519 | 20 | 7 12.8 | 21.1 |
| 336222 2008 $SZ_{64}$ | 17.3 | X | 211.46848 | 328.41595 | 149.92357 | 5.09550 | 0.1073158 | 0.24373013 | 2.5382237 | 20 | 9 7.6 | 21.0 |
| 336223 2008 $SC_{72}$ | 16.6 | X | 235.87204 | 67.91665 | 311.85187 | 11.78102 | 0.1957228 | 0.22613781 | 2.6682136 | 20 | 5 14.8 | 21.1 |
| 336224 2008 $SZ_{73}$ | 17.0 | X | 236.83527 | 202.64862 | 212.55038 | 3.49546 | 0.1250281 | 0.23203839 | 2.6227857 | 20 | 7 10.9 | 20.7 |
| 336225 2008 $SA_{78}$ | 16.8 | X | 272.98062 | 300.67329 | 349.03658 | 4.55124 | 0.0925165 | 0.21751372 | 2.7382827 | 20 | 3 16.4 | 20.6 |
| 336226 2008 $SE_{81}$ | 16.8 | X | 308.26788 | 255.73874 | 74.04426 | 6.01185 | 0.2654548 | 0.23450180 | 2.6043854 | 20 | 5 30.6 | 19.7 |
| 336227 2008 $SJ_{81}$ | 16.2 | X | 145.14484 | 312.80527 | 161.24502 | 9.62408 | 0.1561769 | 0.21939129 | 2.7226373 | 20 | 6 23.3 | 20.7 |
| 336228 2008 $SU_{81}$ | 16.7 | X | 283.36611 | 82.57801 | 315.14002 | 11.62296 | 0.2554194 | 0.23816955 | 2.5775785 | 20 | 7 29.9 | 19.9 |
| 336229 2008 $SF_{84}$ | 16.7 | X | 170.10227 | 213.06981 | 201.77560 | 7.86432 | 0.2202741 | 0.21347885 | 2.7726783 | 20 | 5 5.9 | 21.4 |
| 336230 2008 $SS_{88}$ | 16.7 | X | 218.48575 | 243.48108 | 163.26116 | 5.21245 | 0.1440109 | 0.22387726 | 2.6861446 | 20 | 6 8.9 | 21.0 |
| 336231 2008 $SZ_{90}$ | 16.7 | X | 213.70736 | 167.14993 | 253.63654 | 1.91769 | 0.0971792 | 0.22740798 | 2.6582689 | 20 | 6 25.1 | 20.6 |
| 336232 2008 $SM_{95}$ | 16.1 | X | 27.30978 | 296.25901 | 210.72379 | 14.40890 | 0.1023462 | 0.20212715 | 2.8755413 | 20 | 2 21.7 | 19.8 |
| 336233 2008 $SF_{98}$ | 17.3 | X | 286.39764 | 4.67245 | 348.70014 | 2.33003 | 0.0869370 | 0.23069015 | 2.6329949 | 20 | 6 28.5 | 20.7 |
| 336234 2008 $SJ_{99}$ | 16.3 | X | 265.39633 | 165.08868 | 139.90639 | 4.00211 | 0.0723341 | 0.21436912 | 2.7649963 | 20 | 3 31.5 | 20.3 |
| 336235 2008 $SP_{100}$ | 17.1 | X | 153.20828 | 300.08533 | 170.68859 | 8.39723 | 0.0552650 | 0.22380654 | 2.6867105 | 20 | 6 22.5 | 21.1 |
| 336236 2008 $SQ_{104}$ | 16.2 | X | 224.38517 | 24.56342 | 23.85636 | 13.16626 | 0.1322733 | 0.22512373 | 2.6762203 | 20 | 6 16.3 | 20.5 |
| 336237 2008 $SJ_{106}$ | 16.3 | X | 85.62810 | 103.58284 | 53.09188 | 3.25019 | 0.0071865 | 0.21902511 | 2.7256711 | 20 | 5 21.9 | 19.7 |
| 336238 2008 $SV_{107}$ | 16.6 | X | 345.76025 | 323.84671 | 285.81041 | 4.46244 | 0.0805004 | 0.22310214 | 2.6923626 | 20 | 5 5.5 | 19.8 |
| 336239 2008 $SD_{110}$ | 17.2 | X | 248.32752 | 227.03997 | 142.52761 | 3.30594 | 0.0910847 | 0.22617396 | 2.6679293 | 20 | 5 30.2 | 21.1 |
| 336240 2008 $SF_{112}$ | 17.1 | X | 219.09653 | 281.61346 | 145.29504 | 4.60505 | 0.1679247 | 0.22837282 | 2.6507765 | 20 | 7 2.9 | 21.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336241 2008 $SK_{112}$ | 16.9 | X | 319.56557 | 174.12342 | 144.21985 | 4.04466 | 0.1985826 | 0.23442495 | 2.6049546 | 20 | 6 16.2 | 19.5 |
| 336242 2008 $SL_{112}$ | 17.4 | X | 243.19959 | 271.46496 | 116.16365 | 3.44528 | 0.0891070 | 0.22779083 | 2.6552896 | 20 | 6 16.8 | 21.2 |
| 336243 2008 $SB_{116}$ | 17.5 | X | 261.32782 | 278.19531 | 101.34129 | 4.08738 | 0.1597500 | 0.23049619 | 2.6344718 | 20 | 6 18.6 | 21.2 |
| 336244 2008 $SD_{116}$ | 17.2 | X | 315.03974 | 140.75619 | 166.38248 | 8.51106 | 0.1240570 | 0.22923786 | 2.6441037 | 20 | 6 3.3 | 20.4 |
| 336245 2008 $ST_{117}$ | 17.0 | X | 281.55750 | 350.54039 | 10.38972 | 4.65290 | 0.1660709 | 0.23151254 | 2.6267558 | 20 | 6 18.7 | 20.5 |
| 336246 2008 $SV_{119}$ | 17.1 | X | 294.35185 | 313.38606 | 23.30267 | 5.14352 | 0.2865201 | 0.23240710 | 2.6200110 | 20 | 5 13.7 | 20.4 |
| 336247 2008 $SH_{123}$ | 16.0 | X | 306.98879 | 125.39582 | 205.18714 | 14.34295 | 0.0977797 | 0.23022704 | 2.6365246 | 20 | 6 24.7 | 19.5 |
| 336248 2008 $SH_{124}$ | 16.3 | X | 234.53493 | 330.15602 | 7.45348 | 5.76094 | 0.0689853 | 0.21463323 | 2.7627277 | 20 | 4 4.2 | 20.2 |
| 336249 2008 $SX_{126}$ | 16.8 | X | 247.15317 | 97.95948 | 270.02594 | 1.10707 | 0.2039975 | 0.22522916 | 2.6753851 | 20 | 5 13.1 | 20.8 |
| 336250 2008 $SM_{129}$ | 17.0 | X | 256.39397 | 72.87669 | 240.46469 | 3.94272 | 0.1614722 | 0.21565842 | 2.7539651 | 20 | 3 18.3 | 21.3 |
| 336251 2008 $SG_{130}$ | 16.6 | X | 211.54346 | 74.36096 | 344.33942 | 2.43505 | 0.0793070 | 0.22483719 | 2.6784936 | 20 | 6 21.3 | 20.4 |
| 336252 2008 $SF_{133}$ | 16.7 | X | 296.41347 | 130.41665 | 207.66531 | 11.30061 | 0.3016325 | 0.23256609 | 2.6188168 | 20 | 5 18.1 | 20.1 |
| 336253 2008 $SW_{137}$ | 15.8 | X | 320.02209 | 288.80402 | 30.99185 | 15.24362 | 0.1471854 | 0.23178317 | 2.6247108 | 20 | 6 25.8 | 19.0 |
| 336254 2008 $SC_{143}$ | 16.9 | X | 199.51384 | 177.96395 | 193.45823 | 5.46553 | 0.0546757 | 0.21118914 | 2.7926831 | 20 | 4 8.9 | 21.0 |
| 336255 2008 $SW_{147}$ | 16.2 | X | 223.75172 | 269.09585 | 167.02424 | 10.96682 | 0.2413351 | 0.22795243 | 2.6540345 | 20 | 7 12.3 | 20.7 |
| 336256 2008 $ST_{149}$ | 17.0 | X | 252.71914 | 136.79697 | 278.90631 | 3.66796 | 0.1714708 | 0.23555193 | 2.5966392 | 20 | 7 24.8 | 20.6 |
| 336257 2008 $SX_{149}$ | 16.2 | X | 340.62572 | 312.41047 | 345.31144 | 11.36622 | 0.0597054 | 0.23305883 | 2.6151243 | 20 | 7 10.4 | 19.5 |
| 336258 2008 $SU_{155}$ | 15.9 | X | 312.83815 | 253.02132 | 32.34793 | 13.20684 | 0.2800464 | 0.22805916 | 2.6532064 | 20 | 4 5.5 | 19.0 |
| 336259 2008 $SK_{163}$ | 16.8 | X | 306.33684 | 165.22710 | 168.99509 | 6.17807 | 0.1909136 | 0.23510284 | 2.5999448 | 20 | 6 16.3 | 19.8 |
| 336260 2008 $SE_{165}$ | 16.4 | X | 329.12970 | 142.22501 | 187.17054 | 11.47232 | 0.2641728 | 0.23970734 | 2.5665427 | 20 | 7 15.5 | 18.6 |
| 336261 2008 $SC_{166}$ | 17.0 | X | 272.64504 | 291.21773 | 72.56825 | 2.99137 | 0.1388910 | 0.23150319 | 2.6268265 | 20 | 6 14.8 | 20.4 |
| 336262 2008 $SD_{167}$ | 16.7 | X | 271.80627 | 213.81399 | 188.23080 | 11.85342 | 0.1889085 | 0.23594843 | 2.5937293 | 20 | 7 26.1 | 20.3 |
| 336263 2008 $SV_{167}$ | 17.1 | X | 277.56574 | 183.91001 | 185.52082 | 4.48044 | 0.2977209 | 0.23224141 | 2.6212570 | 20 | 6 5.5 | 20.8 |
| 336264 2008 $SY_{167}$ | 16.9 | X | 250.63333 | 228.27577 | 148.39595 | 3.17904 | 0.1184033 | 0.22684735 | 2.6626469 | 20 | 6 7.7 | 20.7 |
| 336265 2008 $SS_{173}$ | 16.7 | X | 209.33989 | 333.06507 | 358.73216 | 5.20783 | 0.1259792 | 0.20860483 | 2.8157006 | 20 | 3 1.1 | 21.2 |
| 336266 2008 $SK_{174}$ | 16.0 | X | 198.84433 | 116.35609 | 327.59275 | 11.62250 | 0.1309721 | 0.22938309 | 2.6429875 | 20 | 7 9.3 | 20.3 |
| 336267 2008 $SO_{176}$ | 16.4 | X | 304.83862 | 151.24763 | 184.17960 | 13.49936 | 0.1096510 | 0.23311960 | 2.6146699 | 20 | 6 27.2 | 19.9 |
| 336268 2008 $SL_{179}$ | 16.2 | X | 288.19571 | 306.80643 | 352.07949 | 13.04505 | 0.1695390 | 0.22476022 | 2.6791051 | 20 | 4 1.3 | 19.9 |
| 336269 2008 $SP_{191}$ | 16.6 | X | 298.90823 | 200.12187 | 58.08774 | 5.25651 | 0.0203868 | 0.21017727 | 2.8016393 | 20 | 3 22.8 | 20.4 |
| 336270 2008 $SV_{192}$ | 16.9 | X | 318.48822 | 123.41623 | 184.05346 | 11.72879 | 0.1729326 | 0.23063096 | 2.6334453 | 20 | 6 2.7 | 20.0 |
| 336271 2008 $SD_{200}$ | 17.1 | X | 285.39499 | 97.12878 | 241.03236 | 5.13633 | 0.0702808 | 0.22574124 | 2.6713376 | 20 | 6 8.2 | 20.6 |
| 336272 2008 $SX_{201}$ | 16.8 | X | 272.79980 | 7.18631 | 335.19242 | 1.17210 | 0.0881001 | 0.22398993 | 2.6852438 | 20 | 5 24.4 | 20.3 |
| 336273 2008 $SF_{218}$ | 15.8 | X | 309.11241 | 30.93596 | 316.90884 | 8.71273 | 0.2293451 | 0.23483436 | 2.6019261 | 20 | 7 6.4 | 18.5 |
| 336274 2008 $SG_{224}$ | 16.8 | X | 242.50007 | 154.96028 | 235.31539 | 2.33871 | 0.1327679 | 0.22674749 | 2.6634286 | 20 | 6 13.9 | 20.6 |
| 336275 2008 $SO_{239}$ | 16.8 | X | 264.43707 | 346.28148 | 34.17376 | 4.59631 | 0.0595828 | 0.23347610 | 2.6120076 | 20 | 7 10.0 | 20.2 |
| 336276 2008 $SB_{240}$ | 16.6 | X | 234.60492 | 277.75545 | 82.54926 | 4.93183 | 0.1582221 | 0.22043893 | 2.7140042 | 20 | 4 27.3 | 20.8 |
| 336277 2008 $SW_{241}$ | 16.2 | X | 297.44283 | 180.19237 | 75.81899 | 4.70749 | 0.0440407 | 0.21301129 | 2.7767341 | 20 | 3 14.4 | 19.9 |
| 336278 2008 $SL_{245}$ | 16.7 | X | 212.34324 | 252.95315 | 174.38373 | 12.49252 | 0.1892463 | 0.22647697 | 2.6655491 | 20 | 6 25.5 | 21.3 |
| 336279 2008 $SR_{245}$ | 16.8 | X | 280.87833 | 290.12321 | 83.53976 | 4.11466 | 0.1734750 | 0.23391514 | 2.6087382 | 20 | 7 4.8 | 20.0 |
| 336280 2008 $SC_{249}$ | 15.8 | X | 241.91338 | 191.18915 | 150.41587 | 14.95780 | 0.2056754 | 0.21995689 | 2.7179680 | 20 | 4 9.9 | 20.4 |
| 336281 2008 $SA_{250}$ | 16.7 | X | 230.26049 | 274.70879 | 158.29181 | 8.95904 | 0.1151009 | 0.23305682 | 2.6151394 | 20 | 7 27.7 | 20.6 |
| 336282 2008 $SH_{250}$ | 17.3 | X | 257.56077 | 127.78885 | 216.77770 | 7.51149 | 0.1811788 | 0.22306398 | 2.6926697 | 20 | 4 26.7 | 21.3 |
| 336283 2008 $SK_{250}$ | 17.1 | X | 297.41153 | 160.70697 | 114.53782 | 1.78932 | 0.0277048 | 0.21311055 | 2.7758719 | 20 | 4 8.9 | 20.9 |
| 336284 2008 $SC_{253}$ | 16.8 | X | 248.00576 | 136.41192 | 232.31442 | 3.30947 | 0.0883581 | 0.22486046 | 2.6783089 | 20 | 5 28.5 | 20.6 |
| 336285 2008 $SL_{253}$ | 16.6 | X | 64.44782 | 327.39304 | 208.08113 | 8.77423 | 0.0752298 | 0.21560802 | 2.7543942 | 20 | 5 29.4 | 20.2 |
| 336286 2008 $SD_{271}$ | 17.1 | X | 218.41717 | 115.47435 | 248.68034 | 5.87469 | 0.0587620 | 0.21384041 | 2.7695521 | 20 | 4 19.2 | 21.2 |
| 336287 2008 $SK_{272}$ | 16.4 | X | 325.20921 | 340.63021 | 223.02958 | 11.87613 | 0.0547105 | 0.20086558 | 2.8875689 | 20 | 2 6.3 | 20.5 |
| 336288 2008 $SQ_{280}$ | 16.4 | X | 274.02219 | 45.52466 | 306.59568 | 9.64377 | 0.1171314 | 0.22976462 | 2.6400609 | 20 | 6 3.3 | 20.0 |
| 336289 2008 $SB_{282}$ | 16.4 | X | 276.19376 | 259.27295 | 157.05516 | 8.91654 | 0.1556317 | 0.23875854 | 2.5733377 | 20 | 8 30.5 | 19.2 |
| 336290 2008 $SQ_{285}$ | 16.5 | X | 266.64805 | 53.88761 | 305.16914 | 3.09120 | 0.1146551 | 0.22766774 | 2.6562466 | 20 | 6 3.8 | 20.1 |
| 336291 2008 $SL_{289}$ | 16.9 | X | 171.21881 | 240.43587 | 162.70787 | 4.69705 | 0.0769338 | 0.21483574 | 2.7609913 | 20 | 4 18.8 | 21.0 |
| 336292 2008 $SV_{289}$ | 16.4 | X | 256.65787 | 202.63673 | 182.67747 | 13.37387 | 0.1997064 | 0.22891929 | 2.6465562 | 20 | 6 15.7 | 20.6 |
| 336293 2008 $SW_{289}$ | 16.4 | X | 280.82301 | 118.67043 | 203.71105 | 11.29509 | 0.1768061 | 0.22093157 | 2.7099682 | 20 | 4 26.1 | 20.1 |
| 336294 2008 $SB_{295}$ | 15.9 | X | 168.79431 | 150.90556 | 306.36052 | 14.02782 | 0.1021438 | 0.22581370 | 2.6707661 | 20 | 6 25.1 | 20.1 |
| 336295 2008 $SS_{298}$ | 16.7 | X | 258.48494 | 247.58858 | 171.77358 | 12.14320 | 0.1712869 | 0.23720131 | 2.5845880 | 20 | 8 4.6 | 20.4 |
| 336296 2008 $SH_{299}$ | 17.0 | X | 241.91575 | 155.16554 | 210.05441 | 5.70966 | 0.0384369 | 0.21815361 | 2.7329255 | 20 | 5 23.1 | 20.7 |
| 336297 2008 $SH_{301}$ | 16.7 | X | 285.36758 | 243.00979 | 125.52986 | 5.20024 | 0.1608963 | 0.23492688 | 2.6012429 | 20 | 7 6.1 | 19.9 |
| 336298 2008 $SB_{302}$ | 16.5 | X | 295.33851 | 267.37249 | 74.97835 | 5.76922 | 0.0511336 | 0.22986406 | 2.6392994 | 20 | 7 1.6 | 19.7 |
| 336299 2008 $SM_{308}$ | 16.2 | X | 167.04089 | 132.60616 | 321.01609 | 10.77480 | 0.1524622 | 0.22241972 | 2.6978669 | 20 | 6 18.4 | 20.7 |
| 336300 2008 $SK_{309}$ | 16.4 | X | 11.84472 | 271.20340 | 231.84322 | 8.93651 | 0.0112896 | 0.19355454 | 2.9598325 | 20 | 1 29.1 | 20.7 |
| 336301 2008 $TV_{1}$ | 17.0 | X | 333.02378 | 169.97436 | 125.83374 | 6.28768 | 0.2325883 | 0.23412144 | 2.6072055 | 20 | 6 6.2 | 19.3 |
| 336302 2008 $TZ_{2}$ | 16.4 | X | 325.02711 | 272.50709 | 0.29843 | 13.83641 | 0.1822397 | 0.22707441 | 2.6608716 | 20 | 4 16.9 | 19.5 |
| 336303 2008 $TG_{3}$ | 15.9 | X | 82.04053 | 325.76249 | 101.79992 | 10.87136 | 0.1409972 | 0.19698622 | 2.9253567 | 20 | 2 15.8 | 19.7 |
| 336304 2008 $TW_{3}$ | 16.7 | X | 264.51613 | 118.61353 | 297.84298 | 10.29447 | 0.2001080 | 0.23584091 | 2.5945176 | 20 | 8 4.7 | 20.2 |
| 336305 2008 $TR_{5}$ | 17.2 | X | 273.49028 | 207.45026 | 194.97342 | 3.84339 | 0.2392608 | 0.23667917 | 2.5883879 | 20 | 7 22.7 | 20.5 |
| 336306 2008 $TF_{6}$ | 16.3 | X | 232.02877 | 317.86584 | 24.18957 | 8.85107 | 0.1550243 | 0.21690029 | 2.7434431 | 20 | 4 2.1 | 20.5 |
| 336307 2008 $TR_{14}$ | 16.9 | X | 97.07655 | 184.06384 | 344.14825 | 3.23627 | 0.0416875 | 0.22851069 | 2.6497102 | 20 | 6 27.9 | 20.5 |
| 336308 2008 $TO_{24}$ | 16.4 | X | 120.48748 | 75.22531 | 0.59734 | 4.14419 | 0.0422864 | 0.21052426 | 2.7985600 | 20 | 3 27.6 | 20.3 |
| 336309 2008 $TX_{27}$ | 16.8 | X | 137.01049 | 173.75093 | 335.36267 | 9.31409 | 0.1384936 | 0.23556663 | 2.5965311 | 20 | 7 31.8 | 20.8 |
| 336310 2008 $TM_{31}$ | 16.6 | X | 217.17082 | 263.53675 | 49.03668 | 2.67577 | 0.0573795 | 0.20458774 | 2.8524386 | 20 | 2 17.3 | 20.8 |
| 336311 2008 $TU_{38}$ | 16.2 | X | 171.25489 | 49.33512 | 358.23646 | 4.38497 | 0.1326996 | 0.21291374 | 2.7775822 | 20 | 4 23.6 | 20.6 |
| 336312 2008 $TL_{39}$ | 17.1 | X | 338.32974 | 48.61453 | 241.05283 | 1.76264 | 0.0407325 | 0.22601318 | 2.6691944 | 20 | 6 23.1 | 20.3 |
| 336313 2008 $TO_{41}$ | 16.2 | X | 188.97033 | 103.61283 | 344.42172 | 12.33790 | 0.2424340 | 0.22338253 | 2.6901092 | 20 | 7 1.0 | 21.1 |
| 336314 2008 $TC_{45}$ | 16.3 | X | 201.26887 | 337.48599 | 27.64471 | 4.04820 | 0.1772594 | 0.21207583 | 2.7848935 | 20 | 4 1.3 | 20.8 |
| 336315 2008 $TL_{48}$ | 17.3 | X | 9.77287 | 279.84576 | 4.42428 | 7.03192 | 0.1896771 | 0.24506100 | 2.5290257 | 20 | 8 22.9 | 19.6 |
| 336316 2008 $TF_{51}$ | 17.0 | X | 235.26802 | 218.27647 | 180.35863 | 5.03540 | 0.1131046 | 0.22802351 | 2.6534829 | 20 | 6 19.0 | 21.0 |
| 336317 2008 $TD_{59}$ | 16.8 | X | 98.91099 | 76.21173 | 51.94095 | 3.16723 | 0.0445795 | 0.21605149 | 2.7506238 | 20 | 5 7.5 | 20.5 |
| 336318 2008 $TQ_{62}$ | 16.8 | X | 292.42055 | 136.89293 | 211.99260 | 2.49194 | 0.1608703 | 0.23204217 | 2.6227573 | 20 | 6 19.0 | 20.1 |
| 336319 2008 $TL_{63}$ | 17.2 | X | 263.67995 | 346.01859 | 23.95572 | 1.52056 | 0.1385535 | 0.22860297 | 2.6489970 | 20 | 6 11.5 | 20.7 |
| 336320 2008 $TK_{66}$ | 16.5 | X | 167.46990 | 281.90519 | 75.65386 | 3.11006 | 0.0826354 | 0.20257014 | 2.8713475 | 20 | 2 19.9 | 20.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336321 2008 $TC_{69}$ | 16.9 | X | 286.77489 | 295.91356 | 67.07239 | 3.70712 | 0.1330707 | 0.23210999 | 2.6222464 | 20 | 7 5.3 | 20.1 |
| 336322 2008 $TJ_{69}$ | 17.1 | X | 303.85143 | 290.91709 | 37.31244 | 11.92869 | 0.2059769 | 0.23132274 | 2.6281924 | 20 | 5 28.8 | 20.3 |
| 336323 2008 $TO_{70}$ | 16.4 | X | 316.79759 | 157.11544 | 83.04275 | 4.86052 | 0.0403731 | 0.20896895 | 2.8124288 | 20 | 3 20.5 | 20.2 |
| 336324 2008 $TB_{72}$ | 17.0 | X | 205.58999 | 284.53520 | 90.45403 | 4.81872 | 0.1244064 | 0.21478311 | 2.7614423 | 20 | 4 19.7 | 21.4 |
| 336325 2008 $TO_{72}$ | 16.7 | X | 197.48738 | 32.33350 | 350.87198 | 2.93020 | 0.1042482 | 0.21401531 | 2.7680429 | 20 | 4 19.3 | 21.0 |
| 336326 2008 $TE_{75}$ | 16.9 | X | 185.33133 | 238.48182 | 207.52879 | 1.06198 | 0.0379650 | 0.22382094 | 2.6865953 | 20 | 6 28.3 | 20.7 |
| 336327 2008 $TZ_{78}$ | 17.5 | X | 301.75354 | 127.41753 | 176.26622 | 3.87397 | 0.2381835 | 0.22937193 | 2.6430732 | 20 | 4 19.0 | 20.9 |
| 336328 2008 $TC_{81}$ | 17.3 | X | 300.27570 | 108.74519 | 191.46505 | 12.16911 | 0.2617478 | 0.22895608 | 2.6462727 | 20 | 4 8.3 | 20.8 |
| 336329 2008 $TR_{86}$ | 16.9 | X | 200.33739 | 260.14549 | 199.42893 | 11.30632 | 0.1298875 | 0.23300994 | 2.6154902 | 20 | 7 26.3 | 21.2 |
| 336330 2008 $TT_{86}$ | 16.8 | X | 255.43887 | 122.81370 | 228.40064 | 5.32113 | 0.0594430 | 0.22270274 | 2.6955807 | 20 | 5 18.4 | 20.5 |
| 336331 2008 $TX_{86}$ | 17.1 | X | 308.09992 | 54.89271 | 213.31800 | 13.16678 | 0.1179221 | 0.21744266 | 2.7388792 | 20 | 3 28.2 | 20.8 |
| 336332 2008 $TB_{87}$ | 16.8 | X | 307.30376 | 77.14590 | 215.19881 | 6.42992 | 0.2333856 | 0.22691919 | 2.6620849 | 20 | 4 10.9 | 20.2 |
| 336333 2008 $TT_{87}$ | 16.7 | X | 184.08753 | 311.00906 | 89.46070 | 4.09052 | 0.0967098 | 0.21536689 | 2.7564498 | 20 | 4 29.5 | 21.0 |
| 336334 2008 $TG_{92}$ | 16.6 | X | 163.73950 | 158.35652 | 257.85598 | 9.97322 | 0.2104820 | 0.21202146 | 2.7853697 | 20 | 4 29.3 | 21.5 |
| 336335 2008 $TU_{92}$ | 17.2 | X | 328.77311 | 140.67729 | 164.68736 | 2.11812 | 0.2043641 | 0.23549675 | 2.5970447 | 20 | 6 14.7 | 19.5 |
| 336336 2008 $TF_{93}$ | 17.1 | X | 254.36678 | 273.43841 | 63.16727 | 2.75364 | 0.0986223 | 0.22170045 | 2.7036989 | 20 | 4 23.4 | 20.8 |
| 336337 2008 $TG_{93}$ | 17.1 | X | 330.98279 | 272.50342 | 30.17394 | 7.64400 | 0.2115426 | 0.23521275 | 2.5991348 | 20 | 6 13.4 | 19.5 |
| 336338 2008 $TJ_{102}$ | 17.1 | X | 197.75063 | 235.81509 | 184.37838 | 2.48386 | 0.0816600 | 0.22370122 | 2.6875536 | 20 | 6 7.6 | 21.1 |
| 336339 2008 $TA_{105}$ | 16.0 | X | 343.92798 | 173.12832 | 2.00390 | 4.08831 | 0.1435335 | 0.19779481 | 2.9173785 | 20 | 1 22.7 | 19.4 |
| 336340 2008 $TG_{110}$ | 16.1 | X | 155.69838 | 152.14278 | 320.99338 | 12.62552 | 0.1115580 | 0.22559488 | 2.6724929 | 20 | 7 2.6 | 20.3 |
| 336341 2008 $TX_{113}$ | 15.8 | X | 234.80817 | 278.45831 | 43.55321 | 9.61731 | 0.1506521 | 0.21266805 | 2.7797211 | 20 | 3 15.3 | 20.3 |
| 336342 2008 $TA_{115}$ | 16.0 | X | 187.23521 | 250.36586 | 119.36509 | 7.25052 | 0.0287111 | 0.21020815 | 2.8013649 | 20 | 3 26.7 | 20.0 |
| 336343 2008 $TK_{116}$ | 16.4 | X | 213.16199 | 149.20854 | 254.01867 | 5.15875 | 0.0557391 | 0.22233140 | 2.6985814 | 20 | 6 4.4 | 20.2 |
| 336344 2008 $TY_{117}$ | 16.9 | X | 303.27535 | 105.51140 | 228.68102 | 4.10160 | 0.3027083 | 0.23320929 | 2.6139994 | 20 | 5 21.8 | 19.7 |
| 336345 2008 $TK_{119}$ | 16.4 | X | 70.52881 | 298.55509 | 214.61637 | 2.61105 | 0.1307218 | 0.21655761 | 2.7463365 | 20 | 5 15.9 | 19.8 |
| 336346 2008 $TZ_{119}$ | 17.0 | X | 261.90298 | 95.03174 | 281.80468 | 2.68901 | 0.0806559 | 0.22988463 | 2.6391420 | 20 | 6 27.4 | 20.6 |
| 336347 2008 $TH_{123}$ | 16.9 | X | 75.32377 | 329.28737 | 173.24175 | 4.46542 | 0.1356369 | 0.20864928 | 2.8153007 | 20 | 5 10.3 | 20.6 |
| 336348 2008 $TZ_{123}$ | 16.7 | X | 294.53087 | 30.75915 | 252.79671 | 4.02428 | 0.0890523 | 0.21926504 | 2.7236824 | 20 | 4 3.5 | 20.3 |
| 336349 2008 $TF_{126}$ | 16.5 | X | 184.42104 | 209.79637 | 221.14583 | 10.32845 | 0.0957998 | 0.22310434 | 2.6923450 | 20 | 6 6.5 | 20.6 |
| 336350 2008 $TA_{128}$ | 16.9 | X | 166.72373 | 106.82167 | 329.12070 | 5.56818 | 0.0574621 | 0.22049426 | 2.7135502 | 20 | 5 22.1 | 20.9 |
| 336351 2008 $TR_{128}$ | 16.6 | X | 278.01397 | 260.23625 | 49.53900 | 2.74659 | 0.0657975 | 0.22147550 | 2.7055294 | 20 | 4 21.9 | 20.0 |
| 336352 2008 $TA_{130}$ | 16.1 | X | 278.13430 | 264.02487 | 11.44056 | 11.17127 | 0.2012449 | 0.21397204 | 2.7684161 | 20 | 2 24.9 | 20.3 |
| 336353 2008 $TF_{160}$ | 16.5 | X | 40.19700 | 185.00863 | 44.08308 | 5.12746 | 0.0391282 | 0.22647082 | 2.6655974 | 20 | 7 1.8 | 19.9 |
| 336354 2008 $TF_{168}$ | 15.9 | X | 278.17178 | 250.93686 | 89.79372 | 15.73452 | 0.1553096 | 0.22670612 | 2.6637526 | 20 | 5 22.8 | 19.6 |
| 336355 2008 $TR_{175}$ | 16.8 | X | 211.01435 | 64.69338 | 316.45700 | 2.07310 | 0.0913559 | 0.21810717 | 2.7333134 | 20 | 5 1.3 | 20.8 |
| 336356 2008 $TW_{178}$ | 16.9 | X | 304.83845 | 161.66281 | 150.30973 | 8.07550 | 0.2016536 | 0.23201166 | 2.6229872 | 20 | 5 13.0 | 20.1 |
| 336357 2008 $TE_{180}$ | 16.4 | X | 230.19458 | 237.26319 | 153.67130 | 13.75433 | 0.2705165 | 0.22605588 | 2.6688583 | 20 | 5 24.6 | 21.2 |
| 336358 2008 $TQ_{182}$ | 16.7 | X | 267.95004 | 145.96286 | 237.53396 | 11.97924 | 0.1754225 | 0.23462578 | 2.6034679 | 20 | 6 28.7 | 20.4 |
| 336359 2008 $TC_{184}$ | 16.2 | X | 140.53022 | 185.60158 | 277.38253 | 9.80698 | 0.0576537 | 0.21864670 | 2.7288150 | 20 | 5 27.4 | 20.2 |
| 336360 2008 $TZ_{184}$ | 16.4 | X | 243.15142 | 243.95312 | 100.72533 | 6.11613 | 0.1251642 | 0.21963986 | 2.7205828 | 20 | 4 20.5 | 20.6 |
| 336361 2008 $UT$ | 16.8 | X | 2.22032 | 346.82427 | 323.30204 | 3.13116 | 0.2141946 | 0.24007105 | 2.5639498 | 20 | 9 14.7 | 19.0 |
| 336362 2008 $UQ_{3}$ | 16.2 | X | 251.13007 | 228.08842 | 128.65139 | 8.23869 | 0.2170989 | 0.22230580 | 2.6987885 | 20 | 5 5.1 | 20.5 |
| 336363 2008 $UV_{6}$ | 16.1 | X | 243.14704 | 192.56084 | 52.55830 | 3.23196 | 0.1026888 | 0.19119966 | 2.9840858 | 20 | — | — |
| 336364 2008 $UQ_{28}$ | 16.7 | X | 159.74246 | 247.53944 | 211.48453 | 11.29233 | 0.1237975 | 0.21813207 | 2.7331054 | 20 | 6 16.7 | 21.1 |
| 336365 2008 $UO_{29}$ | 16.6 | X | 135.05170 | 324.48952 | 75.73167 | 3.05908 | 0.0767190 | 0.20128520 | 2.8835544 | 20 | 3 7.3 | 20.7 |
| 336366 2008 $UB_{31}$ | 15.6 | X | 195.98722 | 26.35927 | 217.78439 | 27.23027 | 0.1065169 | 0.17974114 | 3.1095990 | 20 | — | — |
| 336367 2008 $UY_{35}$ | 16.6 | X | 130.58979 | 273.20454 | 200.69324 | 2.57059 | 0.0522535 | 0.21929105 | 2.7234670 | 20 | 5 30.2 | 20.5 |
| 336368 2008 $UK_{38}$ | 16.0 | X | 277.94264 | 43.53432 | 240.22234 | 8.37282 | 0.1263817 | 0.20894866 | 2.8126109 | 20 | 3 7.5 | 20.2 |
| 336369 2008 $UU_{40}$ | 16.7 | X | 250.41729 | 17.67044 | 268.16982 | 1.39466 | 0.0440707 | 0.20136351 | 2.8828068 | 20 | 2 21.4 | 20.7 |
| 336370 2008 $UF_{42}$ | 16.8 | X | 218.55562 | 132.31322 | 207.22666 | 7.37211 | 0.1639137 | 0.21073199 | 2.7967205 | 20 | 3 14.8 | 21.4 |
| 336371 2008 $UZ_{46}$ | 17.0 | X | 204.66122 | 37.01880 | 341.05434 | 2.80700 | 0.1091195 | 0.21222080 | 2.7836252 | 20 | 4 20.1 | 21.4 |
| 336372 2008 $UA_{47}$ | 15.8 | X | 248.09152 | 335.07636 | 246.28765 | 9.23373 | 0.0357101 | 0.18308320 | 3.0716405 | 20 | — | — |
| 336373 2008 $UG_{47}$ | 16.5 | X | 228.87382 | 109.10043 | 244.85294 | 7.81934 | 0.0678092 | 0.21193345 | 2.7861407 | 20 | 4 17.2 | 20.7 |
| 336374 2008 $UM_{54}$ | 15.7 | X | 321.00027 | 125.79081 | 234.98787 | 12.27293 | 0.2778173 | 0.23858532 | 2.5745830 | 20 | 8 9.8 | 17.9 |
| 336375 2008 $US_{54}$ | 16.5 | X | 214.50204 | 309.28632 | 70.72062 | 6.19439 | 0.0738447 | 0.21317952 | 2.7752731 | 20 | 5 6.8 | 20.6 |
| 336376 2008 $UE_{60}$ | 16.6 | X | 261.79195 | 96.15389 | 263.89833 | 4.06464 | 0.0786517 | 0.22331618 | 2.6906421 | 20 | 6 4.4 | 20.2 |
| 336377 2008 $UW_{60}$ | 16.7 | X | 302.39688 | 342.19291 | 294.85850 | 3.07652 | 0.0264329 | 0.21219907 | 2.7838151 | 20 | 4 15.6 | 20.5 |
| 336378 2008 $UY_{62}$ | 16.9 | X | 232.29960 | 62.71491 | 292.97133 | 1.59700 | 0.0871373 | 0.21531029 | 2.7569329 | 20 | 4 22.7 | 20.9 |
| 336379 2008 $UO_{63}$ | 16.7 | X | 264.53355 | 86.47383 | 240.89251 | 5.37676 | 0.0134268 | 0.21431810 | 2.7654352 | 20 | 5 4.6 | 20.4 |
| 336380 2008 $UQ_{65}$ | 17.1 | X | 211.88742 | 137.19406 | 270.01194 | 5.46675 | 0.0421953 | 0.21958931 | 2.7210002 | 20 | 6 9.1 | 21.0 |
| 336381 2008 $UJ_{68}$ | 16.6 | X | 289.06597 | 209.02225 | 131.87664 | 5.70411 | 0.0892055 | 0.22891926 | 2.6465565 | 20 | 6 14.8 | 20.0 |
| 336382 2008 $UX_{70}$ | 15.9 | X | 290.78496 | 95.36325 | 254.62061 | 12.18809 | 0.2260877 | 0.22937506 | 2.6430492 | 20 | 6 7.0 | 19.2 |
| 336383 2008 $UY_{74}$ | 15.5 | X | 314.46801 | 245.31308 | 267.75254 | 6.92672 | 0.1263500 | 0.17823820 | 3.1270550 | 20 | — | — |
| 336384 2008 $UR_{75}$ | 16.4 | X | 274.93090 | 313.59267 | 20.47541 | 4.10666 | 0.1002685 | 0.21781716 | 2.7357390 | 20 | 5 13.7 | 20.1 |
| 336385 2008 $UC_{76}$ | 17.0 | X | 211.92672 | 0.27399 | 13.83623 | 3.07966 | 0.1219067 | 0.21200038 | 2.7855542 | 20 | 4 22.5 | 21.2 |
| 336386 2008 $UL_{76}$ | 16.9 | X | 220.38065 | 19.30321 | 345.94198 | 2.35992 | 0.1202953 | 0.21199653 | 2.7855880 | 20 | 4 19.7 | 21.3 |
| 336387 2008 $UY_{79}$ | 16.2 | X | 296.48489 | 341.20930 | 245.79159 | 8.91748 | 0.0548361 | 0.19879083 | 2.9076256 | 20 | 1 31.3 | 20.5 |
| 336388 2008 $UO_{86}$ | 16.6 | X | 225.77015 | 290.10397 | 342.13065 | 1.63416 | 0.0363147 | 0.19124087 | 2.9836571 | 20 | 1 11.0 | 21.0 |
| 336389 2008 $UF_{88}$ | 16.5 | X | 237.15868 | 223.75662 | 76.06150 | 5.56264 | 0.0936346 | 0.20893496 | 2.8127338 | 20 | 2 21.9 | 20.8 |
| 336390 2008 $UL_{89}$ | 16.6 | X | 146.73802 | 228.43023 | 259.71273 | 2.98166 | 0.0301865 | 0.22776647 | 2.6554789 | 20 | 7 6.3 | 20.3 |
| 336391 2008 $UN_{92}$ | 16.5 | X | 226.23652 | 273.13918 | 94.16432 | 8.18647 | 0.1965873 | 0.21969450 | 2.7201316 | 20 | 4 27.1 | 21.0 |
| 336392 Changhua | 16.7 | X | 254.51922 | 269.83266 | 120.83709 | 3.53941 | 0.1514365 | 0.22735920 | 2.6586491 | 20 | 6 26.2 | 20.5 |
| 336393 2008 $UM_{95}$ | 16.9 | X | 154.72801 | 264.98746 | 163.56732 | 4.17631 | 0.0812521 | 0.21272830 | 2.7791962 | 20 | 5 3.1 | 21.0 |
| 336394 2008 $UZ_{97}$ | 16.3 | X | 257.56765 | 231.03612 | 109.54711 | 5.38779 | 0.1677649 | 0.21963842 | 2.7205946 | 20 | 4 25.8 | 20.4 |
| 336395 2008 $UQ_{111}$ | 16.7 | X | 211.39890 | 358.53618 | 356.20242 | 4.94424 | 0.0578205 | 0.21007402 | 2.8025572 | 20 | 3 31.3 | 20.9 |
| 336396 2008 $UK_{116}$ | 16.6 | X | 235.69601 | 94.26391 | 274.33310 | 6.12784 | 0.0418336 | 0.21742611 | 2.7390182 | 20 | 5 17.8 | 20.5 |
| 336397 2008 $UV_{116}$ | 16.8 | X | 250.01121 | 41.10470 | 323.91837 | 4.94093 | 0.0289813 | 0.22050301 | 2.7134784 | 20 | 6 2.2 | 20.5 |
| 336398 2008 $UM_{117}$ | 16.7 | X | 239.09842 | 334.28743 | 17.36364 | 9.07402 | 0.0238656 | 0.21478049 | 2.7614647 | 20 | 4 30.8 | 20.7 |
| 336399 2008 $UP_{118}$ | 16.2 | X | 283.40933 | 11.34324 | 345.90711 | 4.52093 | 0.2193381 | 0.22983094 | 2.6395530 | 20 | 6 7.1 | 19.8 |
| 336400 2008 $UW_{131}$ | 16.6 | X | 243.74058 | 350.87141 | 312.59283 | 1.11610 | 0.0409091 | 0.20520167 | 2.8467464 | 20 | 3 6.5 | 20.6 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336401 2008 $UJ_{133}$ | 17.0 | X | 235.68270 | 110.67995 | 229.73648 | 3.52445 | 0.1176607 | 0.21363528 | 2.7713246 | 20 | 4 4.5 | 21.2 |
| 336402 2008 $UP_{139}$ | 16.0 | X | 200.69886 | 2.04077 | 235.43584 | 3.57009 | 0.0487699 | 0.17750823 | 3.1356221 | 20 | — | — |
| 336403 2008 $UM_{151}$ | 16.7 | X | 203.20419 | 145.61703 | 224.90244 | 5.32090 | 0.0859136 | 0.21003509 | 2.8029035 | 20 | 4 9.9 | 21.1 |
| 336404 2008 $UC_{156}$ | 17.0 | X | 180.13673 | 185.44008 | 230.06357 | 4.59963 | 0.1103336 | 0.21310081 | 2.7759565 | 20 | 5 13.2 | 21.2 |
| 336405 2008 $UL_{157}$ | 16.8 | X | 284.73620 | 74.27431 | 217.91633 | 2.22904 | 0.0794553 | 0.21045583 | 2.7991665 | 20 | 4 5.4 | 20.6 |
| 336406 2008 $UA_{161}$ | 16.1 | X | 246.93471 | 44.21918 | 315.04085 | 14.53956 | 0.1718045 | 0.22280307 | 2.6947714 | 20 | 4 28.9 | 20.6 |
| 336407 2008 $UL_{163}$ | 16.3 | X | 292.18387 | 64.46420 | 236.48227 | 9.13625 | 0.1487656 | 0.22053363 | 2.7132272 | 20 | 4 13.9 | 20.0 |
| 336408 2008 $UW_{168}$ | 16.5 | X | 251.22586 | 176.42974 | 212.65031 | 13.78590 | 0.0854836 | 0.22645227 | 2.6657429 | 20 | 6 27.5 | 20.5 |
| 336409 2008 $UK_{176}$ | 16.8 | X | 148.44455 | 187.36883 | 231.12752 | 5.37384 | 0.0530368 | 0.20991620 | 2.8039617 | 20 | 4 8.5 | 20.9 |
| 336410 2008 $UG_{178}$ | 16.7 | X | 197.19711 | 99.88440 | 270.49333 | 2.39094 | 0.2526160 | 0.21346469 | 2.7728009 | 20 | 4 1.8 | 21.5 |
| 336411 2008 $UA_{179}$ | 15.5 | X | 348.99684 | 162.64272 | 295.36400 | 7.46365 | 0.1509664 | 0.17927942 | 3.1149357 | 20 | — | — |
| 336412 2008 $UX_{185}$ | 15.8 | X | 282.35144 | 317.16974 | 235.62396 | 14.63202 | 0.0449886 | 0.18201992 | 3.0835910 | 20 | — | — |
| 336413 2008 $UE_{187}$ | 16.3 | X | 137.19700 | 173.10659 | 219.65295 | 7.46724 | 0.0793523 | 0.19647756 | 2.9304035 | 20 | 2 25.9 | 20.7 |
| 336414 2008 $UX_{198}$ | 15.7 | X | 276.73852 | 316.89247 | 56.81460 | 14.37783 | 0.2905556 | 0.23104975 | 2.6302622 | 20 | 6 9.2 | 19.6 |
| 336415 2008 $UD_{200}$ | 17.2 | X | 291.55233 | 136.67528 | 224.95553 | 2.63783 | 0.2597102 | 0.23500888 | 2.6006378 | 20 | 6 19.0 | 20.4 |
| 336416 2008 $UG_{200}$ | 16.7 | X | 262.90557 | 359.73627 | 30.60277 | 4.88376 | 0.0760154 | 0.23127673 | 2.6285410 | 20 | 7 19.4 | 20.3 |
| 336417 2008 $UD_{201}$ | 16.7 | X | 252.13402 | 29.23045 | 2.39007 | 3.61960 | 0.1876901 | 0.22820284 | 2.6520926 | 20 | 6 19.9 | 20.7 |
| 336418 2008 $UB_{204}$ | 16.6 | X | 317.96160 | 339.45319 | 3.05714 | 5.23673 | 0.2620066 | 0.23656348 | 2.5892317 | 20 | 7 11.9 | 18.8 |
| 336419 2008 $UL_{207}$ | 16.0 | X | 199.99881 | 47.85445 | 232.66012 | 8.85796 | 0.0658316 | 0.19087376 | 2.9874815 | 20 | — | — |
| 336420 2008 $UM_{207}$ | 15.9 | X | 318.91232 | 8.18739 | 232.84126 | 8.87211 | 0.0554691 | 0.20867466 | 2.8150724 | 20 | 3 16.2 | 19.8 |
| 336421 2008 $UW_{213}$ | 16.3 | X | 147.62166 | 207.67178 | 238.82423 | 12.64513 | 0.1497083 | 0.21482476 | 2.7610854 | 20 | 5 21.3 | 20.4 |
| 336422 2008 $UZ_{216}$ | 16.4 | X | 216.40406 | 69.90166 | 317.96110 | 7.17122 | 0.2352190 | 0.22306973 | 2.6926234 | 20 | 5 5.9 | 21.1 |
| 336423 2008 $UF_{218}$ | 16.5 | X | 187.25056 | 349.14460 | 320.38428 | 3.44526 | 0.0341005 | 0.19257797 | 2.9698304 | 20 | 1 12.5 | 20.7 |
| 336424 2008 $UM_{227}$ | 16.0 | X | 260.25203 | 31.89533 | 286.20291 | 3.93574 | 0.1540756 | 0.21216935 | 2.7840752 | 20 | 3 28.8 | 20.3 |
| 336425 2008 $UZ_{227}$ | 16.6 | X | 251.20183 | 40.74173 | 331.37548 | 12.25415 | 0.1872319 | 0.22555283 | 2.6728250 | 20 | 5 21.2 | 20.9 |
| 336426 2008 $UX_{234}$ | 16.3 | X | 293.19900 | 21.87680 | 233.69489 | 8.09473 | 0.1175507 | 0.21090096 | 2.7952265 | 20 | 2 20.7 | 20.5 |
| 336427 2008 $UH_{240}$ | 16.0 | X | 238.94990 | 221.72417 | 8.81686 | 9.13218 | 0.0459554 | 0.18414790 | 3.0597894 | 20 | — | — |
| 336428 2008 $UO_{240}$ | 16.6 | X | 258.12837 | 29.63454 | 311.22407 | 5.84435 | 0.0634853 | 0.21668095 | 2.7452942 | 20 | 5 5.2 | 20.5 |
| 336429 2008 $UQ_{242}$ | 15.8 | X | 197.69410 | 277.09005 | 320.96079 | 8.19270 | 0.0479347 | 0.17463948 | 3.1698674 | 20 | — | — |
| 336430 2008 $UJ_{245}$ | 16.7 | X | 255.80533 | 13.58256 | 311.61541 | 4.49712 | 0.0609325 | 0.21048462 | 2.7989113 | 20 | 4 12.6 | 20.7 |
| 336431 2008 $UC_{247}$ | 17.0 | X | 218.51972 | 128.26985 | 249.74709 | 2.53136 | 0.1112138 | 0.21403577 | 2.7678665 | 20 | 5 4.7 | 21.2 |
| 336432 2008 $UK_{250}$ | 16.5 | X | 268.55751 | 60.97630 | 240.80123 | 4.72094 | 0.1061407 | 0.21264170 | 2.7799507 | 20 | 3 23.4 | 20.5 |
| 336433 2008 $UX_{252}$ | 16.7 | X | 225.07693 | 284.00201 | 77.26223 | 0.86265 | 0.0860211 | 0.21483688 | 2.7609815 | 20 | 4 22.9 | 20.6 |
| 336434 2008 $US_{258}$ | 17.3 | X | 207.60825 | 69.40178 | 349.69030 | 0.89067 | 0.1814213 | 0.22004050 | 2.7172794 | 20 | 6 11.2 | 21.6 |
| 336435 2008 $UG_{265}$ | 16.8 | X | 272.19494 | 25.68007 | 281.55406 | 3.50595 | 0.0532252 | 0.21351972 | 2.7723244 | 20 | 4 11.2 | 20.6 |
| 336436 2008 $UW_{265}$ | 16.3 | X | 253.11395 | 121.31902 | 248.78477 | 6.35181 | 0.2208199 | 0.22571260 | 2.6715636 | 20 | 5 20.0 | 20.5 |
| 336437 2008 $UC_{266}$ | 16.9 | X | 134.53665 | 124.73362 | 331.60347 | 3.84492 | 0.0308317 | 0.21461556 | 2.7628793 | 20 | 5 7.8 | 20.8 |
| 336438 2008 $UP_{281}$ | 16.8 | X | 192.29025 | 73.62087 | 284.72340 | 0.94664 | 0.0807791 | 0.20376346 | 2.8601261 | 20 | 3 15.6 | 21.1 |
| 336439 2008 $UZ_{282}$ | 16.6 | X | 230.43106 | 283.15412 | 60.54823 | 5.34391 | 0.0783484 | 0.21346062 | 2.7728362 | 20 | 4 9.0 | 20.7 |
| 336440 2008 $UD_{299}$ | 16.7 | X | 255.76926 | 339.92259 | 347.37784 | 3.30743 | 0.0957584 | 0.21330835 | 2.7741556 | 20 | 4 12.1 | 20.6 |
| 336441 2008 $UO_{301}$ | 15.7 | X | 113.79729 | 196.84224 | 261.00385 | 13.03294 | 0.0997738 | 0.21212476 | 2.7844653 | 20 | 4 20.8 | 20.0 |
| 336442 2008 $UP_{303}$ | 16.8 | X | 214.66857 | 333.07312 | 32.35896 | 2.81527 | 0.0926730 | 0.21054428 | 2.7983825 | 20 | 4 16.6 | 21.0 |
| 336443 2008 $UN_{305}$ | 16.8 | X | 284.89894 | 73.38456 | 201.68436 | 11.37606 | 0.0937675 | 0.21519779 | 2.7578936 | 20 | 3 10.2 | 20.8 |
| 336444 2008 $UR_{312}$ | 15.7 | X | 160.00113 | 10.83375 | 292.53917 | 8.98885 | 0.0381520 | 0.18224711 | 3.0810278 | 20 | — | — |
| 336445 2008 $UG_{316}$ | 16.0 | X | 230.06833 | 274.22387 | 66.17433 | 15.89302 | 0.2706773 | 0.21278002 | 2.7787458 | 20 | 3 30.5 | 21.1 |
| 336446 2008 $UD_{321}$ | 17.2 | X | 284.20531 | 322.91251 | 358.61447 | 5.47260 | 0.1209159 | 0.22371542 | 2.6874400 | 20 | 5 4.9 | 20.8 |
| 336447 2008 $UN_{324}$ | 16.6 | X | 240.26431 | 76.33383 | 277.14299 | 3.04880 | 0.0893703 | 0.21321415 | 2.7749726 | 20 | 4 28.4 | 20.7 |
| 336448 2008 $UP_{330}$ | 17.0 | X | 262.66525 | 180.46135 | 210.21689 | 2.85714 | 0.2390994 | 0.23015388 | 2.6370833 | 20 | 6 23.9 | 20.8 |
| 336449 2008 $UD_{339}$ | 16.1 | X | 323.27759 | 130.19586 | 71.15218 | 3.02327 | 0.0354434 | 0.19332719 | 2.9621526 | 20 | 2 10.2 | 20.2 |
| 336450 2008 $UF_{340}$ | 15.6 | X | 247.32270 | 323.29287 | 253.36011 | 9.37331 | 0.0567138 | 0.17850657 | 3.1239201 | 20 | — | — |
| 336451 2008 $UM_{340}$ | 15.3 | X | 181.82304 | 30.78689 | 254.51933 | 7.99155 | 0.0490189 | 0.18073324 | 3.0982089 | 20 | — | — |
| 336452 2008 $UQ_{341}$ | 15.9 | X | 226.94495 | 234.90198 | 5.97982 | 4.83692 | 0.0963582 | 0.18121033 | 3.0927685 | 20 | — | — |
| 336453 2008 $UO_{342}$ | 17.3 | X | 211.80103 | 141.96333 | 185.85217 | 1.75986 | 0.0618261 | 0.20471008 | 2.8513021 | 20 | 2 28.3 | 21.6 |
| 336454 2008 $UD_{344}$ | 16.8 | X | 210.82194 | 86.94939 | 294.22424 | 3.27256 | 0.0877126 | 0.21393523 | 2.7687336 | 20 | 4 30.9 | 21.1 |
| 336455 2008 $UE_{344}$ | 16.7 | X | 200.17148 | 124.19160 | 278.06715 | 3.27116 | 0.0700500 | 0.21534639 | 2.7566247 | 20 | 5 17.6 | 20.8 |
| 336456 2008 $UB_{358}$ | 16.7 | X | 216.14690 | 271.52960 | 95.32706 | 4.61575 | 0.1159639 | 0.21187116 | 2.7866868 | 20 | 4 20.6 | 21.1 |
| 336457 2008 $UJ_{358}$ | 15.8 | X | 272.42259 | 310.71085 | 270.79754 | 7.59120 | 0.0940715 | 0.18851618 | 3.0123375 | 20 | — | — |
| 336458 2008 $UU_{358}$ | 15.9 | X | 128.75670 | 116.91575 | 231.83788 | 9.60752 | 0.0111804 | 0.18249691 | 3.0782156 | 20 | — | — |
| 336459 2008 $UC_{360}$ | 16.4 | X | 255.94085 | 21.95953 | 291.49604 | 6.74046 | 0.1873823 | 0.21013979 | 2.8019724 | 20 | 3 14.3 | 20.9 |
| 336460 2008 $UL_{362}$ | 16.1 | X | 220.81385 | 151.26574 | 303.71917 | 12.77752 | 0.1007743 | 0.23649042 | 2.5897650 | 20 | 8 15.2 | 19.9 |
| 336461 2008 $UQ_{366}$ | 15.4 | X | 186.29983 | 341.69729 | 265.04020 | 11.08675 | 0.1284999 | 0.17364802 | 3.1819217 | 20 | — | — |
| 336462 2008 $UK_{368}$ | 15.0 | X | 241.12834 | 348.70690 | 266.59682 | 9.45220 | 0.0203459 | 0.18018243 | 3.1045197 | 20 | 1 9.8 | 19.5 |
| 336463 2008 $UT_{368}$ | 15.9 | X | 74.75383 | 160.31320 | 282.24143 | 10.70450 | 0.1051966 | 0.18522863 | 3.0478761 | 20 | 2 14.5 | 20.0 |
| 336464 2008 $VC_{2}$ | 16.7 | X | 198.96185 | 30.04344 | 355.10609 | 5.73542 | 0.2954153 | 0.21449699 | 2.7638974 | 20 | 4 19.3 | 21.9 |
| 336465 2008 $VR_{3}$ | 16.5 | X | 237.86434 | 254.03636 | 113.31588 | 6.68647 | 0.0983084 | 0.21888289 | 2.7268516 | 20 | 5 15.6 | 20.5 |
| 336466 2008 $VJ_{4}$ | 15.4 | X | 35.92615 | 213.60677 | 244.03494 | 12.84505 | 0.1859709 | 0.18549472 | 3.0449607 | 20 | 1 11.0 | 18.9 |
| 336467 2008 $VG_{7}$ | 15.9 | X | 267.30493 | 84.69470 | 260.29478 | 11.11988 | 0.1992107 | 0.22073131 | 2.7116071 | 20 | 5 3.8 | 20.0 |
| 336468 2008 $VO_{7}$ | 16.0 | X | 288.51621 | 35.99910 | 302.53831 | 8.37730 | 0.1199620 | 0.22996707 | 2.6385112 | 20 | 6 4.6 | 19.4 |
| 336469 2008 $VS_{9}$ | 16.3 | X | 237.97509 | 253.62184 | 163.68217 | 13.61317 | 0.1985577 | 0.22967900 | 2.6407170 | 20 | 7 6.4 | 20.6 |
| 336470 2008 $VQ_{14}$ | 15.6 | X | 76.35448 | 214.62071 | 219.06196 | 7.52735 | 0.1022714 | 0.19099368 | 2.9862309 | 20 | 2 5.6 | 19.6 |
| 336471 2008 $VS_{14}$ | 17.4 | X | 229.40408 | 84.92232 | 337.29544 | 6.71051 | 0.2852570 | 0.22616753 | 2.6679799 | 20 | 6 27.9 | 22.0 |
| 336472 2008 $VX_{19}$ | 17.0 | X | 203.39970 | 205.59555 | 197.41225 | 4.01288 | 0.0813902 | 0.21612201 | 2.7500255 | 20 | 5 22.9 | 21.0 |
| 336473 2008 $VB_{20}$ | 16.8 | X | 96.99520 | 338.75604 | 120.38366 | 3.14953 | 0.0221167 | 0.20327843 | 2.8646739 | 20 | 3 27.2 | 20.7 |
| 336474 2008 $VJ_{23}$ | 16.6 | X | 174.76451 | 203.95281 | 215.34022 | 5.13603 | 0.0569349 | 0.21100648 | 2.7942946 | 20 | 5 11.8 | 20.5 |
| 336475 2008 $VF_{24}$ | 17.2 | X | 306.49236 | 279.97523 | 74.00106 | 12.34733 | 0.2060591 | 0.23176224 | 2.6248688 | 20 | 7 13.9 | 20.0 |
| 336476 2008 $VA_{27}$ | 16.2 | X | 266.31919 | 17.24726 | 294.68966 | 3.31448 | 0.0607147 | 0.21286945 | 2.7779675 | 20 | 4 8.9 | 20.2 |
| 336477 2008 $VD_{27}$ | 16.7 | X | 323.92205 | 246.78550 | 7.59190 | 4.27849 | 0.0208951 | 0.21142279 | 2.7906252 | 20 | 4 16.3 | 20.4 |
| 336478 2008 $VO_{27}$ | 15.6 | X | 343.94359 | 248.63872 | 243.70087 | 10.39031 | 0.1695694 | 0.18198436 | 3.0839927 | 20 | — | — |
| 336479 2008 $VH_{28}$ | 16.4 | X | 273.19009 | 262.68849 | 28.34591 | 4.02326 | 0.0714710 | 0.20925421 | 2.8098723 | 20 | 3 23.2 | 20.2 |
| 336480 2008 $VF_{47}$ | 16.6 | X | 213.81541 | 163.38816 | 228.70159 | 7.27687 | 0.2239607 | 0.21726149 | 2.7404016 | 20 | 5 12.3 | 21.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336481 2008 $VX_{48}$ | 15.8 | X | 270.84702 | 304.48778 | 233.20987 | 8.44954 | 0.0423550 | 0.17518179 | 3.1633221 | 20 | — | — |
| 336482 2008 $VL_{51}$ | 16.0 | X | 277.62882 | 304.21812 | 278.00974 | 2.49102 | 0.0860320 | 0.18658705 | 3.0330650 | 20 | 1 4.6 | 20.3 |
| 336483 2008 $VP_{53}$ | 16.7 | X | 302.55496 | 242.75906 | 105.01005 | 5.12065 | 0.3091770 | 0.23477140 | 2.6023913 | 20 | 6 8.3 | 19.7 |
| 336484 2008 $VH_{55}$ | 16.6 | X | 195.12530 | 104.99768 | 222.74810 | 5.18268 | 0.0783333 | 0.20176507 | 2.8789806 | 20 | 2 9.3 | 21.1 |
| 336485 2008 $VQ_{57}$ | 16.3 | X | 138.44229 | 258.83431 | 72.71527 | 2.51412 | 0.0775984 | 0.18558597 | 3.0439624 | 20 | — | — |
| 336486 2008 $VU_{58}$ | 16.4 | X | 34.59945 | 303.15492 | 276.36890 | 3.95088 | 0.0752889 | 0.22202821 | 2.7010375 | 20 | 6 13.7 | 19.6 |
| 336487 2008 $VZ_{59}$ | 15.8 | X | 290.87629 | 286.38634 | 53.04959 | 14.47407 | 0.1991342 | 0.22705103 | 2.6610543 | 20 | 5 26.6 | 19.2 |
| 336488 2008 $VL_{64}$ | 16.4 | X | 299.86674 | 268.74974 | 64.82002 | 10.50899 | 0.2747595 | 0.22882755 | 2.6472635 | 20 | 5 20.8 | 19.7 |
| 336489 2008 $WY_{2}$ | 16.8 | X | 212.12575 | 133.56005 | 236.77626 | 11.81971 | 0.1781448 | 0.21601297 | 2.7509508 | 20 | 4 13.9 | 21.4 |
| 336490 2008 $WF_{4}$ | 16.6 | X | 242.85960 | 337.63172 | 14.58008 | 3.98201 | 0.1083739 | 0.21803811 | 2.7338905 | 20 | 4 27.9 | 20.7 |
| 336491 2008 $WQ_{10}$ | 16.6 | X | 210.13959 | 294.10332 | 65.51642 | 2.88670 | 0.1156566 | 0.21044730 | 2.7992422 | 20 | 4 4.9 | 20.9 |
| 336492 2008 $WB_{11}$ | 16.4 | X | 274.98471 | 82.63774 | 238.73680 | 5.53456 | 0.0313825 | 0.21432052 | 2.7654143 | 20 | 5 7.9 | 20.2 |
| 336493 2008 $WK_{14}$ | 16.9 | X | 280.17139 | 158.72679 | 217.60268 | 4.16101 | 0.3119087 | 0.23399061 | 2.6081772 | 20 | 6 15.3 | 20.5 |
| 336494 2008 $WU_{16}$ | 17.0 | X | 227.83913 | 348.16552 | 49.74223 | 2.71602 | 0.1741742 | 0.22377571 | 2.6869572 | 20 | 6 3.9 | 21.2 |
| 336495 2008 $WC_{27}$ | 15.4 | X | 351.77527 | 237.58130 | 245.57050 | 9.21238 | 0.0737138 | 0.18258745 | 3.0771979 | 20 | — | — |
| 336496 2008 $WW_{31}$ | 16.5 | X | 124.40930 | 30.80501 | 24.57598 | 2.00358 | 0.0843713 | 0.19694721 | 2.9257429 | 20 | 3 14.1 | 20.6 |
| 336497 2008 $WV_{47}$ | 15.5 | X | 204.92157 | 171.50809 | 71.71795 | 9.82973 | 0.0431856 | 0.17488708 | 3.1668748 | 20 | — | — |
| 336498 2008 $WU_{48}$ | 16.7 | X | 169.15642 | 297.65099 | 92.91360 | 3.25110 | 0.1018573 | 0.20675859 | 2.8324376 | 20 | 4 2.7 | 21.0 |
| 336499 2008 $WL_{53}$ | 16.6 | X | 167.20192 | 194.73499 | 192.54973 | 3.15730 | 0.0827995 | 0.20698134 | 2.8304050 | 20 | 3 24.8 | 20.7 |
| 336500 2008 $WV_{64}$ | 17.0 | X | 321.93292 | 74.35848 | 208.24010 | 4.37929 | 0.0805375 | 0.22052190 | 2.7133234 | 20 | 5 15.6 | 20.3 |
| 336501 2008 $WJ_{71}$ | 16.7 | X | 127.42226 | 207.98772 | 212.07661 | 5.45240 | 0.0558676 | 0.20481704 | 2.8503093 | 20 | 3 17.1 | 20.8 |
| 336502 2008 $WQ_{78}$ | 16.1 | X | 148.61486 | 103.88880 | 241.35083 | 9.62645 | 0.1270063 | 0.19245070 | 2.9711395 | 20 | 1 18.2 | 20.8 |
| 336503 2008 $WL_{83}$ | 17.1 | X | 211.67794 | 259.95464 | 145.01894 | 3.94466 | 0.1978089 | 0.21730745 | 2.7400152 | 20 | 5 28.3 | 21.7 |
| 336504 2008 $WQ_{85}$ | 15.7 | X | 19.61541 | 202.95976 | 263.79996 | 13.85068 | 0.1329041 | 0.17892165 | 3.1190868 | 20 | — | — |
| 336505 2008 $WD_{108}$ | 15.4 | X | 272.06779 | 272.16025 | 264.40309 | 14.41181 | 0.0709622 | 0.17595911 | 3.1539989 | 20 | — | — |
| 336506 2008 $WJ_{118}$ | 16.6 | X | 235.47041 | 281.73851 | 57.21869 | 5.18287 | 0.1176307 | 0.20894002 | 2.8126884 | 20 | 4 5.6 | 20.9 |
| 336507 2008 $WR_{121}$ | 17.2 | X | 287.26672 | 90.40340 | 276.77559 | 11.45051 | 0.3137019 | 0.23326987 | 2.6135468 | 20 | 6 11.7 | 20.5 |
| 336508 2008 $WE_{125}$ | 15.5 | X | 208.91854 | 341.30102 | 288.18610 | 9.08856 | 0.0506685 | 0.17691813 | 3.1425907 | 20 | — | — |
| 336509 2008 $WS_{125}$ | 15.4 | X | 94.19969 | 255.10545 | 120.65535 | 23.39908 | 0.2175408 | 0.17511278 | 3.1641531 | 20 | 1 11.6 | 19.8 |
| 336510 2008 $WD_{129}$ | 15.5 | X | 76.58755 | 272.77410 | 122.97134 | 16.94270 | 0.2457624 | 0.17580332 | 3.1558620 | 20 | 1 15.7 | 19.3 |
| 336511 2008 $WF_{131}$ | 15.9 | X | 337.83009 | 144.35935 | 198.40846 | 12.65574 | 0.2017059 | 0.23804085 | 2.5785074 | 20 | 9 3.8 | 18.2 |
| 336512 2008 $WT_{138}$ | 16.3 | X | 166.61724 | 200.75328 | 224.99348 | 4.83097 | 0.0440163 | 0.20908324 | 2.8114038 | 20 | 5 9.9 | 20.4 |
| 336513 2008 $XD_{1}$ | 16.1 | X | 227.71980 | 77.75368 | 301.63577 | 7.60330 | 0.2155532 | 0.21943419 | 2.7222824 | 20 | 5 6.2 | 20.8 |
| 336514 2008 $XS_{27}$ | 15.8 | X | 181.36370 | 46.52231 | 289.30944 | 8.90528 | 0.0323002 | 0.19365512 | 2.9588076 | 20 | 2 4.0 | 20.1 |
| 336515 2008 $XU_{40}$ | 15.6 | X | 60.29953 | 346.32360 | 98.15012 | 10.37314 | 0.1154025 | 0.18903010 | 3.0068752 | 20 | 2 2.4 | 19.4 |
| 336516 2008 $XT_{47}$ | 16.1 | X | 98.73655 | 273.13322 | 106.55716 | 5.14369 | 0.1911363 | 0.18138226 | 3.0908138 | 20 | 1 17.0 | 20.3 |
| 336517 2008 $XU_{52}$ | 15.9 | X | 270.24996 | 7.63171 | 21.17884 | 13.43782 | 0.2882828 | 0.22894341 | 2.6463703 | 20 | 6 23.0 | 20.0 |
| 336518 2008 $YK_{9}$ | 16.0 | X | 114.23495 | 254.61962 | 116.98993 | 10.40729 | 0.1398113 | 0.18757692 | 3.0223850 | 20 | 1 17.4 | 20.3 |
| 336519 2008 $YM_{11}$ | 15.4 | X | 77.82634 | 105.26031 | 288.61701 | 10.49640 | 0.2624029 | 0.17826854 | 3.1267002 | 20 | 1 16.9 | 19.2 |
| 336520 2008 $YJ_{34}$ | 16.0 | X | 65.85356 | 319.63900 | 112.73542 | 14.58273 | 0.1917421 | 0.18215232 | 3.0820966 | 20 | 2 6.5 | 19.7 |
| 336521 2008 $YY_{65}$ | 15.0 | X | 7.92985 | 151.19026 | 308.15273 | 16.03768 | 0.1217335 | 0.17085648 | 3.2164865 | 20 | — | — |
| 336522 2008 $YM_{66}$ | 16.5 | X | 284.76807 | 289.13840 | 36.77938 | 12.56135 | 0.2084922 | 0.22993391 | 2.6387649 | 20 | 4 29.5 | 20.2 |
| 336523 2008 $YF_{78}$ | 16.1 | X | 75.63605 | 278.01697 | 145.30256 | 6.33178 | 0.1488655 | 0.17999378 | 3.1066885 | 20 | 2 2.3 | 20.0 |
| 336524 2008 $YM_{80}$ | 15.4 | X | 111.94685 | 243.02416 | 101.84300 | 12.82188 | 0.1474193 | 0.17179457 | 3.2047668 | 20 | — | — |
| 336525 2008 $YU_{87}$ | 15.5 | X | 338.16671 | 225.34289 | 273.20736 | 8.13190 | 0.0364531 | 0.17518659 | 3.1632642 | 20 | — | — |
| 336526 2008 $YJ_{93}$ | 15.4 | X | 119.81972 | 94.07744 | 296.47900 | 7.79281 | 0.0379945 | 0.18318406 | 3.0705129 | 20 | 2 1.7 | 19.6 |
| 336527 2008 $YW_{95}$ | 15.6 | X | 145.48078 | 68.75586 | 292.94937 | 8.27897 | 0.0820716 | 0.18326967 | 3.0695567 | 20 | 2 1.4 | 20.1 |
| 336528 2008 $YE_{116}$ | 16.3 | X | 150.51210 | 133.62442 | 264.14294 | 1.50814 | 0.1025519 | 0.19457664 | 2.9494582 | 20 | 3 21.7 | 20.9 |
| 336529 2008 $YR_{122}$ | 15.4 | X | 101.44113 | 239.61866 | 118.78672 | 17.07090 | 0.1213783 | 0.17361608 | 3.1823119 | 20 | — | — |
| 336530 2008 $YJ_{135}$ | 15.5 | X | 64.46249 | 99.64219 | 316.78674 | 15.32807 | 0.2426927 | 0.17957518 | 3.1115146 | 20 | 1 23.2 | 19.0 |
| 336531 2008 $YS_{144}$ | 15.3 | X | 17.84325 | 180.84917 | 280.03236 | 8.47821 | 0.0993959 | 0.17329319 | 3.1862637 | 20 | — | — |
| 336532 2008 $YH_{153}$ | 15.9 | X | 179.92549 | 322.72307 | 293.35695 | 3.27606 | 0.0416986 | 0.16314041 | 3.3171238 | 20 | — | — |
| 336533 2008 $YS_{154}$ | 16.3 | X | 163.59074 | 65.79561 | 297.93645 | 5.16967 | 0.1031495 | 0.18817534 | 3.0159738 | 20 | 2 23.1 | 20.9 |
| 336534 2008 $YO_{156}$ | 16.7 | X | 112.56220 | 270.99642 | 157.10281 | 4.88693 | 0.2148581 | 0.19211532 | 2.9745964 | 20 | 4 2.4 | 21.1 |
| 336535 2008 $YF_{164}$ | 15.6 | X | 139.02445 | 117.12091 | 281.62699 | 7.34060 | 0.0645931 | 0.19226312 | 2.9730718 | 20 | 3 4.3 | 20.0 |
| 336536 2009 $AB_{26}$ | 16.3 | X | 60.66572 | 145.87858 | 285.07474 | 3.79225 | 0.1269835 | 0.17880940 | 3.1203920 | 20 | 1 18.4 | 20.2 |
| 336537 2009 $AL_{28}$ | 15.7 | X | 136.04732 | 241.76225 | 125.44703 | 7.52963 | 0.1001204 | 0.18142491 | 3.0903294 | 20 | 2 1.3 | 20.1 |
| 336538 2009 $AG_{32}$ | 16.3 | X | 90.10041 | 260.35397 | 146.53472 | 1.97218 | 0.1343778 | 0.17935231 | 3.1140917 | 20 | 1 30.9 | 20.6 |
| 336539 2009 $BW_{9}$ | 15.9 | X | 141.94983 | 224.08917 | 120.86930 | 12.32101 | 0.0992248 | 0.17832750 | 3.1260111 | 20 | 1 12.5 | 20.4 |
| 336540 2009 $BD_{25}$ | 15.7 | X | 132.45192 | 35.76851 | 331.10536 | 9.10076 | 0.0733070 | 0.17902750 | 3.1178572 | 20 | 1 26.6 | 20.2 |
| 336541 2009 $BS_{38}$ | 15.0 | X | 59.86003 | 139.57767 | 109.75677 | 4.15055 | 0.1217994 | 0.12471920 | 3.9674718 | 20 | 8 28.3 | 20.5 |
| 336542 2009 $BM_{52}$ | 16.0 | X | 62.84083 | 285.71090 | 141.78390 | 15.31717 | 0.2826296 | 0.17629990 | 3.1499331 | 20 | 2 8.3 | 19.6 |
| 336543 2009 $BF_{57}$ | 16.3 | X | 120.40078 | 188.59636 | 153.41587 | 4.42598 | 0.1618151 | 0.17289150 | 3.1911970 | 20 | — | — |
| 336544 2009 $BF_{63}$ | 15.1 | X | 112.70748 | 331.94467 | 321.94441 | 9.54294 | 0.0794316 | 0.15252914 | 3.4692386 | 20 | 12 13.3 | 20.5 |
| 336545 2009 $BF_{96}$ | 16.5 | X | 68.04465 | 46.80025 | 30.50668 | 3.55544 | 0.1696024 | 0.18180447 | 3.0860267 | 20 | 2 13.1 | 20.2 |
| 336546 2009 $BP_{97}$ | 15.5 | X | 125.07803 | 43.56201 | 340.76930 | 14.77739 | 0.1076055 | 0.18245209 | 3.0787197 | 20 | 2 12.9 | 20.0 |
| 336547 2009 $BQ_{132}$ | 15.5 | X | 119.21525 | 113.99382 | 261.10721 | 8.06997 | 0.0808128 | 0.17895203 | 3.1187338 | 20 | 1 19.3 | 20.1 |
| 336548 2009 $BG_{142}$ | 15.7 | X | 133.42701 | 17.71094 | 335.01164 | 10.19989 | 0.2265725 | 0.17489789 | 3.1667444 | 20 | 1 28.3 | 20.8 |
| 336549 2009 $CT_{33}$ | 15.1 | X | 37.79845 | 37.73659 | 238.46722 | 1.75137 | 0.1598860 | 0.12569971 | 3.9468128 | 20 | 9 3.5 | 20.2 |
| 336550 2009 $CM_{45}$ | 15.7 | X | 122.30436 | 46.71574 | 315.75767 | 12.29818 | 0.2610427 | 0.18179414 | 3.0861436 | 20 | 1 30.8 | 20.6 |
| 336551 2009 $CZ_{50}$ | 15.5 | X | 81.70883 | 61.92958 | 345.49578 | 18.68386 | 0.1475935 | 0.17446255 | 3.1720102 | 20 | 1 29.4 | 19.9 |
| 336552 2009 $DC_{15}$ | 15.8 | X | 86.28388 | 103.12783 | 333.30621 | 13.68989 | 0.1154272 | 0.18192451 | 3.0846690 | 20 | 2 27.4 | 20.0 |
| 336553 2009 $EY_{27}$ | 15.2 | X | 70.98423 | 262.80329 | 181.83199 | 25.21460 | 0.2707789 | 0.17862760 | 3.1225088 | 20 | 3 10.8 | 19.3 |
| 336554 2009 $FP_{39}$ | 16.1 | X | 67.85382 | 281.54004 | 177.40204 | 15.16812 | 0.2130365 | 0.18092296 | 3.0960426 | 20 | 3 16.1 | 19.9 |
| 336555 2009 $JA_{2}$ | 14.0 | X | 255.59711 | 134.21831 | 186.49894 | 20.77468 | 0.0684250 | 0.08230810 | 5.2340879 | 20 | 4 16.7 | 21.1 |
| 336556 2009 $KK_{36}$ | 17.0 | X | 175.21803 | 279.31346 | 247.37010 | 19.75566 | 0.0476143 | 0.38510548 | 1.8710393 | 20 | 10 25.4 | 19.2 |
| 336557 2009 $PX_{12}$ | 17.7 | X | 52.43366 | 45.53858 | 345.24846 | 4.74384 | 0.1647703 | 0.29586579 | 2.2305205 | 20 | — | — |
| 336558 2009 $RM_{34}$ | 16.7 | X | 131.68186 | 222.44623 | 21.67118 | 6.03325 | 0.0907727 | 0.27710845 | 2.3300731 | 20 | 11 26.5 | 20.2 |
| 336559 2009 $RY_{48}$ | 18.0 | X | 126.76812 | 289.36384 | 9.61431 | 3.46730 | 0.1816166 | 0.29506703 | 2.2345441 | 20 | — | — |
| 336560 2009 $RM_{54}$ | 18.1 | X | 34.98341 | 294.31149 | 160.63740 | 2.66754 | 0.0330234 | 0.30343947 | 2.1932493 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336561 2009 $RF_{66}$ | 17.4 | X | 260.23551 | 304.58803 | 278.20415 | 5.59066 | 0.0525745 | 0.30997811 | 2.1622971 | 20 | — | — |
| 336562 2009 $SY_{13}$ | 18.6 | X | 101.98123 | 55.11267 | 342.66761 | 3.28411 | 0.1605669 | 0.31098996 | 2.1576043 | 20 | 1 16.5 | 20.5 |
| 336563 2009 $SL_{19}$ | 18.1 | X | 138.35830 | 178.33743 | 136.12849 | 3.96017 | 0.2044686 | 0.30314291 | 2.1946795 | 20 | — | — |
| 336564 2009 $SQ_{26}$ | 17.9 | X | 97.05114 | 76.15987 | 186.79207 | 4.55177 | 0.1709979 | 0.27905055 | 2.3192494 | 20 | 11 20.7 | 21.4 |
| 336565 2009 $SK_{30}$ | 17.9 | X | 187.86053 | 196.77628 | 41.65490 | 3.00211 | 0.0842356 | 0.29244903 | 2.2478600 | 20 | — | — |
| 336566 2009 $SJ_{53}$ | 17.2 | X | 95.52164 | 29.71262 | 342.27788 | 7.38730 | 0.1622967 | 0.30258343 | 2.1973840 | 20 | — | — |
| 336567 2009 $SX_{56}$ | 17.7 | X | 134.64065 | 10.30559 | 339.72847 | 6.65450 | 0.1964865 | 0.30718413 | 2.1753887 | 20 | 1 2.8 | 20.4 |
| 336568 2009 $SF_{67}$ | 17.8 | X | 36.00549 | 194.58728 | 228.52830 | 3.15353 | 0.1948208 | 0.29072108 | 2.2567582 | 20 | — | — |
| 336569 2009 $SV_{111}$ | 18.1 | X | 217.22441 | 9.86292 | 308.75975 | 3.24264 | 0.1172007 | 0.32239737 | 2.1064042 | 20 | 2 8.8 | 21.0 |
| 336570 2009 $SA_{115}$ | 18.7 | X | 168.77526 | 76.04600 | 239.76359 | 2.91528 | 0.1715909 | 0.31056221 | 2.1595850 | 20 | — | — |
| 336571 2009 $SB_{125}$ | 17.2 | X | 234.63494 | 291.66651 | 218.91001 | 7.82117 | 0.0937509 | 0.27735765 | 2.3286772 | 20 | 11 26.9 | 20.1 |
| 336572 2009 $SQ_{125}$ | 18.0 | X | 145.61993 | 89.54945 | 213.70750 | 6.93178 | 0.1762930 | 0.30063362 | 2.2068747 | 20 | — | — |
| 336573 2009 $SS_{125}$ | 17.8 | X | 105.62844 | 3.08674 | 277.03817 | 3.38227 | 0.0566100 | 0.28105346 | 2.3082177 | 20 | 12 15.2 | 20.9 |
| 336574 2009 $SU_{127}$ | 17.8 | X | 169.63298 | 336.64259 | 346.66789 | 5.13599 | 0.1415465 | 0.31045048 | 2.1601032 | 20 | — | — |
| 336575 2009 $SM_{129}$ | 16.8 | X | 253.11630 | 110.20993 | 25.03263 | 7.50063 | 0.0713350 | 0.27797979 | 2.3252014 | 20 | 12 4.5 | 19.6 |
| 336576 2009 $SB_{138}$ | 18.0 | X | 173.95435 | 272.34215 | 19.95954 | 2.98670 | 0.2076467 | 0.30510442 | 2.1852630 | 20 | — | — |
| 336577 2009 $SR_{172}$ | 18.6 | X | 152.15056 | 247.60939 | 95.49833 | 2.15134 | 0.1215012 | 0.31289180 | 2.1488525 | 20 | 1 2.5 | 20.9 |
| 336578 2009 $SB_{173}$ | 17.4 | X | 189.81134 | 231.30724 | 321.58061 | 5.42389 | 0.1024856 | 0.28146417 | 2.3059717 | 20 | 11 24.2 | 20.6 |
| 336579 2009 $SL_{183}$ | 17.0 | X | 73.93527 | 270.93266 | 315.86603 | 5.67173 | 0.1036826 | 0.25823827 | 2.4422436 | 20 | 8 27.4 | 20.2 |
| 336580 2009 $SY_{185}$ | 17.7 | X | 218.65967 | 11.96639 | 162.50481 | 5.16744 | 0.1314874 | 0.27811184 | 2.3244653 | 20 | 12 2.6 | 20.7 |
| 336581 2009 $SO_{186}$ | 17.3 | X | 70.34789 | 146.50614 | 83.69882 | 3.77029 | 0.1351163 | 0.25783622 | 2.4447818 | 20 | 9 4.2 | 20.5 |
| 336582 2009 $SG_{267}$ | 17.2 | X | 2.78930 | 336.22308 | 344.18217 | 3.62817 | 0.0314733 | 0.26134044 | 2.4228785 | 20 | 9 15.7 | 20.1 |
| 336583 2009 $SG_{290}$ | 18.0 | X | 125.00841 | 295.42498 | 57.82415 | 5.19693 | 0.2055022 | 0.30480013 | 2.1867172 | 20 | — | — |
| 336584 2009 $SD_{328}$ | 17.9 | X | 101.13089 | 168.42424 | 203.11855 | 5.57882 | 0.1193541 | 0.30131402 | 2.2035512 | 20 | — | — |
| 336585 2009 $SW_{339}$ | 15.1 | X | 238.16361 | 88.72267 | 105.44255 | 17.14675 | 0.0746595 | 0.17441524 | 3.1725837 | 20 | — | — |
| 336586 2009 $SV_{343}$ | 18.0 | X | 150.19227 | 94.48592 | 171.34566 | 7.80755 | 0.1132232 | 0.28865949 | 2.2674906 | 20 | — | — |
| 336587 2009 $SX_{346}$ | 18.0 | X | 144.79508 | 192.32662 | 92.53089 | 3.44854 | 0.0897447 | 0.29341190 | 2.2429396 | 20 | — | — |
| 336588 2009 $SK_{355}$ | 17.4 | X | 53.89848 | 282.74336 | 37.00811 | 7.44925 | 0.1373477 | 0.27273955 | 2.3548901 | 20 | 12 12.3 | 20.7 |
| 336589 2009 $SP_{356}$ | 17.6 | X | 151.57564 | 105.83296 | 122.48651 | 4.09677 | 0.1679112 | 0.27612618 | 2.3355956 | 20 | 11 26.5 | 21.4 |
| 336590 2009 $SZ_{358}$ | 17.0 | X | 355.09291 | 203.59638 | 217.03847 | 6.21292 | 0.0767609 | 0.27847927 | 2.3224202 | 20 | — | — |
| 336591 2009 $SM_{360}$ | 17.6 | X | 100.42764 | 229.75606 | 118.91690 | 5.81109 | 0.1552127 | 0.29365055 | 2.2417242 | 20 | — | — |
| 336592 2009 $SZ_{361}$ | 15.6 | X | 286.38531 | 296.33453 | 255.65905 | 8.67752 | 0.1104742 | 0.18636969 | 3.0354228 | 20 | — | — |
| 336593 2009 $SH_{364}$ | 17.3 | X | 259.76116 | 355.02898 | 139.71042 | 6.38168 | 0.0318998 | 0.28028220 | 2.3124501 | 20 | 12 21.0 | 20.0 |
| 336594 2009 $TY_{1}$ | 17.7 | X | 16.04142 | 37.62583 | 25.76528 | 3.19850 | 0.1913415 | 0.28829058 | 2.2694245 | 20 | — | — |
| 336595 2009 $TJ_{9}$ | 17.9 | X | 74.90401 | 154.37780 | 197.08234 | 3.24768 | 0.1655352 | 0.29018897 | 2.2595162 | 20 | — | — |
| 336596 2009 $TX_{13}$ | 17.6 | X | 42.10341 | 70.13344 | 315.95647 | 5.46004 | 0.1124144 | 0.29196807 | 2.2503279 | 20 | — | — |
| 336597 2009 $TF_{14}$ | 18.2 | X | 74.22381 | 220.31751 | 199.67386 | 1.34118 | 0.1610529 | 0.30281422 | 2.1962673 | 20 | — | — |
| 336598 2009 $TE_{21}$ | 17.6 | X | 87.92297 | 331.55573 | 57.54513 | 5.50762 | 0.1495553 | 0.30141509 | 2.2030586 | 20 | — | — |
| 336599 2009 $TB_{28}$ | 17.1 | X | 38.38223 | 271.96838 | 92.86630 | 10.35680 | 0.1488273 | 0.28170568 | 2.3046535 | 20 | — | — |
| 336600 2009 $TW_{35}$ | 17.6 | X | 53.88841 | 235.81562 | 198.01618 | 5.65383 | 0.1024951 | 0.30256867 | 2.1974555 | 20 | — | — |
| 336601 2009 $TQ_{39}$ | 17.8 | X | 32.64748 | 187.94247 | 213.03380 | 6.11697 | 0.1512502 | 0.28892336 | 2.2661098 | 20 | — | — |
| 336602 2009 $TY_{42}$ | 17.0 | X | 346.25107 | 136.40316 | 280.12779 | 4.23461 | 0.0318969 | 0.27862637 | 2.3216027 | 20 | — | — |
| 336603 2009 $TS_{47}$ | 18.2 | X | 146.50373 | 180.25533 | 141.24912 | 4.40097 | 0.1821199 | 0.30426905 | 2.1892610 | 20 | — | — |
| 336604 2009 $UL_{5}$ | 17.0 | X | 123.36653 | 14.80432 | 320.59010 | 6.32449 | 0.2168350 | 0.30213089 | 2.1995776 | 20 | — | — |
| 336605 2009 $UM_{5}$ | 16.4 | X | 278.83508 | 239.21193 | 225.31583 | 9.65911 | 0.1713772 | 0.27075347 | 2.3663920 | 20 | 11 19.0 | 18.4 |
| 336606 2009 $UX_{26}$ | 17.7 | X | 43.48226 | 228.70713 | 210.82441 | 5.51552 | 0.1359691 | 0.29703578 | 2.2246595 | 20 | — | — |
| 336607 2009 $UT_{38}$ | 17.0 | X | 102.64930 | 65.00030 | 214.73768 | 6.80558 | 0.1106657 | 0.27505309 | 2.3416664 | 20 | 12 12.7 | 20.4 |
| 336608 2009 $UD_{51}$ | 17.1 | X | 277.76808 | 187.20236 | 250.68426 | 2.68100 | 0.1286150 | 0.26594300 | 2.3948428 | 20 | 10 11.5 | 19.6 |
| 336609 2009 $UV_{56}$ | 17.5 | X | 40.08104 | 335.53230 | 318.91841 | 1.64864 | 0.1222209 | 0.26536988 | 2.3982896 | 20 | 10 18.4 | 20.2 |
| 336610 2009 $UT_{58}$ | 18.1 | X | 34.70726 | 203.60384 | 252.38446 | 2.95553 | 0.0609671 | 0.30124340 | 2.2038956 | 20 | — | — |
| 336611 2009 $UK_{87}$ | 17.7 | X | 93.46259 | 140.00284 | 262.13091 | 5.32789 | 0.1500255 | 0.30288696 | 2.1959157 | 20 | 1 7.3 | 19.6 |
| 336612 2009 $UL_{94}$ | 18.2 | X | 117.78387 | 97.62191 | 287.53896 | 5.62031 | 0.1566941 | 0.30762376 | 2.1733156 | 20 | 1 21.3 | 20.6 |
| 336613 2009 $UZ_{117}$ | 17.8 | X | 76.96475 | 54.49276 | 310.13237 | 3.32411 | 0.2114523 | 0.29383155 | 2.2408035 | 20 | — | — |
| 336614 2009 $UC_{140}$ | 17.6 | X | 35.32150 | 199.97751 | 215.29811 | 1.70820 | 0.1387874 | 0.28806324 | 2.2706184 | 20 | — | — |
| 336615 2009 $VP_{2}$ | 15.7 | X | 150.03052 | 176.15992 | 326.12313 | 12.02384 | 0.1986332 | 0.24167128 | 2.5526192 | 20 | 8 6.3 | 20.0 |
| 336616 2009 $VB_{23}$ | 17.3 | X | 142.78803 | 48.63581 | 217.69658 | 4.51211 | 0.0671211 | 0.27811915 | 2.3244246 | 20 | — | — |
| 336617 2009 $VP_{23}$ | 16.7 | X | 348.69490 | 296.98907 | 79.52254 | 6.85094 | 0.1589955 | 0.26860166 | 2.3790136 | 20 | 11 29.8 | 18.8 |
| 336618 2009 $VV_{23}$ | 16.6 | X | 67.24979 | 282.67266 | 265.28809 | 10.28565 | 0.1376047 | 0.23219301 | 2.6216213 | 20 | 6 28.9 | 20.0 |
| 336619 2009 $VH_{40}$ | 17.7 | X | 13.80226 | 189.62297 | 227.55344 | 6.27700 | 0.0746190 | 0.28570296 | 2.2831067 | 20 | — | — |
| 336620 2009 $VA_{41}$ | 16.9 | X | 73.77359 | 62.75323 | 219.95588 | 8.47210 | 0.0444339 | 0.26625038 | 2.3929992 | 20 | 11 5.5 | 20.0 |
| 336621 2009 $VH_{45}$ | 17.2 | X | 346.32800 | 76.82181 | 11.55647 | 7.04586 | 0.1317672 | 0.28307050 | 2.2972397 | 20 | — | — |
| 336622 2009 $VJ_{49}$ | 17.0 | X | 116.45930 | 15.02562 | 270.65708 | 4.14456 | 0.1315580 | 0.28035393 | 2.3120557 | 20 | — | — |
| 336623 2009 $VK_{49}$ | 17.9 | X | 100.94813 | 14.70769 | 18.56782 | 3.51205 | 0.1895656 | 0.30301426 | 2.1953006 | 20 | 1 15.2 | 19.9 |
| 336624 2009 $VO_{55}$ | 17.8 | X | 79.99425 | 39.87556 | 263.96316 | 4.80638 | 0.1737829 | 0.27749946 | 2.3278838 | 20 | 12 24.5 | 21.4 |
| 336625 2009 $VO_{58}$ | 17.3 | X | 64.75999 | 176.15982 | 156.83521 | 3.50008 | 0.2239310 | 0.28204282 | 2.3028166 | 20 | — | — |
| 336626 2009 $VG_{63}$ | 16.3 | X | 56.84212 | 314.20372 | 249.23175 | 6.84636 | 0.1063842 | 0.23421945 | 2.6064781 | 20 | 6 30.1 | 19.4 |
| 336627 2009 $VO_{66}$ | 17.8 | X | 54.28062 | 85.60408 | 260.88701 | 3.62124 | 0.1972381 | 0.28139819 | 2.3063321 | 20 | — | — |
| 336628 2009 $VF_{75}$ | 16.8 | X | 275.02382 | 225.12638 | 251.96784 | 11.46954 | 0.0802088 | 0.27398880 | 2.3477265 | 20 | 12 12.2 | 19.2 |
| 336629 2009 $VG_{88}$ | 16.6 | X | 25.02001 | 343.85668 | 270.87540 | 7.92647 | 0.1252846 | 0.24182532 | 2.5515351 | 20 | 7 24.5 | 19.4 |
| 336630 2009 $VJ_{103}$ | 16.4 | X | 294.91532 | 244.51206 | 89.43138 | 14.18485 | 0.1851042 | 0.23633524 | 2.5908985 | 20 | 5 30.5 | 19.7 |
| 336631 2009 $VK_{103}$ | 17.1 | X | 294.85531 | 155.07882 | 285.92688 | 5.66450 | 0.1058486 | 0.26101496 | 2.4248923 | 20 | 11 16.3 | 19.8 |
| 336632 2009 $VV_{105}$ | 17.3 | X | 143.29468 | 37.59864 | 279.31442 | 3.44611 | 0.2314506 | 0.30077109 | 2.2062022 | 20 | — | — |
| 336633 2009 $VO_{114}$ | 17.2 | X | 80.66170 | 294.40223 | 80.12047 | 9.49759 | 0.1688442 | 0.28720126 | 2.2751594 | 20 | — | — |
| 336634 2009 $WE_{20}$ | 17.5 | X | 20.27104 | 117.59439 | 273.26401 | 5.88994 | 0.1286125 | 0.27817030 | 2.3241396 | 20 | — | — |
| 336635 2009 $WJ_{20}$ | 16.8 | X | 322.86379 | 66.59863 | 282.13034 | 5.18694 | 0.0972672 | 0.25212497 | 2.4815639 | 20 | 8 19.6 | 19.4 |
| 336636 2009 $WE_{29}$ | 18.1 | X | 71.32875 | 284.85355 | 97.55539 | 1.66220 | 0.1176949 | 0.29083413 | 2.2561734 | 20 | — | — |
| 336637 2009 $WD_{35}$ | 17.2 | X | 288.30388 | 251.68694 | 230.73193 | 6.66326 | 0.0655694 | 0.27742789 | 2.3282841 | 20 | — | — |
| 336638 2009 $WL_{43}$ | 18.0 | X | 352.70400 | 271.23998 | 142.53976 | 1.69325 | 0.1725544 | 0.27496847 | 2.3421469 | 20 | — | — |
| 336639 2009 $WY_{43}$ | 16.1 | X | 126.23371 | 173.98981 | 282.88728 | 12.50647 | 0.1570514 | 0.21845850 | 2.7303821 | 20 | 5 10.9 | 20.5 |
| 336640 2009 $WF_{46}$ | 16.8 | X | 91.81286 | 58.96041 | 272.43041 | 5.54080 | 0.1343202 | 0.28359320 | 2.2944160 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336641 2009 $WY_{74}$ | 18.3 | $X$ | 117.59249 | 94.57132 | 212.67049 | 5.41564 | 0.1993663 | 0.28705840 | 2.2759141 | 20 | — | — |
| 336642 2009 $WR_{77}$ | 17.2 | $X$ | 26.97633 | 305.04150 | 302.77744 | 3.70719 | 0.0549403 | 0.24106734 | 2.5568807 | 20 | 7 10.9 | 20.0 |
| 336643 2009 $WP_{87}$ | 17.0 | $X$ | 107.53797 | 27.00784 | 277.27946 | 6.38040 | 0.1272969 | 0.28093471 | 2.3088681 | 20 | — | — |
| 336644 2009 $WB_{98}$ | 17.9 | $X$ | 247.33423 | 301.22711 | 212.00713 | 4.22188 | 0.0800262 | 0.27930379 | 2.3178474 | 20 | 12 21.3 | 20.5 |
| 336645 2009 $WV_{116}$ | 17.7 | $X$ | 76.35870 | 32.61118 | 266.07567 | 3.36891 | 0.1017481 | 0.27234613 | 2.3571573 | 20 | 12 7.2 | 20.7 |
| 336646 2009 $WY_{163}$ | 17.0 | $X$ | 69.44881 | 32.06185 | 268.09439 | 8.25798 | 0.1103934 | 0.26704562 | 2.3882461 | 20 | 11 30.9 | 20.3 |
| 336647 2009 $WZ_{164}$ | 17.6 | $X$ | 64.99593 | 274.93734 | 64.25374 | 1.84316 | 0.1362937 | 0.27822092 | 2.3238577 | 20 | — | — |
| 336648 2009 $WY_{165}$ | 17.4 | $X$ | 190.08702 | 289.00619 | 260.49278 | 5.98491 | 0.0411795 | 0.26585943 | 2.3953446 | 20 | 11 24.9 | 20.6 |
| 336649 2009 $WT_{206}$ | 18.4 | $X$ | 316.50170 | 72.93142 | 21.25157 | 2.90644 | 0.1544455 | 0.27543900 | 2.3394787 | 20 | — | — |
| 336650 2009 $WA_{218}$ | 17.3 | $X$ | 42.60114 | 231.10407 | 131.82199 | 6.22613 | 0.1855411 | 0.27957506 | 2.3163478 | 20 | — | — |
| 336651 2009 $WL_{259}$ | 16.3 | $X$ | 98.06490 | 215.52885 | 267.65187 | 7.28567 | 0.1522302 | 0.21807081 | 2.7336172 | 20 | 5 14.3 | 20.2 |
| 336652 2009 $WP_{259}$ | 16.2 | $X$ | 209.59977 | 316.56086 | 107.12202 | 14.73410 | 0.2505903 | 0.23494930 | 2.6010774 | 20 | 6 16.6 | 20.8 |
| 336653 2009 $WS_{263}$ | 17.8 | $X$ | 324.86266 | 40.63755 | 21.20560 | 2.90452 | 0.1682266 | 0.26483974 | 2.4014890 | 20 | 12 19.7 | 19.7 |
| 336654 2009 $XX_{2}$ | 17.3 | $X$ | 30.64286 | 340.37538 | 51.83799 | 3.13430 | 0.2068656 | 0.27947043 | 2.3169259 | 20 | — | — |
| 336655 2009 $XC_{7}$ | 16.4 | $X$ | 175.70557 | 119.97625 | 350.96418 | 6.41277 | 0.1231016 | 0.24093537 | 2.5578143 | 20 | 7 21.1 | 20.3 |
| 336656 2009 $XW_{18}$ | 16.3 | $X$ | 204.56758 | 236.21487 | 121.05751 | 6.49061 | 0.1105067 | 0.21551293 | 2.7552045 | 20 | 3 29.0 | 20.6 |
| 336657 2009 $XX_{18}$ | 16.2 | $X$ | 158.63007 | 299.63923 | 111.45929 | 7.42557 | 0.0563999 | 0.21593882 | 2.7515805 | 20 | 4 15.9 | 20.3 |
| 336658 2009 $XN_{19}$ | 16.4 | $X$ | 173.62415 | 336.89148 | 117.79243 | 5.74330 | 0.1431139 | 0.23081268 | 2.6320629 | 20 | 6 25.8 | 20.6 |
| 336659 2009 $XP_{21}$ | 15.9 | $X$ | 40.98862 | 22.61015 | 96.66066 | 7.44943 | 0.0500263 | 0.20353728 | 2.8622445 | 20 | 2 10.8 | 19.7 |
| 336660 2009 $XF_{24}$ | 16.1 | $X$ | 219.30576 | 179.47620 | 247.78068 | 13.14077 | 0.1265024 | 0.24114403 | 2.5563386 | 20 | 7 5.8 | 20.0 |
| 336661 2009 $XJ_{24}$ | 17.5 | $X$ | 126.52416 | 208.17180 | 158.53232 | 6.16297 | 0.3094683 | 0.30457275 | 2.1878054 | 20 | 1 29.6 | 20.5 |
| 336662 2009 $XV_{24}$ | 17.0 | $X$ | 57.34385 | 309.15069 | 62.14221 | 6.68843 | 0.2246100 | 0.28285916 | 2.2983838 | 20 | — | — |
| 336663 2009 $YH_{2}$ | 16.8 | $X$ | 304.56707 | 76.74861 | 250.40414 | 5.29066 | 0.0972706 | 0.23438296 | 2.6052657 | 20 | 6 17.4 | 19.9 |
| 336664 2009 $YG_{13}$ | 15.8 | $X$ | 181.28959 | 331.58843 | 260.30902 | 8.45403 | 0.1145111 | 0.17093069 | 3.2155556 | 20 | 12 11.7 | 20.8 |
| 336665 2009 $YY_{13}$ | 16.2 | $X$ | 50.64947 | 45.38906 | 73.73241 | 7.42306 | 0.1080411 | 0.20453253 | 2.8529519 | 20 | 3 2.3 | 19.7 |
| 336666 2009 $YR_{17}$ | 15.3 | $X$ | 218.00679 | 295.07451 | 279.66078 | 16.94157 | 0.2112523 | 0.17456371 | 3.1707847 | 20 | 12 19.2 | 20.2 |
| 336667 2009 $YY_{19}$ | 16.3 | $X$ | 64.45349 | 246.30623 | 291.61149 | 5.14221 | 0.1349158 | 0.21881195 | 2.7274409 | 20 | 6 10.2 | 19.7 |
| 336668 2009 $YS_{22}$ | 16.6 | $X$ | 139.54477 | 326.42005 | 131.56438 | 3.02019 | 0.0392751 | 0.22356891 | 2.6886139 | 20 | 5 19.4 | 20.4 |
| 336669 2009 $YN_{24}$ | 17.2 | $X$ | 21.80765 | 27.79722 | 312.30401 | 6.06957 | 0.1195456 | 0.26043081 | 2.4285170 | 20 | 11 21.7 | 20.2 |
| 336670 2009 $YZ_{24}$ | 16.6 | $X$ | 337.97390 | 212.73981 | 140.95268 | 7.29457 | 0.1927131 | 0.25212943 | 2.4815347 | 20 | 10 3.0 | 18.6 |
| 336671 2009 $YS_{25}$ | 15.7 | $X$ | 192.83827 | 90.74914 | 131.59142 | 22.94628 | 0.0262557 | 0.16963353 | 3.2319273 | 20 | 12 21.8 | 20.7 |
| 336672 2010 $AW_{7}$ | 16.4 | $X$ | 351.18641 | 327.31141 | 295.32445 | 6.06032 | 0.0374185 | 0.22397940 | 2.6853279 | 20 | 6 4.3 | 19.8 |
| 336673 2010 $AY_{18}$ | 16.1 | $X$ | 307.00637 | 35.86450 | 292.85028 | 10.83789 | 0.0812686 | 0.23300535 | 2.6155245 | 20 | 6 26.5 | 19.3 |
| 336674 2010 $AK_{24}$ | 15.4 | $X$ | 241.90645 | 72.64776 | 117.24170 | 14.55266 | 0.0482658 | 0.17362742 | 3.1821734 | 20 | — | — |
| 336675 2010 $AP_{26}$ | 17.0 | $X$ | 92.52545 | 162.77598 | 336.36317 | 4.46152 | 0.0572990 | 0.22011451 | 2.7166703 | 20 | 5 13.9 | 20.7 |
| 336676 2010 $AY_{31}$ | 17.0 | $X$ | 184.01900 | 192.42446 | 284.87581 | 2.97990 | 0.1925563 | 0.23563458 | 2.5960320 | 20 | 8 2.1 | 21.2 |
| 336677 2010 $AF_{32}$ | 17.8 | $X$ | 323.68504 | 138.90028 | 297.28601 | 2.53551 | 0.1747632 | 0.26466023 | 2.4025748 | 20 | — | — |
| 336678 2010 $AR_{37}$ | 16.6 | $X$ | 102.34542 | 31.99578 | 99.45430 | 4.58628 | 0.1420704 | 0.21727014 | 2.7403289 | 20 | 5 30.5 | 20.6 |
| 336679 2010 $AM_{39}$ | 15.9 | $X$ | 180.74315 | 148.19386 | 310.33322 | 32.30501 | 0.1579164 | 0.23256546 | 2.6188215 | 20 | 7 14.3 | 20.3 |
| 336680 Pavolpaulik | 17.2 | $X$ | 64.03835 | 88.01369 | 307.66882 | 7.02552 | 0.2310735 | 0.28706530 | 2.2758777 | 20 | — | — |
| 336681 2010 $AB_{44}$ | 15.7 | $X$ | 142.18984 | 104.49754 | 290.70974 | 11.98984 | 0.0321805 | 0.20654922 | 2.8343513 | 20 | 2 25.9 | 19.9 |
| 336682 2010 $AC_{44}$ | 16.8 | $X$ | 207.66240 | 155.87435 | 289.09773 | 7.99564 | 0.1319809 | 0.23780765 | 2.5801929 | 20 | 7 17.8 | 20.8 |
| 336683 2010 $AA_{55}$ | 17.2 | $X$ | 234.27791 | 59.02314 | 17.35810 | 3.50833 | 0.1430291 | 0.23957546 | 2.5674845 | 20 | 8 5.4 | 20.9 |
| 336684 2010 $AF_{56}$ | 15.9 | $X$ | 15.38419 | 355.51011 | 124.57168 | 10.39958 | 0.0225227 | 0.18874120 | 3.0099428 | 20 | 1 8.9 | 20.1 |
| 336685 2010 $AK_{59}$ | 16.8 | $X$ | 212.19288 | 126.61676 | 335.85392 | 11.86292 | 0.1282105 | 0.24305293 | 2.5429363 | 20 | 8 17.2 | 20.6 |
| 336686 2010 $AU_{59}$ | 15.8 | $X$ | 51.07241 | 216.51068 | 332.20173 | 12.71523 | 0.0958185 | 0.21883456 | 2.7272531 | 20 | 5 26.9 | 19.5 |
| 336687 2010 $AB_{64}$ | 16.6 | $X$ | 211.64348 | 260.99963 | 86.11944 | 8.05390 | 0.1245638 | 0.21521842 | 2.7577174 | 20 | 3 24.6 | 21.0 |
| 336688 2010 $AU_{66}$ | 16.3 | $X$ | 35.22908 | 309.73201 | 152.46681 | 6.82866 | 0.0597271 | 0.18941375 | 3.0028137 | 20 | 1 12.7 | 20.2 |
| 336689 2010 $AF_{72}$ | 16.6 | $X$ | 261.29682 | 154.74008 | 247.49376 | 7.43933 | 0.1855510 | 0.24390549 | 2.5370070 | 20 | 7 14.6 | 20.1 |
| 336690 2010 $AE_{75}$ | 17.4 | $X$ | 292.86709 | 195.82864 | 259.65336 | 4.33640 | 0.1949691 | 0.26600903 | 2.3944465 | 20 | 11 29.7 | 19.1 |
| 336691 2010 $AW_{79}$ | 15.5 | $X$ | 219.94515 | 350.82181 | 300.96717 | 11.30778 | 0.1082909 | 0.19126798 | 2.9833751 | 20 | 1 25.1 | 20.1 |
| 336692 2010 $AD_{80}$ | 15.3 | $X$ | 225.78967 | 273.36708 | 295.34878 | 13.69496 | 0.1080092 | 0.17076198 | 3.2176732 | 20 | 12 31.4 | 20.0 |
| 336693 2010 $AA_{81}$ | 16.1 | $X$ | 146.04182 | 171.69037 | 298.93018 | 11.08230 | 0.1421857 | 0.22300853 | 2.6931160 | 20 | 6 19.5 | 20.5 |
| 336694 Fey | 15.6 | $X$ | 164.31010 | 324.47693 | 354.34993 | 8.68573 | 0.0615826 | 0.17425955 | 3.1744731 | 20 | 1 3.9 | 20.4 |
| 336695 2010 $AN_{103}$ | 15.7 | $X$ | 14.27015 | 297.39694 | 170.22607 | 10.46672 | 0.0477416 | 0.17557501 | 3.1585972 | 20 | — | — |
| 336696 2010 $BZ_{1}$ | 16.3 | $X$ | 142.81431 | 285.55618 | 142.58401 | 9.84848 | 0.1491366 | 0.21548977 | 2.7554018 | 20 | 4 27.3 | 20.7 |
| 336697 2010 $BG_{53}$ | 15.4 | $X$ | 65.69931 | 288.54141 | 143.00885 | 16.13348 | 0.1071209 | 0.17854357 | 3.1234885 | 20 | 1 23.9 | 19.4 |
| 336698 Melbourne | 15.4 | $X$ | 278.01529 | 272.39126 | 284.53640 | 10.60262 | 0.0221895 | 0.18136156 | 3.0910490 | 20 | — | — |
| 336699 2010 $CG_{1}$ | 15.2 | $X$ | 2.81055 | 332.87735 | 118.97846 | 23.31097 | 0.0864273 | 0.18031376 | 3.1030121 | 20 | — | — |
| 336700 2010 $CK_{28}$ | 16.2 | $X$ | 108.84921 | 158.60791 | 282.82172 | 11.05619 | 0.0115994 | 0.20549377 | 2.8440481 | 20 | 3 10.4 | 20.4 |
| 336701 2010 $CP_{32}$ | 16.4 | $X$ | 317.94618 | 188.26504 | 109.98662 | 6.39855 | 0.0400701 | 0.22148971 | 2.7054137 | 20 | 6 5.3 | 19.9 |
| 336702 2010 $CN_{39}$ | 15.8 | $X$ | 200.93666 | 142.40922 | 145.38376 | 5.62847 | 0.1238760 | 0.18077753 | 3.0977028 | 20 | 1 4.2 | 20.7 |
| 336703 2010 $CU_{41}$ | 15.5 | $X$ | 300.13835 | 205.95867 | 315.75473 | 15.07654 | 0.0511624 | 0.18047924 | 3.1011151 | 20 | — | — |
| 336704 2010 $CR_{43}$ | 16.3 | $X$ | 195.52723 | 274.00060 | 136.22299 | 13.98619 | 0.1919454 | 0.22540336 | 2.6740065 | 20 | 5 23.9 | 21.0 |
| 336705 2010 $CG_{56}$ | 16.2 | $X$ | 159.54509 | 301.68665 | 161.11819 | 11.22463 | 0.1340733 | 0.22611127 | 2.6684224 | 20 | 6 22.4 | 20.6 |
| 336706 2010 $CD_{60}$ | 15.1 | $X$ | 204.90259 | 64.05777 | 163.47482 | 16.00770 | 0.0383854 | 0.16957009 | 3.2327334 | 20 | — | — |
| 336707 2010 $CR_{70}$ | 16.6 | $X$ | 276.16852 | 32.70491 | 308.37740 | 12.48765 | 0.1930815 | 0.22990321 | 2.6389998 | 20 | 5 7.0 | 20.6 |
| 336708 2010 $CY_{74}$ | 16.7 | $X$ | 236.56001 | 227.65133 | 144.96005 | 5.48257 | 0.0493718 | 0.21972085 | 2.7199142 | 20 | 5 25.6 | 20.5 |
| 336709 2010 $CJ_{85}$ | 16.3 | $X$ | 268.12117 | 50.01380 | 155.77993 | 1.71385 | 0.1098331 | 0.17767673 | 3.1336394 | 20 | — | — |
| 336710 2010 $CE_{99}$ | 16.7 | $X$ | 192.30372 | 278.00653 | 146.49635 | 5.38047 | 0.1141287 | 0.21901853 | 2.7257257 | 20 | 6 6.7 | 21.0 |
| 336711 2010 $CD_{100}$ | 16.7 | $X$ | 145.03013 | 333.32437 | 127.28451 | 3.29469 | 0.0749555 | 0.21984081 | 2.7189246 | 20 | 6 1.2 | 20.6 |
| 336712 2010 $CQ_{120}$ | 15.3 | $X$ | 223.08800 | 269.70216 | 332.61701 | 13.55402 | 0.0619730 | 0.17968800 | 3.1102121 | 20 | — | — |
| 336713 2010 $CF_{127}$ | 15.5 | $X$ | 125.17024 | 283.71536 | 331.85175 | 8.83826 | 0.0114483 | 0.15070179 | 3.4972265 | 20 | 11 4.5 | 20.7 |
| 336714 2010 $CG_{127}$ | 15.9 | $X$ | 255.47747 | 278.60576 | 287.64330 | 3.27007 | 0.1087462 | 0.17111091 | 3.2132973 | 20 | — | — |
| 336715 2010 $CN_{129}$ | 16.3 | $X$ | 132.51789 | 139.08440 | 329.87617 | 11.21586 | 0.0990188 | 0.21651985 | 2.7466558 | 20 | 5 28.0 | 20.6 |
| 336716 2010 $CP_{137}$ | 16.2 | $X$ | 296.93630 | 73.48352 | 141.50680 | 2.43576 | 0.0516771 | 0.19199545 | 2.9758344 | 20 | 1 21.7 | 20.5 |
| 336717 2010 $CE_{139}$ | 16.1 | $X$ | 80.97534 | 307.93161 | 110.37207 | 3.38618 | 0.0826931 | 0.18776449 | 3.0203718 | 20 | 1 24.8 | 20.0 |
| 336718 2010 $CZ_{142}$ | 16.1 | $X$ | 316.85963 | 254.22262 | 304.25592 | 10.05445 | 0.0376848 | 0.19779518 | 2.9173749 | 20 | 1 27.2 | 20.1 |
| 336719 2010 $CO_{149}$ | 16.5 | $X$ | 219.02227 | 235.27544 | 142.91235 | 5.09563 | 0.0891886 | 0.21488251 | 2.7605906 | 20 | 5 9.1 | 20.7 |
| 336720 2010 $CK_{154}$ | 16.7 | $X$ | 289.95721 | 141.08403 | 59.55939 | 1.88109 | 0.0795750 | 0.18324579 | 3.0698233 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336721 2010 $CM_{159}$ | 16.5 | $X$ | 103.11577 | 123.93062 | 337.84024 | 11.26953 | 0.1043014 | 0.20335410 | 2.8639632 | 20 | 4 12.6 | 20.7 |
| 336722 2010 $CW_{171}$ | 16.1 | $X$ | 288.10406 | 190.84351 | 136.21935 | 15.95182 | 0.3028518 | 0.23130018 | 2.6283633 | 20 | 4 28.2 | 20.1 |
| 336723 2010 $CD_{180}$ | 16.0 | $X$ | 119.82581 | 175.58902 | 329.30152 | 11.67671 | 0.0519153 | 0.22557930 | 2.6726160 | 20 | 6 28.3 | 19.9 |
| 336724 2010 $DP_{8}$ | 15.6 | $X$ | 264.58582 | 224.05468 | 339.34936 | 8.79965 | 0.0383986 | 0.17491990 | 3.1664787 | 20 | — | — |
| 336725 2010 $DE_{31}$ | 15.7 | $X$ | 102.17477 | 292.71984 | 129.18761 | 15.61889 | 0.0736653 | 0.17706106 | 3.1408992 | 20 | 2 27.3 | 20.2 |
| 336726 2010 $DW_{34}$ | 17.2 | $X$ | 273.45978 | 290.70583 | 123.27838 | 2.75104 | 0.1557926 | 0.24524821 | 2.5277385 | 20 | 8 24.5 | 20.2 |
| 336727 2010 $DR_{43}$ | 16.1 | $X$ | 350.02468 | 279.73432 | 184.54070 | 7.87173 | 0.0228923 | 0.17253820 | 3.1955519 | 20 | — | — |
| 336728 2010 $DD_{75}$ | 16.2 | $X$ | 259.24757 | 58.99572 | 169.61611 | 11.62331 | 0.0366840 | 0.18008070 | 3.1056888 | 20 | — | — |
| 336729 2010 $DE_{76}$ | 17.4 | $X$ | 322.98065 | 32.50470 | 20.30122 | 1.55261 | 0.1695433 | 0.25697062 | 2.4502688 | 20 | 11 28.3 | 19.3 |
| 336730 2010 $DL_{77}$ | 15.7 | $X$ | 58.76842 | 275.00753 | 175.11027 | 7.81621 | 0.1383411 | 0.18779442 | 3.0200509 | 20 | 2 6.9 | 19.4 |
| 336731 2010 $DO_{78}$ | 15.3 | $X$ | 269.38094 | 282.36801 | 268.27991 | 10.89019 | 0.1226713 | 0.17287615 | 3.1913860 | 20 | — | — |
| 336732 2010 $EA_{14}$ | 16.3 | $X$ | 272.90088 | 22.17156 | 343.35163 | 7.58958 | 0.0933389 | 0.24222185 | 2.5487496 | 20 | 6 25.8 | 19.7 |
| 336733 2010 $EW_{21}$ | 15.6 | $X$ | 281.78640 | 283.73692 | 258.08260 | 4.49764 | 0.0975636 | 0.17420044 | 3.1751912 | 20 | — | — |
| 336734 2010 $EG_{35}$ | 15.7 | $X$ | 29.41169 | 256.18577 | 177.29397 | 17.56021 | 0.0890740 | 0.17722465 | 3.1389662 | 20 | — | — |
| 336735 2010 $EG_{36}$ | 15.0 | $X$ | 317.59475 | 194.98186 | 287.15223 | 26.10244 | 0.1440178 | 0.17206561 | 3.2014004 | 20 | — | — |
| 336736 2010 $EK_{45}$ | 15.9 | $X$ | 104.99331 | 276.18596 | 118.03033 | 4.53486 | 0.1238133 | 0.18549389 | 3.0449697 | 20 | 2 1.1 | 20.0 |
| 336737 2010 $EE_{72}$ | 16.7 | $X$ | 214.23499 | 228.47700 | 171.17534 | 11.75934 | 0.1915653 | 0.21905600 | 2.7254149 | 20 | 5 25.6 | 21.4 |
| 336738 2010 $EV_{86}$ | 15.8 | $X$ | 231.67731 | 347.42970 | 267.49332 | 3.95892 | 0.0847098 | 0.17796133 | 3.1302976 | 20 | — | — |
| 336739 2010 $EU_{104}$ | 15.2 | $X$ | 325.79262 | 293.85600 | 258.11353 | 8.62327 | 0.0362657 | 0.18791313 | 3.0187788 | 20 | 1 29.7 | 19.5 |
| 336740 2010 $EA_{108}$ | 15.9 | $X$ | 110.99494 | 171.22272 | 175.40811 | 13.80565 | 0.0404182 | 0.16934935 | 3.2355418 | 20 | — | — |
| 336741 2010 $EX_{132}$ | 15.7 | $X$ | 76.62282 | 197.36073 | 201.90934 | 15.58537 | 0.0175900 | 0.17231996 | 3.1982493 | 20 | — | — |
| 336742 2010 $ET_{136}$ | 15.8 | $X$ | 208.93649 | 92.65018 | 184.28076 | 9.07772 | 0.0365293 | 0.17600429 | 3.1534592 | 20 | — | — |
| 336743 2010 $FL_{15}$ | 15.8 | $X$ | 104.37924 | 349.68638 | 80.28235 | 2.91243 | 0.0968655 | 0.19314312 | 2.9640343 | 20 | 3 11.5 | 20.0 |
| 336744 2010 $FW_{24}$ | 16.0 | $X$ | 71.86194 | 258.37541 | 167.06092 | 10.52356 | 0.0435723 | 0.17965237 | 3.1106233 | 20 | 1 16.7 | 20.4 |
| 336745 2010 $FN_{29}$ | 16.1 | $X$ | 66.41465 | 257.37574 | 186.15291 | 9.89618 | 0.0867911 | 0.18562682 | 3.0435159 | 20 | 2 3.4 | 20.2 |
| 336746 2010 $FL_{30}$ | 16.3 | $X$ | 133.82037 | 166.50974 | 195.65922 | 9.31390 | 0.0615773 | 0.17676290 | 3.1444303 | 20 | 1 18.1 | 21.0 |
| 336747 2010 $FD_{81}$ | 15.6 | $X$ | 68.70373 | 266.11740 | 195.58647 | 9.59969 | 0.0711515 | 0.19003495 | 2.9962662 | 20 | 2 26.7 | 19.7 |
| 336748 2010 $FG_{100}$ | 16.3 | $X$ | 25.01289 | 291.99622 | 194.99871 | 9.43648 | 0.0561425 | 0.18326941 | 3.0695596 | 20 | 1 28.4 | 20.5 |
| 336749 2010 $GT_{101}$ | 17.0 | $X$ | 238.84471 | 256.15223 | 170.03910 | 2.84077 | 0.0683203 | 0.22556450 | 2.6727328 | 20 | 8 4.2 | 20.7 |
| 336750 2010 $GM_{104}$ | 16.5 | $X$ | 42.29818 | 100.19590 | 2.37272 | 1.28632 | 0.1524846 | 0.18310093 | 3.0714422 | 20 | 1 31.0 | 20.1 |
| 336751 2010 $GE_{116}$ | 15.9 | $X$ | 330.13546 | 0.34080 | 138.49378 | 5.31726 | 0.1653114 | 0.17367024 | 3.1816503 | 20 | — | — |
| 336752 2010 $HQ_{61}$ | 17.1 | $X$ | 212.28924 | 240.17982 | 210.46668 | 8.20784 | 0.1323007 | 0.23862622 | 2.5742888 | 20 | 7 27.9 | 21.2 |
| 336753 2010 $HK_{85}$ | 16.1 | $X$ | 270.97807 | 303.70349 | 331.82841 | 11.24445 | 0.0953525 | 0.20199680 | 2.8767782 | 20 | 2 26.3 | 20.3 |
| 336754 2010 $KK_{63}$ | 15.6 | $X$ | 61.74098 | 208.34403 | 168.00111 | 3.21589 | 0.2434150 | 0.12561753 | 3.9485341 | 20 | — | — |
| 336755 2010 $KA_{95}$ | 15.3 | $X$ | 321.96043 | 230.36915 | 322.13334 | 8.97002 | 0.0167672 | 0.18932700 | 3.0037308 | 20 | 1 31.3 | 19.5 |
| 336756 2010 $NV_{1}$ | 10.4 | $X$ | 0.72455 | 132.64351 | 136.10081 | 140.73086 | 0.9665392 | 0.00020917 | 281.0611147 | 20 | 6 30.3 | 23.5 |
| 336757 2010 $QU_{4}$ | 17.6 | $X$ | 5.86787 | 259.30412 | 297.03930 | 13.33786 | 0.1400859 | 0.36818089 | 1.9279476 | 20 | 2 21.4 | 18.9 |
| 336758 2010 $QQ_{5}$ | 16.5 | $X$ | 47.99111 | 17.85472 | 349.92303 | 15.76337 | 0.1872584 | 0.22044727 | 2.7139358 | 20 | — | — |
| 336759 2010 $UD_{5}$ | 16.9 | $X$ | 167.52494 | 52.70577 | 234.21155 | 7.70049 | 0.0229699 | 0.22132225 | 2.7067782 | 20 | — | — |
| 336760 2010 $UM_{9}$ | 16.5 | $X$ | 5.96695 | 93.91028 | 32.52714 | 10.59310 | 0.1289739 | 0.22845799 | 2.6501176 | 20 | — | — |
| 336761 2011 $AP_{4}$ | 17.1 | $X$ | 284.71728 | 257.90936 | 115.80680 | 24.55270 | 0.0896115 | 0.37305680 | 1.9111117 | 20 | 8 10.1 | 18.6 |
| 336762 2011 $AG_{27}$ | 17.2 | $X$ | 277.63195 | 119.06814 | 294.78769 | 19.20630 | 0.0859641 | 0.37920943 | 1.8903837 | 20 | 9 21.2 | 19.3 |
| 336763 2011 $AD_{36}$ | 17.0 | $X$ | 178.73336 | 281.67230 | 284.98147 | 5.94682 | 0.1285374 | 0.28112913 | 2.3078034 | 20 | 11 27.6 | 20.2 |
| 336764 2011 $AX_{56}$ | 17.8 | $X$ | 108.51385 | 86.72597 | 136.47676 | 1.98822 | 0.1336969 | 0.26388626 | 2.4072703 | 20 | 10 7.9 | 21.4 |
| 336765 2011 $AA_{57}$ | 16.1 | $X$ | 289.15321 | 183.23871 | 103.22033 | 9.12467 | 0.1970596 | 0.21662504 | 2.7457665 | 20 | 3 22.3 | 20.1 |
| 336766 2011 $AX_{77}$ | 16.1 | $X$ | 31.28068 | 263.63359 | 307.90915 | 26.64723 | 0.1606270 | 0.23642579 | 2.5902369 | 20 | 6 8.9 | 19.4 |
| 336767 2011 $BU_{19}$ | 17.7 | $X$ | 164.95144 | 2.11864 | 199.42204 | 1.98075 | 0.1536380 | 0.27156436 | 2.3616790 | 20 | 11 4.8 | 21.4 |
| 336768 2011 $BH_{20}$ | 17.8 | $X$ | 223.79245 | 330.58799 | 292.86193 | 4.17252 | 0.1090798 | 0.30728771 | 2.1748998 | 20 | — | — |
| 336769 2011 $BV_{22}$ | 17.3 | $X$ | 182.39465 | 161.71103 | 313.33755 | 17.71022 | 0.0828588 | 0.36458634 | 1.9405989 | 20 | 8 11.2 | 19.3 |
| 336770 2011 $BM_{38}$ | 16.7 | $X$ | 143.09140 | 33.25298 | 160.02021 | 8.58190 | 0.1741627 | 0.26129295 | 2.4231720 | 20 | 10 5.3 | 20.6 |
| 336771 2011 $BE_{40}$ | 17.0 | $X$ | 293.17090 | 207.83609 | 119.50460 | 24.92696 | 0.0765505 | 0.35620595 | 1.9709182 | 20 | 6 11.1 | 19.3 |
| 336772 2011 $BU_{50}$ | 17.3 | $X$ | 174.23162 | 347.01903 | 231.46689 | 4.91925 | 0.1735419 | 0.28086786 | 2.3092344 | 20 | 12 5.1 | 20.8 |
| 336773 2011 $BB_{54}$ | 17.1 | $X$ | 269.18536 | 176.68981 | 322.60537 | 7.87038 | 0.0530026 | 0.29175707 | 2.2514128 | 20 | — | — |
| 336774 2011 $BC_{63}$ | 15.2 | $X$ | 165.35174 | 84.29418 | 158.48456 | 20.62963 | 0.0973464 | 0.17595782 | 3.1540144 | 20 | 12 13.2 | 20.5 |
| 336775 2011 $BG_{64}$ | 17.0 | $X$ | 53.60536 | 340.43469 | 299.80830 | 6.46681 | 0.1137193 | 0.26525323 | 2.3989927 | 20 | 10 13.1 | 20.2 |
| 336776 2011 $BG_{85}$ | 16.3 | $X$ | 184.77862 | 255.64998 | 274.61423 | 18.06515 | 0.1330213 | 0.27069473 | 2.3667344 | 20 | 10 8.1 | 20.2 |
| 336777 2011 $BQ_{88}$ | 16.6 | $X$ | 4.51063 | 270.06102 | 308.34422 | 7.01698 | 0.0735740 | 0.23054595 | 2.6340927 | 20 | 4 19.8 | 19.9 |
| 336778 2011 $BB_{106}$ | 17.6 | $X$ | 155.14749 | 2.91786 | 295.87291 | 6.06033 | 0.2178939 | 0.30040225 | 2.2080077 | 20 | — | — |
| 336779 2011 $BL_{107}$ | 17.4 | $X$ | 132.35202 | 95.49681 | 193.92166 | 7.05769 | 0.1631292 | 0.28955466 | 2.2628148 | 20 | — | — |
| 336780 2011 $BV_{109}$ | 18.0 | $X$ | 116.91644 | 112.37368 | 197.25103 | 6.92266 | 0.1707111 | 0.29259783 | 2.2470978 | 20 | — | — |
| 336781 2011 $BX_{124}$ | 17.9 | $X$ | 68.96462 | 199.79972 | 70.15452 | 2.20784 | 0.1705237 | 0.26773991 | 2.3841156 | 20 | 10 30.3 | 21.1 |
| 336782 2011 $CA_{3}$ | 16.9 | $X$ | 190.77402 | 113.68630 | 40.62680 | 5.85003 | 0.1215142 | 0.27109645 | 2.3643957 | 20 | 10 5.1 | 20.3 |
| 336783 2011 $CS_{16}$ | 17.2 | $X$ | 132.19070 | 81.31499 | 166.48584 | 0.39163 | 0.1774904 | 0.27585651 | 2.3371176 | 20 | 12 2.2 | 20.9 |
| 336784 2011 $CV_{17}$ | 16.9 | $X$ | 105.12703 | 127.92319 | 93.73705 | 4.68679 | 0.1730353 | 0.26075686 | 2.4264921 | 20 | 10 6.6 | 20.7 |
| 336785 2011 $CV_{18}$ | 16.7 | $X$ | 11.55245 | 97.30769 | 131.70268 | 10.13709 | 0.1564781 | 0.23632316 | 2.5909868 | 20 | 5 26.7 | 19.4 |
| 336786 2011 $CZ_{21}$ | 17.6 | $X$ | 309.00006 | 233.98413 | 151.12364 | 27.11002 | 0.1429935 | 0.37603457 | 1.9010091 | 20 | 11 3.9 | 19.5 |
| 336787 2011 $CK_{28}$ | 16.6 | $X$ | 73.16939 | 281.67016 | 321.61741 | 8.99743 | 0.2143266 | 0.25825359 | 2.4421470 | 20 | 9 29.3 | 20.3 |
| 336788 2011 $CV_{32}$ | 17.5 | $X$ | 77.69548 | 293.73037 | 331.17446 | 5.49205 | 0.1195795 | 0.27011049 | 2.3701459 | 20 | 10 24.9 | 20.9 |
| 336789 2011 $CC_{47}$ | 16.3 | $X$ | 30.83057 | 272.38382 | 280.52817 | 7.28469 | 0.1446631 | 0.23070875 | 2.6328534 | 20 | 5 4.6 | 19.1 |
| 336790 2011 $CD_{47}$ | 16.9 | $X$ | 152.61414 | 309.86536 | 174.15496 | 22.95623 | 0.0885326 | 0.35320468 | 1.9820674 | 20 | 7 15.4 | 20.0 |
| 336791 2011 $CR_{54}$ | 18.1 | $X$ | 139.35382 | 330.45711 | 326.32148 | 2.99973 | 0.1915530 | 0.29463028 | 2.2367518 | 20 | — | — |
| 336792 2011 $CZ_{56}$ | 17.8 | $X$ | 183.05273 | 295.75814 | 323.52899 | 6.41220 | 0.0427390 | 0.29833754 | 2.2181834 | 20 | — | — |
| 336793 2011 $CM_{57}$ | 18.1 | $X$ | 238.53724 | 55.55448 | 150.83789 | 2.65478 | 0.0970279 | 0.29774636 | 2.2211186 | 20 | — | — |
| 336794 2011 $CL_{71}$ | 17.7 | $X$ | 326.87981 | 64.63686 | 323.41679 | 18.98562 | 0.1327168 | 0.38342195 | 1.8765122 | 20 | 12 14.6 | 19.5 |
| 336795 2011 $CU_{72}$ | 17.2 | $X$ | 238.20374 | 256.80627 | 277.40640 | 9.62575 | 0.1255114 | 0.28828283 | 2.2694652 | 20 | — | — |
| 336796 2011 $CB_{74}$ | 16.3 | $X$ | 317.80993 | 298.24977 | 319.54635 | 11.94135 | 0.2356792 | 0.22405429 | 2.6847295 | 20 | 3 7.4 | 19.7 |
| 336797 2011 $CS_{75}$ | 17.4 | $X$ | 215.12157 | 178.37929 | 10.29521 | 4.99863 | 0.0770126 | 0.28694071 | 2.2765364 | 20 | 12 27.0 | 20.1 |
| 336798 2011 $CM_{79}$ | 17.2 | $X$ | 95.41536 | 0.94567 | 307.70339 | 8.27402 | 0.1016467 | 0.28565973 | 2.2833371 | 20 | — | — |
| 336799 2011 $CK_{81}$ | 17.4 | $X$ | 84.53862 | 358.35054 | 270.00860 | 1.69543 | 0.1926956 | 0.26692122 | 2.3889881 | 20 | 11 14.2 | 21.1 |
| 336800 2011 $CK_{85}$ | 17.2 | $X$ | 7.83325 | 260.58145 | 324.43655 | 5.07420 | 0.1710393 | 0.23038175 | 2.6353442 | 20 | 5 7.3 | 19.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336801 2011 $CL_{91}$ | 17.2 | X | 15.73673 | 327.48807 | 281.61600 | 5.58275 | 0.1296592 | 0.24266971 | 2.5456128 | 20 | 6 30.9 | 19.5 |
| 336802 2011 $CK_{93}$ | 17.7 | X | 88.92190 | 21.09140 | 227.05037 | 4.34375 | 0.0894826 | 0.26532470 | 2.3985619 | 20 | 10 13.3 | 21.0 |
| 336803 2011 $CH_{111}$ | 17.5 | X | 150.59971 | 337.34134 | 276.70645 | 4.17053 | 0.1234933 | 0.28167732 | 2.3048082 | 20 | 12 29.8 | 20.7 |
| 336804 2011 $DR_{2}$ | 17.8 | X | 225.60486 | 240.91995 | 338.46186 | 3.12878 | 0.1027260 | 0.29392003 | 2.2403537 | 20 | — | — |
| 336805 2011 $DV_{2}$ | 17.6 | X | 166.89244 | 111.79788 | 121.88781 | 1.78107 | 0.0798008 | 0.28316261 | 2.2967415 | 20 | 12 24.9 | 20.7 |
| 336806 2011 $DE_{8}$ | 16.6 | X | 324.68617 | 285.76570 | 3.83093 | 12.52965 | 0.1472447 | 0.23151261 | 2.6267553 | 20 | 5 16.1 | 19.8 |
| 336807 2011 $DS_{8}$ | 15.7 | X | 224.23970 | 110.11317 | 140.01632 | 10.24653 | 0.0743946 | 0.19033631 | 2.9931027 | 20 | — | — |
| 336808 2011 $DA_{10}$ | 16.4 | X | 68.07204 | 168.10573 | 11.61300 | 7.86984 | 0.1358172 | 0.23388186 | 2.6089856 | 20 | 6 18.3 | 19.9 |
| 336809 2011 $DP_{14}$ | 18.0 | X | 200.44469 | 323.66869 | 297.63179 | 2.20561 | 0.1007960 | 0.30220318 | 2.1992269 | 20 | — | — |
| 336810 2011 $DS_{18}$ | 17.7 | X | 180.34544 | 38.94400 | 180.62438 | 4.92518 | 0.1697680 | 0.28030983 | 2.3122982 | 20 | 12 12.9 | 21.2 |
| 336811 2011 $DL_{21}$ | 17.1 | X | 106.31979 | 288.93850 | 338.52851 | 8.78031 | 0.2085139 | 0.27059694 | 2.3673045 | 20 | 12 2.4 | 21.2 |
| 336812 2011 $DN_{21}$ | 16.4 | X | 62.32215 | 220.63574 | 342.14386 | 13.57323 | 0.1154860 | 0.23791336 | 2.5794285 | 20 | 7 13.2 | 19.9 |
| 336813 2011 $DW_{24}$ | 16.9 | X | 21.54553 | 177.74107 | 128.50656 | 2.95403 | 0.1804499 | 0.25712772 | 2.4492707 | 20 | 10 17.4 | 19.6 |
| 336814 2011 $DA_{42}$ | 16.3 | X | 22.82175 | 302.97306 | 357.89673 | 6.39242 | 0.1144835 | 0.25586611 | 2.4573152 | 20 | 9 28.5 | 18.9 |
| 336815 2011 $EW$ | 16.9 | X | 99.51307 | 224.85817 | 356.52599 | 7.00209 | 0.1885840 | 0.25792425 | 2.4442255 | 20 | 9 28.4 | 20.5 |
| 336816 2011 $ED_{5}$ | 17.6 | X | 119.27418 | 260.02690 | 12.72361 | 3.21107 | 0.1086572 | 0.28092690 | 2.3089109 | 20 | 12 21.9 | 20.9 |
| 336817 2011 $EY_{10}$ | 17.9 | X | 282.27754 | 165.72246 | 8.77162 | 3.00559 | 0.0773913 | 0.29897955 | 2.2150068 | 20 | — | — |
| 336818 2011 $EH_{19}$ | 16.4 | X | 57.52535 | 62.86918 | 156.00783 | 14.71086 | 0.1047755 | 0.24047297 | 2.5610921 | 20 | 7 22.5 | 19.7 |
| 336819 2011 $EW_{25}$ | 16.9 | X | 43.24681 | 154.04525 | 82.82884 | 3.12677 | 0.0938575 | 0.24056270 | 2.5604553 | 20 | 7 26.6 | 19.9 |
| 336820 2011 $EZ_{25}$ | 17.2 | X | 90.14039 | 167.39346 | 132.84983 | 6.12746 | 0.1270224 | 0.27601255 | 2.3362366 | 20 | 12 26.6 | 20.8 |
| 336821 2011 $EP_{35}$ | 16.8 | X | 311.89199 | 275.33197 | 347.37361 | 5.44446 | 0.1133160 | 0.22327142 | 2.6910016 | 20 | 3 27.6 | 20.2 |
| 336822 2011 $EZ_{37}$ | 17.0 | X | 333.60918 | 161.06605 | 137.23844 | 9.15756 | 0.1222855 | 0.23583710 | 2.5945456 | 20 | 6 23.1 | 19.8 |
| 336823 2011 $EH_{40}$ | 16.8 | X | 4.92998 | 76.36513 | 163.27788 | 12.49148 | 0.1377849 | 0.22951685 | 2.6419605 | 20 | 5 28.5 | 19.8 |
| 336824 2011 $EU_{41}$ | 15.6 | X | 215.90740 | 84.23213 | 153.60966 | 16.96954 | 0.2399560 | 0.18080755 | 3.0973599 | 20 | — | — |
| 336825 2011 $EY_{43}$ | 17.3 | X | 143.78914 | 97.52468 | 95.77063 | 2.59296 | 0.1375439 | 0.26090122 | 2.4255970 | 20 | 10 5.1 | 21.0 |
| 336826 2011 $EJ_{54}$ | 16.6 | X | 354.74870 | 78.36732 | 142.63996 | 5.27102 | 0.0854735 | 0.22076505 | 2.7113308 | 20 | 4 13.9 | 19.8 |
| 336827 2011 $EP_{54}$ | 17.3 | X | 231.64087 | 194.85361 | 8.32507 | 7.45447 | 0.1049551 | 0.29066180 | 2.2570650 | 20 | — | — |
| 336828 2011 $EO_{66}$ | 17.4 | X | 99.99962 | 127.85957 | 128.21537 | 0.92565 | 0.1345924 | 0.26328637 | 2.4109255 | 20 | 11 9.6 | 20.9 |
| 336829 2011 $EH_{69}$ | 16.3 | X | 281.71155 | 200.16567 | 63.18419 | 5.58440 | 0.0225363 | 0.21408214 | 2.7674668 | 20 | 3 7.1 | 20.1 |
| 336830 2011 $EF_{74}$ | 16.3 | X | 326.48297 | 261.52789 | 352.66257 | 11.81048 | 0.0923599 | 0.22069161 | 2.7119323 | 20 | 4 7.6 | 19.8 |
| 336831 2011 $EG_{77}$ | 16.0 | X | 186.82388 | 284.53610 | 313.56742 | 8.30042 | 0.2186612 | 0.17576853 | 3.1562784 | 20 | 12 18.4 | 21.3 |
| 336832 2011 $EL_{78}$ | 16.7 | X | 56.44697 | 149.90926 | 26.74491 | 3.51185 | 0.0488965 | 0.23034362 | 2.6356350 | 20 | 5 13.9 | 19.9 |
| 336833 2011 $FZ$ | 16.3 | X | 313.68303 | 287.80779 | 3.11282 | 10.94607 | 0.1823782 | 0.22602520 | 2.6690997 | 20 | 4 24.4 | 19.5 |
| 336834 2011 $FC_{1}$ | 15.6 | X | 51.59335 | 303.88210 | 205.42641 | 14.91483 | 0.1190163 | 0.21593520 | 2.7516113 | 20 | 4 8.8 | 18.9 |
| 336835 2011 $FH_{2}$ | 17.1 | X | 127.96367 | 232.13339 | 37.75210 | 2.99744 | 0.1958015 | 0.26908898 | 2.3761405 | 20 | 12 24.1 | 21.0 |
| 336836 2011 $FJ_{6}$ | 16.6 | X | 285.49710 | 137.03970 | 147.61073 | 13.05186 | 0.1888999 | 0.21416470 | 2.7667556 | 20 | 3 14.7 | 20.6 |
| 336837 2011 $FD_{8}$ | 15.9 | X | 187.53882 | 105.09360 | 191.74616 | 13.31328 | 0.1083960 | 0.18922766 | 3.0047821 | 20 | — | — |
| 336838 2011 $FR_{11}$ | 16.8 | X | 312.53874 | 150.60519 | 92.49098 | 4.76928 | 0.0390925 | 0.21161558 | 2.7889301 | 20 | 3 18.4 | 20.5 |
| 336839 2011 $FT_{16}$ | 15.3 | X | 229.50643 | 43.05999 | 149.83867 | 19.17791 | 0.1441871 | 0.17641181 | 3.1486009 | 20 | 12 15.3 | 20.3 |
| 336840 2011 $FU_{17}$ | 15.6 | X | 243.22943 | 298.96349 | 291.33140 | 7.22851 | 0.3025106 | 0.18600861 | 3.0393498 | 20 | — | — |
| 336841 2011 $FH_{24}$ | 17.0 | X | 14.93653 | 320.39370 | 12.89593 | 4.76512 | 0.2111626 | 0.25861734 | 2.4398565 | 20 | 11 16.7 | 19.8 |
| 336842 2011 $FM_{27}$ | 16.6 | X | 222.42989 | 133.07315 | 128.71298 | 11.10515 | 0.0643786 | 0.19080457 | 2.9882037 | 20 | — | — |
| 336843 2011 $FV_{28}$ | 16.1 | X | 314.08719 | 168.30243 | 99.97823 | 9.32268 | 0.1704665 | 0.22011431 | 2.7166720 | 20 | 4 5.3 | 19.6 |
| 336844 2011 $FA_{30}$ | 16.5 | X | 292.91754 | 128.07466 | 125.70256 | 4.76974 | 0.1484319 | 0.21047600 | 2.7989877 | 20 | 2 18.4 | 20.5 |
| 336845 2011 $FL_{32}$ | 17.3 | X | 0.94262 | 222.23056 | 170.21272 | 7.30517 | 0.1041944 | 0.27435925 | 2.3456127 | 20 | — | — |
| 336846 2011 $FC_{34}$ | 15.8 | X | 211.82708 | 105.59954 | 171.56100 | 5.56009 | 0.1371016 | 0.18415922 | 3.0596640 | 20 | 1 1.2 | 20.9 |
| 336847 2011 $FO_{37}$ | 16.7 | X | 11.56507 | 253.41484 | 341.71817 | 12.27439 | 0.2192432 | 0.22702771 | 2.6612365 | 20 | 6 3.9 | 19.3 |
| 336848 2011 $FL_{46}$ | 16.4 | X | 191.65850 | 72.18665 | 200.50702 | 0.89632 | 0.0729278 | 0.18127003 | 3.0920894 | 20 | — | — |
| 336849 2011 $FK_{47}$ | 16.1 | X | 214.18830 | 172.26083 | 102.64238 | 2.86722 | 0.1429933 | 0.18558990 | 3.0439195 | 20 | — | — |
| 336850 2011 $FB_{48}$ | 15.5 | X | 159.23911 | 93.37609 | 209.19263 | 13.87020 | 0.0248166 | 0.17994701 | 3.1072268 | 20 | — | — |
| 336851 2011 $FQ_{50}$ | 17.1 | X | 61.60251 | 249.04693 | 327.55556 | 3.86440 | 0.0707515 | 0.23960323 | 2.5672861 | 20 | 7 21.6 | 20.2 |
| 336852 2011 $FL_{51}$ | 17.7 | X | 228.41434 | 148.95541 | 17.32358 | 2.59086 | 0.1446471 | 0.27834851 | 2.3231475 | 20 | 11 30.9 | 20.5 |
| 336853 2011 $FN_{51}$ | 15.5 | X | 200.00877 | 37.01041 | 196.41421 | 17.25224 | 0.1870370 | 0.17606833 | 3.1526944 | 20 | 12 25.0 | 20.9 |
| 336854 2011 $FB_{53}$ | 18.1 | X | 134.59038 | 24.09852 | 181.01907 | 2.63007 | 0.1640604 | 0.25956748 | 2.4338989 | 20 | 10 10.5 | 21.8 |
| 336855 2011 $FU_{55}$ | 16.0 | X | 352.92455 | 248.54838 | 18.95676 | 10.56980 | 0.1104308 | 0.23206978 | 2.6225492 | 20 | 6 11.8 | 19.0 |
| 336856 2011 $FE_{56}$ | 17.8 | X | 243.79687 | 162.17236 | 357.94977 | 3.34354 | 0.1458137 | 0.28068131 | 2.3102575 | 20 | 12 15.5 | 20.4 |
| 336857 2011 $FZ_{82}$ | 16.4 | X | 307.90568 | 247.81016 | 22.25097 | 9.14801 | 0.0658474 | 0.22122378 | 2.7075813 | 20 | 4 9.5 | 20.0 |
| 336858 2011 $FB_{97}$ | 16.8 | X | 340.96842 | 96.28829 | 203.89306 | 6.27288 | 0.1113451 | 0.23945067 | 2.5683765 | 20 | 7 9.3 | 19.7 |
| 336859 2011 $FN_{103}$ | 16.4 | X | 265.80325 | 164.59936 | 155.16900 | 12.88903 | 0.0943354 | 0.22828168 | 2.6514820 | 20 | 4 18.7 | 20.3 |
| 336860 2011 $FN_{129}$ | 16.7 | X | 349.44135 | 358.56598 | 277.31551 | 4.19715 | 0.1706228 | 0.23698916 | 2.5861302 | 20 | 6 17.9 | 19.0 |
| 336861 2011 $FP_{129}$ | 17.3 | X | 316.47627 | 188.12848 | 309.87236 | 6.30612 | 0.0430838 | 0.29787357 | 2.2204861 | 20 | — | — |
| 336862 2011 $FY_{134}$ | 17.7 | X | 56.02086 | 97.83037 | 188.69944 | 5.99285 | 0.1053990 | 0.25976182 | 2.4326848 | 20 | 10 27.1 | 20.9 |
| 336863 2011 $FV_{140}$ | 16.2 | X | 226.06551 | 177.96395 | 48.41206 | 5.44992 | 0.1268684 | 0.17960415 | 3.1111799 | 20 | — | — |
| 336864 2011 $FA_{142}$ | 16.3 | X | 263.10307 | 227.92288 | 55.57340 | 4.58489 | 0.0628199 | 0.21390401 | 2.7690030 | 20 | 3 3.7 | 20.2 |
| 336865 2011 $FW_{144}$ | 17.1 | X | 119.85418 | 342.34837 | 291.39000 | 6.58101 | 0.1076020 | 0.27941440 | 2.3172356 | 20 | 12 23.6 | 20.5 |
| 336866 2011 $FG_{145}$ | 16.2 | X | 41.20249 | 298.12494 | 301.05967 | 9.07041 | 0.0729887 | 0.24042928 | 2.5614024 | 20 | 7 22.9 | 19.1 |
| 336867 2011 $FN_{146}$ | 16.3 | X | 290.24496 | 305.43113 | 335.51742 | 8.70438 | 0.1677165 | 0.21709325 | 2.7418172 | 20 | 3 14.2 | 20.1 |
| 336868 2011 $FV_{146}$ | 17.0 | X | 93.04650 | 283.42396 | 297.50045 | 5.52482 | 0.1007631 | 0.25148593 | 2.4857660 | 20 | 9 9.6 | 20.5 |
| 336869 2011 $FP_{151}$ | 15.5 | X | 231.19032 | 263.32067 | 320.96579 | 21.27943 | 0.1276972 | 0.18436423 | 3.0573954 | 20 | — | — |
| 336870 2011 $FQ_{151}$ | 16.0 | X | 341.44655 | 250.39338 | 342.02626 | 25.91535 | 0.2999157 | 0.21654286 | 2.7464612 | 20 | 3 6.0 | 18.5 |
| 336871 2011 $FK_{152}$ | 16.3 | X | 51.26000 | 20.49754 | 195.90984 | 5.72493 | 0.2387888 | 0.23234016 | 2.6205143 | 20 | 7 30.8 | 19.5 |
| 336872 2011 $FL_{152}$ | 15.6 | X | 219.42466 | 92.73180 | 113.94460 | 16.73726 | 0.1758017 | 0.17612074 | 3.1520690 | 20 | 12 16.4 | 20.6 |
| 336873 2011 $GE_{4}$ | 17.0 | X | 335.28172 | 105.11131 | 160.73820 | 5.57237 | 0.1123683 | 0.22372265 | 2.6873821 | 20 | 5 11.5 | 20.1 |
| 336874 2011 $GA_{28}$ | 16.0 | X | 329.45241 | 119.31749 | 92.87029 | 10.08364 | 0.0856511 | 0.21466753 | 2.7624333 | 20 | 2 25.5 | 19.6 |
| 336875 2011 $GP_{40}$ | 16.1 | X | 299.59628 | 122.81927 | 121.85169 | 11.15299 | 0.1119398 | 0.21101470 | 2.7942220 | 20 | 2 21.5 | 19.9 |
| 336876 2011 $GQ_{41}$ | 16.1 | X | 346.84413 | 191.64231 | 87.10559 | 12.78106 | 0.0373843 | 0.23515941 | 2.5995278 | 20 | 6 21.0 | 19.1 |
| 336877 2011 $GT_{41}$ | 16.3 | X | 278.95857 | 197.09325 | 108.82433 | 13.02770 | 0.0602371 | 0.22202056 | 2.7010995 | 20 | 4 24.9 | 20.2 |
| 336878 2011 $GL_{46}$ | 16.6 | X | 288.98919 | 112.80179 | 163.28487 | 11.97908 | 0.1276860 | 0.21495577 | 2.7599633 | 20 | 3 15.1 | 20.3 |
| 336879 2011 $GP_{47}$ | 16.7 | X | 216.73042 | 237.49010 | 133.52321 | 8.32341 | 0.0188416 | 0.21769697 | 2.7367458 | 20 | 5 3.6 | 20.6 |
| 336880 2011 $GS_{49}$ | 16.9 | X | 68.44176 | 346.55742 | 216.48315 | 3.59921 | 0.0789490 | 0.23597387 | 2.5935429 | 20 | 7 12.0 | 20.2 |

# ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336881 2011 $GX_{49}$ | 15.0 | X | 158.01809 | 127.76716 | 160.13793 | 27.13262 | 0.2132617 | 0.17277536 | 3.1926269 | 20 | — | — |
| 336882 2011 $GN_{53}$ | 15.9 | X | 295.69275 | 219.67593 | 113.03698 | 15.92982 | 0.1632060 | 0.23199974 | 2.6230771 | 20 | 6 4.1 | 19.3 |
| 336883 2011 $GO_{53}$ | 16.6 | X | 328.03301 | 312.84695 | 12.64587 | 14.92816 | 0.1475397 | 0.24159217 | 2.5531763 | 20 | 7 28.6 | 19.5 |
| 336884 2011 $GF_{55}$ | 16.4 | X | 216.52544 | 174.24020 | 103.51224 | 3.55836 | 0.1722680 | 0.18754291 | 3.0227504 | 20 | 1 5.4 | 21.4 |
| 336885 2011 $GT_{55}$ | 16.2 | X | 181.26007 | 182.04116 | 141.54328 | 7.93574 | 0.1654730 | 0.18873735 | 3.0099837 | 20 | 1 27.8 | 21.2 |
| 336886 2011 $GQ_{57}$ | 16.3 | X | 256.39203 | 157.73743 | 176.02836 | 9.30384 | 0.1090048 | 0.22024836 | 2.7155695 | 20 | 4 22.2 | 20.2 |
| 336887 2011 $GU_{57}$ | 16.7 | X | 89.39258 | 78.16637 | 122.96039 | 4.34651 | 0.0376114 | 0.24000218 | 2.5644403 | 20 | 8 1.9 | 19.9 |
| 336888 2011 $GY_{57}$ | 15.2 | X | 170.59069 | 187.49742 | 93.92580 | 6.29334 | 0.1250098 | 0.17586083 | 3.1551739 | 20 | — | — |
| 336889 2011 $GE_{59}$ | 16.9 | X | 13.99343 | 134.58405 | 138.46946 | 5.59830 | 0.0872565 | 0.24118239 | 2.5560675 | 20 | 7 29.3 | 19.8 |
| 336890 2011 $GA_{60}$ | 15.2 | X | 141.55176 | 123.60578 | 173.26686 | 17.95422 | 0.1765709 | 0.16982246 | 3.2295298 | 20 | — | — |
| 336891 2011 $GX_{60}$ | 16.1 | X | 71.00093 | 208.85745 | 23.00978 | 11.39651 | 0.0907946 | 0.24282472 | 2.5445293 | 20 | 9 2.3 | 19.6 |
| 336892 2011 $GS_{62}$ | 16.5 | X | 195.51911 | 241.64592 | 260.71060 | 6.10008 | 0.0932135 | 0.25876697 | 2.4389159 | 20 | 9 20.2 | 20.0 |
| 336893 2011 $GW_{62}$ | 15.8 | X | 355.23059 | 156.15993 | 34.72451 | 9.68981 | 0.0884359 | 0.21046994 | 2.7990415 | 20 | 3 8.2 | 19.3 |
| 336894 2011 $GZ_{63}$ | 16.5 | X | 4.52013 | 98.64470 | 161.26997 | 13.16898 | 0.0983990 | 0.23001851 | 2.6381178 | 20 | 6 23.7 | 19.7 |
| 336895 2011 $GG_{66}$ | 16.4 | X | 99.89859 | 204.16494 | 338.28802 | 8.06186 | 0.1155375 | 0.24112426 | 2.5564783 | 20 | 8 2.3 | 20.0 |
| 336896 2011 $GE_{70}$ | 15.8 | X | 210.70148 | 57.59739 | 218.07116 | 4.51532 | 0.1366479 | 0.18569458 | 3.0427755 | 20 | — | — |
| 336897 2011 $GY_{76}$ | 16.3 | X | 171.15554 | 18.54277 | 28.43802 | 5.24467 | 0.0492397 | 0.21894898 | 2.7263028 | 20 | 4 20.8 | 20.3 |
| 336898 2011 $GW_{77}$ | 15.9 | X | 67.54283 | 321.85795 | 246.45327 | 8.11800 | 0.1468280 | 0.23457034 | 2.6038781 | 20 | 7 26.9 | 19.5 |
| 336899 2011 $GO_{82}$ | 16.7 | X | 269.87155 | 200.93055 | 106.69176 | 6.42668 | 0.0544336 | 0.21866840 | 2.7286345 | 20 | 4 13.4 | 20.5 |
| 336900 2011 $GE_{84}$ | 17.4 | X | 46.11747 | 77.08255 | 195.77033 | 4.13591 | 0.0728668 | 0.24642590 | 2.5196786 | 20 | 9 15.8 | 20.6 |
| 336901 2011 $GQ_{85}$ | 15.5 | X | 201.15222 | 114.47339 | 153.31209 | 22.45079 | 0.0755638 | 0.18425447 | 3.0586095 | 20 | — | — |
| 336902 2011 $HQ_{1}$ | 16.3 | X | 358.51285 | 58.18362 | 167.78379 | 13.20947 | 0.1154049 | 0.22001663 | 2.7174760 | 20 | 4 27.4 | 19.5 |
| 336903 2011 $HH_{6}$ | 15.3 | X | 171.00726 | 207.53954 | 88.03406 | 18.64268 | 0.2114835 | 0.17721826 | 3.1390416 | 20 | — | — |
| 336904 2011 $HT_{6}$ | 17.5 | X | 6.58045 | 295.90535 | 169.88042 | 6.05432 | 0.0463648 | 0.29928927 | 2.2134784 | 20 | — | — |
| 336905 2011 $HY_{9}$ | 16.4 | X | 200.04781 | 244.89059 | 126.87856 | 7.24423 | 0.0628211 | 0.21539017 | 2.7562512 | 20 | 4 12.7 | 20.5 |
| 336906 2011 $HG_{12}$ | 16.3 | X | 272.99378 | 142.31222 | 160.91396 | 10.04135 | 0.1414344 | 0.21094197 | 2.7948642 | 20 | 3 29.9 | 20.4 |
| 336907 2011 $HF_{13}$ | 17.0 | X | 137.36041 | 83.36412 | 109.00249 | 4.21441 | 0.0145124 | 0.25238293 | 2.4798727 | 20 | 9 23.9 | 20.2 |
| 336908 2011 $HP_{14}$ | 16.4 | X | 248.09042 | 161.59894 | 114.06640 | 2.60577 | 0.0723577 | 0.19933977 | 2.9022852 | 20 | 2 5.1 | 20.6 |
| 336909 2011 $HS_{14}$ | 16.4 | X | 78.15572 | 47.45307 | 62.52085 | 4.64631 | 0.0526415 | 0.21133502 | 2.7913978 | 20 | 3 20.9 | 20.1 |
| 336910 2011 $HX_{14}$ | 16.2 | X | 264.23586 | 141.68274 | 122.00508 | 3.08749 | 0.0158179 | 0.20292517 | 2.8679975 | 20 | 2 14.7 | 20.1 |
| 336911 2011 $HS_{19}$ | 16.0 | X | 231.52672 | 159.30371 | 37.98262 | 5.71795 | 0.1236779 | 0.17356375 | 3.1829516 | 20 | 12 22.1 | 20.6 |
| 336912 2011 $HU_{21}$ | 16.2 | X | 203.13173 | 173.04190 | 164.54131 | 6.81899 | 0.0688680 | 0.20350133 | 2.8625817 | 20 | 3 2.1 | 20.3 |
| 336913 2011 $HB_{22}$ | 16.1 | X | 186.51977 | 111.56797 | 185.45961 | 10.15297 | 0.1143335 | 0.18401365 | 3.0612774 | 20 | — | — |
| 336914 2011 $HD_{22}$ | 17.1 | X | 129.73330 | 339.38101 | 180.28082 | 6.30099 | 0.0730501 | 0.23973557 | 2.5663412 | 20 | 7 30.2 | 20.8 |
| 336915 2011 $HP_{22}$ | 16.1 | X | 222.42657 | 238.21910 | 111.08854 | 5.37360 | 0.0820445 | 0.21200678 | 2.7854982 | 20 | 4 7.8 | 20.3 |
| 336916 2011 $HH_{27}$ | 15.0 | X | 233.69268 | 287.85358 | 283.90386 | 24.62314 | 0.1776970 | 0.18039802 | 3.1020458 | 20 | — | — |
| 336917 2011 $HD_{34}$ | 16.6 | X | 274.02203 | 58.31671 | 185.01196 | 10.61453 | 0.0752211 | 0.20134018 | 2.8830294 | 20 | 1 22.8 | 20.9 |
| 336918 2011 $HP_{35}$ | 16.5 | X | 200.53495 | 227.60153 | 152.00745 | 5.52096 | 0.0900193 | 0.21238100 | 2.7822252 | 20 | 4 21.3 | 20.7 |
| 336919 2011 $HX_{35}$ | 17.1 | X | 305.33341 | 59.98576 | 213.11728 | 4.68541 | 0.0783258 | 0.21781339 | 2.7357705 | 20 | 4 7.4 | 20.7 |
| 336920 2011 $HG_{45}$ | 15.2 | X | 20.78857 | 295.55191 | 126.87067 | 14.27514 | 0.1255552 | 0.17025694 | 3.2240331 | 20 | — | — |
| 336921 2011 $HO_{49}$ | 15.9 | X | 187.45590 | 103.78426 | 199.07052 | 11.76411 | 0.1826030 | 0.18129298 | 3.0918285 | 20 | 1 9.4 | 21.3 |
| 336922 2011 $HB_{50}$ | 16.1 | X | 305.96712 | 14.86410 | 170.71118 | 8.72962 | 0.0467692 | 0.18850177 | 3.0124910 | 20 | — | — |
| 336923 2011 $HU_{50}$ | 15.5 | X | 150.58765 | 215.83651 | 105.57110 | 11.78475 | 0.1284923 | 0.17844954 | 3.1245856 | 20 | — | — |
| 336924 2011 $HT_{51}$ | 16.1 | X | 201.80198 | 122.08155 | 166.11116 | 11.05709 | 0.0915520 | 0.18924232 | 3.0046268 | 20 | 1 3.7 | 20.9 |
| 336925 2011 $HG_{54}$ | 16.7 | X | 324.51452 | 123.84803 | 151.41782 | 9.07146 | 0.0484543 | 0.22369864 | 2.6875744 | 20 | 5 15.5 | 20.2 |
| 336926 2011 $HC_{56}$ | 16.6 | X | 212.72998 | 266.15971 | 113.99400 | 7.26776 | 0.0474406 | 0.22063709 | 2.7123790 | 20 | 5 7.9 | 20.6 |
| 336927 2011 $HH_{56}$ | 15.9 | X | 121.34854 | 149.38667 | 189.60867 | 12.15704 | 0.0287263 | 0.17841330 | 3.1250087 | 20 | — | — |
| 336928 2011 $HM_{56}$ | 15.9 | X | 66.75682 | 324.60397 | 101.47930 | 10.63627 | 0.0489632 | 0.18919971 | 3.0050779 | 20 | 1 11.1 | 20.0 |
| 336929 2011 $HA_{57}$ | 15.8 | X | 185.40859 | 159.75132 | 143.83801 | 11.33899 | 0.1231893 | 0.18374183 | 3.0642959 | 20 | 1 7.8 | 20.8 |
| 336930 2011 $HF_{57}$ | 15.7 | X | 179.43184 | 173.14429 | 154.12756 | 11.84515 | 0.0801775 | 0.18992916 | 2.9973787 | 20 | 1 26.2 | 20.3 |
| 336931 2011 $HJ_{59}$ | 15.6 | X | 158.54013 | 260.70474 | 190.75091 | 21.77644 | 0.0485592 | 0.22689147 | 2.6623017 | 20 | 6 3.8 | 19.8 |
| 336932 2011 $HO_{59}$ | 15.9 | X | 210.37151 | 111.70126 | 129.30138 | 10.15745 | 0.0423005 | 0.17516791 | 3.1634892 | 20 | — | — |
| 336933 2011 $HU_{59}$ | 15.5 | X | 208.36381 | 85.46590 | 192.49385 | 13.30028 | 0.0567406 | 0.18346165 | 3.0674149 | 20 | — | — |
| 336934 2011 $HU_{62}$ | 16.1 | X | 43.82259 | 26.95464 | 241.73286 | 11.27340 | 0.1592006 | 0.24024708 | 2.5626972 | 20 | 9 14.9 | 19.6 |
| 336935 2011 $HG_{63}$ | 16.9 | X | 5.62473 | 306.38087 | 35.43162 | 4.37306 | 0.0999868 | 0.25815688 | 2.4427569 | 20 | 10 28.3 | 19.3 |
| 336936 2011 $HJ_{63}$ | 16.5 | X | 301.51223 | 172.95582 | 92.98846 | 5.14396 | 0.0481631 | 0.21480278 | 2.7612737 | 20 | 3 31.9 | 20.3 |
| 336937 2011 $HH_{64}$ | 16.1 | X | 149.99405 | 113.20753 | 211.16299 | 10.15616 | 0.0760871 | 0.17855008 | 3.1234126 | 20 | — | — |
| 336938 2011 $HS_{65}$ | 16.2 | X | 194.03385 | 226.03830 | 111.81049 | 10.03603 | 0.1391993 | 0.20063264 | 2.8898036 | 20 | 2 25.6 | 20.9 |
| 336939 2011 $HJ_{66}$ | 15.6 | X | 260.72328 | 348.18438 | 203.47791 | 27.22978 | 0.0952544 | 0.17760642 | 3.1344663 | 20 | — | — |
| 336940 2011 $HL_{68}$ | 16.9 | X | 4.72403 | 174.14789 | 176.09116 | 6.69624 | 0.1352835 | 0.25616936 | 2.4553756 | 20 | 11 14.0 | 19.6 |
| 336941 2011 $HG_{69}$ | 16.8 | X | 106.73601 | 39.72426 | 63.39518 | 6.31163 | 0.0027979 | 0.21610504 | 2.7501694 | 20 | 4 11.0 | 20.5 |
| 336942 2011 $HV_{70}$ | 16.2 | X | 261.94232 | 114.51893 | 180.51366 | 6.74252 | 0.0618176 | 0.21662143 | 2.7457970 | 20 | 3 13.9 | 19.9 |
| 336943 2011 $HR_{71}$ | 17.5 | X | 333.85565 | 292.21614 | 184.94517 | 4.61441 | 0.1162915 | 0.28817739 | 2.2700187 | 20 | — | — |
| 336944 2011 $HA_{74}$ | 15.7 | X | 125.69120 | 168.05570 | 179.73390 | 8.92368 | 0.1039822 | 0.17764508 | 3.1340116 | 20 | — | — |
| 336945 2011 $HH_{74}$ | 15.8 | X | 44.45641 | 263.67982 | 173.37558 | 14.65640 | 0.0726607 | 0.18502780 | 3.0500812 | 20 | — | — |
| 336946 2011 $HK_{77}$ | 17.0 | X | 16.90955 | 207.04750 | 68.41569 | 3.41752 | 0.1238516 | 0.24080987 | 2.5587029 | 20 | 8 13.0 | 19.7 |
| 336947 2011 $HD_{78}$ | 15.7 | X | 116.86816 | 259.90483 | 111.79067 | 10.75535 | 0.0638955 | 0.18638830 | 3.0352208 | 20 | 1 10.6 | 20.0 |
| 336948 2011 $HB_{80}$ | 16.6 | X | 324.97668 | 124.80924 | 131.78613 | 4.91231 | 0.0705451 | 0.21362523 | 2.7714115 | 20 | 4 17.9 | 20.1 |
| 336949 2011 $HL_{81}$ | 16.4 | X | 133.14812 | 21.13398 | 129.41592 | 14.76378 | 0.1449973 | 0.24165466 | 2.5527361 | 20 | 7 28.4 | 20.4 |
| 336950 2011 $HR_{82}$ | 15.7 | X | 206.82730 | 130.08142 | 123.69958 | 9.67102 | 0.1271084 | 0.17757236 | 3.1348671 | 20 | — | — |
| 336951 2011 $HG_{83}$ | 16.7 | X | 18.87217 | 332.95949 | 263.85624 | 2.88409 | 0.1808400 | 0.22783807 | 2.6549225 | 20 | 6 22.6 | 19.1 |
| 336952 2011 $HL_{84}$ | 15.4 | X | 46.25403 | 207.30821 | 205.19779 | 10.99398 | 0.0511038 | 0.17737428 | 3.1372006 | 20 | — | — |
| 336953 2011 $HO_{88}$ | 17.5 | X | 33.09766 | 23.85306 | 213.83712 | 2.98146 | 0.0599982 | 0.23535159 | 2.5981125 | 20 | 7 5.5 | 20.6 |
| 336954 2011 $HR_{92}$ | 17.6 | X | 34.41832 | 235.32385 | 210.95262 | 6.83165 | 0.0482942 | 0.29814146 | 2.2191558 | 20 | — | — |
| 336955 2011 $HQ_{100}$ | 16.6 | X | 191.47658 | 236.93485 | 149.66292 | 5.73958 | 0.0463428 | 0.21288668 | 2.7778176 | 20 | 4 20.9 | 20.7 |
| 336956 2011 $JU$ | 15.1 | X | 137.27544 | 150.16912 | 171.89434 | 28.60072 | 0.1965690 | 0.17273175 | 3.1931643 | 20 | — | — |
| 336957 2011 $JJ_{2}$ | 16.3 | X | 113.92369 | 328.99909 | 192.97688 | 8.60712 | 0.1004980 | 0.23769072 | 2.5810390 | 20 | 7 16.8 | 20.2 |
| 336958 2011 $JZ_{8}$ | 16.4 | X | 114.59433 | 254.90528 | 196.86900 | 12.32746 | 0.1728598 | 0.21357717 | 2.7718273 | 20 | 4 27.9 | 20.5 |
| 336959 2011 $JP_{9}$ | 15.5 | X | 123.63284 | 232.77112 | 124.31509 | 17.95468 | 0.1596816 | 0.17973830 | 3.1096318 | 20 | 1 14.2 | 20.1 |
| 336960 2011 $JX_{12}$ | 16.0 | X | 211.60132 | 90.47342 | 158.70247 | 17.60903 | 0.1484304 | 0.17661418 | 3.1461952 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 336961 2011 $JC_{14}$ | 15.3 | $X$ | 18.89437 | 300.79504 | 120.00480 | 18.12074 | 0.1154729 | 0.17226367 | 3.1989460 | 20 | — | — |
| 336962 2011 $JZ_{14}$ | 16.0 | $X$ | 12.97601 | 14.75638 | 162.33580 | 15.87117 | 0.0773095 | 0.20594281 | 2.8399125 | 20 | 3 15.1 | 19.4 |
| 336963 2011 $JR_{15}$ | 15.5 | $X$ | 204.27581 | 153.83861 | 111.21411 | 12.49118 | 0.0826503 | 0.18179364 | 3.0861493 | 20 | — | — |
| 336964 2011 $JW_{15}$ | 15.5 | $X$ | 132.46713 | 209.27430 | 124.30915 | 11.10067 | 0.0710649 | 0.17928282 | 3.1148964 | 20 | — | — |
| 336965 2011 $JF_{16}$ | 16.1 | $X$ | 255.84768 | 165.39317 | 124.01072 | 3.08898 | 0.0903482 | 0.20327801 | 2.8646778 | 20 | 2 28.3 | 20.3 |
| 336966 2011 $JB_{17}$ | 15.5 | $X$ | 138.85285 | 234.28758 | 94.65381 | 8.82901 | 0.1852537 | 0.17494114 | 3.1662224 | 20 | — | — |
| 336967 2011 $JF_{17}$ | 16.4 | $X$ | 195.44392 | 79.86749 | 205.08866 | 8.69682 | 0.1948878 | 0.17909416 | 3.1170835 | 20 | — | — |
| 336968 2011 $JJ_{17}$ | 16.1 | $X$ | 289.59598 | 199.51432 | 91.44506 | 5.16418 | 0.1051551 | 0.21097863 | 2.7945404 | 20 | 4 9.4 | 20.0 |
| 336969 2011 $JD_{21}$ | 16.3 | $X$ | 209.32231 | 109.74664 | 159.92433 | 8.82886 | 0.1202198 | 0.18068267 | 3.0987869 | 20 | — | — |
| 336970 2011 $JS_{21}$ | 17.2 | $X$ | 339.66834 | 34.53733 | 183.71032 | 5.13458 | 0.0170528 | 0.20976006 | 2.8053530 | 20 | 3 22.6 | 20.7 |
| 336971 2011 $JM_{26}$ | 16.2 | $X$ | 197.68434 | 34.21799 | 249.10640 | 2.76407 | 0.1889176 | 0.18627529 | 3.0364482 | 20 | — | — |
| 336972 2011 $JQ_{26}$ | 16.7 | $X$ | 190.30599 | 137.53357 | 183.33584 | 11.72199 | 0.0611338 | 0.19056820 | 2.9906741 | 20 | 1 27.9 | 21.4 |
| 336973 2011 $JX_{27}$ | 16.1 | $X$ | 211.49681 | 302.95358 | 297.90911 | 6.97547 | 0.1929311 | 0.17535799 | 3.1612027 | 20 | — | — |
| 336974 2011 $JX_{28}$ | 15.4 | $X$ | 185.87070 | 238.36601 | 80.42003 | 12.37923 | 0.0672482 | 0.18646418 | 3.0343973 | 20 | 1 25.4 | 20.1 |
| 336975 2011 $KA_{1}$ | 17.0 | $X$ | 237.57707 | 187.58288 | 180.97674 | 5.75130 | 0.0901690 | 0.21842931 | 2.7306252 | 20 | 5 16.9 | 21.0 |
| 336976 2011 $KV_{6}$ | 16.1 | $X$ | 236.13813 | 189.81919 | 47.56854 | 1.10669 | 0.1211890 | 0.18140459 | 3.0905601 | 20 | — | — |
| 336977 2011 $KP_{8}$ | 15.6 | $X$ | 244.79684 | 329.65947 | 234.01913 | 16.15515 | 0.1640299 | 0.17706115 | 3.1408983 | 20 | — | — |
| 336978 2011 $KS_{10}$ | 15.9 | $X$ | 125.92446 | 187.89516 | 174.73719 | 16.37164 | 0.0900671 | 0.17952723 | 3.1120686 | 20 | 1 13.2 | 20.7 |
| 336979 2011 $KY_{22}$ | 16.3 | $X$ | 261.53307 | 197.81525 | 171.15642 | 12.08557 | 0.0703803 | 0.22414445 | 2.6840096 | 20 | 6 18.0 | 20.2 |
| 336980 2011 $KE_{23}$ | 15.9 | $X$ | 168.15129 | 195.99753 | 129.72396 | 6.30018 | 0.1346282 | 0.18152198 | 3.0892275 | 20 | 1 18.3 | 20.8 |
| 336981 2011 $KB_{26}$ | 17.4 | $X$ | 352.34597 | 181.84421 | 230.51610 | 5.11875 | 0.1063134 | 0.26964271 | 2.3728863 | 20 | — | — |
| 336982 2011 $KO_{33}$ | 15.5 | $X$ | 232.55942 | 120.01866 | 134.16037 | 12.03317 | 0.0979948 | 0.18013629 | 3.1050498 | 20 | — | — |
| 336983 2011 $KA_{34}$ | 15.5 | $X$ | 219.02139 | 137.50460 | 111.48675 | 10.56401 | 0.0388091 | 0.17825547 | 3.1268530 | 20 | — | — |
| 336984 2011 $KJ_{34}$ | 16.2 | $X$ | 144.41533 | 343.79865 | 113.90020 | 5.84522 | 0.0235286 | 0.21872562 | 2.7281586 | 20 | 5 24.3 | 20.0 |
| 336985 2011 $KL_{38}$ | 15.9 | $X$ | 220.87181 | 132.99240 | 163.97092 | 9.68960 | 0.0395594 | 0.19133797 | 2.9826476 | 20 | 2 2.4 | 20.3 |
| 336986 2011 $KR_{44}$ | 16.3 | $X$ | 276.84728 | 8.55397 | 185.62195 | 2.87677 | 0.1472551 | 0.18287509 | 3.0739704 | 20 | — | — |
| 336987 2011 $KR_{47}$ | 16.8 | $X$ | 153.74300 | 17.24722 | 109.15714 | 4.29396 | 0.0459911 | 0.23240729 | 2.6200096 | 20 | 7 14.0 | 20.4 |
| 336988 2011 $LD$ | 16.5 | $X$ | 236.13549 | 131.16810 | 118.63272 | 3.03109 | 0.0529674 | 0.18419381 | 3.0592810 | 20 | — | — |
| 336989 2011 $LB_{5}$ | 15.2 | $X$ | 121.09775 | 224.95380 | 146.47221 | 10.81634 | 0.0621358 | 0.18242890 | 3.0789807 | 20 | 1 14.9 | 19.6 |
| 336990 2011 $LT_{8}$ | 16.3 | $X$ | 84.83637 | 308.00859 | 162.29714 | 2.34621 | 0.0168048 | 0.20300012 | 2.8672916 | 20 | 3 23.9 | 20.1 |
| 336991 2011 $LV_{14}$ | 16.1 | $X$ | 172.04675 | 69.43228 | 203.10452 | 5.91709 | 0.1023341 | 0.16963375 | 3.2319245 | 20 | — | — |
| 336992 2011 $LS_{25}$ | 15.8 | $X$ | 177.88208 | 329.71225 | 304.47976 | 4.13500 | 0.1107075 | 0.17058569 | 3.2198896 | 20 | — | — |
| 336993 2011 $QQ_{3}$ | 13.5 | $X$ | 302.97970 | 50.43961 | 222.99733 | 8.81396 | 0.0889755 | 0.08244121 | 5.2284524 | 20 | 4 11.7 | 20.2 |
| 336994 2012 $DG_{52}$ | 17.4 | $X$ | 333.89450 | 174.03500 | 107.31163 | 2.68031 | 0.1685762 | 0.26217296 | 2.4177466 | 20 | 5 23.6 | 19.4 |
| 336995 2012 $HO_{50}$ | 15.4 | $X$ | 326.58382 | 202.85681 | 200.88085 | 12.68678 | 0.0448756 | 0.17189888 | 3.2034702 | 20 | 10 29.7 | 19.6 |
| 336996 2012 $KM_{2}$ | 16.2 | $X$ | 89.20609 | 325.81375 | 170.46218 | 15.14279 | 0.1327555 | 0.24262550 | 2.5459220 | 20 | 5 21.5 | 19.9 |
| 336997 2012 $KL_{24}$ | 17.1 | $X$ | 47.03342 | 77.17853 | 261.52619 | 23.08282 | 0.1152895 | 0.39833114 | 1.8293910 | 20 | — | — |
| 336998 2012 $KB_{47}$ | 15.7 | $X$ | 123.15179 | 98.22553 | 207.14828 | 8.83821 | 0.2054282 | 0.17783656 | 3.1317615 | 20 | — | — |
| 336999 2012 $LH$ | 17.4 | $X$ | 63.38711 | 283.74928 | 234.14221 | 19.67562 | 0.0679323 | 0.36197097 | 1.9499354 | 20 | 4 21.9 | 19.1 |
| 337000 2012 $MJ_{3}$ | 16.2 | $X$ | 252.43542 | 180.09961 | 132.36805 | 14.27184 | 0.1331827 | 0.21685174 | 2.7438526 | 20 | 3 22.0 | 20.5 |
| 337001 2012 $MQ_{10}$ | 15.6 | $X$ | 188.89486 | 326.62505 | 296.59690 | 8.79032 | 0.2524509 | 0.18313945 | 3.0710116 | 20 | — | — |
| 337002 Robertbodzon | 16.8 | $X$ | 9.16157 | 48.56803 | 275.11738 | 6.54258 | 0.1497832 | 0.25799717 | 2.4437649 | 20 | 10 11.5 | 19.5 |
| 337003 2012 $OG$ | 17.2 | $X$ | 238.32243 | 129.71812 | 210.09505 | 4.54309 | 0.0597236 | 0.22114813 | 2.7081988 | 20 | 4 12.0 | 20.9 |
| 337004 6507 $P–L$ | 16.2 | $X$ | 120.17724 | 228.95303 | 167.26308 | 10.08381 | 0.1937034 | 0.18860585 | 3.0113827 | 20 | 2 27.9 | 20.8 |
| 337005 2096 $T–2$ | 18.0 | $X$ | 47.57463 | 161.16211 | 198.74297 | 4.16951 | 0.2424271 | 0.27709212 | 2.3301646 | 20 | — | — |
| 337006 1062 $T–3$ | 16.4 | $X$ | 88.01322 | 62.56901 | 268.05603 | 6.23151 | 0.1442434 | 0.28070005 | 2.3101547 | 20 | — | — |
| 337007 2145 $T–3$ | 17.6 | $X$ | 45.27607 | 144.00308 | 241.09575 | 2.50500 | 0.1760918 | 0.28062264 | 2.3105795 | 20 | — | — |
| 337008 2348 $T–3$ | 17.4 | $X$ | 68.24312 | 0.09406 | 346.96936 | 5.63286 | 0.1894292 | 0.28030660 | 2.3123159 | 20 | — | — |
| 337009 1993 $PR_{2}$ | 16.1 | $X$ | 231.25181 | 267.11829 | 144.21685 | 10.09535 | 0.2821521 | 0.21265217 | 2.7798595 | 20 | 6 16.3 | 21.0 |
| 337010 1993 $TE_{17}$ | 16.7 | $X$ | 7.57483 | 182.50389 | 191.50359 | 11.43395 | 0.2396345 | 0.25947407 | 2.4344829 | 20 | — | — |
| 337011 1993 $VW_{5}$ | 17.6 | $X$ | 320.40983 | 260.78709 | 26.86568 | 20.50604 | 0.0696308 | 0.35694963 | 1.9681798 | 20 | 5 11.2 | 19.4 |
| 337012 1994 $NF$ | 17.2 | $X$ | 342.77536 | 52.60440 | 215.32872 | 6.03487 | 0.3559930 | 0.22662356 | 2.6643995 | 20 | 4 24.9 | 18.7 |
| 337013 1994 $PY_{5}$ | 16.2 | $X$ | 283.66883 | 202.49017 | 143.21356 | 10.11408 | 0.3232477 | 0.22235986 | 2.6983511 | 20 | 5 11.9 | 20.3 |
| 337014 1994 $SP_{2}$ | 17.7 | $X$ | 235.08625 | 30.10560 | 338.51837 | 4.62787 | 0.1778528 | 0.21774365 | 2.7363546 | 20 | 5 3.2 | 22.0 |
| 337015 1994 $TS_{10}$ | 16.7 | $X$ | 291.30144 | 285.58941 | 2.76646 | 12.81395 | 0.2197103 | 0.21708678 | 2.7418717 | 20 | 3 19.9 | 20.6 |
| 337016 1994 $TE_{11}$ | 18.0 | $X$ | 3.46622 | 95.74845 | 315.13266 | 1.40496 | 0.2117995 | 0.27215647 | 2.3582523 | 20 | — | — |
| 337017 1995 $DT_{5}$ | 16.2 | $X$ | 159.54936 | 152.75323 | 316.41278 | 8.21819 | 0.1095839 | 0.20896175 | 2.8124935 | 20 | 6 29.9 | 20.7 |
| 337018 1995 $FU_{1}$ | 13.7 | $X$ | 329.80477 | 95.90559 | 158.25901 | 15.87198 | 0.0379607 | 0.08448501 | 5.1437865 | 20 | 5 2.9 | 20.5 |
| 337019 1995 $FW_{8}$ | 13.4 | $X$ | 304.84157 | 271.92419 | 36.58076 | 10.34556 | 0.0777456 | 0.08228336 | 5.2351367 | 20 | 5 24.7 | 20.1 |
| 337020 1995 $OR_{2}$ | 15.9 | $X$ | 184.94974 | 58.02021 | 268.12310 | 8.65006 | 0.0575642 | 0.18054746 | 3.1003338 | 20 | 1 29.6 | 20.7 |
| 337021 1995 $OH_{13}$ | 17.9 | $X$ | 313.06198 | 167.91141 | 153.63499 | 1.18559 | 0.1763612 | 0.23300584 | 2.6155208 | 20 | 6 11.7 | 20.5 |
| 337022 1995 $QE_{4}$ | 18.6 | $X$ | 127.33192 | 130.17993 | 204.16482 | 3.05430 | 0.1961536 | 0.29122624 | 2.2541478 | 20 | — | — |
| 337023 1995 $SW_{10}$ | 15.5 | $X$ | 215.37031 | 286.91716 | 13.25343 | 15.49821 | 0.0422386 | 0.17591595 | 3.1545148 | 20 | 2 9.7 | 20.4 |
| 337024 1995 $SN_{12}$ | 17.5 | $X$ | 286.24180 | 49.30503 | 343.16039 | 2.49630 | 0.1403059 | 0.23435552 | 2.6054691 | 20 | 8 14.8 | 20.5 |
| 337025 1995 $SY_{24}$ | 16.6 | $X$ | 111.71834 | 310.14504 | 102.54083 | 2.58518 | 0.1860096 | 0.17595416 | 3.1540581 | 20 | 3 11.8 | 21.4 |
| 337026 1995 $SQ_{26}$ | 16.7 | $X$ | 248.99714 | 223.02153 | 193.22356 | 5.71676 | 0.2101502 | 0.23001278 | 2.6381617 | 20 | 7 14.9 | 20.7 |
| 337027 1995 $SO_{31}$ | 15.7 | $X$ | 173.82630 | 108.06533 | 260.80493 | 9.46583 | 0.2070740 | 0.18192335 | 3.0846822 | 20 | 3 11.1 | 21.2 |
| 337028 1995 $SY_{33}$ | 16.3 | $X$ | 99.31214 | 35.77439 | 356.18491 | 9.12033 | 0.1003037 | 0.17450085 | 3.1715460 | 20 | 1 23.2 | 20.8 |
| 337029 1995 $SV_{35}$ | 16.6 | $X$ | 277.21023 | 64.51988 | 347.32422 | 4.02019 | 0.1355483 | 0.23522640 | 2.5990343 | 20 | 8 29.1 | 19.5 |
| 337030 1995 $SB_{39}$ | 16.3 | $X$ | 56.00697 | 117.97677 | 14.68014 | 13.50650 | 0.1302819 | 0.17707900 | 3.1406872 | 20 | 3 30.9 | 20.3 |
| 337031 1995 $SD_{39}$ | 17.8 | $X$ | 227.86219 | 220.20836 | 196.35661 | 2.39932 | 0.0986968 | 0.22855018 | 2.6494049 | 20 | 7 5.4 | 21.6 |
| 337032 1995 $SB_{48}$ | 16.6 | $X$ | 267.83539 | 69.69468 | 16.20127 | 12.62992 | 0.1230956 | 0.23669032 | 2.5883066 | 20 | 10 3.9 | 19.7 |
| 337033 1995 $SH_{69}$ | 16.8 | $X$ | 104.75592 | 142.03438 | 229.17241 | 0.24040 | 0.1552312 | 0.17337083 | 3.1853124 | 20 | 1 10.3 | 21.3 |
| 337034 1995 $SH_{76}$ | 16.5 | $X$ | 120.30685 | 220.62655 | 167.62109 | 5.74236 | 0.0505632 | 0.17542961 | 3.1603422 | 20 | 2 2.2 | 21.0 |
| 337035 1995 $UB_{11}$ | 16.0 | $X$ | 133.69417 | 41.89943 | 2.68571 | 9.63844 | 0.1170411 | 0.17818065 | 3.1277283 | 20 | 3 16.6 | 20.7 |
| 337036 1995 $UV_{26}$ | 16.0 | $X$ | 97.18414 | 307.52691 | 109.11955 | 2.93719 | 0.1769671 | 0.17433983 | 3.1734986 | 20 | 2 28.2 | 20.5 |
| 337037 1995 $UW_{30}$ | 18.2 | $X$ | 72.98168 | 263.77165 | 137.51505 | 2.06337 | 0.1269748 | 0.28858481 | 2.2678817 | 20 | — | — |
| 337038 1995 $UN_{65}$ | 16.1 | $X$ | 129.54537 | 296.96188 | 69.75444 | 5.29042 | 0.1926455 | 0.17363245 | 3.1821120 | 20 | 2 6.3 | 21.0 |
| 337039 1995 $UV_{80}$ | 17.5 | $X$ | 298.52259 | 141.96427 | 189.48065 | 5.03107 | 0.0701029 | 0.22611792 | 2.6683701 | 20 | 6 18.1 | 21.0 |
| 337040 1995 $WD_{28}$ | 17.1 | $X$ | 293.01732 | 288.77856 | 56.07051 | 13.51718 | 0.2979241 | 0.23022620 | 2.6365310 | 20 | 5 21.7 | 20.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337041 1995 $XF_3$ | 17.5 | X | 49.12180 | 225.36413 | 169.61969 | 3.52230 | 0.1495148 | 0.28466023 | 2.2886788 | 20 | — | — |
| 337042 1995 $XG_4$ | 16.1 | X | 125.26228 | 220.79816 | 185.54141 | 4.61390 | 0.1739425 | 0.17373953 | 3.1808044 | 20 | 3 15.2 | 20.9 |
| 337043 1996 $AZ_{13}$ | 17.2 | X | 319.92502 | 110.16299 | 358.66252 | 6.00429 | 0.0750295 | 0.27590632 | 2.3368363 | 20 | — | — |
| 337044 Bobdylan | 17.1 | X | 310.49553 | 139.57017 | 344.65223 | 2.14051 | 0.1536128 | 0.27701071 | 2.3306211 | 20 | — | — |
| 337045 1996 $RR_{18}$ | 16.7 | X | 196.09056 | 56.65631 | 292.36068 | 0.35182 | 0.0300850 | 0.18848837 | 3.0126338 | 20 | 3 9.9 | 21.1 |
| 337046 1996 $TM_{12}$ | 16.6 | X | 249.81215 | 226.52025 | 206.10041 | 9.08415 | 0.2092236 | 0.24045552 | 2.5612160 | 20 | 8 5.5 | 20.5 |
| 337047 1996 $TM_{29}$ | 16.7 | X | 148.25620 | 334.76198 | 28.62397 | 0.61837 | 0.1823391 | 0.18212736 | 3.0823782 | 20 | 2 16.3 | 21.6 |
| 337048 1996 $TN_{30}$ | 18.7 | X | 86.11850 | 6.66619 | 41.69733 | 2.56908 | 0.1380368 | 0.30325125 | 2.1941567 | 20 | 1 2.2 | 20.4 |
| 337049 1996 $VX_2$ | 16.7 | X | 103.75202 | 235.63381 | 201.08723 | 6.16616 | 0.2712378 | 0.18109885 | 3.0940377 | 20 | 4 9.8 | 21.5 |
| 337050 1996 $VD_{16}$ | 16.4 | X | 108.56173 | 184.75589 | 55.89413 | 6.50162 | 0.1288360 | 0.24449032 | 2.5329596 | 20 | 10 27.5 | 20.3 |
| 337051 1996 $VF_{25}$ | 16.3 | X | 200.18317 | 256.18977 | 58.37613 | 4.10321 | 0.2562703 | 0.18341581 | 3.0679259 | 20 | 2 4.7 | 21.7 |
| 337052 1996 $VL_{29}$ | 16.7 | X | 313.17252 | 289.43132 | 115.46582 | 7.47029 | 0.2028389 | 0.24497982 | 2.5295844 | 20 | 10 23.9 | 18.9 |
| 337053 1996 $XW_1$ | 19.1 | X | 92.15992 | 264.62100 | 247.87951 | 30.58519 | 0.4542650 | 0.43471873 | 1.7258266 | 20 | 7 15.3 | 22.5 |
| 337054 1996 $XH_{23}$ | 16.7 | X | 277.25944 | 168.43711 | 257.26512 | 4.29916 | 0.1116472 | 0.23827889 | 2.5767899 | 20 | 9 18.9 | 19.8 |
| 337055 1997 $BT_6$ | 17.5 | X | 316.20697 | 198.02125 | 343.42224 | 6.91455 | 0.0819277 | 0.29533111 | 2.2332118 | 20 | — | — |
| 337056 1997 $EA_{10}$ | 16.1 | X | 260.79471 | 109.27261 | 332.52039 | 14.94049 | 0.1174407 | 0.23530855 | 2.5984293 | 20 | 9 13.7 | 19.6 |
| 337057 1997 $EW_{11}$ | 17.0 | X | 121.74628 | 86.36943 | 286.81237 | 5.07935 | 0.1347423 | 0.29794940 | 2.2201094 | 20 | 1 8.8 | 19.5 |
| 337058 1997 $GL_{10}$ | 16.6 | X | 221.06741 | 93.04225 | 32.54246 | 4.90215 | 0.2186720 | 0.23368687 | 2.6104368 | 20 | 9 15.8 | 20.7 |
| 337059 1997 $LZ_1$ | 16.7 | X | 60.01826 | 1.27896 | 184.36901 | 13.24769 | 0.1533252 | 0.21574524 | 2.7532263 | 20 | 6 17.6 | 20.5 |
| 337060 1997 $MY_7$ | 17.0 | X | 65.72989 | 55.71983 | 290.41529 | 6.39007 | 0.1243903 | 0.27012194 | 2.3700789 | 20 | — | — |
| 337061 1997 $RC_9$ | 16.8 | X | 248.71145 | 90.81342 | 258.99419 | 1.70400 | 0.0658908 | 0.20350653 | 2.8625329 | 20 | 5 7.3 | 20.9 |
| 337062 1997 $SZ_{16}$ | 17.8 | X | 64.53993 | 307.03447 | 4.71451 | 14.92462 | 0.2782480 | 0.26421995 | 2.4052431 | 20 | 12 26.8 | 22.1 |
| 337063 1997 $TQ_3$ | 17.6 | X | 66.20437 | 315.12833 | 355.23434 | 2.36211 | 0.2092976 | 0.26346449 | 2.4098388 | 20 | 12 19.9 | 21.2 |
| 337064 1997 $WS_{14}$ | 17.4 | X | 323.09162 | 85.59231 | 36.08459 | 5.32530 | 0.1569699 | 0.26534536 | 2.3984374 | 20 | — | — |
| 337065 1998 $AW_1$ | 17.5 | X | 304.07566 | 152.15733 | 291.64657 | 4.18667 | 0.0811340 | 0.25442389 | 2.4665928 | 20 | 12 6.4 | 20.3 |
| 337066 1998 $BM_{10}$ | 16.1 | X | 324.30259 | 44.90049 | 122.68407 | 24.12692 | 0.3673234 | 0.26173779 | 2.4204257 | 20 | — | — |
| 337067 1998 $BU_{19}$ | 15.4 | X | 323.13763 | 150.92352 | 284.37285 | 1.67645 | 0.1806336 | 0.12405618 | 3.9815953 | 20 | 11 13.7 | 20.1 |
| 337068 1998 $FO_{88}$ | 15.7 | X | 54.29021 | 85.52423 | 44.59144 | 9.34305 | 0.3025817 | 0.18144122 | 3.0901442 | 20 | 4 20.2 | 19.2 |
| 337069 1998 $FX_{134}$ | 18.5 | X | 172.30133 | 253.99653 | 349.49961 | 5.21611 | 0.4287700 | 0.29057355 | 2.2575220 | 20 | 12 18.6 | 22.8 |
| 337070 1998 $HJ$ | 18.1 | X | 234.79676 | 76.73012 | 140.08818 | 6.87101 | 0.1843278 | 0.29637216 | 2.2279791 | 20 | — | — |
| 337071 1998 $HY$ | 16.3 | X | 91.59534 | 29.63342 | 190.84559 | 15.02181 | 0.0603902 | 0.23547019 | 2.5972400 | 20 | 8 30.9 | 20.0 |
| 337072 1998 $HA_8$ | 17.3 | X | 166.94004 | 322.83827 | 196.05467 | 22.26705 | 0.0742608 | 0.37150448 | 1.9164317 | 20 | 9 28.6 | 19.3 |
| 337073 1998 $HF_{43}$ | 17.0 | X | 290.45272 | 251.41373 | 66.69816 | 13.63970 | 0.2734208 | 0.22234881 | 2.6984405 | 20 | 4 22.5 | 20.8 |
| 337074 1998 $HU_{108}$ | 16.8 | X | 301.66198 | 195.94803 | 63.04427 | 9.27729 | 0.5137740 | 0.21741521 | 2.7391098 | 20 | 1 21.9 | 21.7 |
| 337075 1998 $QC_1$ | 19.7 | X | 257.34745 | 115.41274 | 308.38407 | 9.64761 | 0.5899256 | 0.35259387 | 1.9843558 | 20 | 6 27.5 | 23.3 |
| 337076 1998 $QS_{58}$ | 16.4 | X | 250.13729 | 16.98604 | 355.86814 | 4.81674 | 0.1704683 | 0.21471708 | 2.7620084 | 20 | 5 25.2 | 20.6 |
| 337077 1998 $RH_8$ | 17.5 | X | 52.01414 | 11.75219 | 9.05163 | 6.66360 | 0.1800243 | 0.28044207 | 2.3115712 | 20 | — | — |
| 337078 1998 $RZ_{13}$ | 18.1 | X | 100.94840 | 157.51641 | 172.83696 | 4.22817 | 0.2749075 | 0.28412767 | 2.2915378 | 20 | — | — |
| 337079 1998 $RQ_{21}$ | 16.7 | X | 267.58373 | 29.35406 | 357.22968 | 5.91910 | 0.0507800 | 0.21870891 | 2.7282975 | 20 | 7 24.2 | 20.3 |
| 337080 1998 $RH_{45}$ | 17.7 | X | 77.80561 | 187.52946 | 184.75520 | 4.81853 | 0.2593465 | 0.28353937 | 2.2947065 | 20 | — | — |
| 337081 1998 $RG_{62}$ | 17.6 | X | 102.51443 | 167.93619 | 177.32295 | 5.94285 | 0.2153334 | 0.28427573 | 2.2907421 | 20 | — | — |
| 337082 1998 $RG_{74}$ | 16.7 | X | 97.97340 | 129.15196 | 233.46346 | 3.19415 | 0.2043177 | 0.28460841 | 2.2889566 | 20 | — | — |
| 337083 1998 $RH_{81}$ | 18.1 | X | 60.00686 | 178.32283 | 181.08030 | 7.85717 | 0.1978409 | 0.28039449 | 2.3118327 | 20 | — | — |
| 337084 1998 $SE_{36}$ | 19.7 | X | 114.33978 | 27.22757 | 199.23517 | 11.67559 | 0.0991566 | 0.63441967 | 1.3413794 | 20 | — | — |
| 337085 1998 $SA_{47}$ | 17.9 | X | 31.57837 | 14.39341 | 23.36498 | 7.76230 | 0.1879931 | 0.27826450 | 2.3236150 | 20 | — | — |
| 337086 1998 $SZ_{170}$ | 17.0 | X | 99.20881 | 106.25127 | 260.17215 | 3.38150 | 0.2085451 | 0.28603976 | 2.2813143 | 20 | — | — |
| 337087 1998 $SG_{171}$ | 17.9 | X | 90.93502 | 349.93292 | 342.99332 | 3.75569 | 0.3060518 | 0.28250385 | 2.3003105 | 20 | — | — |
| 337088 1998 $TU_9$ | 16.8 | X | 239.77054 | 173.46338 | 33.69963 | 8.68613 | 0.2088171 | 0.28002490 | 2.3138664 | 20 | — | — |
| 337089 1998 $TW_9$ | 17.2 | X | 17.52994 | 190.20658 | 198.68672 | 2.01004 | 0.1828812 | 0.27565112 | 2.3382784 | 20 | — | — |
| 337090 1998 $TJ_{19}$ | 17.6 | X | 80.56019 | 322.11358 | 19.16358 | 25.16193 | 0.2465329 | 0.28086956 | 2.3092251 | 20 | — | — |
| 337091 1998 $US_1$ | 17.7 | X | 91.29032 | 65.63052 | 212.05982 | 8.77770 | 0.3760193 | 0.27613264 | 2.3355592 | 20 | 12 12.4 | 22.2 |
| 337092 1998 $UV_9$ | 16.5 | X | 240.35605 | 172.92410 | 190.93929 | 4.15570 | 0.0869549 | 0.21228480 | 2.7830657 | 20 | 5 14.0 | 20.5 |
| 337093 1998 $UU_{16}$ | 16.7 | X | 217.59417 | 95.33790 | 337.58780 | 22.65596 | 0.3484090 | 0.21257464 | 2.7805353 | 20 | 7 1.7 | 22.1 |
| 337094 1998 $VL_{34}$ | 17.5 | X | 90.20503 | 143.57624 | 233.46713 | 6.00116 | 0.1213181 | 0.28251920 | 2.3002272 | 20 | — | — |
| 337095 1998 $VS_{46}$ | 18.3 | X | 39.64998 | 26.93622 | 54.78856 | 4.98996 | 0.2492096 | 0.28244866 | 2.3006102 | 20 | — | — |
| 337096 1998 $WE_6$ | 16.5 | X | 90.67600 | 300.66575 | 57.77505 | 10.60446 | 0.3008661 | 0.28184254 | 2.3039074 | 20 | — | — |
| 337097 1998 $XS_6$ | 16.0 | X | 215.64519 | 336.62434 | 68.24134 | 10.46525 | 0.1569617 | 0.20952850 | 2.8074195 | 20 | 6 2.0 | 20.3 |
| 337098 1998 $XB_{10}$ | 17.5 | X | 337.93238 | 55.32048 | 74.60606 | 6.64275 | 0.1990895 | 0.27861204 | 2.3216823 | 20 | — | — |
| 337099 1999 $DH$ | 17.4 | X | 310.63268 | 207.02095 | 290.47192 | 4.12760 | 0.1558770 | 0.27030285 | 2.3690213 | 20 | — | — |
| 337100 1999 $FJ_{20}$ | 15.8 | X | 116.77116 | 76.25743 | 357.48992 | 8.62979 | 0.1107377 | 0.18921819 | 3.0048823 | 20 | 3 30.1 | 20.3 |
| 337101 1999 $FZ_{64}$ | 16.3 | X | 140.20169 | 217.49904 | 195.02428 | 9.67982 | 0.1364839 | 0.19088330 | 2.9873820 | 20 | 4 1.7 | 20.7 |
| 337102 1999 $FL_{66}$ | 15.8 | X | 160.12174 | 147.54866 | 179.12881 | 27.19712 | 0.1193555 | 0.17925699 | 3.1151956 | 20 | 1 9.8 | 21.1 |
| 337103 1999 $JA_5$ | 16.5 | X | 34.33777 | 57.54183 | 231.56685 | 18.50841 | 0.3644402 | 0.24259880 | 2.5461087 | 20 | 11 5.8 | 20.0 |
| 337104 1999 $NN_{22}$ | 16.2 | X | 302.46282 | 75.56775 | 293.43301 | 27.48257 | 0.3849493 | 0.23299280 | 2.6156184 | 20 | 6 28.1 | 19.3 |
| 337105 1999 $RR_{15}$ | 16.1 | X | 251.94421 | 4.12365 | 346.37218 | 16.28542 | 0.1986795 | 0.22423151 | 2.6833148 | 20 | 4 19.3 | 20.6 |
| 337106 1999 $RF_{51}$ | 16.7 | X | 304.53215 | 211.15051 | 155.90138 | 3.26651 | 0.3002954 | 0.23264094 | 2.6182551 | 20 | 7 11.6 | 19.2 |
| 337107 1999 $RD_{61}$ | 16.8 | X | 312.30857 | 35.33252 | 314.99695 | 2.57517 | 0.2738887 | 0.23236855 | 2.6203008 | 20 | 7 7.7 | 19.2 |
| 337108 1999 $RV_{84}$ | 16.3 | X | 301.75257 | 356.64451 | 344.56558 | 12.96981 | 0.2958656 | 0.22946805 | 2.6423352 | 20 | 5 26.9 | 19.8 |
| 337109 1999 $RY_{93}$ | 16.7 | X | 280.65671 | 252.66344 | 145.03482 | 6.61067 | 0.3618585 | 0.22935377 | 2.6432128 | 20 | 7 6.6 | 20.4 |
| 337110 1999 $RE_{110}$ | 17.6 | X | 154.95456 | 26.23189 | 308.99255 | 6.68859 | 0.2517004 | 0.30376055 | 2.1917035 | 20 | 1 12.4 | 20.7 |
| 337111 1999 $RP_{177}$ | 17.0 | X | 321.79926 | 163.42642 | 159.07518 | 4.88275 | 0.2931357 | 0.23102642 | 2.6304393 | 20 | 6 11.5 | 19.2 |
| 337112 1999 $RP_{191}$ | 16.2 | X | 304.47050 | 1.17409 | 347.74632 | 13.96603 | 0.0546092 | 0.23020290 | 2.6367089 | 20 | 7 28.9 | 19.7 |
| 337113 1999 $RU_{192}$ | 17.4 | X | 249.56174 | 246.46121 | 156.05862 | 6.69634 | 0.3281936 | 0.22490701 | 2.6779392 | 20 | 6 16.4 | 21.9 |
| 337114 1999 $RZ_{204}$ | 16.3 | X | 273.70245 | 154.57922 | 245.68033 | 11.79516 | 0.2855236 | 0.22898791 | 2.6460274 | 20 | 7 10.9 | 20.0 |
| 337115 1999 $SN_8$ | 15.2 | X | 267.60966 | 298.75298 | 40.47274 | 13.98811 | 0.3243743 | 0.22591132 | 2.6699967 | 20 | 4 16.8 | 19.5 |
| 337116 1999 $SP_{10}$ | 15.5 | X | 306.58756 | 292.74699 | 50.86928 | 17.53470 | 0.2503506 | 0.22895200 | 2.6463041 | 20 | 6 17.2 | 18.6 |
| 337117 1999 $SF_{21}$ | 17.0 | X | 236.84623 | 200.94417 | 228.95614 | 3.06321 | 0.1071114 | 0.22732206 | 2.6589387 | 20 | 8 1.0 | 20.7 |
| 337118 1999 $TX_2$ | 18.3 | X | 161.49706 | 53.55170 | 179.94909 | 61.38013 | 0.4636452 | 0.67988774 | 1.2808882 | 20 | — | — |
| 337119 1999 $TK_{12}$ | 18.6 | X | 109.74554 | 112.13717 | 359.10330 | 24.48559 | 0.3930685 | 0.45142822 | 1.6829721 | 20 | 5 31.8 | 21.6 |
| 337120 1999 $TY_{14}$ | 16.4 | X | 269.80667 | 278.77454 | 94.18259 | 2.90441 | 0.3445478 | 0.22615549 | 2.6680746 | 20 | 5 26.6 | 20.5 |

| Planet | H | G | M | ω | Ω | i | e | μ | a | TE | Oppos. | V |
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| | m | | ° | ° | ° | ° | | ° | | | | |
| 337121 1999 $TV_{34}$ | 15.8 | X | 313.68810 | 331.99608 | 4.97970 | 12.92599 | 0.3004025 | 0.22954832 | 2.6417191 | 20 | 6 12.4 | 18.7 |
| 337122 1999 $TX_{38}$ | 16.6 | X | 283.79091 | 187.66618 | 210.43083 | 7.91854 | 0.3478318 | 0.23076415 | 2.6324320 | 20 | 7 12.1 | 20.1 |
| 337123 1999 $TU_{39}$ | 16.2 | X | 265.52676 | 344.59510 | 60.79103 | 15.32221 | 0.2318114 | 0.22725848 | 2.6594346 | 20 | 7 20.0 | 20.1 |
| 337124 1999 $TB_{49}$ | 16.3 | X | 155.61772 | 136.78692 | 21.15767 | 13.52994 | 0.1305130 | 0.22955764 | 2.6416476 | 20 | 9 3.0 | 20.6 |
| 337125 1999 $TM_{56}$ | 16.5 | X | 241.07154 | 5.61135 | 28.15682 | 6.19753 | 0.0235266 | 0.22370628 | 2.6875131 | 20 | 7 1.4 | 20.2 |
| 337126 1999 $TQ_{61}$ | 16.1 | X | 14.76243 | 271.57311 | 357.29323 | 11.39576 | 0.2712860 | 0.23214190 | 2.6220060 | 20 | 8 21.8 | 18.4 |
| 337127 1999 $TL_{70}$ | 16.5 | X | 350.12854 | 296.00187 | 23.63989 | 12.24139 | 0.1992419 | 0.23131097 | 2.6282816 | 20 | 9 5.6 | 19.0 |
| 337128 1999 $TA_{72}$ | 16.7 | X | 69.60796 | 34.80200 | 205.54612 | 7.80350 | 0.0874555 | 0.22901573 | 2.6458132 | 20 | 9 1.7 | 20.3 |
| 337129 1999 $TY_{72}$ | 16.4 | X | 299.94225 | 62.57411 | 334.41552 | 4.13668 | 0.1504762 | 0.23438680 | 2.6052372 | 20 | 9 11.5 | 19.1 |
| 337130 1999 $TO_{112}$ | 16.2 | X | 294.65852 | 134.47707 | 224.93990 | 3.46486 | 0.1929111 | 0.22890193 | 2.6466900 | 20 | 7 1.8 | 19.2 |
| 337131 1999 $TC_{121}$ | 15.8 | X | 298.51353 | 328.19660 | 15.14400 | 12.43268 | 0.1394042 | 0.22718873 | 2.6599789 | 20 | 6 24.1 | 19.3 |
| 337132 1999 $TO_{131}$ | 16.4 | X | 284.08161 | 172.84340 | 206.85949 | 4.02922 | 0.2262030 | 0.22915396 | 2.6447490 | 20 | 7 8.1 | 19.8 |
| 337133 1999 $TN_{142}$ | 15.6 | X | 340.92167 | 324.15998 | 13.83814 | 14.69801 | 0.1945128 | 0.23408438 | 2.6074807 | 20 | 9 12.4 | 17.9 |
| 337134 1999 $TF_{143}$ | 16.6 | X | 222.38735 | 47.31981 | 15.17582 | 13.92898 | 0.1857834 | 0.22468216 | 2.6797256 | 20 | 6 30.1 | 21.1 |
| 337135 1999 $TP_{164}$ | 16.3 | X | 291.66704 | 334.95514 | 3.23767 | 8.90461 | 0.1512430 | 0.22553296 | 2.6729820 | 20 | 6 2.4 | 19.8 |
| 337136 1999 $TO_{185}$ | 16.0 | X | 273.13860 | 147.73983 | 259.78845 | 11.52980 | 0.2833247 | 0.22880098 | 2.6474684 | 20 | 7 19.9 | 19.8 |
| 337137 1999 $TX_{187}$ | 15.8 | X | 334.38144 | 329.26821 | 359.15932 | 19.02426 | 0.2454002 | 0.23071636 | 2.6327955 | 20 | 8 12.4 | 18.2 |
| 337138 1999 $TH_{204}$ | 17.1 | X | 298.01992 | 103.73369 | 267.31016 | 2.17905 | 0.1297721 | 0.22872168 | 2.6480803 | 20 | 8 3.3 | 20.1 |
| 337139 1999 $TN_{211}$ | 16.9 | X | 8.63083 | 112.34453 | 230.65521 | 20.92358 | 0.0854293 | 0.37976234 | 1.8885484 | 20 | 12 4.2 | 18.6 |
| 337140 1999 $TD_{214}$ | 16.8 | X | 269.38838 | 5.24748 | 45.11560 | 3.31120 | 0.1854668 | 0.22918567 | 2.6445051 | 20 | 8 7.5 | 20.3 |
| 337141 1999 $TM_{222}$ | 16.2 | X | 250.68570 | 38.62381 | 6.71267 | 11.26112 | 0.1811603 | 0.22606759 | 2.6687661 | 20 | 7 9.3 | 20.3 |
| 337142 1999 $TG_{226}$ | 16.4 | X | 20.68323 | 291.30379 | 349.52670 | 11.00635 | 0.1799650 | 0.23357004 | 2.6113072 | 20 | 9 3.6 | 19.1 |
| 337143 1999 $TR_{228}$ | 16.6 | X | 285.52950 | 235.92108 | 162.93537 | 7.71007 | 0.3249570 | 0.22921044 | 2.6443146 | 20 | 7 19.9 | 20.1 |
| 337144 1999 $TQ_{231}$ | 17.7 | X | 152.44461 | 210.34172 | 124.90884 | 5.47415 | 0.2795041 | 0.30391217 | 2.1909745 | 20 | 1 12.1 | 20.8 |
| 337145 1999 $TQ_{256}$ | 16.8 | X | 262.61648 | 213.17820 | 190.57699 | 4.82218 | 0.1990605 | 0.22842190 | 2.6503968 | 20 | 7 15.9 | 20.6 |
| 337146 1999 $TH_{265}$ | 16.6 | X | 288.58833 | 128.43862 | 252.56467 | 10.91031 | 0.3102598 | 0.23021097 | 2.6366473 | 20 | 7 1.9 | 19.9 |
| 337147 1999 $TX_{265}$ | 16.4 | X | 311.78757 | 62.06609 | 274.35329 | 11.04331 | 0.1760032 | 0.22939332 | 2.6429089 | 20 | 7 1.2 | 19.0 |
| 337148 1999 $TG_{271}$ | 16.7 | X | 316.46067 | 36.86945 | 309.63895 | 3.41091 | 0.2792216 | 0.23017630 | 2.6369121 | 20 | 7 10.1 | 18.7 |
| 337149 1999 $TP_{305}$ | 16.6 | X | 289.71843 | 70.99806 | 329.33539 | 11.99788 | 0.2840136 | 0.23090303 | 2.6313763 | 20 | 8 8.1 | 19.6 |
| 337150 1999 $TE_{310}$ | 17.3 | X | 215.33643 | 156.60319 | 292.93500 | 1.76559 | 0.0511608 | 0.22723016 | 2.6596556 | 20 | 8 8.4 | 21.1 |
| 337151 1999 $TE_{312}$ | 16.4 | X | 269.11583 | 43.70815 | 2.50265 | 13.95748 | 0.1496791 | 0.23084812 | 2.6317935 | 20 | 8 11.8 | 20.0 |
| 337152 1999 $TF_{312}$ | 16.7 | X | 291.61381 | 8.97024 | 4.01157 | 12.53769 | 0.0449060 | 0.23084680 | 2.6318036 | 20 | 8 14.2 | 20.2 |
| 337153 1999 $TH_{312}$ | 16.4 | X | 298.51037 | 304.75816 | 42.61368 | 12.60915 | 0.3253789 | 0.22918996 | 2.6444721 | 20 | 5 26.9 | 19.7 |
| 337154 1999 $TP_{314}$ | 17.6 | X | 213.64474 | 110.51499 | 300.94094 | 2.10320 | 0.1041832 | 0.22216659 | 2.6999158 | 20 | 6 12.1 | 21.5 |
| 337155 1999 $TK_{316}$ | 16.9 | X | 229.34976 | 239.79677 | 219.11330 | 3.69717 | 0.1509733 | 0.22792064 | 2.6542813 | 20 | 8 24.6 | 20.9 |
| 337156 1999 $TY_{335}$ | 18.3 | X | 129.04357 | 336.89226 | 27.95983 | 4.69372 | 0.1883090 | 0.30177279 | 2.2013174 | 20 | 1 15.9 | 21.0 |
| 337157 1999 $UA_{5}$ | 16.3 | X | 215.24317 | 85.54627 | 23.54166 | 5.76252 | 0.4742320 | 0.22557915 | 2.6726171 | 20 | 8 3.9 | 21.6 |
| 337158 1999 $UP_{7}$ | 15.8 | X | 151.37935 | 154.41745 | 22.77544 | 34.01630 | 0.1785599 | 0.23133193 | 2.6281229 | 20 | 9 30.1 | 20.4 |
| 337159 1999 $UU_{18}$ | 17.3 | X | 210.99496 | 60.11132 | 34.14437 | 1.56086 | 0.2483664 | 0.22436804 | 2.6822261 | 20 | 7 24.9 | 21.8 |
| 337160 1999 $UE_{19}$ | 16.3 | X | 289.01322 | 336.03643 | 35.42712 | 12.08435 | 0.1813508 | 0.22771942 | 2.6558446 | 20 | 7 14.6 | 19.8 |
| 337161 1999 $UF_{21}$ | 17.1 | X | 11.62574 | 244.94422 | 59.06743 | 4.38475 | 0.0709686 | 0.23148453 | 2.6269677 | 20 | 9 8.1 | 20.2 |
| 337162 1999 $UE_{23}$ | 16.5 | X | 213.56759 | 287.81225 | 214.56775 | 28.02545 | 0.3369527 | 0.22894181 | 2.6463827 | 20 | 9 12.4 | 21.6 |
| 337163 1999 $UU_{23}$ | 16.3 | X | 268.34331 | 111.33531 | 265.02038 | 5.86512 | 0.2711036 | 0.22622691 | 2.6675130 | 20 | 6 7.2 | 20.3 |
| 337164 1999 $UN_{28}$ | 17.1 | X | 250.71074 | 18.10217 | 40.98591 | 3.07598 | 0.1062287 | 0.22883882 | 2.6471766 | 20 | 8 6.5 | 20.7 |
| 337165 1999 $UM_{49}$ | 16.3 | X | 251.04242 | 207.44793 | 227.35575 | 13.80373 | 0.1606897 | 0.22863879 | 2.6487203 | 20 | 8 12.9 | 20.3 |
| 337166 Ivanartioukhov | 16.3 | X | 264.24394 | 194.44916 | 240.74516 | 11.53367 | 0.2661720 | 0.22883160 | 2.6472323 | 20 | 8 14.9 | 20.2 |
| 337167 1999 $VN_{13}$ | 17.3 | X | 343.75785 | 130.80840 | 240.44375 | 20.66108 | 0.1222477 | 0.37857878 | 1.8924825 | 20 | 12 13.2 | 18.7 |
| 337168 1999 $VF_{14}$ | 17.1 | X | 291.68370 | 325.78319 | 41.31986 | 21.29133 | 0.1019362 | 0.36894100 | 1.9252986 | 20 | 8 25.0 | 19.3 |
| 337169 1999 $VP_{14}$ | 16.4 | X | 172.42003 | 111.85858 | 34.40256 | 12.80769 | 0.1041784 | 0.22696328 | 2.6617401 | 20 | 9 5.7 | 20.6 |
| 337170 1999 $VV_{34}$ | 16.0 | X | 268.91797 | 179.49293 | 241.30651 | 13.73397 | 0.2303086 | 0.22740071 | 2.6583256 | 20 | 8 6.3 | 19.9 |
| 337171 1999 $VP_{41}$ | 16.9 | X | 329.09187 | 159.98732 | 190.10363 | 8.26988 | 0.1127542 | 0.23326308 | 2.6135975 | 20 | 8 29.4 | 19.7 |
| 337172 1999 $VR_{42}$ | 16.9 | X | 292.78019 | 92.87707 | 257.87301 | 2.71562 | 0.2168909 | 0.22670285 | 2.6637782 | 20 | 6 12.6 | 20.0 |
| 337173 1999 $VS_{42}$ | 17.6 | X | 197.04632 | 110.69510 | 1.85369 | 2.91083 | 0.3165912 | 0.22373818 | 2.6872577 | 20 | 8 2.7 | 22.4 |
| 337174 1999 $VD_{47}$ | 16.5 | X | 243.28235 | 4.08456 | 46.63483 | 14.97892 | 0.2435632 | 0.22423552 | 2.6832828 | 20 | 6 28.5 | 21.0 |
| 337175 1999 $VZ_{62}$ | 17.0 | X | 312.99622 | 14.48405 | 49.54410 | 4.38998 | 0.2434948 | 0.23527648 | 2.5986654 | 20 | 11 12.7 | 18.8 |
| 337176 1999 $VQ_{75}$ | 17.9 | X | 288.47344 | 183.92437 | 198.98285 | 2.08064 | 0.1853322 | 0.22737573 | 2.6585203 | 20 | 7 26.4 | 21.1 |
| 337177 1999 $VT_{75}$ | 17.2 | X | 196.50279 | 13.40712 | 63.02148 | 5.85168 | 0.0982576 | 0.22044743 | 2.7139344 | 20 | 6 26.3 | 21.3 |
| 337178 1999 $VL_{80}$ | 17.0 | X | 250.15985 | 181.80531 | 215.16825 | 9.66308 | 0.3555801 | 0.22424554 | 2.6832028 | 20 | 6 7.3 | 21.7 |
| 337179 1999 $VZ_{82}$ | 16.2 | X | 29.46523 | 247.25682 | 23.19353 | 12.46694 | 0.0726671 | 0.22806546 | 2.6531576 | 20 | 8 23.4 | 19.7 |
| 337180 1999 $VK_{102}$ | 16.3 | X | 270.22146 | 340.92440 | 52.92317 | 11.50976 | 0.1407934 | 0.22625058 | 2.6673269 | 20 | 7 25.3 | 20.0 |
| 337181 1999 $VA_{117}$ | 17.1 | X | 129.80369 | 290.71847 | 226.93196 | 20.18501 | 0.0644681 | 0.36604404 | 1.9354435 | 20 | 7 29.8 | 20.0 |
| 337182 1999 $VL_{118}$ | 17.3 | X | 310.50922 | 259.28623 | 57.97445 | 11.93169 | 0.2122917 | 0.22388585 | 2.6860760 | 20 | 5 25.0 | 20.2 |
| 337183 1999 $VM_{119}$ | 16.9 | X | 113.70340 | 278.16083 | 254.98424 | 3.45900 | 0.0760066 | 0.22438333 | 2.6821043 | 20 | 7 28.8 | 20.8 |
| 337184 1999 $VM_{124}$ | 16.7 | X | 295.07053 | 349.98555 | 2.12210 | 7.05280 | 0.2305182 | 0.22934776 | 2.6432590 | 20 | 6 15.3 | 20.0 |
| 337185 1999 $VJ_{140}$ | 17.0 | X | 354.92406 | 301.73171 | 4.07730 | 1.92624 | 0.2012108 | 0.22990135 | 2.6390140 | 20 | 8 19.6 | 19.0 |
| 337186 1999 $VZ_{143}$ | 17.3 | X | 93.22761 | 21.22346 | 37.56984 | 7.37725 | 0.1517026 | 0.30148907 | 2.2026982 | 20 | 2 5.3 | 19.6 |
| 337187 1999 $VV_{145}$ | 16.6 | X | 285.20096 | 278.51841 | 76.74513 | 4.21504 | 0.1153055 | 0.22298363 | 2.6933165 | 20 | 6 24.3 | 20.0 |
| 337188 1999 $VF_{155}$ | 16.3 | X | 232.80397 | 192.48903 | 228.48103 | 13.19691 | 0.2280886 | 0.22365134 | 2.6879532 | 20 | 7 1.6 | 20.8 |
| 337189 1999 $VF_{156}$ | 17.3 | X | 280.50801 | 339.93905 | 61.68623 | 2.36252 | 0.2325372 | 0.22815888 | 2.6524332 | 20 | 8 2.9 | 20.5 |
| 337190 1999 $VU_{158}$ | 16.8 | X | 253.49323 | 145.57942 | 270.00779 | 3.58418 | 0.2479544 | 0.22607182 | 2.6687328 | 20 | 7 14.9 | 20.8 |
| 337191 1999 $VZ_{182}$ | 16.0 | X | 171.87899 | 228.47279 | 234.15570 | 20.71604 | 0.0964395 | 0.21973887 | 2.7197655 | 20 | 6 30.1 | 20.4 |
| 337192 1999 $VB_{191}$ | 16.2 | X | 227.94089 | 29.55246 | 35.86870 | 12.11315 | 0.1717723 | 0.22454149 | 2.6808447 | 20 | 7 11.4 | 20.5 |
| 337193 1999 $VY_{198}$ | 17.3 | X | 145.95349 | 213.65841 | 157.21478 | 5.49818 | 0.1876321 | 0.30421499 | 2.1895203 | 20 | 2 10.2 | 20.4 |
| 337194 1999 $VQ_{211}$ | 16.8 | X | 222.71987 | 351.32370 | 56.87221 | 7.15690 | 0.0754814 | 0.22153885 | 2.7050136 | 20 | 6 20.4 | 20.6 |
| 337195 1999 $VA_{213}$ | 16.4 | X | 216.17003 | 30.04515 | 48.60092 | 10.87139 | 0.0581805 | 0.22427218 | 2.6829904 | 20 | 7 28.4 | 20.4 |
| 337196 1999 $WV_{5}$ | 17.2 | X | 134.34167 | 320.73508 | 57.56782 | 7.37789 | 0.1256530 | 0.30264024 | 2.1971090 | 20 | 2 2.1 | 20.0 |
| 337197 1999 $WO_{18}$ | 16.4 | X | 235.34686 | 314.72581 | 50.98823 | 12.33100 | 0.1122800 | 0.21895801 | 2.7262279 | 20 | 5 7.7 | 20.5 |
| 337198 1999 $WL_{19}$ | 16.8 | X | 236.66561 | 32.22750 | 64.96447 | 14.56032 | 0.2218212 | 0.22715047 | 2.6602776 | 20 | 8 31.1 | 21.1 |
| 337199 1999 $WD_{24}$ | 18.1 | X | 158.17435 | 214.00017 | 89.69025 | 0.80518 | 0.1956048 | 0.29674256 | 2.2261247 | 20 | — | — |
| 337200 1999 $XV_{13}$ | 16.2 | X | 218.51747 | 338.05930 | 108.79022 | 10.35992 | 0.2733724 | 0.22259938 | 2.6964151 | 20 | 7 20.0 | 20.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337201 1999 $XU_{16}$ | 16.4 | X | 124.28087 | 100.16163 | 250.30684 | 7.27294 | 0.2211902 | 0.29708050 | 2.2244362 | 20 | — | — |
| 337202 1999 $XJ_{17}$ | 15.6 | X | 246.13081 | 158.87461 | 285.54591 | 25.74892 | 0.3006712 | 0.22428026 | 2.6829260 | 20 | 7 31.3 | 20.1 |
| 337203 1999 $XL_{27}$ | 15.7 | X | 214.74251 | 24.37435 | 66.68354 | 14.11911 | 0.1022221 | 0.22444807 | 2.6815885 | 20 | 8 9.1 | 19.9 |
| 337204 1999 $XJ_{79}$ | 17.0 | X | 249.03300 | 155.01262 | 251.44374 | 3.94483 | 0.2276030 | 0.22311479 | 2.6922609 | 20 | 6 30.8 | 21.0 |
| 337205 1999 $XJ_{196}$ | 16.2 | X | 183.36492 | 147.03390 | 299.21122 | 15.54199 | 0.2008510 | 0.21642376 | 2.7474687 | 20 | 6 24.5 | 20.9 |
| 337206 1999 $XJ_{240}$ | 17.5 | X | 87.65020 | 48.95750 | 6.63252 | 5.77743 | 0.1773212 | 0.29923005 | 2.2137704 | 20 | 1 25.3 | 19.5 |
| 337207 1999 $XA_{245}$ | 16.2 | X | 217.60676 | 150.17233 | 254.75294 | 13.26312 | 0.1945277 | 0.21981775 | 2.7191148 | 20 | 6 1.8 | 20.5 |
| 337208 1999 $XN_{250}$ | 17.6 | X | 109.32313 | 85.89195 | 295.07598 | 3.45706 | 0.2401357 | 0.29663766 | 2.2266495 | 20 | 1 19.5 | 20.0 |
| 337209 1999 $YQ_{11}$ | 17.2 | X | 358.88034 | 60.62968 | 94.17717 | 6.43473 | 0.1020643 | 0.29716870 | 2.2239960 | 20 | — | — |
| 337210 2000 $AT_{52}$ | 15.6 | X | 307.76499 | 102.39631 | 261.63935 | 14.92199 | 0.2579818 | 0.22905204 | 2.6455335 | 20 | 7 17.8 | 18.5 |
| 337211 2000 $AV_{94}$ | 17.4 | X | 323.20706 | 210.50963 | 299.24488 | 5.89136 | 0.1633939 | 0.28924671 | 2.2644206 | 20 | — | — |
| 337212 2000 $AC_{223}$ | 16.0 | X | 277.07370 | 260.36554 | 102.98027 | 9.83772 | 0.1350356 | 0.21884366 | 2.7271775 | 20 | 6 20.9 | 19.5 |
| 337213 2000 $AE_{226}$ | 16.5 | X | 175.49132 | 200.96209 | 292.80431 | 8.45162 | 0.1667532 | 0.21940043 | 2.7225617 | 20 | 8 13.2 | 21.0 |
| 337214 2000 $BV$ | 16.6 | X | 280.45412 | 80.81711 | 336.95817 | 26.75215 | 0.4113914 | 0.22865298 | 2.6486107 | 20 | 8 4.2 | 20.4 |
| 337215 2000 $BE_{12}$ | 16.7 | X | 116.48441 | 310.98597 | 136.34069 | 7.46331 | 0.0317709 | 0.20341764 | 2.8633668 | 20 | 4 8.8 | 20.8 |
| 337216 2000 $BO_{21}$ | 16.9 | X | 341.72637 | 175.49255 | 311.92104 | 7.75701 | 0.0588870 | 0.28768772 | 2.2725939 | 20 | — | — |
| 337217 2000 $BF_{39}$ | 17.9 | X | 288.41054 | 226.45973 | 297.34102 | 2.55384 | 0.0960170 | 0.28534020 | 2.2850414 | 20 | — | — |
| 337218 2000 $BV_{43}$ | 17.9 | X | 315.14495 | 213.98161 | 309.65794 | 3.75577 | 0.1158464 | 0.28877394 | 2.2668914 | 20 | — | — |
| 337219 2000 $CF_{100}$ | 17.8 | X | 340.59136 | 156.75417 | 319.83858 | 5.08539 | 0.1000957 | 0.28637284 | 2.2795450 | 20 | — | — |
| 337220 2000 $CC_{109}$ | 16.5 | X | 252.33231 | 165.93870 | 134.45858 | 13.12790 | 0.1168216 | 0.20089054 | 2.8873298 | 20 | 3 8.4 | 20.9 |
| 337221 2000 $CB_{129}$ | 17.1 | X | 177.06284 | 324.86955 | 307.08200 | 7.27413 | 0.1161081 | 0.28436208 | 2.2902783 | 20 | — | — |
| 337222 2000 $DC_{14}$ | 17.3 | X | 128.29225 | 299.15543 | 337.18384 | 6.05672 | 0.1315134 | 0.27452027 | 2.3446954 | 20 | — | — |
| 337223 2000 $EN_{1}$ | 16.9 | X | 164.41555 | 178.26129 | 334.25864 | 7.71660 | 0.2610515 | 0.21669234 | 2.7451980 | 20 | 8 27.8 | 21.9 |
| 337224 2000 $EF_{3}$ | 16.5 | X | 238.30389 | 197.73014 | 349.20422 | 7.16712 | 0.1099782 | 0.27798520 | 2.3251712 | 20 | — | — |
| 337225 2000 $EH_{27}$ | 17.7 | X | 283.51943 | 322.24415 | 212.14534 | 1.69926 | 0.1557001 | 0.28256667 | 2.2999696 | 20 | — | — |
| 337226 2000 $EL_{98}$ | 17.4 | X | 283.62446 | 9.48202 | 150.38619 | 8.29090 | 0.0249821 | 0.28305271 | 2.2973359 | 20 | — | — |
| 337227 2000 $EH_{160}$ | 17.3 | X | 159.44935 | 265.58274 | 332.02545 | 6.93529 | 0.1424238 | 0.27291989 | 2.3538526 | 20 | 12 14.9 | 21.0 |
| 337228 2000 $FL_{1}$ | 15.4 | X | 204.97625 | 7.78575 | 78.83065 | 43.46714 | 0.5242932 | 0.21662400 | 2.7457754 | 20 | 6 24.6 | 21.3 |
| 337229 2000 $FP_{50}$ | 16.5 | X | 332.16835 | 311.75647 | 292.05513 | 0.90503 | 0.0050670 | 0.19887295 | 2.9068251 | 20 | 4 16.2 | 20.5 |
| 337230 2000 $GR_{47}$ | 16.9 | X | 88.04098 | 59.99143 | 203.12591 | 11.81901 | 0.2387781 | 0.26183901 | 2.4198019 | 20 | 11 15.0 | 20.9 |
| 337231 2000 $GK_{57}$ | 16.4 | X | 171.96925 | 278.59290 | 211.55826 | 5.90134 | 0.2637915 | 0.21231135 | 2.7828336 | 20 | 8 4.3 | 21.5 |
| 337232 2000 $GZ_{145}$ | 16.3 | X | 249.77436 | 245.98108 | 43.57414 | 1.00443 | 0.0664050 | 0.19179425 | 2.9779152 | 20 | 2 25.1 | 20.6 |
| 337233 2000 $GW_{175}$ | 17.0 | X | 279.51178 | 346.38108 | 187.35734 | 7.68052 | 0.2010761 | 0.28178543 | 2.3042187 | 20 | — | — |
| 337234 2000 $HJ_{18}$ | 17.6 | X | 100.88562 | 99.15687 | 219.07517 | 7.03442 | 0.1356686 | 0.27023664 | 2.3694082 | 20 | — | — |
| 337235 2000 $HX_{22}$ | 16.8 | X | 248.60443 | 129.22219 | 71.36300 | 7.48034 | 0.0684497 | 0.27846312 | 2.3225100 | 20 | — | — |
| 337236 2000 $HM_{59}$ | 16.0 | X | 254.77580 | 13.50054 | 239.15751 | 3.40674 | 0.1972180 | 0.18436317 | 3.0574071 | 20 | 1 7.3 | 21.0 |
| 337237 2000 $HM_{63}$ | 17.1 | X | 238.34747 | 153.81982 | 43.63826 | 5.92232 | 0.1589171 | 0.27613251 | 2.3355600 | 20 | — | — |
| 337238 2000 $HH_{74}$ | 16.4 | X | 250.68953 | 29.60560 | 217.88071 | 7.79793 | 0.2043350 | 0.18310604 | 3.0713851 | 20 | — | — |
| 337239 2000 $JZ_{13}$ | 16.0 | X | 249.01719 | 219.68770 | 53.00867 | 13.91095 | 0.2411810 | 0.18460142 | 3.0547759 | 20 | 1 25.8 | 21.4 |
| 337240 2000 $JS_{16}$ | 16.1 | X | 297.52760 | 316.43300 | 233.66312 | 22.86043 | 0.1868929 | 0.28371369 | 2.2937664 | 20 | — | — |
| 337241 2000 $KE_{12}$ | 16.2 | X | 58.58982 | 104.70062 | 240.22975 | 11.48260 | 0.2654083 | 0.26508489 | 2.4000082 | 20 | — | — |
| 337242 2000 $KF_{40}$ | 17.2 | X | 102.95235 | 263.96673 | 56.24278 | 6.96974 | 0.1725756 | 0.26924195 | 2.3752403 | 20 | — | — |
| 337243 2000 $NC_{7}$ | 17.2 | X | 21.14703 | 133.72554 | 196.75179 | 2.82483 | 0.1991350 | 0.25379710 | 2.4706522 | 20 | 11 20.8 | 20.0 |
| 337244 2000 $PX_{26}$ | 14.9 | X | 141.63304 | 123.93827 | 238.53925 | 16.98131 | 0.2098479 | 0.17177084 | 3.2050619 | 20 | 2 5.9 | 20.4 |
| 337245 2000 $QX_{148}$ | 15.3 | X | 248.40083 | 210.26752 | 54.45503 | 18.39586 | 0.1825043 | 0.17823924 | 3.1270429 | 20 | 1 20.2 | 20.7 |
| 337246 2000 $QJ_{178}$ | 17.7 | X | 22.82349 | 133.74738 | 208.71072 | 4.53595 | 0.2840117 | 0.25335917 | 2.4734984 | 20 | 12 21.4 | 20.9 |
| 337247 2000 $QA_{229}$ | 15.0 | X | 198.38790 | 295.47444 | 345.55945 | 17.97201 | 0.1099017 | 0.16894126 | 3.2407502 | 20 | — | — |
| 337248 2000 $RH_{60}$ | 20.1 | X | 275.22839 | 354.39297 | 177.87977 | 19.64663 | 0.5513014 | 1.31317985 | 0.8258856 | 20 | — | — |
| 337249 2000 $RY_{60}$ | 16.4 | X | 14.09803 | 164.62169 | 209.25110 | 7.22532 | 0.1206777 | 0.25447415 | 2.4662680 | 20 | 12 25.8 | 19.5 |
| 337250 2000 $RV_{96}$ | 14.8 | X | 151.28981 | 82.33774 | 258.68777 | 19.52220 | 0.2596514 | 0.17072758 | 3.2181054 | 20 | 1 24.7 | 20.5 |
| 337251 2000 $RA_{105}$ | 16.9 | X | 324.89321 | 122.09402 | 253.51572 | 7.05784 | 0.2828930 | 0.24518813 | 2.5281515 | 20 | 9 22.7 | 18.5 |
| 337252 2000 $SD_{8}$ | 20.8 | X | 240.75754 | 211.61973 | 19.07723 | 6.54785 | 0.3136587 | 0.82184606 | 1.1287794 | 20 | — | — |
| 337253 2000 $SA_{11}$ | 16.5 | X | 266.25183 | 89.88993 | 346.95615 | 21.22116 | 0.3357049 | 0.24119508 | 2.5559778 | 20 | 8 21.7 | 20.1 |
| 337254 2000 $SU_{40}$ | 16.5 | X | 340.10652 | 78.63432 | 242.98994 | 11.83985 | 0.1993677 | 0.24287599 | 2.5441711 | 20 | 8 3.8 | 18.9 |
| 337255 2000 $SX_{72}$ | 16.8 | X | 295.44028 | 23.62077 | 24.41017 | 8.24206 | 0.3182252 | 0.24360700 | 2.5390789 | 20 | 8 28.5 | 19.3 |
| 337256 2000 $SP_{86}$ | 16.2 | X | 293.35040 | 321.09987 | 80.72463 | 5.72430 | 0.1479252 | 0.24341264 | 2.5404304 | 20 | 9 12.9 | 19.0 |
| 337257 2000 $SJ_{98}$ | 17.1 | X | 298.94194 | 209.13695 | 199.11127 | 9.48990 | 0.2756665 | 0.24510315 | 2.5287358 | 20 | 9 6.9 | 19.5 |
| 337258 2000 $SV_{136}$ | 15.4 | X | 170.30070 | 102.80466 | 244.66719 | 14.02408 | 0.2412321 | 0.17230614 | 3.1984204 | 20 | 2 13.9 | 21.2 |
| 337259 2000 $SD_{175}$ | 16.8 | X | 304.35452 | 162.73327 | 258.31617 | 6.54848 | 0.2224880 | 0.24664177 | 2.5182082 | 20 | 10 19.8 | 18.9 |
| 337260 2000 $SJ_{195}$ | 15.7 | X | 138.11451 | 57.95507 | 354.03775 | 14.94802 | 0.1800053 | 0.17490421 | 3.1666681 | 20 | 3 31.6 | 20.9 |
| 337261 2000 $SZ_{198}$ | 17.4 | X | 334.02911 | 229.91599 | 182.26924 | 3.91705 | 0.2037845 | 0.25136749 | 2.4865469 | 20 | 12 22.5 | 19.5 |
| 337262 2000 $SS_{200}$ | 16.9 | X | 43.65412 | 339.05239 | 4.49016 | 6.34255 | 0.1136975 | 0.25478109 | 2.4642868 | 20 | 12 24.5 | 20.3 |
| 337263 2000 $SZ_{215}$ | 17.2 | X | 294.71783 | 215.60666 | 194.68054 | 5.64842 | 0.1888976 | 0.24544201 | 2.5264078 | 20 | 9 17.7 | 19.8 |
| 337264 2000 $SS_{254}$ | 16.5 | X | 213.38803 | 170.40694 | 177.22998 | 13.80236 | 0.1322409 | 0.22821784 | 2.6519764 | 20 | 3 21.8 | 20.8 |
| 337265 2000 $SP_{255}$ | 17.7 | X | 330.10727 | 327.41706 | 28.42986 | 11.07363 | 0.2724312 | 0.24507043 | 2.5289609 | 20 | 9 15.7 | 19.3 |
| 337266 2000 $SY_{328}$ | 15.8 | X | 281.49916 | 133.28174 | 254.77123 | 14.43671 | 0.1207917 | 0.24125832 | 2.5555312 | 20 | 7 29.7 | 19.3 |
| 337267 2000 $SJ_{361}$ | 15.5 | X | 172.36370 | 289.77430 | 17.90755 | 25.61327 | 0.2348860 | 0.16997419 | 3.2276076 | 20 | 1 12.9 | 21.5 |
| 337268 2000 $TH_{67}$ | 16.5 | X | 262.49638 | 21.81556 | 29.76059 | 12.74350 | 0.1647106 | 0.24106008 | 2.5569320 | 20 | 8 8.6 | 20.1 |
| 337269 2000 $UT_{23}$ | 16.9 | X | 302.87058 | 318.00085 | 73.85265 | 6.34321 | 0.2858470 | 0.24251921 | 2.5466658 | 20 | 8 24.6 | 19.1 |
| 337270 2000 $UE_{45}$ | 17.1 | X | 328.72313 | 172.70555 | 205.08702 | 4.51367 | 0.2595456 | 0.24488759 | 2.5302195 | 20 | 10 14.8 | 18.6 |
| 337271 2000 $UY_{63}$ | 17.0 | X | 326.02217 | 155.26508 | 240.17551 | 11.43865 | 0.2327692 | 0.24654855 | 2.5188429 | 20 | 11 5.3 | 18.9 |
| 337272 2000 $UA_{64}$ | 16.6 | X | 304.76748 | 181.21676 | 231.82944 | 10.70685 | 0.1438862 | 0.24676166 | 2.5173924 | 20 | 10 16.6 | 19.3 |
| 337273 2000 $UE_{76}$ | 16.6 | X | 317.77439 | 347.61497 | 34.36607 | 14.67427 | 0.2729311 | 0.24320240 | 2.5418942 | 20 | 9 24.8 | 18.5 |
| 337274 2000 $UJ_{76}$ | 16.6 | X | 300.05541 | 334.94503 | 59.09742 | 13.42914 | 0.2746235 | 0.24270390 | 2.5453736 | 20 | 8 28.9 | 19.3 |
| 337275 2000 $UD_{77}$ | 16.9 | X | 292.59804 | 33.08969 | 44.57346 | 10.05802 | 0.2377028 | 0.24576787 | 2.5241741 | 20 | 10 21.2 | 19.0 |
| 337276 2000 $UB_{82}$ | 17.2 | X | 315.26163 | 333.26659 | 43.47559 | 7.05167 | 0.2204247 | 0.24360374 | 2.5391016 | 20 | 9 11.1 | 19.3 |
| 337277 2000 $UE_{92}$ | 16.5 | X | 258.21989 | 191.25605 | 235.14048 | 13.72613 | 0.1711637 | 0.23995459 | 2.5647793 | 20 | 8 9.9 | 20.3 |
| 337278 2000 $VS_{3}$ | 17.3 | X | 262.83708 | 216.00148 | 213.77206 | 4.36093 | 0.2412153 | 0.24085311 | 2.5583966 | 20 | 8 14.4 | 20.8 |
| 337279 2000 $VG_{59}$ | 15.8 | X | 340.57782 | 96.03952 | 274.93329 | 11.72775 | 0.1957596 | 0.24496282 | 2.5297015 | 20 | 10 26.6 | 18.3 |
| 337280 2000 $VL_{60}$ | 16.6 | X | 244.66263 | 233.37540 | 214.07868 | 5.41650 | 0.1139498 | 0.24096096 | 2.5576332 | 20 | 9 2.8 | 20.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337281 2000 $WC_{15}$ | 15.7 | $X$ | 329.33763 | 331.96348 | 47.36964 | 8.51763 | 0.1760159 | 0.24320007 | 2.5419105 | 20 | 10 19.5 | 17.8 |
| 337282 2000 $WB_{33}$ | 16.9 | $X$ | 321.92365 | 273.61779 | 111.81945 | 5.94936 | 0.2663384 | 0.24360265 | 2.5391092 | 20 | 10 10.7 | 18.5 |
| 337283 2000 $WR_{67}$ | 17.7 | $X$ | 266.78109 | 235.08639 | 236.83818 | 7.07127 | 0.4099836 | 0.24159522 | 2.5531549 | 20 | 9 17.9 | 21.4 |
| 337284 2000 $WM_{74}$ | 16.7 | $X$ | 278.86306 | 151.86299 | 284.63852 | 4.32642 | 0.2517659 | 0.24302454 | 2.5431343 | 20 | 9 14.4 | 19.6 |
| 337285 2000 $WX_{89}$ | 16.2 | $X$ | 286.76717 | 179.10952 | 250.61600 | 13.72685 | 0.0722296 | 0.24281075 | 2.5446269 | 20 | 10 13.6 | 19.5 |
| 337286 2000 $WQ_{111}$ | 16.4 | $X$ | 333.69260 | 341.50136 | 41.44480 | 6.94417 | 0.2495737 | 0.24483227 | 2.5306006 | 20 | 11 6.9 | 18.2 |
| 337287 2000 $WW_{147}$ | 15.8 | $X$ | 322.37546 | 76.17013 | 276.60400 | 4.90769 | 0.2053141 | 0.23719214 | 2.5846546 | 20 | 8 13.7 | 18.0 |
| 337288 2000 $WL_{156}$ | 16.7 | $X$ | 322.57707 | 104.82853 | 289.02073 | 6.23138 | 0.2696050 | 0.24503149 | 2.5292288 | 20 | 10 20.0 | 18.3 |
| 337289 2000 $WL_{194}$ | 16.0 | $X$ | 290.03196 | 355.38596 | 63.54801 | 15.21324 | 0.1654135 | 0.23767972 | 2.5811186 | 20 | 10 4.3 | 19.1 |
| 337290 2000 $XC_{3}$ | 15.7 | $X$ | 280.35185 | 113.46415 | 319.15710 | 9.67598 | 0.2315475 | 0.24281743 | 2.5445802 | 20 | 9 13.5 | 18.6 |
| 337291 2000 $XG_{10}$ | 15.6 | $X$ | 351.67647 | 322.30573 | 57.64544 | 14.86887 | 0.1658345 | 0.24281903 | 2.5445690 | 20 | 11 30.8 | 18.1 |
| 337292 2000 $XE_{14}$ | 16.6 | $X$ | 226.65338 | 30.42850 | 83.90542 | 4.15595 | 0.1259123 | 0.23839411 | 2.5759596 | 20 | 9 18.9 | 20.2 |
| 337293 2000 $XD_{18}$ | 16.0 | $X$ | 285.67869 | 112.03931 | 300.07277 | 10.28920 | 0.2859137 | 0.24110622 | 2.5566058 | 20 | 8 14.9 | 18.9 |
| 337294 2000 $XE_{19}$ | 17.7 | $X$ | 303.50715 | 60.97859 | 337.50260 | 5.33574 | 0.3319931 | 0.24257610 | 2.5462676 | 20 | 8 24.5 | 19.6 |
| 337295 2000 $XR_{21}$ | 16.3 | $X$ | 194.67367 | 186.52494 | 294.30595 | 12.25188 | 0.2374822 | 0.23410222 | 2.6073482 | 20 | 8 11.3 | 20.8 |
| 337296 2000 $XS_{53}$ | 16.6 | $X$ | 329.88461 | 161.51085 | 231.26331 | 3.03725 | 0.1861397 | 0.24487798 | 2.5302857 | 20 | 11 9.1 | 18.5 |
| 337297 2000 $YO$ | 15.3 | $X$ | 260.49640 | 101.32472 | 29.32305 | 18.43407 | 0.2115229 | 0.24284641 | 2.5443778 | 20 | 11 5.9 | 18.5 |
| 337298 2000 $YY_{7}$ | 16.2 | $X$ | 260.51693 | 333.21875 | 83.79560 | 13.61208 | 0.1816620 | 0.23411549 | 2.6072496 | 20 | 8 7.5 | 19.9 |
| 337299 2000 $YQ_{8}$ | 16.3 | $X$ | 301.19488 | 99.54387 | 278.39687 | 13.36672 | 0.1565304 | 0.23561686 | 2.5961621 | 20 | 8 10.9 | 19.3 |
| 337300 2000 $YG_{9}$ | 16.9 | $X$ | 237.93059 | 167.84288 | 291.03936 | 3.49968 | 0.1973491 | 0.23581030 | 2.5947421 | 20 | 8 29.5 | 20.6 |
| 337301 2000 $YZ_{22}$ | 16.6 | $X$ | 194.21167 | 249.81325 | 262.05609 | 3.39146 | 0.1609386 | 0.23522297 | 2.5990595 | 20 | 9 24.3 | 20.7 |
| 337302 2000 $YT_{26}$ | 16.5 | $X$ | 242.84259 | 6.74860 | 96.43911 | 9.27915 | 0.1830054 | 0.23814744 | 2.5777380 | 20 | 9 18.3 | 20.2 |
| 337303 2000 $YS_{27}$ | 17.1 | $X$ | 281.32692 | 21.95086 | 342.61578 | 1.91451 | 0.1147695 | 0.22819011 | 2.6521913 | 20 | 7 2.1 | 20.3 |
| 337304 2000 $YP_{37}$ | 16.1 | $X$ | 270.65063 | 318.33856 | 113.58718 | 6.28162 | 0.1501844 | 0.23828639 | 2.5767358 | 20 | 9 16.8 | 19.3 |
| 337305 2000 $YM_{52}$ | 16.9 | $X$ | 249.21192 | 357.08424 | 85.86707 | 5.93364 | 0.2357598 | 0.23641673 | 2.5903031 | 20 | 8 20.0 | 20.6 |
| 337306 2000 $YR_{53}$ | 16.0 | $X$ | 256.27738 | 123.78429 | 292.96170 | 6.14447 | 0.1647799 | 0.23360072 | 2.6110785 | 20 | 7 31.2 | 19.4 |
| 337307 2000 $YM_{58}$ | 17.3 | $X$ | 241.98707 | 166.10572 | 270.85190 | 5.05735 | 0.2812431 | 0.23448845 | 2.6044843 | 20 | 7 26.8 | 21.5 |
| 337308 2000 $YY_{87}$ | 16.5 | $X$ | 256.59826 | 176.47201 | 279.67075 | 2.42761 | 0.2007560 | 0.23955605 | 2.5676232 | 20 | 9 17.6 | 20.0 |
| 337309 2000 $YD_{125}$ | 16.1 | $X$ | 291.24105 | 113.93176 | 297.18414 | 5.15808 | 0.2401561 | 0.23819554 | 2.5773910 | 20 | 8 31.8 | 18.7 |
| 337310 2000 $YN_{127}$ | 16.0 | $X$ | 210.88811 | 182.49308 | 305.27661 | 13.03001 | 0.2158286 | 0.23416888 | 2.6068534 | 20 | 9 2.2 | 20.4 |
| 337311 2001 $AO_{35}$ | 15.9 | $X$ | 306.65128 | 316.75119 | 85.31927 | 14.32007 | 0.1538703 | 0.23912963 | 2.5706747 | 20 | 10 12.6 | 18.8 |
| 337312 2001 $AW_{39}$ | 16.8 | $X$ | 254.45645 | 344.56610 | 82.23738 | 4.39682 | 0.2902775 | 0.23537701 | 2.5979255 | 20 | 7 26.9 | 20.7 |
| 337313 2001 $AP_{47}$ | 16.4 | $X$ | 255.23260 | 104.14362 | 342.97494 | 29.32518 | 0.2902416 | 0.23754304 | 2.5821086 | 20 | 8 27.8 | 20.2 |
| 337314 2001 $BM_{4}$ | 15.8 | $X$ | 331.98411 | 57.25267 | 346.66154 | 14.37564 | 0.2561138 | 0.24277696 | 2.5448630 | 20 | 12 3.3 | 18.1 |
| 337315 2001 $BN_{4}$ | 15.7 | $X$ | 188.15205 | 124.04435 | 346.91894 | 14.90269 | 0.0967354 | 0.22802505 | 2.6534710 | 20 | 8 6.4 | 19.8 |
| 337316 2001 $BF_{13}$ | 16.7 | $X$ | 220.29601 | 130.05457 | 315.94378 | 2.10373 | 0.1883150 | 0.23093828 | 2.6311086 | 20 | 7 27.5 | 20.9 |
| 337317 2001 $BM_{19}$ | 16.5 | $X$ | 274.69073 | 332.12027 | 81.91280 | 5.65112 | 0.1587476 | 0.23515164 | 2.5995851 | 20 | 8 26.7 | 19.7 |
| 337318 2001 $BM_{27}$ | 16.5 | $X$ | 255.99752 | 315.90646 | 135.60590 | 7.76325 | 0.2084479 | 0.23671994 | 2.5880907 | 20 | 9 12.4 | 19.9 |
| 337319 2001 $BV_{57}$ | 16.4 | $X$ | 236.72443 | 159.49816 | 301.88927 | 4.60731 | 0.2151009 | 0.23458481 | 2.6037711 | 20 | 8 29.0 | 20.2 |
| 337320 2001 $BF_{61}$ | 15.7 | $X$ | 282.00893 | 60.44780 | 312.00234 | 12.31579 | 0.1753236 | 0.22962919 | 2.6410988 | 20 | 7 5.8 | 19.1 |
| 337321 2001 $BU_{66}$ | 15.4 | $X$ | 181.30489 | 123.18861 | 15.76662 | 13.41080 | 0.1990385 | 0.22679446 | 2.6630608 | 20 | 8 31.9 | 20.0 |
| 337322 2001 $CT_{10}$ | 16.3 | $X$ | 281.67427 | 346.22243 | 89.47147 | 5.03669 | 0.2220135 | 0.23872407 | 2.5735853 | 20 | 9 28.3 | 19.0 |
| 337323 2001 $CV_{14}$ | 17.1 | $X$ | 40.06198 | 130.83778 | 21.34509 | 4.37089 | 0.0445065 | 0.31413685 | 2.1431709 | 20 | 3 8.9 | 19.2 |
| 337324 2001 $CG_{47}$ | 17.0 | $X$ | 250.08403 | 62.40129 | 327.17149 | 5.46598 | 0.0374309 | 0.22360129 | 2.6883543 | 20 | 7 5.9 | 20.7 |
| 337325 2001 $DF$ | 15.8 | $X$ | 242.75810 | 57.24348 | 57.75342 | 5.15537 | 0.2308483 | 0.23571846 | 2.5954160 | 20 | 9 24.5 | 19.5 |
| 337326 2001 $DT_{11}$ | 16.3 | $X$ | 274.00581 | 298.80088 | 136.35520 | 5.48869 | 0.2726241 | 0.23639301 | 2.5904764 | 20 | 9 3.7 | 19.4 |
| 337327 2001 $DS_{26}$ | 16.5 | $X$ | 217.90387 | 142.80702 | 345.71582 | 13.09995 | 0.1173740 | 0.23298576 | 2.6156711 | 20 | 9 22.7 | 20.3 |
| 337328 2001 $DU_{40}$ | 16.5 | $X$ | 290.04715 | 295.12687 | 143.99205 | 9.71832 | 0.3761110 | 0.24088671 | 2.5581587 | 20 | 9 20.4 | 18.8 |
| 337329 2001 $DN_{55}$ | 17.4 | $X$ | 248.07108 | 23.57425 | 75.35370 | 0.78102 | 0.1307413 | 0.23441166 | 2.6050531 | 20 | 9 21.9 | 20.8 |
| 337330 2001 $DC_{57}$ | 17.2 | $X$ | 279.34116 | 122.10035 | 146.12970 | 7.76368 | 0.2761880 | 0.20426582 | 2.8554348 | 20 | 2 6.2 | 21.8 |
| 337331 2001 $DY_{72}$ | 16.5 | $X$ | 206.89872 | 320.71711 | 162.69000 | 13.59708 | 0.2034059 | 0.23080999 | 2.6320834 | 20 | 8 29.4 | 20.6 |
| 337332 2001 $DC_{78}$ | 16.5 | $X$ | 257.01097 | 276.15325 | 142.49164 | 15.00173 | 0.2124410 | 0.23200693 | 2.6230229 | 20 | 7 27.7 | 20.3 |
| 337333 2001 $EL_{4}$ | 16.3 | $X$ | 230.30382 | 90.50446 | 2.23054 | 7.22346 | 0.1588117 | 0.22960515 | 2.6412832 | 20 | 8 20.8 | 20.2 |
| 337334 2001 $EH_{5}$ | 16.2 | $X$ | 194.54580 | 313.32649 | 143.82496 | 8.62870 | 0.2432045 | 0.22543747 | 2.6737368 | 20 | 7 14.5 | 20.9 |
| 337335 2001 $EQ_{18}$ | 15.7 | $X$ | 194.37218 | 127.18158 | 337.47620 | 20.79276 | 0.1053687 | 0.22712979 | 2.6604391 | 20 | 8 5.6 | 19.9 |
| 337336 2001 $FF_{10}$ | 16.6 | $X$ | 129.62223 | 331.09071 | 194.81819 | 13.27163 | 0.1879102 | 0.22211634 | 2.7003230 | 20 | 8 11.5 | 21.2 |
| 337337 2001 $FC_{21}$ | 15.6 | $X$ | 259.09114 | 75.38843 | 113.71918 | 17.90415 | 0.2335713 | 0.24059549 | 2.5602226 | 20 | — | — |
| 337338 2001 $FB_{25}$ | 16.1 | $X$ | 195.38662 | 141.52086 | 0.48212 | 13.75388 | 0.1928251 | 0.22894586 | 2.6463514 | 20 | 9 13.8 | 20.4 |
| 337339 2001 $FL_{31}$ | 16.0 | $X$ | 19.86236 | 227.60976 | 0.13987 | 11.53138 | 0.1573601 | 0.21249372 | 2.7812411 | 20 | 6 5.7 | 19.2 |
| 337340 2001 $FG_{56}$ | 15.8 | $X$ | 358.77933 | 238.16264 | 26.28636 | 16.26390 | 0.2483298 | 0.21268069 | 2.7796109 | 20 | 6 19.4 | 18.5 |
| 337341 2001 $FE_{59}$ | 16.3 | $X$ | 145.59463 | 157.85207 | 25.92544 | 5.62894 | 0.1806370 | 0.22755410 | 2.6571308 | 20 | 9 21.9 | 20.6 |
| 337342 2001 $FV_{179}$ | 16.7 | $X$ | 224.79756 | 108.44079 | 32.66746 | 13.66874 | 0.2249313 | 0.23407942 | 2.6075175 | 20 | 10 9.4 | 20.6 |
| 337343 2001 $FW_{196}$ | 15.9 | $X$ | 17.52928 | 160.55883 | 96.48590 | 6.75942 | 0.2107151 | 0.21311820 | 2.7758055 | 20 | 7 24.4 | 18.5 |
| 337344 2001 $FV_{216}$ | 16.8 | $X$ | 214.31480 | 185.30583 | 188.71454 | 6.19335 | 0.0632379 | 0.21225815 | 2.7832986 | 20 | 4 29.6 | 20.9 |
| 337345 2001 $KO_{20}$ | 20.6 | $X$ | 124.54838 | 66.33797 | 75.26578 | 14.19403 | 0.1213474 | 0.73140286 | 1.2200144 | 20 | 8 25.8 | 20.9 |
| 337346 2001 $LH_{8}$ | 16.7 | $X$ | 96.62632 | 352.38591 | 305.61244 | 11.27922 | 0.1887693 | 0.27500468 | 2.3419412 | 20 | — | — |
| 337347 2001 $ME_{22}$ | 15.5 | $X$ | 135.81786 | 1.68408 | 292.84023 | 14.30605 | 0.2304637 | 0.17433749 | 3.1735270 | 20 | — | — |
| 337348 2001 $OC_{23}$ | 15.2 | $X$ | 121.48416 | 302.50872 | 99.50021 | 18.47505 | 0.2336924 | 0.18043115 | 3.1016661 | 20 | 3 20.8 | 20.4 |
| 337349 2001 $OS_{30}$ | 17.5 | $X$ | 75.00708 | 272.26777 | 59.26369 | 5.71242 | 0.1731184 | 0.27469616 | 2.3436945 | 20 | — | — |
| 337350 2001 $OP_{32}$ | 16.9 | $X$ | 107.35612 | 345.72890 | 327.24283 | 8.25056 | 0.2343010 | 0.27833664 | 2.3232135 | 20 | — | — |
| 337351 2001 $OY_{36}$ | 17.6 | $X$ | 122.64193 | 323.48318 | 352.55077 | 3.07155 | 0.2351503 | 0.28052331 | 2.3111249 | 20 | — | — |
| 337352 2001 $OR_{41}$ | 15.9 | $X$ | 171.99046 | 313.21249 | 13.82475 | 11.61944 | 0.2154182 | 0.18358080 | 3.0660875 | 20 | 1 31.0 | 21.3 |
| 337353 2001 $OR_{85}$ | 15.1 | $X$ | 199.93274 | 99.14084 | 265.68234 | 12.92220 | 0.2234105 | 0.19166022 | 2.9793034 | 20 | 3 24.7 | 20.5 |
| 337354 2001 $ON_{104}$ | 17.0 | $X$ | 90.06348 | 226.87419 | 93.99899 | 6.77817 | 0.2117787 | 0.27533534 | 2.3400658 | 20 | — | — |
| 337355 2001 $OQ_{110}$ | 17.9 | $X$ | 105.82578 | 70.26113 | 243.33404 | 1.29987 | 0.2270830 | 0.27727502 | 2.3291398 | 20 | — | — |
| 337356 2001 $OH_{111}$ | 17.1 | $X$ | 60.95064 | 281.55974 | 68.23683 | 6.46122 | 0.2435389 | 0.27333363 | 2.3514766 | 20 | — | — |
| 337357 2001 $PK_{7}$ | 16.7 | $X$ | 235.28179 | 214.33919 | 241.71905 | 19.57527 | 0.1239873 | 0.36642374 | 1.9341062 | 20 | 9 10.7 | 19.3 |
| 337358 2001 $PC_{8}$ | 17.6 | $X$ | 69.92616 | 240.91609 | 79.50530 | 6.68261 | 0.2186385 | 0.27189826 | 2.3597451 | 20 | — | — |
| 337359 2001 $PL_{11}$ | 16.1 | $X$ | 187.29425 | 251.98570 | 96.01950 | 5.25854 | 0.2227454 | 0.18824172 | 3.0152648 | 20 | 3 4.3 | 21.3 |
| 337360 2001 $PM_{17}$ | 17.1 | $X$ | 50.10450 | 357.61256 | 19.93448 | 6.00226 | 0.1854068 | 0.27508299 | 2.3414967 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337361 2001 $PB_{21}$ | 15.8 | X | 135.38371 | 47.87954 | 312.43230 | 6.00721 | 0.2832594 | 0.18111588 | 3.0938436 | 20 | 2 9.5 | 21.0 |
| 337362 2001 $PS_{31}$ | 15.4 | X | 129.38318 | 97.26069 | 282.18966 | 20.34934 | 0.2206924 | 0.18097618 | 3.0954356 | 20 | 2 12.9 | 20.6 |
| 337363 2001 $PJ_{32}$ | 17.0 | X | 77.23114 | 290.37456 | 60.78450 | 5.34469 | 0.2465500 | 0.27565965 | 2.3382301 | 20 | — | — |
| 337364 2001 $PC_{36}$ | 15.9 | X | 167.57230 | 128.67427 | 180.69079 | 22.86112 | 0.2699784 | 0.17994525 | 3.1072470 | 20 | 1 5.6 | 21.7 |
| 337365 2001 $PH_{36}$ | 17.2 | X | 229.03647 | 126.42745 | 285.99090 | 17.15206 | 0.0821910 | 0.35813062 | 1.9638505 | 20 | 7 9.5 | 19.3 |
| 337366 2001 $PS_{40}$ | 16.8 | X | 59.56807 | 124.79138 | 237.65347 | 7.46724 | 0.1688618 | 0.27313181 | 2.3526348 | 20 | — | — |
| 337367 2001 $PD_{43}$ | 16.1 | X | 191.05714 | 200.43773 | 115.51205 | 12.84891 | 0.2958580 | 0.18473431 | 3.0533108 | 20 | 1 30.7 | 21.7 |
| 337368 2001 $PW_{46}$ | 15.5 | X | 103.42453 | 303.00962 | 85.97368 | 12.52138 | 0.2492630 | 0.17807269 | 3.1289923 | 20 | 2 14.1 | 20.2 |
| 337369 2001 $PY_{54}$ | 17.5 | X | 95.60952 | 9.22618 | 283.78245 | 2.77745 | 0.2137063 | 0.27353513 | 2.3503217 | 20 | 12 26.5 | 21.4 |
| 337370 2001 $PY_{61}$ | 17.4 | X | 88.04171 | 41.96006 | 324.88633 | 4.18004 | 0.1473512 | 0.27884611 | 2.3203829 | 20 | — | — |
| 337371 2001 $QL_{3}$ | 17.1 | X | 66.61329 | 204.74264 | 137.91188 | 6.91461 | 0.3046062 | 0.27356342 | 2.3501597 | 20 | — | — |
| 337372 2001 $QO_{40}$ | 16.9 | X | 58.06447 | 232.91101 | 149.20480 | 4.72738 | 0.3052458 | 0.27594400 | 2.3366235 | 20 | — | — |
| 337373 2001 $QY_{45}$ | 17.1 | X | 84.66643 | 43.58666 | 305.73222 | 6.66106 | 0.1446327 | 0.27744538 | 2.3281862 | 20 | — | — |
| 337374 2001 $QQ_{46}$ | 17.2 | X | 42.38284 | 229.50999 | 153.06137 | 2.69180 | 0.2165140 | 0.27406924 | 2.3472672 | 20 | — | — |
| 337375 2001 $QQ_{49}$ | 17.6 | X | 25.54586 | 116.32551 | 259.19664 | 2.05870 | 0.2347310 | 0.27014896 | 2.3699209 | 20 | — | — |
| 337376 2001 $QN_{54}$ | 16.6 | X | 76.43292 | 358.70836 | 348.73447 | 4.64694 | 0.2000368 | 0.27540252 | 2.3396853 | 20 | — | — |
| 337377 2001 $QO_{62}$ | 17.3 | X | 67.31339 | 65.89703 | 285.91382 | 1.82828 | 0.2281513 | 0.27366891 | 2.3495557 | 20 | — | — |
| 337378 2001 $QQ_{67}$ | 17.0 | X | 76.95694 | 234.45137 | 84.35328 | 5.32650 | 0.2539918 | 0.27281640 | 2.3544478 | 20 | — | — |
| 337379 2001 $QY_{84}$ | 16.3 | X | 157.74752 | 199.35454 | 122.74221 | 15.33461 | 0.2857911 | 0.17998041 | 3.1068424 | 20 | 1 14.9 | 21.7 |
| 337380 Lenormand | 17.4 | X | 20.79967 | 194.69978 | 145.90987 | 1.75441 | 0.1974708 | 0.26694167 | 2.3888660 | 20 | 12 6.9 | 20.3 |
| 337381 2001 $QF_{90}$ | 15.3 | X | 124.48876 | 66.41334 | 311.22529 | 15.06892 | 0.2609519 | 0.17756885 | 3.1349085 | 20 | 2 16.3 | 20.4 |
| 337382 2001 $QC_{91}$ | 17.4 | X | 352.63542 | 137.73413 | 220.27951 | 19.97969 | 0.0914149 | 0.36962316 | 1.9229291 | 20 | 11 29.9 | 19.1 |
| 337383 2001 $QC_{107}$ | 17.2 | X | 150.00707 | 263.23545 | 269.69194 | 18.38967 | 0.0732028 | 0.36609947 | 1.9352481 | 20 | 9 15.6 | 20.1 |
| 337384 2001 $QY_{110}$ | 15.7 | X | 75.36496 | 106.59056 | 308.41158 | 13.33518 | 0.2758411 | 0.17530469 | 3.1618434 | 20 | 2 9.9 | 19.7 |
| 337385 2001 $QQ_{118}$ | 15.5 | X | 149.77010 | 64.53081 | 313.42532 | 8.16111 | 0.2221359 | 0.18152781 | 3.0891614 | 20 | 3 5.4 | 20.7 |
| 337386 2001 $QG_{144}$ | 18.4 | X | 76.24707 | 157.13317 | 160.94757 | 1.48952 | 0.1949428 | 0.27144140 | 2.3623921 | 20 | — | — |
| 337387 2001 $QX_{144}$ | 17.5 | X | 29.17351 | 222.71416 | 157.40457 | 1.64687 | 0.1967825 | 0.27233914 | 2.3571977 | 20 | — | — |
| 337388 2001 $QV_{145}$ | 17.7 | X | 64.90711 | 72.08060 | 258.13106 | 0.30068 | 0.2012962 | 0.27267832 | 2.3552426 | 20 | — | — |
| 337389 2001 $QK_{146}$ | 18.1 | X | 90.49746 | 344.32819 | 329.35323 | 0.77770 | 0.1934849 | 0.27275521 | 2.3547999 | 20 | — | — |
| 337390 2001 $QP_{151}$ | 17.6 | X | 262.44332 | 91.96991 | 311.26211 | 18.15839 | 0.1158921 | 0.36269750 | 1.9473305 | 20 | 8 9.6 | 19.0 |
| 337391 2001 $QR_{157}$ | 15.8 | X | 139.31371 | 219.93085 | 169.70169 | 5.13754 | 0.2884226 | 0.18320088 | 3.0703250 | 20 | 3 17.6 | 21.0 |
| 337392 2001 $QW_{160}$ | 17.3 | X | 88.28642 | 166.30751 | 156.14496 | 2.91923 | 0.1965729 | 0.27456286 | 2.3444530 | 20 | — | — |
| 337393 2001 $QO_{163}$ | 15.4 | X | 98.13491 | 189.94682 | 212.52085 | 15.24813 | 0.2730292 | 0.17464052 | 3.1698548 | 20 | 2 19.4 | 20.3 |
| 337394 2001 $QO_{165}$ | 16.7 | X | 98.62966 | 177.06591 | 127.60364 | 7.53570 | 0.1345096 | 0.27400532 | 2.3476322 | 20 | — | — |
| 337395 2001 $QF_{166}$ | 17.3 | X | 82.12076 | 355.30830 | 6.22012 | 6.63747 | 0.1535915 | 0.27793479 | 2.3254523 | 20 | — | — |
| 337396 2001 $QU_{167}$ | 16.9 | X | 90.02715 | 344.17298 | 5.55186 | 7.48892 | 0.1349408 | 0.27779906 | 2.3262097 | 20 | — | — |
| 337397 2001 $QF_{183}$ | 15.5 | X | 170.57646 | 51.44469 | 327.60616 | 9.67224 | 0.1424444 | 0.18815718 | 3.0161679 | 20 | 3 19.1 | 20.5 |
| 337398 2001 $QW_{184}$ | 15.9 | X | 207.25476 | 4.21720 | 299.12771 | 13.25896 | 0.2612897 | 0.18481537 | 3.0524179 | 20 | 1 25.9 | 21.3 |
| 337399 2001 $QL_{186}$ | 17.3 | X | 78.97014 | 132.38567 | 191.94017 | 1.83034 | 0.2311104 | 0.27288770 | 2.3540377 | 20 | — | — |
| 337400 2001 $QQ_{186}$ | 15.8 | X | 121.28273 | 241.76094 | 169.68280 | 7.52555 | 0.3152349 | 0.18117106 | 3.0932154 | 20 | 3 31.9 | 21.0 |
| 337401 2001 $QM_{189}$ | 15.0 | X | 202.89870 | 38.35584 | 269.85287 | 16.80884 | 0.1770395 | 0.18372228 | 3.0645132 | 20 | 1 24.9 | 20.3 |
| 337402 2001 $QA_{197}$ | 17.7 | X | 43.15735 | 102.53242 | 274.27165 | 2.01444 | 0.2467215 | 0.27247551 | 2.3564112 | 20 | — | — |
| 337403 2001 $QT_{207}$ | 17.4 | X | 36.12283 | 229.64919 | 112.51423 | 3.03354 | 0.2058206 | 0.26856089 | 2.3792543 | 20 | 12 29.5 | 20.5 |
| 337404 2001 $QT_{209}$ | 17.2 | X | 138.51980 | 19.07260 | 299.96108 | 5.76808 | 0.1309999 | 0.28137315 | 2.3064690 | 20 | — | — |
| 337405 2001 $QE_{225}$ | 15.7 | X | 175.74207 | 33.77935 | 342.82241 | 8.49818 | 0.1272260 | 0.18908764 | 3.0062652 | 20 | 3 21.9 | 20.6 |
| 337406 2001 $QV_{230}$ | 16.9 | X | 35.38198 | 146.42666 | 248.88777 | 6.01602 | 0.1646541 | 0.27401208 | 2.3475936 | 20 | — | — |
| 337407 2001 $QG_{234}$ | 16.3 | X | 172.42681 | 224.27819 | 166.62241 | 4.81894 | 0.2737462 | 0.18667139 | 3.0321513 | 20 | 4 11.6 | 21.6 |
| 337408 2001 $QS_{234}$ | 16.1 | X | 162.92974 | 47.99678 | 349.98209 | 15.17284 | 0.3898878 | 0.18494580 | 3.0509826 | 20 | 4 10.4 | 22.1 |
| 337409 2001 $QG_{246}$ | 16.8 | X | 54.80388 | 338.50397 | 7.39578 | 12.73341 | 0.2086878 | 0.26949529 | 2.3737516 | 20 | — | — |
| 337410 2001 $QG_{253}$ | 17.2 | X | 51.22831 | 348.74172 | 19.52237 | 3.23391 | 0.2040386 | 0.27313246 | 2.3526311 | 20 | — | — |
| 337411 2001 $QC_{254}$ | 17.0 | X | 16.49362 | 321.76674 | 68.43774 | 5.90399 | 0.2121275 | 0.27071410 | 2.3666214 | 20 | — | — |
| 337412 2001 $QO_{262}$ | 16.0 | X | 147.87071 | 61.29934 | 330.56873 | 9.91289 | 0.3136690 | 0.18222337 | 3.0812954 | 20 | 3 24.2 | 21.5 |
| 337413 2001 $QE_{263}$ | 16.4 | X | 134.08098 | 102.02551 | 270.36273 | 6.25994 | 0.1408312 | 0.28346583 | 2.2951033 | 20 | 1 25.8 | 19.4 |
| 337414 2001 $QA_{267}$ | 18.0 | X | 48.67788 | 142.50297 | 187.49117 | 5.22533 | 0.2392981 | 0.26946951 | 2.3739030 | 20 | 12 31.1 | 21.6 |
| 337415 2001 $QH_{281}$ | 15.5 | X | 107.85978 | 288.74650 | 88.41814 | 16.51048 | 0.3065667 | 0.17643154 | 3.1483661 | 20 | 2 12.1 | 20.5 |
| 337416 2001 $QL_{283}$ | 15.8 | X | 163.23817 | 111.92223 | 281.45472 | 12.32030 | 0.3764885 | 0.18521863 | 3.0479858 | 20 | 4 4.5 | 21.8 |
| 337417 2001 $QY_{285}$ | 16.8 | X | 75.79715 | 62.97333 | 250.97867 | 6.35856 | 0.2105698 | 0.27195750 | 2.3594024 | 20 | — | — |
| 337418 2001 $QK_{291}$ | 17.2 | X | 30.57860 | 296.27285 | 74.14349 | 6.48751 | 0.2424260 | 0.27057906 | 2.3674088 | 20 | — | — |
| 337419 2001 $QA_{327}$ | 17.3 | X | 70.36081 | 311.86096 | 54.73152 | 2.85264 | 0.2298510 | 0.27627589 | 2.3347519 | 20 | — | — |
| 337420 2001 $QX_{333}$ | 12.6 | X | 227.22903 | 347.17755 | 352.91221 | 26.62270 | 0.0599665 | 0.08237632 | 5.2311974 | 20 | 3 31.4 | 19.9 |
| 337421 2001 $QY_{333}$ | 16.1 | X | 142.01242 | 284.15788 | 101.44012 | 5.61959 | 0.1852798 | 0.18224340 | 3.0810696 | 20 | 3 9.8 | 21.1 |
| 337422 2001 $RT_{1}$ | 15.7 | X | 194.16980 | 136.19555 | 168.21916 | 17.16755 | 0.1006371 | 0.18145022 | 3.0900420 | 20 | 1 15.5 | 20.8 |
| 337423 2001 $RP_{7}$ | 16.2 | X | 153.92408 | 224.57928 | 167.31639 | 1.59865 | 0.2882285 | 0.18529059 | 3.0471966 | 20 | 3 30.6 | 21.6 |
| 337424 2001 $RS_{8}$ | 17.7 | X | 134.56988 | 289.58111 | 348.55881 | 5.21583 | 0.2245341 | 0.27623123 | 2.3350035 | 20 | — | — |
| 337425 2001 $RV_{9}$ | 17.6 | X | 226.87393 | 175.92703 | 250.01896 | 18.47917 | 0.0859972 | 0.35940979 | 1.9591880 | 20 | 7 20.5 | 20.1 |
| 337426 2001 $RJ_{11}$ | 17.0 | X | 67.41927 | 135.76065 | 184.21533 | 10.40685 | 0.2739339 | 0.26950100 | 2.3737180 | 20 | — | — |
| 337427 2001 $RD_{13}$ | 16.2 | X | 69.51574 | 143.33666 | 261.17669 | 24.30452 | 0.1922590 | 0.27959411 | 2.3162426 | 20 | — | — |
| 337428 2001 $RG_{13}$ | 16.4 | X | 131.17879 | 139.44529 | 179.05682 | 10.23737 | 0.2067082 | 0.17538899 | 3.1608302 | 20 | — | — |
| 337429 2001 $RL_{16}$ | 17.8 | X | 69.04273 | 70.51131 | 263.37178 | 1.19839 | 0.2263647 | 0.27159202 | 2.3615186 | 20 | — | — |
| 337430 2001 $RU_{18}$ | 17.8 | X | 48.38656 | 199.29420 | 172.73286 | 2.51077 | 0.2173861 | 0.27321485 | 2.3521581 | 20 | — | — |
| 337431 2001 $RX_{21}$ | 15.5 | X | 166.41708 | 9.53024 | 338.32078 | 21.62332 | 0.1358887 | 0.18331988 | 3.0689961 | 20 | 2 14.9 | 20.4 |
| 337432 2001 $RY_{27}$ | 17.2 | X | 343.65211 | 172.79862 | 225.54695 | 1.51832 | 0.1737066 | 0.26712330 | 2.3877831 | 20 | 12 23.7 | 19.4 |
| 337433 2001 $RL_{29}$ | 17.6 | X | 77.43624 | 346.09478 | 9.77897 | 1.40126 | 0.1964834 | 0.27542496 | 2.3395582 | 20 | — | — |
| 337434 2001 $RO_{30}$ | 17.5 | X | 23.03792 | 180.12812 | 155.85333 | 6.34086 | 0.2762737 | 0.26573094 | 2.3961167 | 20 | 12 15.8 | 20.6 |
| 337435 2001 $RY_{37}$ | 15.8 | X | 171.98774 | 35.87664 | 313.95526 | 9.32694 | 0.1414609 | 0.18481211 | 3.0524538 | 20 | 2 17.5 | 20.7 |
| 337436 2001 $RC_{40}$ | 16.6 | X | 139.46155 | 210.11053 | 154.42325 | 1.23292 | 0.1874419 | 0.18062901 | 3.0994006 | 20 | 2 9.9 | 21.6 |
| 337437 2001 $RH_{41}$ | 16.9 | X | 188.32637 | 69.34748 | 204.01075 | 4.50643 | 0.1005321 | 0.28076341 | 2.3098071 | 20 | — | — |
| 337438 2001 $RS_{42}$ | 17.7 | X | 85.97547 | 89.92539 | 185.58927 | 10.72381 | 0.2381248 | 0.26825814 | 2.3810441 | 20 | 11 29.4 | 21.7 |
| 337439 2001 $RO_{43}$ | 17.3 | X | 77.86380 | 71.64344 | 285.10176 | 2.89783 | 0.2436034 | 0.27505904 | 2.3416327 | 20 | — | — |
| 337440 2001 $RS_{47}$ | 17.7 | X | 293.80018 | 217.81139 | 169.65298 | 22.85032 | 0.1039789 | 0.36255308 | 1.9478476 | 20 | 9 18.8 | 18.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337441 2001 $RA_{49}$ | 15.3 | $X$ | 151.78187 | 333.35311 | 71.36046 | 23.45782 | 0.2879058 | 0.18345842 | 3.0674509 | 20 | 4 22.9 | 21.0 |
| 337442 2001 $RT_{49}$ | 16.0 | $X$ | 161.67284 | 106.92832 | 242.53215 | 11.79935 | 0.1642619 | 0.18189472 | 3.0850058 | 20 | 2 6.1 | 21.2 |
| 337443 2001 $RT_{53}$ | 17.4 | $X$ | 78.06803 | 228.04795 | 80.31233 | 2.21733 | 0.1935337 | 0.27128404 | 2.3633056 | 20 | 12 28.6 | 20.9 |
| 337444 2001 $RS_{54}$ | 16.0 | $X$ | 194.01242 | 327.50205 | 10.30518 | 12.59046 | 0.1394891 | 0.18403901 | 3.0609962 | 20 | 2 28.5 | 21.0 |
| 337445 2001 $RV_{54}$ | 17.5 | $X$ | 61.02767 | 128.31658 | 193.50883 | 0.91727 | 0.1952560 | 0.26976482 | 2.3721702 | 20 | 12 28.9 | 20.9 |
| 337446 2001 $RR_{57}$ | 15.9 | $X$ | 169.12952 | 3.70906 | 5.61473 | 12.08777 | 0.1648142 | 0.18521106 | 3.0480689 | 20 | 3 12.7 | 20.8 |
| 337447 2001 $RH_{58}$ | 15.6 | $X$ | 135.36513 | 359.51108 | 10.02840 | 16.78496 | 0.0916080 | 0.17997495 | 3.1069053 | 20 | 2 9.2 | 20.4 |
| 337448 2001 $RT_{60}$ | 17.3 | $X$ | 33.92757 | 247.91642 | 114.51516 | 4.00515 | 0.2067918 | 0.26874981 | 2.3781392 | 20 | — | — |
| 337449 2001 $RO_{81}$ | 17.1 | $X$ | 26.89152 | 355.41237 | 6.09739 | 4.10319 | 0.1940259 | 0.26732837 | 2.3865618 | 20 | — | — |
| 337450 2001 $RS_{81}$ | 16.9 | $X$ | 67.92561 | 320.44891 | 13.69503 | 6.46215 | 0.1850596 | 0.27058667 | 2.3673644 | 20 | — | — |
| 337451 2001 $RS_{85}$ | 15.3 | $X$ | 133.73657 | 60.83547 | 359.38608 | 13.18711 | 0.1392305 | 0.18481150 | 3.0524605 | 20 | 4 3.0 | 20.0 |
| 337452 2001 $RA_{88}$ | 15.7 | $X$ | 171.48703 | 356.04886 | 10.08188 | 12.90365 | 0.1456624 | 0.18383336 | 3.0632786 | 20 | 3 11.4 | 20.7 |
| 337453 2001 $RE_{88}$ | 16.0 | $X$ | 158.89883 | 354.79926 | 42.85944 | 2.94166 | 0.2547390 | 0.18453465 | 3.0555128 | 20 | 4 8.7 | 21.3 |
| 337454 2001 $RF_{88}$ | 17.0 | $X$ | 84.61943 | 147.98149 | 179.07487 | 23.57850 | 0.2088786 | 0.27239002 | 2.3569042 | 20 | — | — |
| 337455 2001 $RR_{89}$ | 17.3 | $X$ | 58.36748 | 244.44823 | 73.07982 | 2.42397 | 0.1917652 | 0.26806884 | 2.3821649 | 20 | 12 20.3 | 20.7 |
| 337456 2001 $RJ_{96}$ | 18.4 | $X$ | 13.63480 | 169.36475 | 236.54099 | 1.06286 | 0.2334915 | 0.27125538 | 2.3634721 | 20 | — | — |
| 337457 2001 $RM_{97}$ | 17.6 | $X$ | 87.58963 | 314.55227 | 345.20611 | 6.55454 | 0.1237365 | 0.27084283 | 2.3658715 | 20 | 12 22.3 | 21.1 |
| 337458 2001 $RQ_{100}$ | 17.4 | $X$ | 33.30442 | 233.19048 | 131.87139 | 5.75827 | 0.2482403 | 0.26989236 | 2.3714228 | 20 | — | — |
| 337459 2001 $RW_{107}$ | 17.9 | $X$ | 53.55274 | 325.73558 | 2.05030 | 1.05649 | 0.1980301 | 0.26949312 | 2.3737643 | 20 | 12 29.3 | 21.2 |
| 337460 2001 $RQ_{109}$ | 17.3 | $X$ | 30.14040 | 243.33472 | 160.35273 | 7.22999 | 0.1006434 | 0.27456299 | 2.3444522 | 20 | — | — |
| 337461 2001 $RP_{112}$ | 17.3 | $X$ | 101.34779 | 305.10154 | 357.28237 | 8.08244 | 0.1993709 | 0.27352707 | 2.3503679 | 20 | — | — |
| 337462 2001 $RR_{121}$ | 17.2 | $X$ | 71.53056 | 198.33174 | 111.92714 | 2.51541 | 0.1793634 | 0.26954414 | 2.3734648 | 20 | 12 23.4 | 20.8 |
| 337463 2001 $RJ_{124}$ | 16.2 | $X$ | 166.64891 | 176.85225 | 165.71721 | 9.32150 | 0.1313871 | 0.18155482 | 3.0888550 | 20 | 2 4.0 | 21.1 |
| 337464 2001 $RX_{125}$ | 17.6 | $X$ | 110.00287 | 285.77056 | 46.98063 | 3.60642 | 0.1781765 | 0.27746663 | 2.3280673 | 20 | — | — |
| 337465 2001 $RR_{131}$ | 16.1 | $X$ | 185.59257 | 204.65766 | 125.92737 | 2.95298 | 0.1588284 | 0.18292263 | 3.0734378 | 20 | 2 9.5 | 21.2 |
| 337466 2001 $RA_{140}$ | 17.6 | $X$ | 91.74730 | 299.50115 | 31.50271 | 3.56176 | 0.1957517 | 0.27447874 | 2.3449320 | 20 | — | — |
| 337467 2001 $RQ_{140}$ | 16.0 | $X$ | 159.84100 | 21.79352 | 2.64680 | 9.95391 | 0.0772284 | 0.18560755 | 3.0437265 | 20 | 3 15.9 | 20.5 |
| 337468 2001 $RP_{145}$ | 18.1 | $X$ | 100.40998 | 35.46909 | 294.79717 | 5.50730 | 0.2252394 | 0.27656424 | 2.3331287 | 20 | — | — |
| 337469 2001 $RR_{150}$ | 16.9 | $X$ | 41.87876 | 270.63394 | 97.56541 | 8.23277 | 0.2915197 | 0.27189790 | 2.3597472 | 20 | — | — |
| 337470 2001 $SF_{7}$ | 16.0 | $X$ | 117.92361 | 53.25700 | 347.66188 | 10.21585 | 0.0644035 | 0.18318121 | 3.0705448 | 20 | 2 18.3 | 20.4 |
| 337471 2001 $SZ_{12}$ | 17.0 | $X$ | 97.68640 | 340.04740 | 358.56870 | 6.00092 | 0.1935274 | 0.27616954 | 2.3353512 | 20 | — | — |
| 337472 2001 $SS_{18}$ | 16.9 | $X$ | 30.03642 | 8.49967 | 10.97721 | 5.00483 | 0.1409972 | 0.26991442 | 2.3712935 | 20 | — | — |
| 337473 2001 $SH_{19}$ | 17.8 | $X$ | 11.86796 | 214.25253 | 176.87740 | 1.08277 | 0.1839191 | 0.26872157 | 2.3783058 | 20 | — | — |
| 337474 2001 $SC_{25}$ | 17.8 | $X$ | 75.97077 | 168.97667 | 177.97755 | 1.13127 | 0.2067885 | 0.27318483 | 2.3523304 | 20 | — | — |
| 337475 2001 $SF_{25}$ | 15.6 | $X$ | 111.17509 | 92.51247 | 4.12276 | 5.28362 | 0.2400107 | 0.18360767 | 3.0657883 | 20 | 5 5.9 | 20.5 |
| 337476 2001 $ST_{28}$ | 17.5 | $X$ | 94.50929 | 306.54439 | 23.17544 | 2.29939 | 0.1564195 | 0.27359430 | 2.3499828 | 20 | — | — |
| 337477 2001 $ST_{34}$ | 16.6 | $X$ | 4.08936 | 4.67303 | 12.34945 | 12.18571 | 0.2375573 | 0.26501787 | 2.4004128 | 20 | — | — |
| 337478 2001 $SY_{36}$ | 16.0 | $X$ | 171.64251 | 159.10336 | 188.97062 | 17.33021 | 0.2114685 | 0.18161479 | 3.0881751 | 20 | 2 16.5 | 21.4 |
| 337479 2001 $ST_{40}$ | 17.1 | $X$ | 6.86814 | 230.08409 | 156.14462 | 5.21893 | 0.2345121 | 0.26587607 | 2.3952447 | 20 | — | — |
| 337480 2001 $SN_{59}$ | 15.9 | $X$ | 159.01503 | 188.45998 | 201.28755 | 13.19130 | 0.2602098 | 0.18247075 | 3.0785098 | 20 | 3 29.5 | 21.3 |
| 337481 2001 $SG_{60}$ | 15.3 | $X$ | 185.88257 | 351.36256 | 349.03319 | 13.36822 | 0.1450573 | 0.18270460 | 3.0758824 | 20 | 2 22.7 | 20.3 |
| 337482 2001 $ST_{76}$ | 17.7 | $X$ | 60.24098 | 354.15557 | 329.85871 | 1.95948 | 0.1620977 | 0.26875101 | 2.3781321 | 20 | 12 27.5 | 21.0 |
| 337483 2001 $SA_{77}$ | 16.8 | $X$ | 79.72574 | 95.81749 | 253.58218 | 4.59562 | 0.0980588 | 0.27366918 | 2.3495541 | 20 | — | — |
| 337484 2001 $SH_{80}$ | 16.0 | $X$ | 205.54121 | 157.30510 | 180.39960 | 10.77217 | 0.1122594 | 0.18867129 | 3.0106863 | 20 | 3 4.4 | 20.7 |
| 337485 2001 $SB_{83}$ | 17.7 | $X$ | 71.46627 | 182.59646 | 177.65125 | 6.39200 | 0.2071653 | 0.27510709 | 2.3413600 | 20 | — | — |
| 337486 2001 $SL_{85}$ | 16.0 | $X$ | 223.65070 | 319.45273 | 340.14612 | 15.59617 | 0.1240162 | 0.18532226 | 3.0468494 | 20 | 2 10.1 | 20.9 |
| 337487 2001 $SR_{86}$ | 15.9 | $X$ | 174.15893 | 195.47852 | 175.07125 | 11.07341 | 0.1146574 | 0.18734868 | 3.0248392 | 20 | 3 14.6 | 20.5 |
| 337488 2001 $SW_{87}$ | 15.5 | $X$ | 131.24846 | 39.48849 | 330.11801 | 22.04121 | 0.0439770 | 0.18191284 | 3.0848010 | 20 | 1 28.1 | 20.1 |
| 337489 2001 $SC_{88}$ | 15.4 | $X$ | 80.50393 | 26.30104 | 351.62652 | 10.23145 | 0.1129083 | 0.17251617 | 3.1958240 | 20 | — | — |
| 337490 2001 $SQ_{95}$ | 15.4 | $X$ | 96.76400 | 103.17681 | 342.24271 | 16.62543 | 0.2460671 | 0.18058911 | 3.0998571 | 20 | 4 3.6 | 20.1 |
| 337491 2001 $SC_{96}$ | 15.8 | $X$ | 145.19504 | 188.14298 | 178.78387 | 9.46983 | 0.0957585 | 0.18110564 | 3.0939603 | 20 | 2 8.1 | 20.6 |
| 337492 2001 $SL_{98}$ | 16.9 | $X$ | 48.21713 | 113.75498 | 218.33340 | 5.82693 | 0.2167002 | 0.26794746 | 2.3828843 | 20 | 12 30.3 | 20.4 |
| 337493 2001 $SY_{99}$ | 16.9 | $X$ | 331.57945 | 100.32812 | 343.96326 | 8.81740 | 0.1559952 | 0.26940560 | 2.3742784 | 20 | — | — |
| 337494 2001 $SH_{100}$ | 18.0 | $X$ | 23.32383 | 192.77753 | 210.04557 | 3.57481 | 0.2060181 | 0.27128520 | 2.3632989 | 20 | — | — |
| 337495 2001 $SV_{100}$ | 16.4 | $X$ | 162.29078 | 57.99159 | 310.97213 | 3.53273 | 0.1606994 | 0.18340370 | 3.0680610 | 20 | 3 3.3 | 21.3 |
| 337496 2001 $SQ_{101}$ | 15.7 | $X$ | 192.44163 | 322.60932 | 358.59958 | 15.85757 | 0.1248575 | 0.18214939 | 3.0821297 | 20 | 2 9.3 | 20.8 |
| 337497 2001 $SD_{103}$ | 17.6 | $X$ | 51.63311 | 337.02968 | 343.62369 | 4.89817 | 0.1357588 | 0.26666112 | 2.3905413 | 20 | 12 9.6 | 20.8 |
| 337498 2001 $SF_{104}$ | 16.0 | $X$ | 205.38540 | 72.74801 | 269.24941 | 5.59245 | 0.2440583 | 0.18759871 | 3.0221509 | 20 | 3 5.8 | 21.4 |
| 337499 2001 $SL_{117}$ | 17.4 | $X$ | 75.53352 | 84.85384 | 231.18582 | 4.57391 | 0.2370246 | 0.27141949 | 2.3625193 | 20 | — | — |
| 337500 2001 $SC_{119}$ | 15.5 | $X$ | 135.16755 | 70.25915 | 318.69356 | 8.85245 | 0.0903064 | 0.18225706 | 3.0809157 | 20 | 2 23.3 | 20.0 |
| 337501 2001 $SV_{122}$ | 16.8 | $X$ | 61.98366 | 46.11567 | 300.35260 | 5.99277 | 0.1724405 | 0.27255511 | 2.3559523 | 20 | — | — |
| 337502 2001 $SD_{125}$ | 15.8 | $X$ | 140.33693 | 203.87198 | 180.98154 | 10.17549 | 0.1196827 | 0.18287261 | 3.0739982 | 20 | 2 26.7 | 20.5 |
| 337503 2001 $SA_{129}$ | 17.0 | $X$ | 100.68002 | 334.29789 | 329.38698 | 3.91888 | 0.2096530 | 0.27289548 | 2.3539929 | 20 | — | — |
| 337504 2001 $SN_{130}$ | 18.1 | $X$ | 13.73342 | 72.83079 | 334.96928 | 1.52572 | 0.1943543 | 0.27047551 | 2.3680130 | 20 | — | — |
| 337505 2001 $SN_{131}$ | 15.2 | $X$ | 236.73403 | 264.54580 | 358.53898 | 25.76225 | 0.1914549 | 0.18136795 | 3.0909763 | 20 | 1 11.8 | 20.8 |
| 337506 2001 $SE_{132}$ | 15.8 | $X$ | 138.52132 | 57.03122 | 0.21262 | 8.79748 | 0.1479834 | 0.18484082 | 3.0521377 | 20 | 4 5.7 | 20.6 |
| 337507 2001 $SN_{132}$ | 15.5 | $X$ | 134.00659 | 32.81496 | 350.61493 | 9.37625 | 0.0826922 | 0.18067641 | 3.0988586 | 20 | 2 18.2 | 20.1 |
| 337508 2001 $SB_{133}$ | 16.9 | $X$ | 19.21535 | 39.95217 | 344.09561 | 6.72844 | 0.1310495 | 0.26896074 | 2.3768957 | 20 | — | — |
| 337509 2001 $SQ_{133}$ | 16.0 | $X$ | 85.20304 | 222.43555 | 188.52857 | 27.54723 | 0.1807757 | 0.17590651 | 3.1546276 | 20 | 2 1.8 | 20.7 |
| 337510 2001 $SK_{136}$ | 15.6 | $X$ | 203.10775 | 319.66924 | 345.96752 | 8.69308 | 0.0609375 | 0.18012688 | 3.1051580 | 20 | 1 29.0 | 20.3 |
| 337511 2001 $SU_{137}$ | 15.7 | $X$ | 158.49766 | 40.08872 | 4.72846 | 7.46138 | 0.1088841 | 0.18634687 | 3.0356707 | 20 | 4 8.0 | 20.4 |
| 337512 2001 $SK_{139}$ | 16.0 | $X$ | 128.80672 | 195.35593 | 203.73672 | 4.12666 | 0.1359161 | 0.18076264 | 3.0978729 | 20 | 3 4.9 | 20.6 |
| 337513 2001 $SK_{141}$ | 16.3 | $X$ | 112.60033 | 39.95667 | 351.89735 | 0.77625 | 0.2226580 | 0.17710044 | 3.1404337 | 20 | 2 20.3 | 21.1 |
| 337514 2001 $SL_{141}$ | 17.8 | $X$ | 42.66697 | 353.84555 | 1.57799 | 1.13122 | 0.2004319 | 0.26863186 | 2.3788353 | 20 | — | — |
| 337515 2001 $SY_{146}$ | 18.3 | $X$ | 30.66178 | 151.82719 | 198.70286 | 2.11290 | 0.1881852 | 0.26673086 | 2.3901246 | 20 | 12 30.9 | 21.4 |
| 337516 2001 $SE_{150}$ | 16.6 | $X$ | 14.28546 | 47.14911 | 344.69645 | 7.29091 | 0.1260696 | 0.26855497 | 2.3792893 | 20 | — | — |
| 337517 2001 $SG_{151}$ | 17.7 | $X$ | 249.75456 | 192.06369 | 188.75968 | 21.93306 | 0.0795733 | 0.35449795 | 1.9772439 | 20 | 6 19.5 | 20.5 |
| 337518 2001 $ST_{151}$ | 15.4 | $X$ | 131.77791 | 4.53639 | 8.01422 | 17.71695 | 0.2012891 | 0.17806668 | 3.1290628 | 20 | 2 20.7 | 20.5 |
| 337519 2001 $SD_{158}$ | 16.3 | $X$ | 127.17952 | 75.12060 | 351.55644 | 14.13699 | 0.3319298 | 0.18128761 | 3.0918896 | 20 | 4 18.1 | 21.8 |
| 337520 2001 $SL_{158}$ | 15.6 | $X$ | 72.30193 | 213.60554 | 190.83413 | 27.46070 | 0.1969431 | 0.17287622 | 3.1913851 | 20 | 1 10.1 | 20.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337521 2001 $SY_{158}$ | 17.3 | X | 65.08914 | 139.32429 | 225.35637 | 5.66527 | 0.1935561 | 0.27286113 | 2.3541905 | 20 | — | — |
| 337522 2001 $SQ_{160}$ | 15.8 | X | 169.81921 | 153.09188 | 209.25081 | 11.29433 | 0.1585040 | 0.18251056 | 3.0780621 | 20 | 2 28.9 | 21.0 |
| 337523 2001 $SF_{167}$ | 17.6 | X | 21.47256 | 214.85131 | 171.35715 | 0.96329 | 0.1792455 | 0.26978752 | 2.3720371 | 20 | — | — |
| 337524 2001 $SO_{167}$ | 17.2 | X | 9.14845 | 11.44001 | 34.28724 | 1.65443 | 0.1834253 | 0.26889285 | 2.3772957 | 20 | — | — |
| 337525 2001 $SH_{171}$ | 16.8 | X | 6.42929 | 88.52754 | 312.93304 | 5.35594 | 0.1072412 | 0.26986728 | 2.3715697 | 20 | — | — |
| 337526 2001 $SM_{171}$ | 16.9 | X | 71.56747 | 353.43490 | 0.76520 | 7.89414 | 0.1843710 | 0.27339812 | 2.3511068 | 20 | — | — |
| 337527 2001 $SZ_{176}$ | 15.4 | X | 164.81995 | 175.25620 | 186.59238 | 17.86021 | 0.2155584 | 0.18010721 | 3.1053840 | 20 | 2 27.8 | 20.8 |
| 337528 2001 $SB_{178}$ | 16.5 | X | 203.23011 | 318.96177 | 17.61024 | 0.41911 | 0.2640263 | 0.18582792 | 3.0413197 | 20 | 2 29.9 | 22.0 |
| 337529 2001 $SY_{182}$ | 17.5 | X | 35.47768 | 26.69176 | 0.76209 | 2.12178 | 0.2183850 | 0.27272157 | 2.3549935 | 20 | — | — |
| 337530 2001 $SV_{194}$ | 15.5 | X | 161.35570 | 340.31933 | 3.09152 | 8.90515 | 0.0344532 | 0.18039249 | 3.1021092 | 20 | 1 27.9 | 20.1 |
| 337531 2001 $SK_{206}$ | 17.7 | X | 354.08206 | 52.92138 | 4.72931 | 2.63716 | 0.1838912 | 0.26891763 | 2.3771497 | 20 | — | — |
| 337532 2001 $SA_{210}$ | 17.4 | X | 78.92095 | 254.46632 | 56.30637 | 1.96628 | 0.1919157 | 0.27016640 | 2.3698189 | 20 | — | — |
| 337533 2001 $SW_{212}$ | 15.5 | X | 81.00388 | 59.20869 | 7.73155 | 22.87091 | 0.0784291 | 0.17855650 | 3.1233377 | 20 | 2 15.8 | 20.1 |
| 337534 2001 $SV_{218}$ | 17.4 | X | 4.30648 | 228.38803 | 167.47229 | 2.65061 | 0.2001605 | 0.26747877 | 2.3856671 | 20 | — | — |
| 337535 2001 $SG_{222}$ | 16.3 | X | 166.27775 | 281.17414 | 17.79504 | 10.48147 | 0.2402456 | 0.17567088 | 3.1574479 | 20 | — | — |
| 337536 2001 $SE_{223}$ | 17.1 | X | 160.98716 | 252.94639 | 6.55528 | 7.59522 | 0.2245652 | 0.27513863 | 2.3411811 | 20 | — | — |
| 337537 2001 $SM_{226}$ | 17.0 | X | 354.28197 | 24.12879 | 24.15134 | 6.57064 | 0.1716371 | 0.26703517 | 2.3883084 | 20 | — | — |
| 337538 2001 $SJ_{227}$ | 16.5 | X | 172.89850 | 182.65938 | 152.05779 | 1.46667 | 0.1973957 | 0.18056877 | 3.1000899 | 20 | 2 4.9 | 21.6 |
| 337539 2001 $SN_{227}$ | 17.4 | X | 17.18794 | 199.27928 | 193.64408 | 1.29434 | 0.1673016 | 0.26862307 | 2.3788872 | 20 | — | — |
| 337540 2001 $SS_{227}$ | 17.2 | X | 125.06936 | 286.86612 | 12.83302 | 7.47777 | 0.1223661 | 0.27344191 | 2.3508558 | 20 | — | — |
| 337541 2001 $SW_{231}$ | 17.4 | X | 4.75723 | 272.24601 | 123.36597 | 3.84683 | 0.1899147 | 0.26731371 | 2.3866491 | 20 | — | — |
| 337542 2001 $SB_{233}$ | 17.5 | X | 26.65361 | 244.42867 | 144.36960 | 2.69915 | 0.1795201 | 0.26912164 | 2.3759482 | 20 | — | — |
| 337543 2001 $SS_{234}$ | 17.5 | X | 50.92778 | 312.78420 | 35.41925 | 1.99265 | 0.2020965 | 0.26859695 | 2.3790414 | 20 | — | — |
| 337544 2001 $SD_{239}$ | 16.6 | X | 138.90436 | 158.20138 | 176.89776 | 7.90850 | 0.1919878 | 0.17566823 | 3.1574797 | 20 | 1 7.1 | 21.6 |
| 337545 2001 $SK_{243}$ | 17.4 | X | 14.09304 | 179.20564 | 170.91196 | 2.51950 | 0.2289252 | 0.26357269 | 2.4091792 | 20 | 12 14.4 | 20.2 |
| 337546 2001 $SB_{250}$ | 17.1 | X | 85.45923 | 299.08551 | 41.20476 | 6.02632 | 0.1199898 | 0.27175586 | 2.3605694 | 20 | — | — |
| 337547 2001 $SJ_{250}$ | 15.4 | X | 223.67535 | 237.10503 | 36.35276 | 16.55260 | 0.1241429 | 0.17668678 | 3.1453333 | 20 | 1 10.9 | 20.7 |
| 337548 2001 $SU_{254}$ | 17.2 | X | 219.82727 | 5.23879 | 29.72122 | 21.76833 | 0.1065269 | 0.35043483 | 1.9924979 | 20 | 5 20.9 | 20.1 |
| 337549 2001 $SL_{256}$ | 17.2 | X | 16.15938 | 173.22775 | 168.87673 | 1.26946 | 0.1921737 | 0.26247243 | 2.4159072 | 20 | 11 30.2 | 19.8 |
| 337550 2001 $SX_{258}$ | 16.0 | X | 112.82015 | 221.45573 | 192.07854 | 12.04668 | 0.1575977 | 0.18110462 | 3.0939718 | 20 | 3 6.9 | 20.6 |
| 337551 2001 $SM_{259}$ | 17.6 | X | 17.21802 | 298.82728 | 105.40268 | 3.19025 | 0.2070933 | 0.27087144 | 2.3657049 | 20 | — | — |
| 337552 2001 $SB_{260}$ | 16.3 | X | 143.25820 | 111.82226 | 251.12638 | 4.21105 | 0.1545051 | 0.18031183 | 3.1030342 | 20 | 2 7.4 | 21.2 |
| 337553 2001 $SO_{260}$ | 16.7 | X | 180.13656 | 154.98077 | 185.84999 | 3.68956 | 0.2507640 | 0.18302542 | 3.0722870 | 20 | 2 17.9 | 22.1 |
| 337554 2001 $SG_{261}$ | 18.1 | X | 22.33575 | 21.19374 | 349.84428 | 2.40138 | 0.1812967 | 0.26655403 | 2.3911815 | 20 | — | — |
| 337555 2001 $SM_{261}$ | 17.4 | X | 58.04319 | 100.80558 | 207.04544 | 5.91959 | 0.3211336 | 0.26704998 | 2.3882201 | 20 | 12 20.2 | 21.3 |
| 337556 2001 $SX_{261}$ | 16.1 | X | 141.04264 | 187.21719 | 185.77898 | 4.82455 | 0.1474277 | 0.18076138 | 3.0978873 | 20 | 2 16.6 | 20.9 |
| 337557 2001 $SF_{262}$ | 18.4 | X | 168.43433 | 10.03464 | 347.28117 | 43.34207 | 0.2338728 | 0.44805499 | 1.6914085 | 20 | 2 24.0 | 20.9 |
| 337558 2001 $SG_{262}$ | 19.3 | X | 261.66942 | 100.24015 | 359.05913 | 4.81860 | 0.5827843 | 0.35859525 | 1.9621537 | 20 | 8 17.8 | 22.0 |
| 337559 2001 $SE_{264}$ | 16.7 | X | 207.18846 | 143.10350 | 294.63250 | 16.95162 | 0.1020761 | 0.35575161 | 1.9725959 | 20 | 7 16.5 | 19.0 |
| 337560 2001 $SU_{264}$ | 15.9 | X | 150.22430 | 287.37766 | 96.46185 | 2.55147 | 0.1955869 | 0.18142200 | 3.0903624 | 20 | 3 14.5 | 20.9 |
| 337561 2001 $SJ_{266}$ | 16.6 | X | 68.26117 | 336.44686 | 20.34637 | 5.68884 | 0.2172571 | 0.27143931 | 2.3624043 | 20 | — | — |
| 337562 2001 $SQ_{271}$ | 17.2 | X | 105.33503 | 298.15957 | 10.99104 | 4.96054 | 0.2546673 | 0.27331645 | 2.3515752 | 20 | — | — |
| 337563 2001 $SD_{274}$ | 16.0 | X | 207.74964 | 284.07967 | 6.51206 | 8.62158 | 0.0373233 | 0.17861259 | 3.1226838 | 20 | 1 16.6 | 20.7 |
| 337564 2001 $SE_{285}$ | 16.5 | X | 135.32368 | 26.41292 | 357.01559 | 1.99703 | 0.1686596 | 0.17886297 | 3.1197689 | 20 | 2 26.9 | 21.3 |
| 337565 2001 $SN_{288}$ | 17.4 | X | 9.68665 | 130.19220 | 266.28915 | 5.41937 | 0.1138262 | 0.26844607 | 2.3799327 | 20 | — | — |
| 337566 2001 $SQ_{288}$ | 17.1 | X | 39.61578 | 42.69984 | 317.15969 | 6.04272 | 0.1596617 | 0.26862455 | 2.3788785 | 20 | — | — |
| 337567 2001 $SK_{291}$ | 15.3 | X | 178.08146 | 92.03364 | 272.81762 | 14.00533 | 0.2757871 | 0.18529962 | 3.0470976 | 20 | 3 8.7 | 21.0 |
| 337568 2001 $SC_{296}$ | 15.8 | X | 102.90445 | 66.59066 | 334.06444 | 8.56507 | 0.1373995 | 0.17916278 | 3.1162876 | 20 | 2 9.9 | 20.2 |
| 337569 2001 $SG_{296}$ | 17.8 | X | 128.68227 | 320.20257 | 330.60817 | 6.16480 | 0.1640266 | 0.27555903 | 2.3387993 | 20 | — | — |
| 337570 2001 $SA_{298}$ | 16.0 | X | 221.44570 | 306.42350 | 345.51678 | 10.82363 | 0.0760608 | 0.18267503 | 3.0762143 | 20 | 1 31.8 | 20.8 |
| 337571 2001 $SP_{304}$ | 17.8 | X | 40.27173 | 94.37121 | 236.30269 | 0.76407 | 0.2024908 | 0.26616908 | 2.3934865 | 20 | 12 18.5 | 20.9 |
| 337572 2001 $SW_{315}$ | 16.1 | X | 143.15298 | 46.34660 | 350.36188 | 11.50608 | 0.3930870 | 0.17972967 | 3.1097313 | 20 | 3 31.5 | 22.0 |
| 337573 2001 $SW_{316}$ | 17.1 | X | 5.60030 | 76.91522 | 330.92671 | 5.98120 | 0.1160914 | 0.26988307 | 2.3714772 | 20 | — | — |
| 337574 2001 $SB_{317}$ | 17.3 | X | 30.17258 | 102.42505 | 263.31629 | 7.96756 | 0.2627702 | 0.26843978 | 2.3799699 | 20 | — | — |
| 337575 2001 $SC_{317}$ | 15.8 | X | 173.74698 | 147.63275 | 217.73787 | 16.48019 | 0.1647972 | 0.18454894 | 3.0553550 | 20 | 3 5.5 | 21.1 |
| 337576 2001 $SQ_{317}$ | 15.9 | X | 154.79004 | 298.59521 | 18.23662 | 16.18449 | 0.2310436 | 0.17577464 | 3.1562052 | 20 | 1 5.8 | 21.4 |
| 337577 2001 $SL_{319}$ | 15.9 | X | 142.15290 | 237.13586 | 178.67105 | 9.45461 | 0.1203752 | 0.18515952 | 3.0486344 | 20 | 4 8.0 | 20.6 |
| 337578 2001 $SH_{321}$ | 15.8 | X | 154.39315 | 127.67810 | 247.03606 | 8.97620 | 0.2176776 | 0.18300915 | 3.0724690 | 20 | 3 3.4 | 21.1 |
| 337579 2001 $SO_{321}$ | 15.8 | X | 128.45019 | 132.77102 | 246.97707 | 8.43493 | 0.1361002 | 0.17952297 | 3.1121179 | 20 | 2 8.7 | 20.6 |
| 337580 2001 $SU_{325}$ | 15.8 | X | 178.17177 | 34.44457 | 298.01144 | 12.11807 | 0.2650127 | 0.18287324 | 3.0739911 | 20 | 2 6.5 | 21.3 |
| 337581 2001 $SK_{329}$ | 15.8 | X | 202.18753 | 272.97312 | 345.49585 | 13.87308 | 0.2013092 | 0.17767212 | 3.1336936 | 20 | — | — |
| 337582 2001 $SK_{332}$ | 17.2 | X | 18.54523 | 322.92054 | 28.86996 | 6.69165 | 0.1651635 | 0.26614547 | 2.3936280 | 20 | 12 12.5 | 20.1 |
| 337583 2001 $SU_{332}$ | 17.6 | X | 2.98551 | 41.31318 | 42.14969 | 3.05520 | 0.1592135 | 0.27305601 | 2.3530702 | 20 | — | — |
| 337584 2001 $SM_{338}$ | 17.0 | X | 153.89176 | 297.45140 | 345.52532 | 6.35283 | 0.1035757 | 0.27543110 | 2.3395234 | 20 | — | — |
| 337585 2001 $SW_{338}$ | 18.1 | X | 72.36987 | 162.33310 | 167.74181 | 1.45862 | 0.1994606 | 0.27040579 | 2.3684200 | 20 | — | — |
| 337586 2001 $ST_{341}$ | 15.2 | X | 112.04586 | 1.65748 | 13.24745 | 30.16052 | 0.2600698 | 0.17395057 | 3.1782312 | 20 | 2 20.8 | 20.5 |
| 337587 2001 $SF_{342}$ | 16.7 | X | 147.20271 | 320.48321 | 30.30221 | 0.92772 | 0.1898115 | 0.17904846 | 3.1176138 | 20 | 2 1.9 | 21.5 |
| 337588 2001 $SH_{342}$ | 16.5 | X | 120.26249 | 247.28388 | 178.12520 | 4.83545 | 0.1584588 | 0.18236378 | 3.0797135 | 20 | 3 31.5 | 21.2 |
| 337589 2001 $SS_{342}$ | 17.4 | X | 21.75297 | 301.12698 | 81.61430 | 7.06644 | 0.3074290 | 0.26783835 | 2.3835314 | 20 | — | — |
| 337590 2001 $SQ_{347}$ | 17.4 | X | 93.63753 | 338.24623 | 322.60167 | 6.85921 | 0.1587677 | 0.26962486 | 2.3729910 | 20 | 12 31.8 | 21.1 |
| 337591 2001 $SO_{349}$ | 17.5 | X | 45.37216 | 272.26760 | 77.66808 | 3.58985 | 0.2130290 | 0.26884088 | 2.3776021 | 20 | — | — |
| 337592 2001 $SD_{350}$ | 18.0 | X | 35.69090 | 77.99209 | 322.88438 | 3.47867 | 0.1872707 | 0.27200307 | 2.3591389 | 20 | — | — |
| 337593 2001 $SB_{353}$ | 15.9 | X | 137.19079 | 55.41837 | 12.59186 | 10.72773 | 0.1133632 | 0.18532805 | 3.0467859 | 20 | 4 14.4 | 20.5 |
| 337594 2001 $SR_{353}$ | 16.5 | X | 70.04003 | 38.42224 | 280.16970 | 8.20793 | 0.2261491 | 0.26716642 | 2.3875261 | 20 | — | — |
| 337595 2001 $SL_{355}$ | 17.2 | X | 68.95451 | 272.92942 | 54.12750 | 6.44631 | 0.2484941 | 0.27027701 | 2.3691723 | 20 | — | — |
| 337596 2001 $SQ_{355}$ | 16.8 | X | 28.15894 | 237.49550 | 133.91398 | 7.90140 | 0.1301607 | 0.26779779 | 2.3837721 | 20 | — | — |
| 337597 2001 $SY_{355}$ | 15.7 | X | 97.07849 | 233.12754 | 184.07358 | 26.80303 | 0.1169339 | 0.17802053 | 3.1296035 | 20 | 2 15.9 | 20.4 |
| 337598 2001 $TB_{1}$ | 16.6 | X | 65.74552 | 2.58629 | 43.28884 | 8.03596 | 0.1115615 | 0.27888155 | 2.3201863 | 20 | — | — |
| 337599 2001 $TJ_{1}$ | 15.9 | X | 155.20299 | 138.77058 | 204.91416 | 9.52096 | 0.1325590 | 0.17560903 | 3.1581893 | 20 | 1 25.2 | 21.0 |
| 337600 2001 $TK_{3}$ | 17.8 | X | 46.99007 | 178.28790 | 193.57724 | 0.66547 | 0.2048744 | 0.27026385 | 2.3692492 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337601 2001 $TL_3$ | 17.3 | $X$ | 89.57142 | 295.93858 | 42.06176 | 2.92638 | 0.2389039 | 0.27354515 | 2.3502643 | 20 | — | — |
| 337602 2001 $TR_4$ | 16.0 | $X$ | 155.81599 | 146.64525 | 196.00341 | 13.93771 | 0.2039290 | 0.17922905 | 3.1155193 | 20 | 1 28.5 | 21.4 |
| 337603 2001 $TB_5$ | 16.7 | $X$ | 293.64566 | 93.23178 | 5.14923 | 10.36252 | 0.1860030 | 0.26425302 | 2.4050424 | 20 | 12 3.8 | 18.9 |
| 337604 2001 $TJ_5$ | 17.2 | $X$ | 37.08331 | 311.07524 | 42.13345 | 7.94272 | 0.1418786 | 0.26883945 | 2.3776105 | 20 | — | — |
| 337605 2001 $TP_{10}$ | 17.1 | $X$ | 31.46882 | 5.79448 | 21.26696 | 4.95501 | 0.1848504 | 0.26934242 | 2.3746496 | 20 | — | — |
| 337606 2001 $TH_{12}$ | 15.5 | $X$ | 125.01801 | 25.71051 | 29.08796 | 9.84487 | 0.1026914 | 0.18001085 | 3.1064922 | 20 | 3 20.3 | 20.1 |
| 337607 2001 $TB_{13}$ | 16.9 | $X$ | 353.12042 | 279.39211 | 172.65233 | 23.15843 | 0.3666944 | 0.26747301 | 2.3857013 | 20 | — | — |
| 337608 2001 $TB_{14}$ | 15.8 | $X$ | 166.82644 | 345.26872 | 48.14011 | 11.16035 | 0.2112443 | 0.18505918 | 3.0497363 | 20 | 4 10.8 | 21.1 |
| 337609 2001 $TG_{14}$ | 15.3 | $X$ | 168.45797 | 128.39379 | 256.10205 | 10.61622 | 0.2938138 | 0.18487333 | 3.0517799 | 20 | 3 27.7 | 21.0 |
| 337610 2001 $TC_{16}$ | 15.7 | $X$ | 142.07963 | 280.15217 | 130.48758 | 10.96815 | 0.1226322 | 0.18329725 | 3.0692487 | 20 | 4 5.2 | 20.6 |
| 337611 2001 $TK_{24}$ | 17.4 | $X$ | 323.66769 | 79.42935 | 204.95267 | 21.22416 | 0.0607632 | 0.35199153 | 1.9866189 | 20 | 5 21.7 | 19.4 |
| 337612 2001 $TV_{45}$ | 15.6 | $X$ | 137.85550 | 138.61459 | 233.74715 | 26.57960 | 0.2059268 | 0.17995853 | 3.1070942 | 20 | 2 9.1 | 21.1 |
| 337613 2001 $TG_{47}$ | 17.0 | $X$ | 44.25168 | 251.28334 | 81.73592 | 7.28889 | 0.2113542 | 0.26603321 | 2.3943014 | 20 | 12 26.9 | 20.5 |
| 337614 2001 $TY_{47}$ | 17.4 | $X$ | 27.57300 | 218.11407 | 144.34788 | 7.85363 | 0.1500945 | 0.26588592 | 2.3951855 | 20 | — | — |
| 337615 2001 $TQ_{48}$ | 15.9 | $X$ | 124.77039 | 38.72814 | 346.83597 | 4.25218 | 0.2078338 | 0.17725423 | 3.1386169 | 20 | 2 23.5 | 20.7 |
| 337616 2001 $TU_{48}$ | 16.6 | $X$ | 339.75346 | 257.49140 | 216.44639 | 24.85827 | 0.1776077 | 0.27126488 | 2.3634169 | 20 | — | — |
| 337617 2001 $TT_{50}$ | 15.6 | $X$ | 94.82058 | 54.50477 | 18.46795 | 16.41212 | 0.2313451 | 0.17811099 | 3.1285438 | 20 | 3 25.3 | 20.1 |
| 337618 2001 $TU_{51}$ | 17.6 | $X$ | 14.12384 | 271.74083 | 134.54791 | 1.34840 | 0.2060304 | 0.26897412 | 2.3768169 | 20 | — | — |
| 337619 2001 $TK_{57}$ | 15.6 | $X$ | 157.22914 | 159.78809 | 205.71879 | 9.80570 | 0.1334692 | 0.18059729 | 3.0997635 | 20 | 2 20.3 | 20.7 |
| 337620 2001 $TP_{59}$ | 16.0 | $X$ | 181.98860 | 289.72138 | 26.75758 | 14.89376 | 0.2382262 | 0.17955833 | 3.1117092 | 20 | 1 28.7 | 21.6 |
| 337621 2001 $TR_{72}$ | 15.8 | $X$ | 143.61553 | 327.29976 | 71.43595 | 3.29102 | 0.2521281 | 0.18066151 | 3.0990289 | 20 | 3 30.3 | 21.1 |
| 337622 2001 $TZ_{80}$ | 15.7 | $X$ | 114.59883 | 60.85460 | 346.41767 | 14.79758 | 0.1353915 | 0.17991557 | 3.1075888 | 20 | 3 1.7 | 20.3 |
| 337623 2001 $TH_{81}$ | 17.8 | $X$ | 38.47159 | 65.44270 | 325.02217 | 4.37125 | 0.2081293 | 0.27181974 | 2.3601996 | 20 | — | — |
| 337624 2001 $TC_{82}$ | 16.9 | $X$ | 32.17474 | 92.09939 | 268.89276 | 5.03480 | 0.1587271 | 0.26778000 | 2.3838776 | 20 | — | — |
| 337625 2001 $TJ_{82}$ | 15.7 | $X$ | 178.30942 | 91.25568 | 231.71021 | 9.52509 | 0.1591297 | 0.17971159 | 3.1099399 | 20 | 1 23.1 | 20.9 |
| 337626 2001 $TP_{83}$ | 17.4 | $X$ | 51.65491 | 14.36804 | 4.98328 | 8.46892 | 0.1594430 | 0.27237782 | 2.3569745 | 20 | — | — |
| 337627 2001 $TH_{85}$ | 15.8 | $X$ | 105.38889 | 205.25087 | 211.95938 | 11.00931 | 0.0840870 | 0.17785575 | 3.1315362 | 20 | 2 20.8 | 20.5 |
| 337628 2001 $TG_{88}$ | 16.7 | $X$ | 55.14573 | 151.56145 | 229.96284 | 5.74102 | 0.1211420 | 0.27289299 | 2.3540073 | 20 | — | — |
| 337629 2001 $TJ_{91}$ | 16.8 | $X$ | 101.24668 | 325.60359 | 355.85766 | 5.35575 | 0.1563715 | 0.27273244 | 2.3549310 | 20 | — | — |
| 337630 2001 $TR_{93}$ | 16.0 | $X$ | 166.55021 | 125.14566 | 230.16104 | 6.51805 | 0.2745396 | 0.18187353 | 3.0852454 | 20 | 2 23.7 | 21.5 |
| 337631 2001 $TW_{93}$ | 17.6 | $X$ | 76.41904 | 124.09049 | 223.04902 | 7.04929 | 0.2202453 | 0.27241821 | 2.3567416 | 20 | — | — |
| 337632 2001 $TG_{96}$ | 16.6 | $X$ | 359.83132 | 222.67486 | 216.89834 | 8.15346 | 0.1656348 | 0.27039649 | 2.3684744 | 20 | — | — |
| 337633 2001 $TK_{98}$ | 17.5 | $X$ | 45.71722 | 190.93527 | 143.39606 | 1.74498 | 0.1901573 | 0.26653503 | 2.3912951 | 20 | 12 27.7 | 20.7 |
| 337634 2001 $TX_{98}$ | 17.1 | $X$ | 314.62997 | 116.03933 | 327.18187 | 3.73065 | 0.1816089 | 0.26508439 | 2.4000113 | 20 | 12 31.9 | 18.9 |
| 337635 2001 $TO_{104}$ | 17.3 | $X$ | 40.65133 | 165.99506 | 209.76431 | 2.03644 | 0.2026875 | 0.26982794 | 2.3718002 | 20 | — | — |
| 337636 2001 $TG_{109}$ | 16.9 | $X$ | 59.59363 | 33.74909 | 348.17698 | 6.36118 | 0.2134399 | 0.27269642 | 2.3551384 | 20 | — | — |
| 337637 2001 $TW_{109}$ | 15.7 | $X$ | 155.10106 | 353.46518 | 1.03424 | 5.38855 | 0.2897185 | 0.17976360 | 3.1093399 | 20 | 2 19.7 | 21.2 |
| 337638 2001 $TL_{111}$ | 13.1 | $X$ | 240.56298 | 326.59864 | 30.47671 | 24.23516 | 0.1378255 | 0.08343094 | 5.1870204 | 20 | 4 30.3 | 20.5 |
| 337639 2001 $TU_{112}$ | 18.1 | $X$ | 3.12780 | 87.60050 | 318.04150 | 1.40329 | 0.2089915 | 0.26737266 | 2.3862982 | 20 | — | — |
| 337640 2001 $TJ_{115}$ | 14.9 | $X$ | 143.77095 | 162.86793 | 233.42960 | 15.72634 | 0.2389392 | 0.17945827 | 3.1128658 | 20 | 3 20.6 | 20.4 |
| 337641 2001 $TY_{117}$ | 16.2 | $X$ | 77.99524 | 63.03793 | 236.53126 | 22.10334 | 0.2275955 | 0.26840667 | 2.3801656 | 20 | 12 17.8 | 20.2 |
| 337642 2001 $TL_{119}$ | 15.0 | $X$ | 161.49649 | 5.39214 | 334.92757 | 16.94530 | 0.2403101 | 0.17931964 | 3.1144699 | 20 | 2 7.5 | 20.4 |
| 337643 2001 $TT_{120}$ | 15.8 | $X$ | 144.74107 | 52.80491 | 317.11785 | 11.39114 | 0.1681149 | 0.17842218 | 3.1249050 | 20 | 2 18.3 | 20.8 |
| 337644 2001 $TM_{122}$ | 15.1 | $X$ | 156.98783 | 130.74281 | 252.24672 | 13.90440 | 0.2043818 | 0.18042066 | 3.1017863 | 20 | 3 12.3 | 20.5 |
| 337645 2001 $TO_{124}$ | 15.5 | $X$ | 135.15531 | 110.54404 | 264.85741 | 9.03376 | 0.1301645 | 0.17873913 | 3.1212098 | 20 | 2 9.9 | 20.4 |
| 337646 2001 $TX_{124}$ | 15.3 | $X$ | 99.92178 | 162.34172 | 289.99211 | 8.30494 | 0.1425198 | 0.18139875 | 3.0906265 | 20 | 4 4.1 | 19.9 |
| 337647 2001 $TG_{125}$ | 17.2 | $X$ | 43.15152 | 132.25351 | 246.86723 | 6.47286 | 0.2023728 | 0.27051399 | 2.3677884 | 20 | — | — |
| 337648 2001 $TW_{129}$ | 16.7 | $X$ | 160.50847 | 343.64248 | 35.96914 | 1.06418 | 0.1419775 | 0.18285922 | 3.0741482 | 20 | 3 14.5 | 21.5 |
| 337649 2001 $TX_{129}$ | 17.5 | $X$ | 66.06133 | 166.49266 | 195.96125 | 7.01351 | 0.1335479 | 0.27234560 | 2.3571604 | 20 | — | — |
| 337650 2001 $TJ_{131}$ | 17.3 | $X$ | 32.25927 | 297.24469 | 86.12506 | 6.32711 | 0.2525044 | 0.26899779 | 2.3766774 | 20 | — | — |
| 337651 2001 $TN_{132}$ | 15.0 | $X$ | 155.19501 | 116.00138 | 240.32086 | 14.69747 | 0.2134803 | 0.18031230 | 3.1030288 | 20 | 2 10.3 | 20.5 |
| 337652 2001 $TA_{133}$ | 15.5 | $X$ | 147.49275 | 140.38021 | 231.79081 | 10.55115 | 0.0996062 | 0.18020121 | 3.1043041 | 20 | 2 14.7 | 20.4 |
| 337653 2001 $TA_{137}$ | 17.2 | $X$ | 26.49326 | 232.84070 | 115.55785 | 8.41663 | 0.2685728 | 0.26640401 | 2.3920792 | 20 | — | — |
| 337654 2001 $TP_{138}$ | 16.8 | $X$ | 26.56243 | 6.19508 | 9.07488 | 26.77243 | 0.1652263 | 0.27027534 | 2.3691820 | 20 | — | — |
| 337655 2001 $TW_{141}$ | 17.3 | $X$ | 357.83980 | 348.51255 | 79.90870 | 4.10385 | 0.1710822 | 0.26984323 | 2.3717106 | 20 | — | — |
| 337656 2001 $TC_{144}$ | 17.2 | $X$ | 19.87434 | 299.53194 | 99.96669 | 5.43011 | 0.1489566 | 0.26983379 | 2.3717660 | 20 | — | — |
| 337657 2001 $TY_{149}$ | 15.4 | $X$ | 108.29041 | 354.98179 | 56.42733 | 10.35949 | 0.2137753 | 0.17720384 | 3.1392118 | 20 | 3 14.1 | 20.2 |
| 337658 2001 $TS_{153}$ | 16.6 | $X$ | 63.79220 | 60.59823 | 259.27784 | 8.41044 | 0.2822760 | 0.26890659 | 2.3772148 | 20 | — | — |
| 337659 2001 $TA_{159}$ | 16.2 | $X$ | 168.70810 | 334.32879 | 18.79690 | 3.61960 | 0.3751817 | 0.18358117 | 3.0660834 | 20 | 2 29.6 | 22.0 |
| 337660 2001 $TH_{159}$ | 17.7 | $X$ | 24.87458 | 332.08340 | 29.07673 | 1.64828 | 0.2043908 | 0.26597489 | 2.3946513 | 20 | — | — |
| 337661 2001 $TV_{162}$ | 17.7 | $X$ | 12.72577 | 66.11441 | 344.18656 | 1.95635 | 0.2036265 | 0.26963187 | 2.3729499 | 20 | — | — |
| 337662 2001 $TP_{170}$ | 15.4 | $X$ | 136.43250 | 28.90904 | 345.51131 | 11.32676 | 0.0825373 | 0.17793477 | 3.1306091 | 20 | 2 11.0 | 20.0 |
| 337663 2001 $TY_{172}$ | 17.7 | $X$ | 20.18237 | 221.38670 | 183.62262 | 2.78807 | 0.1272333 | 0.27021779 | 2.3695184 | 20 | — | — |
| 337664 2001 $TO_{173}$ | 17.6 | $X$ | 359.57847 | 7.99176 | 40.71469 | 4.24007 | 0.0862187 | 0.26785219 | 2.3834493 | 20 | — | — |
| 337665 2001 $TN_{176}$ | 16.4 | $X$ | 128.51413 | 20.52553 | 10.76440 | 2.15461 | 0.1508239 | 0.17846397 | 3.1244172 | 20 | 2 27.9 | 21.2 |
| 337666 2001 $TJ_{177}$ | 15.8 | $X$ | 176.18674 | 135.47683 | 242.10874 | 8.07644 | 0.1525144 | 0.18459282 | 3.0548708 | 20 | 3 23.0 | 20.8 |
| 337667 2001 $TG_{178}$ | 15.8 | $X$ | 168.33930 | 146.34419 | 221.72290 | 10.89572 | 0.1392142 | 0.18213478 | 3.0822945 | 20 | 3 3.9 | 20.9 |
| 337668 2001 $TR_{178}$ | 17.2 | $X$ | 30.52121 | 342.32075 | 344.71656 | 3.49720 | 0.1013193 | 0.26208847 | 2.4182662 | 20 | 11 14.2 | 20.2 |
| 337669 2001 $TJ_{181}$ | 15.7 | $X$ | 226.57864 | 277.82778 | 12.19078 | 8.67391 | 0.1487360 | 0.17991442 | 3.1076020 | 20 | 2 1.1 | 20.8 |
| 337670 2001 $TC_{182}$ | 17.3 | $X$ | 36.82203 | 40.86215 | 311.66572 | 1.47373 | 0.1957649 | 0.26645076 | 2.3917993 | 20 | — | — |
| 337671 2001 $TA_{183}$ | 15.5 | $X$ | 117.70018 | 354.54643 | 8.52448 | 11.66503 | 0.2479697 | 0.17408323 | 3.1766163 | 20 | 1 29.9 | 20.5 |
| 337672 2001 $TL_{183}$ | 16.8 | $X$ | 122.16618 | 261.86211 | 10.03846 | 7.73169 | 0.1108698 | 0.26885394 | 2.3775251 | 20 | 12 21.1 | 20.4 |
| 337673 2001 $TD_{184}$ | 15.9 | $X$ | 171.99790 | 164.91719 | 214.65794 | 8.99065 | 0.0943027 | 0.18442639 | 3.0567083 | 20 | 3 20.6 | 20.8 |
| 337674 2001 $TU_{185}$ | 16.4 | $X$ | 60.34308 | 308.45707 | 12.11674 | 11.82871 | 0.1721515 | 0.26609842 | 2.3939102 | 20 | 12 23.6 | 20.1 |
| 337675 2001 $TO_{188}$ | 16.0 | $X$ | 87.24394 | 53.43042 | 31.07471 | 14.02348 | 0.2871807 | 0.17521676 | 3.1629012 | 20 | 4 6.8 | 20.5 |
| 337676 2001 $TC_{189}$ | 15.1 | $X$ | 149.55956 | 130.74589 | 244.27732 | 8.42940 | 0.1697780 | 0.17832195 | 3.1260759 | 20 | 2 26.2 | 20.3 |
| 337677 2001 $TJ_{200}$ | 16.1 | $X$ | 114.74124 | 58.38453 | 44.06623 | 13.08027 | 0.3788250 | 0.18186501 | 3.0853418 | 20 | 5 27.8 | 21.6 |
| 337678 2001 $TA_{203}$ | 15.3 | $X$ | 161.79572 | 342.71185 | 45.26515 | 14.21101 | 0.2430110 | 0.18472740 | 3.0533868 | 20 | 4 3.6 | 20.7 |
| 337679 2001 $TR_{203}$ | 16.5 | $X$ | 92.73591 | 257.98320 | 21.99867 | 22.34638 | 0.2172380 | 0.26906723 | 2.3762685 | 20 | 12 1.9 | 20.8 |
| 337680 2001 $TR_{209}$ | 16.6 | $X$ | 136.97667 | 52.82032 | 13.25234 | 2.87897 | 0.1163975 | 0.18463067 | 3.0544532 | 20 | 4 13.4 | 21.1 |

| Planet | H | G | M | ω | Ω | i | e | μ | a | TE | Oppos. | V |
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| 337681 2001 $TC_{215}$ | 15.4 | X | 186.46763 | 344.08523 | 348.93652 | 12.33414 | 0.1129896 | 0.17936142 | 3.1139862 | 20 | 2 14.9 | 20.3 |
| 337682 2001 $TE_{218}$ | 16.6 | X | 130.61759 | 41.41246 | 354.02278 | 1.02697 | 0.1796352 | 0.18057480 | 3.1000208 | 20 | 3 8.0 | 21.4 |
| 337683 2001 $TX_{218}$ | 17.1 | X | 11.91282 | 323.15010 | 89.43424 | 6.11790 | 0.1976763 | 0.26891540 | 2.3771628 | 20 | — | — |
| 337684 2001 $TL_{221}$ | 15.7 | X | 217.03373 | 304.12044 | 8.21694 | 11.23175 | 0.1326927 | 0.18191430 | 3.0847844 | 20 | 2 19.6 | 20.7 |
| 337685 2001 $TR_{222}$ | 15.9 | X | 183.02569 | 106.97059 | 234.75327 | 8.16323 | 0.1052581 | 0.18136848 | 3.0909704 | 20 | 2 15.2 | 20.9 |
| 337686 2001 $TE_{232}$ | 17.7 | X | 256.20703 | 38.02267 | 339.61134 | 18.68084 | 0.0920907 | 0.35628215 | 1.9706372 | 20 | 6 25.8 | 20.3 |
| 337687 2001 $TD_{235}$ | 17.0 | X | 45.38935 | 206.41168 | 115.24474 | 6.99281 | 0.2187691 | 0.26481638 | 2.4016303 | 20 | 12 14.9 | 20.4 |
| 337688 2001 $TQ_{240}$ | 15.8 | X | 118.41419 | 162.76035 | 228.07925 | 12.46712 | 0.1167647 | 0.17608046 | 3.1525497 | 20 | 2 7.8 | 20.7 |
| 337689 2001 $TZ_{245}$ | 16.6 | X | 145.63909 | 355.85039 | 9.13987 | 10.77985 | 0.0608565 | 0.18009327 | 3.1055443 | 20 | 2 8.8 | 21.3 |
| 337690 2001 $TZ_{247}$ | 17.9 | X | 326.36029 | 329.39629 | 127.20885 | 1.84067 | 0.1604419 | 0.26947355 | 2.3738792 | 20 | — | — |
| 337691 2001 $TP_{249}$ | 15.8 | X | 138.55414 | 0.94441 | 29.77396 | 8.82383 | 0.1615451 | 0.18127534 | 3.0920290 | 20 | 3 11.6 | 20.7 |
| 337692 2001 $TO_{250}$ | 16.7 | X | 196.13893 | 219.85981 | 143.59072 | 3.06601 | 0.1312649 | 0.18671118 | 3.0317206 | 20 | 3 28.1 | 21.5 |
| 337693 2001 $TC_{251}$ | 16.1 | X | 118.37177 | 24.24108 | 33.07023 | 10.80528 | 0.0339496 | 0.18213728 | 3.0822662 | 20 | 3 8.6 | 20.6 |
| 337694 2001 $TL_{252}$ | 15.8 | X | 234.87557 | 102.19170 | 184.89143 | 16.92700 | 0.0875892 | 0.18155556 | 3.0888467 | 20 | 2 2.5 | 20.7 |
| 337695 2001 $TM_{253}$ | 15.5 | X | 44.38808 | 98.29031 | 50.56831 | 10.45768 | 0.0422158 | 0.18399977 | 3.0614314 | 20 | 3 28.5 | 19.7 |
| 337696 2001 $TW_{254}$ | 15.7 | X | 104.81933 | 0.10932 | 55.65544 | 10.65199 | 0.0512514 | 0.17900238 | 3.1181489 | 20 | 2 22.5 | 20.3 |
| 337697 2001 $TK_{255}$ | 16.0 | X | 57.85284 | 34.55918 | 63.81770 | 10.61901 | 0.1088659 | 0.17662343 | 3.1460854 | 20 | 2 20.9 | 20.2 |
| 337698 2001 $TT_{257}$ | 18.0 | X | 21.66058 | 85.34474 | 335.87516 | 0.82489 | 0.1717688 | 0.27160179 | 2.3614620 | 20 | — | — |
| 337699 2001 $TY_{257}$ | 15.4 | X | 130.35113 | 295.56251 | 55.17036 | 27.77878 | 0.2228446 | 0.17395962 | 3.1781209 | 20 | 1 25.6 | 20.9 |
| 337700 2001 $TQ_{258}$ | 18.3 | X | 30.57649 | 253.87964 | 146.84350 | 3.96101 | 0.1840538 | 0.27129361 | 2.3632500 | 20 | — | — |
| 337701 2001 $TT_{259}$ | 16.5 | X | 182.65055 | 137.73666 | 194.81990 | 2.10149 | 0.2069495 | 0.18108200 | 3.0942295 | 20 | 2 9.8 | 21.8 |
| 337702 2001 $TZ_{259}$ | 17.2 | X | 310.51036 | 250.87775 | 166.23166 | 5.98486 | 0.0713791 | 0.26109299 | 2.4244091 | 20 | 11 13.8 | 19.9 |
| 337703 2001 $UP_{3}$ | 15.9 | X | 130.13405 | 339.26768 | 98.56500 | 4.57997 | 0.2000874 | 0.18271316 | 3.0757863 | 20 | 4 30.2 | 20.9 |
| 337704 2001 $UJ_{6}$ | 15.4 | X | 108.38024 | 346.47720 | 59.21602 | 17.65578 | 0.2396465 | 0.17486792 | 3.1671061 | 20 | 3 15.1 | 20.5 |
| 337705 2001 $UW_{7}$ | 17.6 | X | 51.84194 | 25.03696 | 347.42241 | 1.69733 | 0.1828324 | 0.27120106 | 2.3637877 | 20 | — | — |
| 337706 2001 $UE_{8}$ | 15.7 | X | 134.94213 | 156.97058 | 204.20438 | 16.74729 | 0.2179376 | 0.17661805 | 3.1461492 | 20 | 2 1.1 | 21.0 |
| 337707 2001 $UO_{8}$ | 15.5 | X | 161.16253 | 318.89640 | 45.34250 | 7.79385 | 0.1747571 | 0.18033492 | 3.1027694 | 20 | 3 2.5 | 20.6 |
| 337708 2001 $UV_{9}$ | 14.5 | X | 170.14546 | 105.41915 | 251.06851 | 14.23452 | 0.2963686 | 0.17935375 | 3.1140750 | 20 | 2 24.6 | 20.3 |
| 337709 2001 $UV_{12}$ | 17.1 | X | 326.98725 | 329.40892 | 93.43316 | 3.59481 | 0.2132579 | 0.26170368 | 2.4206361 | 20 | 12 29.2 | 18.7 |
| 337710 2001 $UB_{20}$ | 15.5 | X | 163.63851 | 320.52415 | 35.23493 | 27.71368 | 0.1139413 | 0.18060927 | 3.0996264 | 20 | 3 4.1 | 20.9 |
| 337711 2001 $UR_{22}$ | 15.8 | X | 119.19666 | 174.11626 | 226.60603 | 9.14233 | 0.1850270 | 0.17927251 | 3.1150158 | 20 | 2 29.1 | 20.7 |
| 337712 2001 $UC_{23}$ | 15.5 | X | 106.80173 | 78.59220 | 344.20725 | 14.62808 | 0.2307035 | 0.17846587 | 3.1243950 | 20 | 3 19.8 | 20.3 |
| 337713 2001 $UO_{25}$ | 16.8 | X | 66.89132 | 105.08145 | 230.85490 | 11.08930 | 0.2707985 | 0.27026796 | 2.3692252 | 20 | — | — |
| 337714 2001 $UN_{28}$ | 17.0 | X | 342.18000 | 349.18846 | 71.19623 | 3.20627 | 0.1389426 | 0.26623939 | 2.3930651 | 20 | — | — |
| 337715 2001 $UJ_{33}$ | 16.4 | X | 10.48759 | 342.75030 | 45.53000 | 25.29576 | 0.1843491 | 0.26590944 | 2.3950443 | 20 | — | — |
| 337716 2001 $UH_{38}$ | 17.2 | X | 349.60103 | 202.03466 | 198.87598 | 12.47987 | 0.1108227 | 0.26515678 | 2.3995744 | 20 | 12 26.9 | 20.2 |
| 337717 2001 $UK_{38}$ | 16.0 | X | 99.47499 | 237.02892 | 162.14452 | 0.79735 | 0.1821504 | 0.17528188 | 3.1621177 | 20 | 2 9.5 | 20.5 |
| 337718 2001 $UJ_{40}$ | 17.1 | X | 39.99283 | 254.31169 | 132.11031 | 1.95126 | 0.1911840 | 0.27033407 | 2.3688389 | 20 | — | — |
| 337719 2001 $UQ_{40}$ | 17.0 | X | 26.57606 | 354.48360 | 35.00298 | 7.83382 | 0.0807239 | 0.26863115 | 2.3788395 | 20 | — | — |
| 337720 2001 $UU_{40}$ | 17.3 | X | 350.02149 | 200.61449 | 196.66005 | 6.34333 | 0.1080887 | 0.26406890 | 2.4061602 | 20 | 12 22.7 | 20.0 |
| 337721 2001 $UB_{44}$ | 15.6 | X | 93.19819 | 27.30970 | 43.49340 | 17.26577 | 0.2064154 | 0.17633467 | 3.1495191 | 20 | 3 22.8 | 20.3 |
| 337722 2001 $UB_{48}$ | 15.3 | X | 130.65846 | 190.47717 | 220.90173 | 18.71367 | 0.1609242 | 0.17904921 | 3.1176052 | 20 | 3 21.1 | 20.4 |
| 337723 2001 $UV_{52}$ | 17.2 | X | 39.76712 | 153.06951 | 186.07854 | 5.06975 | 0.2167190 | 0.26489467 | 2.4011571 | 20 | 12 29.9 | 20.6 |
| 337724 2001 $UK_{54}$ | 16.7 | X | 323.15033 | 174.69615 | 275.69417 | 8.66719 | 0.2567135 | 0.26589662 | 2.3951213 | 20 | — | — |
| 337725 2001 $UQ_{56}$ | 15.7 | X | 86.69511 | 180.61891 | 202.45713 | 10.46710 | 0.1045390 | 0.17211381 | 3.2008026 | 20 | — | — |
| 337726 2001 $UA_{60}$ | 17.2 | X | 44.58604 | 305.94432 | 30.13970 | 4.97654 | 0.1992649 | 0.26569229 | 2.3963491 | 20 | 12 29.9 | 20.6 |
| 337727 2001 $UG_{60}$ | 15.5 | X | 84.78834 | 236.37470 | 219.87683 | 7.16505 | 0.1888066 | 0.17749749 | 3.1357486 | 20 | 3 31.3 | 19.9 |
| 337728 2001 $UF_{61}$ | 17.5 | X | 343.70589 | 173.64039 | 222.57961 | 3.41031 | 0.0947850 | 0.26393151 | 2.4069952 | 20 | 12 9.6 | 19.9 |
| 337729 2001 $UU_{61}$ | 15.9 | X | 67.56716 | 67.66459 | 23.27863 | 8.98375 | 0.0465257 | 0.17770114 | 3.1333524 | 20 | 2 16.8 | 20.2 |
| 337730 2001 $UH_{64}$ | 16.7 | X | 301.60261 | 105.71271 | 4.98975 | 4.74159 | 0.0787002 | 0.26659568 | 2.3909325 | 20 | — | — |
| 337731 2001 $UZ_{67}$ | 16.4 | X | 123.66948 | 207.85272 | 196.60288 | 2.09170 | 0.2109395 | 0.17886893 | 3.1196997 | 20 | 3 14.8 | 21.2 |
| 337732 2001 $UH_{68}$ | 17.4 | X | 65.81244 | 307.42013 | 30.78541 | 12.09949 | 0.2279380 | 0.26968806 | 2.3726203 | 20 | — | — |
| 337733 2001 $UJ_{68}$ | 17.6 | X | 56.39352 | 327.87883 | 34.55502 | 2.67286 | 0.2344008 | 0.27000677 | 2.3707528 | 20 | — | — |
| 337734 2001 $UJ_{70}$ | 16.5 | X | 157.10394 | 356.32633 | 22.51477 | 1.45517 | 0.0870295 | 0.18132428 | 3.0914727 | 20 | 3 6.9 | 21.1 |
| 337735 2001 $UH_{71}$ | 17.9 | X | 77.56301 | 136.81451 | 214.62947 | 5.83102 | 0.1427221 | 0.27092722 | 2.3653802 | 20 | — | — |
| 337736 2001 $UR_{72}$ | 15.9 | X | 133.03450 | 271.24723 | 60.22949 | 25.15631 | 0.3265986 | 0.17382553 | 3.1797551 | 20 | 1 11.2 | 21.5 |
| 337737 2001 $UR_{77}$ | 15.9 | X | 147.21176 | 296.64502 | 44.27039 | 16.82221 | 0.0702700 | 0.17344492 | 3.1844052 | 20 | 1 13.1 | 20.9 |
| 337738 2001 $UH_{78}$ | 16.8 | X | 331.34101 | 34.58438 | 45.74931 | 5.96523 | 0.1858963 | 0.26647351 | 2.3916632 | 20 | — | — |
| 337739 2001 $UF_{80}$ | 17.3 | X | 80.08620 | 291.59815 | 40.02304 | 4.21804 | 0.2663157 | 0.27092276 | 2.3654062 | 20 | — | — |
| 337740 2001 $UP_{83}$ | 15.5 | X | 149.12126 | 358.55346 | 49.57240 | 17.36873 | 0.1805205 | 0.18098384 | 3.0953482 | 20 | 4 14.2 | 20.6 |
| 337741 2001 $UR_{84}$ | 16.2 | X | 173.08140 | 141.94751 | 218.92136 | 12.81514 | 0.2752219 | 0.18190322 | 3.0849097 | 20 | 3 4.1 | 21.8 |
| 337742 2001 $UF_{87}$ | 17.3 | X | 31.03901 | 345.10067 | 34.90669 | 3.96794 | 0.1368999 | 0.26726883 | 2.3869162 | 20 | — | — |
| 337743 2001 $UX_{96}$ | 17.4 | X | 47.77782 | 282.93761 | 89.05270 | 2.92601 | 0.1570368 | 0.26986311 | 2.3715942 | 20 | — | — |
| 337744 2001 $UR_{97}$ | 17.6 | X | 3.88234 | 191.62273 | 206.86299 | 2.90685 | 0.1797294 | 0.26594839 | 2.3948104 | 20 | — | — |
| 337745 2001 $UM_{100}$ | 17.7 | X | 349.94539 | 325.69442 | 89.72298 | 3.18034 | 0.1964691 | 0.26511535 | 2.3998244 | 20 | — | — |
| 337746 2001 $UX_{100}$ | 15.8 | X | 193.27973 | 280.84863 | 22.68726 | 13.59899 | 0.2467864 | 0.18024727 | 3.1037751 | 20 | 1 21.1 | 21.5 |
| 337747 2001 $UQ_{101}$ | 16.3 | X | 171.45936 | 258.24324 | 93.65167 | 2.16607 | 0.1767252 | 0.18159700 | 3.0883767 | 20 | 2 23.2 | 21.3 |
| 337748 2001 $UY_{101}$ | 17.5 | X | 66.56000 | 287.46900 | 32.93747 | 1.80513 | 0.1624045 | 0.26740842 | 2.3860855 | 20 | 12 29.2 | 20.9 |
| 337749 2001 $UH_{102}$ | 17.3 | X | 66.11436 | 244.82749 | 70.65727 | 3.25286 | 0.2303250 | 0.26777311 | 2.3839185 | 20 | 12 28.7 | 20.9 |
| 337750 2001 $UT_{105}$ | 17.9 | X | 27.17949 | 335.30253 | 75.62643 | 2.37309 | 0.1775657 | 0.27068992 | 2.3667624 | 20 | — | — |
| 337751 2001 $UX_{106}$ | 16.0 | X | 169.83357 | 159.03654 | 205.41493 | 2.04978 | 0.1907732 | 0.18099104 | 3.0952661 | 20 | 3 6.4 | 21.1 |
| 337752 2001 $UH_{107}$ | 17.9 | X | 48.65184 | 267.91859 | 105.51072 | 2.05707 | 0.2046813 | 0.26967596 | 2.3726912 | 20 | — | — |
| 337753 2001 $UD_{108}$ | 15.9 | X | 208.70294 | 295.95418 | 39.20858 | 13.48078 | 0.1325183 | 0.18369517 | 3.0648148 | 20 | 3 11.8 | 21.0 |
| 337754 2001 $UR_{108}$ | 15.0 | X | 133.31767 | 159.93098 | 225.67480 | 12.57592 | 0.1434858 | 0.17621070 | 3.1509960 | 20 | 2 20.1 | 20.1 |
| 337755 2001 $UX_{110}$ | 15.7 | X | 81.15278 | 75.08556 | 19.96518 | 8.45609 | 0.2165508 | 0.17689823 | 3.1428264 | 20 | 3 31.7 | 20.0 |
| 337756 2001 $UL_{115}$ | 16.3 | X | 177.21342 | 179.67002 | 180.99013 | 3.58193 | 0.2211439 | 0.18172429 | 3.0869344 | 20 | 3 9.0 | 21.6 |
| 337757 2001 $UA_{120}$ | 16.2 | X | 184.37874 | 307.62105 | 61.01504 | 5.99312 | 0.1597557 | 0.18366830 | 3.0651136 | 20 | 3 25.7 | 21.2 |
| 337758 2001 $UK_{124}$ | 15.6 | X | 165.90899 | 291.15967 | 79.64642 | 17.54441 | 0.2487806 | 0.18240018 | 3.0793039 | 20 | 3 22.5 | 21.3 |
| 337759 2001 $UG_{125}$ | 15.9 | X | 134.94131 | 304.48437 | 107.36378 | 12.40772 | 0.1885757 | 0.18061829 | 3.0995233 | 20 | 4 7.1 | 21.0 |
| 337760 2001 $UJ_{129}$ | 16.8 | X | 95.56079 | 252.39989 | 28.24156 | 10.11099 | 0.1048737 | 0.26580391 | 2.3956781 | 20 | 12 2.2 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337761 2001 $UB_{130}$ | 13.7 | X | 227.34771 | 320.04175 | 44.00115 | 8.32154 | 0.1229335 | 0.08412807 | 5.1583260 | 20 | 4 30.3 | 21.0 |
| 337762 2001 $UJ_{130}$ | 15.8 | X | 158.30407 | 324.47773 | 39.46982 | 11.58072 | 0.1221955 | 0.17957428 | 3.1115250 | 20 | 2 27.4 | 20.8 |
| 337763 2001 $UM_{137}$ | 16.4 | X | 192.88762 | 139.91883 | 201.36949 | 2.59625 | 0.2401058 | 0.18429034 | 3.0582126 | 20 | 2 27.3 | 21.8 |
| 337764 2001 $UT_{138}$ | 15.9 | X | 129.46461 | 339.37716 | 35.46388 | 9.75989 | 0.1021319 | 0.17623042 | 3.1507610 | 20 | 2 7.7 | 20.7 |
| 337765 2001 $UZ_{138}$ | 15.8 | X | 85.81812 | 64.70674 | 35.84224 | 16.32305 | 0.2051832 | 0.17855726 | 3.1233288 | 20 | 4 13.4 | 20.1 |
| 337766 2001 $UZ_{139}$ | 17.7 | X | 17.52607 | 354.04381 | 51.93663 | 2.48564 | 0.1843799 | 0.26891231 | 2.3771811 | 20 | — | — |
| 337767 2001 $UV_{143}$ | 15.9 | X | 212.17996 | 300.84040 | 48.36975 | 11.08565 | 0.1603208 | 0.18495789 | 3.0508496 | 20 | 3 28.6 | 21.0 |
| 337768 2001 $UZ_{143}$ | 17.6 | X | 322.16800 | 26.63168 | 59.68841 | 2.97136 | 0.1821139 | 0.26444097 | 2.4039027 | 20 | — | — |
| 337769 2001 $US_{145}$ | 15.4 | X | 88.77595 | 81.17209 | 55.53236 | 18.28769 | 0.2170844 | 0.18135341 | 3.0911416 | 20 | 5 29.3 | 20.0 |
| 337770 2001 $UA_{148}$ | 16.3 | X | 125.23344 | 305.69281 | 93.44902 | 2.93314 | 0.1599429 | 0.17798142 | 3.1300619 | 20 | 3 6.6 | 21.0 |
| 337771 2001 $UA_{160}$ | 17.3 | X | 6.84166 | 319.59240 | 79.38886 | 5.88291 | 0.1829607 | 0.26499864 | 2.4005290 | 20 | — | — |
| 337772 2001 $UK_{163}$ | 17.6 | X | 18.66892 | 320.69198 | 85.77284 | 3.56177 | 0.1891745 | 0.26768170 | 2.3844612 | 20 | — | — |
| 337773 2001 $UX_{163}$ | 17.2 | X | 5.48814 | 247.60596 | 164.19782 | 5.57295 | 0.2100302 | 0.26924253 | 2.3752369 | 20 | — | — |
| 337774 2001 $UK_{165}$ | 16.3 | X | 3.30269 | 302.18715 | 55.68213 | 11.48513 | 0.2355674 | 0.26334086 | 2.4105929 | 20 | 12 7.9 | 18.7 |
| 337775 2001 $UK_{166}$ | 13.8 | X | 235.03644 | 115.73157 | 240.92962 | 6.25188 | 0.0732740 | 0.08368201 | 5.1766400 | 20 | 5 2.7 | 20.8 |
| 337776 2001 $UM_{172}$ | 15.9 | X | 56.25970 | 57.37132 | 36.08067 | 5.70646 | 0.1768522 | 0.17349697 | 3.1837683 | 20 | 2 18.5 | 19.7 |
| 337777 2001 $UH_{173}$ | 15.7 | X | 229.43391 | 288.19570 | 39.55527 | 12.16187 | 0.0784072 | 0.18375445 | 3.0641555 | 20 | 3 24.2 | 20.4 |
| 337778 2001 $US_{173}$ | 15.7 | X | 120.84336 | 13.79037 | 40.58380 | 10.98899 | 0.0903835 | 0.17847418 | 3.1242980 | 20 | 3 15.7 | 20.4 |
| 337779 2001 $UO_{177}$ | 16.7 | X | 346.05468 | 4.51190 | 33.73249 | 7.68519 | 0.1025832 | 0.26267711 | 2.4146521 | 20 | 12 15.9 | 19.4 |
| 337780 2001 $UH_{178}$ | 17.1 | X | 259.98701 | 10.59874 | 37.42829 | 21.38822 | 0.0988043 | 0.36007785 | 1.9567640 | 20 | 9 4.1 | 19.5 |
| 337781 2001 $UZ_{184}$ | 18.0 | X | 3.30279 | 356.37133 | 45.82579 | 3.58411 | 0.1826450 | 0.26642145 | 2.3919747 | 20 | — | — |
| 337782 2001 $UL_{185}$ | 15.6 | X | 144.26871 | 122.51376 | 268.34044 | 8.52177 | 0.1615647 | 0.18329537 | 3.0692697 | 20 | 3 9.3 | 20.7 |
| 337783 2001 $UJ_{189}$ | 15.4 | X | 130.59042 | 74.05387 | 350.64375 | 25.76348 | 0.2364801 | 0.18237099 | 3.0796324 | 20 | 4 5.9 | 20.7 |
| 337784 2001 $UB_{192}$ | 15.1 | X | 132.63880 | 326.97525 | 354.53382 | 27.71389 | 0.2189691 | 0.17256107 | 3.1952695 | 20 | — | — |
| 337785 2001 $UG_{192}$ | 15.1 | X | 121.43894 | 146.85921 | 272.09925 | 13.32117 | 0.1593757 | 0.18086883 | 3.0966603 | 20 | 3 17.7 | 20.1 |
| 337786 2001 $UX_{194}$ | 17.1 | X | 229.94952 | 170.66815 | 36.68698 | 6.84404 | 0.0640168 | 0.27252284 | 2.3561383 | 20 | — | — |
| 337787 2001 $UU_{195}$ | 16.0 | X | 71.18158 | 285.37805 | 188.64920 | 14.92086 | 0.1546952 | 0.18016086 | 3.1047675 | 20 | 3 31.9 | 20.1 |
| 337788 2001 $UE_{198}$ | 13.0 | X | 327.94499 | 51.64328 | 207.25686 | 23.72972 | 0.0778106 | 0.08497523 | 5.1239847 | 20 | 4 29.4 | 19.5 |
| 337789 2001 $UE_{201}$ | 15.7 | X | 129.03385 | 37.59911 | 13.58496 | 9.64274 | 0.1059330 | 0.18087563 | 3.0965827 | 20 | 3 19.1 | 20.3 |
| 337790 2001 $UU_{201}$ | 15.6 | X | 137.76061 | 189.27937 | 217.62393 | 17.72649 | 0.0821166 | 0.18152632 | 3.0891783 | 20 | 3 14.9 | 20.4 |
| 337791 2001 $UU_{202}$ | 17.6 | X | 325.01206 | 162.93410 | 297.53858 | 1.64984 | 0.1691674 | 0.26765506 | 2.3846194 | 20 | — | — |
| 337792 2001 $UV_{202}$ | 15.6 | X | 142.02965 | 193.31839 | 223.71909 | 7.99037 | 0.0523167 | 0.18340502 | 3.0680462 | 20 | 3 31.3 | 20.2 |
| 337793 2001 $UA_{204}$ | 16.4 | X | 253.87662 | 134.40538 | 14.86846 | 6.80041 | 0.0960532 | 0.26458717 | 2.4030171 | 20 | 12 18.6 | 19.2 |
| 337794 2001 $UZ_{204}$ | 16.9 | X | 70.53259 | 310.63143 | 22.77468 | 8.89234 | 0.1467665 | 0.26806663 | 2.3821780 | 20 | — | — |
| 337795 2001 $UG_{205}$ | 17.7 | X | 33.16560 | 31.09271 | 333.16602 | 2.23529 | 0.2420968 | 0.26683003 | 2.3895323 | 20 | — | — |
| 337796 2001 $UW_{205}$ | 17.8 | X | 19.37623 | 115.90477 | 274.54004 | 1.51945 | 0.1996404 | 0.26683444 | 2.3895060 | 20 | — | — |
| 337797 2001 $UU_{207}$ | 17.2 | X | 84.05071 | 125.15211 | 184.00336 | 5.29020 | 0.1516146 | 0.26847213 | 2.3797787 | 20 | 12 31.2 | 20.8 |
| 337798 2001 $UY_{210}$ | 15.8 | X | 188.00416 | 133.63786 | 220.76351 | 10.09264 | 0.0667582 | 0.18233947 | 3.0799873 | 20 | 3 4.9 | 20.6 |
| 337799 2001 $UC_{211}$ | 15.7 | X | 163.58356 | 140.54420 | 218.42365 | 9.80472 | 0.0711207 | 0.17895838 | 3.1186600 | 20 | 2 14.4 | 20.5 |
| 337800 2001 $UR_{212}$ | 15.7 | X | 170.33375 | 132.71005 | 206.93511 | 9.32684 | 0.0745712 | 0.17629909 | 3.1499428 | 20 | 1 31.1 | 20.7 |
| 337801 2001 $UG_{213}$ | 17.7 | X | 42.15275 | 133.24852 | 233.37112 | 4.03157 | 0.1630821 | 0.26942493 | 2.3741648 | 20 | — | — |
| 337802 2001 $UD_{214}$ | 17.9 | X | 330.52598 | 200.26248 | 211.34351 | 1.06609 | 0.1756726 | 0.26215991 | 2.4178269 | 20 | 12 15.7 | 20.0 |
| 337803 2001 $UD_{216}$ | 17.0 | X | 12.17734 | 16.62899 | 12.49100 | 5.95501 | 0.1892292 | 0.26603644 | 2.3942820 | 20 | — | — |
| 337804 2001 $UN_{216}$ | 12.9 | X | 329.05175 | 223.05898 | 40.75569 | 24.64606 | 0.0318249 | 0.08275753 | 5.2151206 | 20 | 5 7.5 | 19.7 |
| 337805 2001 $UN_{219}$ | 16.5 | X | 125.42525 | 47.18013 | 6.07659 | 0.87049 | 0.1908909 | 0.17819936 | 3.1275094 | 20 | 3 25.3 | 21.3 |
| 337806 2001 $UV_{222}$ | 15.6 | X | 50.78471 | 196.08576 | 242.49581 | 12.14587 | 0.0538653 | 0.16881828 | 3.2423239 | 20 | 1 7.3 | 20.1 |
| 337807 2001 $UU_{224}$ | 15.9 | X | 172.42129 | 122.00807 | 238.58802 | 26.08059 | 0.1680468 | 0.18061562 | 3.0995538 | 20 | 2 22.5 | 21.5 |
| 337808 2001 $UK_{226}$ | 15.7 | X | 197.94257 | 316.43193 | 41.76570 | 10.36726 | 0.1126781 | 0.18567799 | 3.0429566 | 20 | 3 26.6 | 20.5 |
| 337809 2001 $UG_{227}$ | 15.9 | X | 207.13646 | 266.64547 | 42.78840 | 12.12694 | 0.1393846 | 0.18121502 | 3.0927152 | 20 | 2 8.2 | 21.1 |
| 337810 2001 $UT_{227}$ | 17.9 | X | 322.57855 | 201.97336 | 264.00499 | 1.75132 | 0.1564751 | 0.26854808 | 2.3793300 | 20 | — | — |
| 337811 2001 $UD_{228}$ | 17.2 | X | 119.51448 | 39.49420 | 242.59897 | 2.02959 | 0.1643330 | 0.26970399 | 2.3725269 | 20 | 12 31.6 | 20.9 |
| 337812 2001 $UV_{229}$ | 17.7 | X | 116.89043 | 191.91911 | 92.54084 | 3.39657 | 0.1914792 | 0.27203042 | 2.3589808 | 20 | — | — |
| 337813 2001 $UX_{229}$ | 16.0 | X | 203.86079 | 134.27816 | 161.83802 | 10.27319 | 0.0681418 | 0.17898422 | 3.1183597 | 20 | 1 15.7 | 20.8 |
| 337814 2001 $VG_{2}$ | 16.3 | X | 98.55136 | 53.24133 | 47.17367 | 15.57545 | 0.3033494 | 0.17922371 | 3.1155812 | 20 | 5 7.1 | 21.2 |
| 337815 2001 $VZ_{2}$ | 16.9 | X | 45.49229 | 120.35995 | 245.64158 | 3.86406 | 0.2162335 | 0.26850798 | 2.3795669 | 20 | — | — |
| 337816 2001 $VX_{5}$ | 17.5 | X | 347.64605 | 310.18092 | 130.55667 | 1.98108 | 0.1596061 | 0.26770084 | 2.3843476 | 20 | — | — |
| 337817 2001 $VL_{6}$ | 16.1 | X | 204.41908 | 294.30750 | 35.49000 | 6.47282 | 0.2938219 | 0.18389250 | 3.0626218 | 20 | 2 25.6 | 21.7 |
| 337818 2001 $VH_{10}$ | 15.8 | X | 132.71656 | 197.60968 | 208.11034 | 8.58285 | 0.1081931 | 0.17913324 | 3.1166301 | 20 | 3 13.1 | 20.5 |
| 337819 2001 $VV_{13}$ | 15.5 | X | 103.83047 | 25.86347 | 36.59451 | 18.28135 | 0.1844863 | 0.17526837 | 3.1622802 | 20 | 3 21.8 | 20.3 |
| 337820 2001 $VA_{18}$ | 15.5 | X | 116.11719 | 347.54386 | 35.88180 | 9.66607 | 0.2250220 | 0.17484171 | 3.1674227 | 20 | 2 18.6 | 20.4 |
| 337821 2001 $VG_{21}$ | 15.5 | X | 139.36216 | 151.06972 | 232.77667 | 9.69427 | 0.2461832 | 0.17776347 | 3.1326200 | 20 | 3 4.2 | 20.8 |
| 337822 2001 $VR_{23}$ | 15.1 | X | 156.87345 | 349.40934 | 48.75696 | 15.98100 | 0.1229544 | 0.18041084 | 3.1018988 | 20 | 4 6.7 | 20.1 |
| 337823 2001 $VW_{25}$ | 17.0 | X | 314.03883 | 55.27295 | 45.50851 | 3.36221 | 0.1482346 | 0.26375247 | 2.4080843 | 20 | — | — |
| 337824 2001 $VG_{28}$ | 16.8 | X | 15.10454 | 309.72164 | 60.16846 | 7.09649 | 0.1230047 | 0.26187570 | 2.4195759 | 20 | 12 24.7 | 19.7 |
| 337825 2001 $VV_{28}$ | 17.5 | X | 59.14666 | 192.21732 | 240.39012 | 2.50861 | 0.2039576 | 0.27574494 | 2.3377479 | 20 | — | — |
| 337826 2001 $VD_{38}$ | 15.2 | X | 90.63293 | 223.68512 | 239.16916 | 20.17272 | 0.1123568 | 0.17836722 | 3.1255469 | 20 | 4 1.1 | 19.8 |
| 337827 2001 $VE_{39}$ | 14.9 | X | 79.97895 | 228.95562 | 243.38939 | 25.99152 | 0.1104744 | 0.17719566 | 3.1393085 | 20 | 3 28.0 | 19.7 |
| 337828 2001 $VQ_{41}$ | 17.5 | X | 23.82890 | 94.54001 | 298.39040 | 1.36160 | 0.2105887 | 0.26708889 | 2.3879882 | 20 | — | — |
| 337829 2001 $VE_{49}$ | 16.3 | X | 305.45886 | 44.84999 | 76.41974 | 13.78521 | 0.2060699 | 0.26240277 | 2.4163348 | 20 | — | — |
| 337830 2001 $VF_{53}$ | 17.4 | X | 1.25789 | 117.06978 | 274.01601 | 5.62537 | 0.1752601 | 0.26449747 | 2.4035604 | 20 | — | — |
| 337831 2001 $VR_{56}$ | 16.3 | X | 312.77447 | 99.87454 | 341.08018 | 6.23902 | 0.0874805 | 0.26313432 | 2.4118542 | 20 | 12 20.2 | 18.9 |
| 337832 2001 $VH_{57}$ | 13.0 | X | 261.88870 | 117.92172 | 218.48246 | 30.89853 | 0.0645865 | 0.08258092 | 5.2225534 | 20 | 5 9.9 | 20.0 |
| 337833 2001 $VS_{57}$ | 15.8 | X | 119.79114 | 49.62515 | 35.33886 | 16.66033 | 0.2763070 | 0.18012255 | 3.1052077 | 20 | 5 3.2 | 20.9 |
| 337834 2001 $VU_{60}$ | 17.6 | X | 293.92822 | 162.53480 | 238.34268 | 17.73529 | 0.1348797 | 0.36114850 | 1.9528947 | 20 | 10 1.8 | 19.2 |
| 337835 2001 $VG_{61}$ | 15.5 | X | 153.60139 | 105.97830 | 270.61614 | 8.76235 | 0.1419490 | 0.17841677 | 3.1249682 | 20 | 2 29.3 | 20.6 |
| 337836 2001 $VE_{69}$ | 15.4 | X | 281.67078 | 233.25281 | 49.07415 | 10.14393 | 0.0449702 | 0.18337444 | 3.0683874 | 20 | 3 31.6 | 19.8 |
| 337837 2001 $VS_{71}$ | 14.9 | X | 170.80442 | 131.62883 | 249.51514 | 14.73852 | 0.0774736 | 0.17734180 | 3.1375836 | 20 | 3 16.8 | 20.0 |
| 337838 2001 $VZ_{72}$ | 15.8 | X | 210.73863 | 103.46729 | 223.20938 | 10.62580 | 0.0595393 | 0.18066967 | 3.0989355 | 20 | 2 24.5 | 20.6 |
| 337839 2001 $VQ_{74}$ | 16.7 | X | 148.11149 | 359.93653 | 27.69197 | 0.16198 | 0.2025323 | 0.17924785 | 3.1153015 | 20 | 3 16.6 | 21.8 |
| 337840 2001 $VT_{75}$ | 17.7 | X | 29.02785 | 81.73964 | 265.86991 | 0.45857 | 0.1975698 | 0.26453051 | 2.4033602 | 20 | 12 26.1 | 20.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337841 2001 $VA_{76}$ | 18.1 | X | 201.02337 | 123.33363 | 21.42868 | 6.94424 | 0.2702168 | 0.36031824 | 1.9558936 | 20 | 9 29.7 | 20.6 |
| 337842 2001 $VH_{80}$ | 15.3 | X | 100.04668 | 26.88548 | 31.75037 | 28.26664 | 0.1849205 | 0.17586757 | 3.1550933 | 20 | 3 19.8 | 20.2 |
| 337843 2001 $VE_{81}$ | 14.9 | X | 142.58739 | 158.40516 | 237.36478 | 16.59129 | 0.2093069 | 0.18022848 | 3.1039908 | 20 | 3 15.9 | 20.3 |
| 337844 2001 $VA_{84}$ | 15.5 | X | 130.10101 | 102.11281 | 285.68896 | 13.27826 | 0.2443045 | 0.17635807 | 3.1492404 | 20 | 2 27.9 | 20.8 |
| 337845 2001 $VE_{90}$ | 16.4 | X | 351.28615 | 33.24447 | 67.54757 | 25.03400 | 0.2612198 | 0.26909320 | 2.3761156 | 20 | — | — |
| 337846 2001 $VR_{94}$ | 15.1 | X | 116.72429 | 213.68327 | 194.39019 | 14.90808 | 0.2813468 | 0.17532461 | 3.1616039 | 20 | 3 19.0 | 20.3 |
| 337847 2001 $VE_{95}$ | 15.8 | X | 139.45339 | 230.05653 | 200.61868 | 15.36467 | 0.2708957 | 0.17998417 | 3.1067992 | 20 | 5 4.2 | 21.2 |
| 337848 2001 $VZ_{95}$ | 15.3 | X | 114.55854 | 259.76843 | 103.71634 | 18.11694 | 0.2364448 | 0.17185594 | 3.2040038 | 20 | 1 22.9 | 20.1 |
| 337849 2001 $VH_{101}$ | 15.4 | X | 137.10688 | 0.93710 | 28.27274 | 9.75979 | 0.0832318 | 0.17760914 | 3.1344343 | 20 | 3 1.9 | 20.2 |
| 337850 2001 $VY_{101}$ | 15.3 | X | 74.35171 | 183.10460 | 256.38876 | 8.59196 | 0.0919000 | 0.17358536 | 3.1826874 | 20 | 2 10.5 | 19.8 |
| 337851 2001 $VM_{102}$ | 15.3 | X | 198.74557 | 96.28489 | 250.04644 | 9.07034 | 0.0470438 | 0.17966606 | 3.1104653 | 20 | 3 6.1 | 20.1 |
| 337852 2001 $VF_{104}$ | 15.9 | X | 115.47421 | 33.73694 | 42.93080 | 10.85695 | 0.2107490 | 0.17841428 | 3.1249973 | 20 | 4 16.5 | 20.7 |
| 337853 2001 $VF_{107}$ | 17.7 | X | 335.18800 | 71.14342 | 353.57972 | 2.22049 | 0.2194947 | 0.26322926 | 2.4112743 | 20 | — | — |
| 337854 2001 $VZ_{110}$ | 16.6 | X | 3.04180 | 320.55225 | 36.99060 | 6.87870 | 0.2233942 | 0.26010791 | 2.4305264 | 20 | 12 4.1 | 19.1 |
| 337855 2001 $VC_{114}$ | 16.5 | X | 35.67806 | 86.07901 | 281.94904 | 4.34726 | 0.1674871 | 0.26509275 | 2.3999608 | 20 | — | — |
| 337856 2001 $VA_{122}$ | 16.1 | X | 103.32918 | 302.11040 | 129.30472 | 7.51269 | 0.2768218 | 0.17681230 | 3.1438445 | 20 | 4 7.1 | 21.0 |
| 337857 2001 $VW_{123}$ | 17.7 | X | 330.98439 | 25.36478 | 33.47739 | 2.79196 | 0.1946845 | 0.26234022 | 2.4167189 | 20 | 12 30.2 | 19.6 |
| 337858 2001 $VP_{125}$ | 15.9 | X | 148.75656 | 132.41295 | 238.11336 | 10.24868 | 0.0843794 | 0.17657707 | 3.1466361 | 20 | 2 13.1 | 20.8 |
| 337859 2001 $VC_{128}$ | 16.0 | X | 92.97067 | 301.11963 | 136.39884 | 8.15607 | 0.1752966 | 0.17753388 | 3.1353201 | 20 | 3 20.4 | 20.4 |
| 337860 2001 $VY_{128}$ | 12.8 | X | 302.29751 | 240.96934 | 59.50532 | 26.58059 | 0.0770343 | 0.08472400 | 5.1341092 | 20 | 5 15.5 | 19.4 |
| 337861 2001 $VH_{129}$ | 17.4 | X | 52.70286 | 190.45625 | 149.27965 | 8.68910 | 0.1950392 | 0.26691187 | 2.3890438 | 20 | — | — |
| 337862 2001 $VG_{130}$ | 15.8 | X | 266.81261 | 28.35948 | 205.01585 | 30.13111 | 0.1592613 | 0.17268880 | 3.1936937 | 20 | — | — |
| 337863 2001 $VJ_{132}$ | 13.8 | X | 207.12411 | 261.65985 | 126.22793 | 12.64143 | 0.1118596 | 0.08167141 | 5.2612548 | 20 | 5 12.8 | 21.3 |
| 337864 2001 $WT_{2}$ | 16.4 | X | 74.64334 | 121.04915 | 352.50190 | 1.66361 | 0.2128456 | 0.17826012 | 3.1267987 | 20 | 4 13.3 | 20.4 |
| 337865 2001 $WT_{10}$ | 15.3 | X | 154.68094 | 130.98882 | 226.40808 | 19.20455 | 0.0975981 | 0.17529232 | 3.1619921 | 20 | 2 2.6 | 20.5 |
| 337866 2001 $WL_{15}$ | 18.8 | X | 198.82855 | 14.50202 | 112.16630 | 6.94574 | 0.4750520 | 0.35179490 | 1.9873592 | 20 | 8 20.7 | 22.5 |
| 337867 2001 $WE_{19}$ | 16.0 | X | 143.60740 | 15.03468 | 37.40358 | 8.26798 | 0.1693598 | 0.18155537 | 3.0888488 | 20 | 4 9.7 | 21.0 |
| 337868 2001 $WM_{26}$ | 17.2 | X | 354.24214 | 193.64630 | 223.90491 | 5.63517 | 0.1321666 | 0.26558080 | 2.3970197 | 20 | — | — |
| 337869 2001 $WO_{26}$ | 17.7 | X | 349.52732 | 220.73738 | 222.16080 | 4.43502 | 0.1999301 | 0.26739400 | 2.3861713 | 20 | — | — |
| 337870 2001 $WG_{35}$ | 15.4 | X | 123.64175 | 311.50975 | 81.53879 | 10.03096 | 0.1006732 | 0.17437526 | 3.1730687 | 20 | 2 23.0 | 20.2 |
| 337871 2001 $WA_{42}$ | 16.4 | X | 113.18975 | 347.01677 | 68.06889 | 6.17244 | 0.1772644 | 0.17696757 | 3.1420054 | 20 | 3 17.0 | 21.1 |
| 337872 2001 $WD_{46}$ | 17.6 | X | 357.04281 | 35.70037 | 19.25572 | 1.70249 | 0.1424630 | 0.26536350 | 2.3983281 | 20 | — | — |
| 337873 2001 $WL_{51}$ | 17.8 | X | 358.13392 | 59.87778 | 335.94572 | 1.09216 | 0.1853272 | 0.26473963 | 2.4020944 | 20 | — | — |
| 337874 2001 $WP_{51}$ | 13.1 | X | 256.42947 | 113.38039 | 218.57101 | 24.93229 | 0.0197849 | 0.08149713 | 5.2687529 | 20 | 5 4.6 | 20.0 |
| 337875 2001 $WJ_{52}$ | 16.0 | X | 104.30684 | 196.45427 | 222.69252 | 7.07237 | 0.0082840 | 0.17723471 | 3.1388474 | 20 | 2 12.4 | 20.5 |
| 337876 2001 $WB_{53}$ | 13.5 | X | 265.95770 | 117.19401 | 228.32209 | 24.35450 | 0.0725709 | 0.08379088 | 5.1721551 | 20 | 5 23.6 | 20.4 |
| 337877 2001 $WV_{60}$ | 15.5 | X | 56.23321 | 201.07308 | 237.72525 | 15.73337 | 0.1174734 | 0.17054366 | 3.2204186 | 20 | 1 17.8 | 19.9 |
| 337878 2001 $WY_{60}$ | 15.3 | X | 138.25440 | 291.27499 | 49.39745 | 13.61916 | 0.1381719 | 0.17138215 | 3.2099061 | 20 | 1 10.0 | 20.4 |
| 337879 2001 $WV_{67}$ | 16.1 | X | 83.77238 | 29.43493 | 65.30447 | 2.13997 | 0.1579426 | 0.17709631 | 3.1404825 | 20 | 3 26.2 | 20.3 |
| 337880 2001 $WG_{70}$ | 13.4 | X | 283.26914 | 272.17091 | 52.80734 | 24.78321 | 0.0928455 | 0.08336961 | 5.1895638 | 20 | 5 16.4 | 20.2 |
| 337881 2001 $WS_{71}$ | 15.5 | X | 11.87182 | 138.67399 | 56.49227 | 17.77138 | 0.0433693 | 0.18205832 | 3.0831574 | 20 | 4 14.2 | 19.8 |
| 337882 2001 $WS_{75}$ | 16.4 | X | 94.75495 | 345.32791 | 86.65293 | 2.80639 | 0.1937808 | 0.17533867 | 3.1614349 | 20 | 3 17.5 | 20.9 |
| 337883 2001 $WH_{81}$ | 17.1 | X | 295.50060 | 42.50736 | 73.89558 | 7.71145 | 0.0620566 | 0.26367866 | 2.4085337 | 20 | — | — |
| 337884 2001 $WL_{81}$ | 17.6 | X | 322.31174 | 259.32922 | 228.44289 | 4.63995 | 0.1584395 | 0.26775839 | 2.3840059 | 20 | — | — |
| 337885 2001 $WF_{93}$ | 16.8 | X | 32.46624 | 230.24938 | 139.84571 | 6.01792 | 0.2063985 | 0.26595948 | 2.3947438 | 20 | — | — |
| 337886 2001 $WV_{94}$ | 16.5 | X | 74.21594 | 333.09829 | 89.60995 | 1.94004 | 0.2045212 | 0.17226868 | 3.1988841 | 20 | 2 9.7 | 20.6 |
| 337887 2001 $WJ_{97}$ | 17.1 | X | 238.32386 | 106.39956 | 66.94018 | 5.16170 | 0.1292797 | 0.26264219 | 2.4148661 | 20 | 12 22.9 | 20.0 |
| 337888 2001 $WP_{97}$ | 17.4 | X | 51.94051 | 286.44976 | 74.21353 | 4.69745 | 0.2242655 | 0.26916149 | 2.3757137 | 20 | — | — |
| 337889 2001 $WF_{98}$ | 18.0 | X | 348.63723 | 197.63302 | 252.02409 | 2.52500 | 0.1489081 | 0.26878714 | 2.3779190 | 20 | — | — |
| 337890 2001 $WO_{101}$ | 16.8 | X | 188.50126 | 176.46084 | 63.15423 | 6.99653 | 0.0902964 | 0.26706936 | 2.3881045 | 20 | — | — |
| 337891 2001 $WA_{102}$ | 18.1 | X | 15.56716 | 208.56054 | 190.81562 | 1.24392 | 0.1818261 | 0.26642056 | 2.3919801 | 20 | — | — |
| 337892 2001 $WH_{102}$ | 17.5 | X | 20.79482 | 303.42787 | 71.61958 | 3.40940 | 0.2022895 | 0.26486864 | 2.4013144 | 20 | — | — |
| 337893 2001 $XK_{1}$ | 16.1 | X | 101.19511 | 280.16400 | 263.28813 | 35.25570 | 0.1727477 | 0.35206395 | 1.9863465 | 20 | 7 29.7 | 19.6 |
| 337894 2001 $XU_{6}$ | 16.3 | X | 5.91649 | 111.23726 | 273.41116 | 22.87133 | 0.2734388 | 0.26258422 | 2.4152215 | 20 | — | — |
| 337895 2001 $XP_{8}$ | 17.4 | X | 340.08938 | 68.37206 | 16.67227 | 6.23201 | 0.1686770 | 0.26500409 | 2.4004960 | 20 | — | — |
| 337896 2001 $XH_{35}$ | 15.5 | X | 101.13100 | 142.36513 | 282.77385 | 15.87234 | 0.1102582 | 0.17540260 | 3.1606666 | 20 | 2 25.0 | 20.3 |
| 337897 2001 $XF_{51}$ | 15.4 | X | 130.98577 | 310.64478 | 68.99978 | 10.20909 | 0.2021099 | 0.17503758 | 3.1650593 | 20 | 2 26.2 | 20.5 |
| 337898 2001 $XC_{56}$ | 15.8 | X | 126.58587 | 301.81333 | 86.65547 | 15.02303 | 0.3072529 | 0.17529884 | 3.1619138 | 20 | 3 15.4 | 21.3 |
| 337899 2001 $XE_{69}$ | 15.2 | X | 84.25361 | 13.47371 | 62.69698 | 15.10112 | 0.1695990 | 0.17482266 | 3.1676527 | 20 | 3 13.3 | 19.8 |
| 337900 2001 $XP_{69}$ | 15.2 | X | 78.40649 | 187.12521 | 230.00952 | 25.96444 | 0.1448662 | 0.17171162 | 3.2057988 | 20 | 1 21.8 | 20.0 |
| 337901 2001 $XQ_{70}$ | 15.4 | X | 118.98200 | 342.07685 | 75.20039 | 24.55580 | 0.1607562 | 0.17753146 | 3.1353486 | 20 | 4 3.9 | 20.6 |
| 337902 2001 $XV_{70}$ | 15.6 | X | 64.95689 | 259.17361 | 208.65609 | 11.40011 | 0.2019762 | 0.17419939 | 3.1752040 | 20 | 3 20.0 | 19.7 |
| 337903 2001 $XV_{76}$ | 17.2 | X | 243.71962 | 254.51716 | 214.35680 | 3.88521 | 0.1372462 | 0.25447061 | 2.4662909 | 20 | 9 30.3 | 20.3 |
| 337904 2001 $XO_{84}$ | 17.3 | X | 13.37990 | 288.62536 | 106.50626 | 5.11328 | 0.2241753 | 0.26500072 | 2.4005164 | 20 | — | — |
| 337905 2001 $XP_{89}$ | 15.8 | X | 168.51416 | 89.81250 | 236.32389 | 9.64643 | 0.4271015 | 0.17989228 | 3.1078570 | 20 | 1 28.9 | 22.0 |
| 337906 2001 $XW_{89}$ | 18.2 | X | 350.82155 | 48.55098 | 19.43037 | 2.29879 | 0.2011883 | 0.26582878 | 2.3955287 | 20 | — | — |
| 337907 2001 $XA_{94}$ | 17.1 | X | 9.16457 | 300.40225 | 38.66151 | 3.87711 | 0.2062237 | 0.25877276 | 2.4388795 | 20 | 11 15.4 | 19.7 |
| 337908 2001 $XH_{94}$ | 15.5 | X | 136.73619 | 308.47725 | 53.24291 | 5.57647 | 0.1536729 | 0.17344152 | 3.1844469 | 20 | 2 3.8 | 20.4 |
| 337909 2001 $XA_{106}$ | 17.6 | X | 359.51805 | 341.14015 | 96.26696 | 2.16843 | 0.1816061 | 0.26768831 | 2.3844220 | 20 | — | — |
| 337910 2001 $XA_{111}$ | 17.3 | X | 47.31388 | 0.01524 | 97.20748 | 7.40196 | 0.1401449 | 0.27688562 | 2.3313230 | 20 | 1 8.6 | 19.2 |
| 337911 2001 $XQ_{123}$ | 17.6 | X | 286.08595 | 49.04488 | 72.64146 | 3.00560 | 0.1700651 | 0.26199674 | 2.4188306 | 20 | 12 26.3 | 19.8 |
| 337912 2001 $XO_{125}$ | 15.5 | X | 140.97975 | 140.30158 | 231.91730 | 8.38936 | 0.0960466 | 0.17444960 | 3.1721671 | 20 | 2 9.3 | 20.5 |
| 337913 2001 $XS_{125}$ | 17.2 | X | 57.10974 | 161.05776 | 203.50830 | 1.82536 | 0.1868198 | 0.26844673 | 2.3799288 | 20 | — | — |
| 337914 2001 $XW_{128}$ | 16.1 | X | 100.55275 | 330.16700 | 121.12640 | 2.69514 | 0.1870853 | 0.17693692 | 3.1423682 | 20 | 4 15.3 | 20.7 |
| 337915 2001 $XA_{133}$ | 17.6 | X | 357.08240 | 291.80891 | 109.20971 | 3.57692 | 0.1652144 | 0.26300555 | 2.4126414 | 20 | — | — |
| 337916 2001 $XJ_{136}$ | 15.7 | X | 64.93236 | 214.86038 | 258.70559 | 4.22831 | 0.1125917 | 0.17395560 | 3.1781699 | 20 | 3 14.6 | 19.9 |
| 337917 2001 $XP_{136}$ | 15.3 | X | 88.69896 | 347.71634 | 82.59632 | 11.34422 | 0.0828415 | 0.17234358 | 3.1979571 | 20 | 2 25.1 | 19.9 |
| 337918 2001 $XZ_{167}$ | 17.5 | X | 323.65476 | 290.31091 | 141.29431 | 3.09568 | 0.1790568 | 0.26026733 | 2.4295338 | 20 | 12 30.9 | 19.5 |
| 337919 2001 $XD_{186}$ | 17.2 | X | 356.28814 | 299.83816 | 132.45509 | 3.04944 | 0.2136083 | 0.26460126 | 2.4029318 | 20 | — | — |
| 337920 2001 $XW_{210}$ | 16.7 | X | 273.97755 | 250.58873 | 172.02273 | 4.94520 | 0.2380810 | 0.25196664 | 2.4826034 | 20 | 8 22.9 | 19.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 337921 2001 $XP_{220}$ | 17.1 | X | 34.33909 | 73.29450 | 289.17907 | 3.87905 | 0.2484401 | 0.26561329 | 2.3968242 | 20 | — | — |
| 337922 2001 $XK_{225}$ | 17.1 | X | 249.96360 | 236.71362 | 266.65254 | 3.70391 | 0.1685717 | 0.25879163 | 2.4387609 | 20 | 11 21.4 | 19.9 |
| 337923 2001 $XN_{226}$ | 16.0 | X | 86.69714 | 169.17936 | 270.59721 | 8.75327 | 0.2270300 | 0.17362811 | 3.1821650 | 20 | 3 16.0 | 20.6 |
| 337924 2001 $XL_{236}$ | 17.1 | X | 343.38621 | 3.68992 | 16.34253 | 2.75568 | 0.1992041 | 0.25823610 | 2.4422573 | 20 | 11 25.3 | 19.2 |
| 337925 2001 $XR_{237}$ | 16.8 | X | 351.77826 | 16.72030 | 52.60248 | 7.28856 | 0.0878379 | 0.26517437 | 2.3994683 | 20 | — | — |
| 337926 2001 $XV_{241}$ | 18.3 | X | 349.01872 | 144.11249 | 263.64537 | 0.57499 | 0.1876668 | 0.26276188 | 2.4141327 | 20 | — | — |
| 337927 2001 $XX_{243}$ | 15.3 | X | 132.01509 | 120.87505 | 231.61030 | 14.60831 | 0.1265963 | 0.17314916 | 3.1880304 | 20 | 1 11.5 | 20.3 |
| 337928 2001 $XQ_{257}$ | 15.1 | X | 103.39750 | 133.22117 | 250.16801 | 15.19184 | 0.1776263 | 0.17390267 | 3.1788147 | 20 | 1 21.6 | 19.9 |
| 337929 2001 $XV_{265}$ | 16.2 | X | 93.16380 | 276.27349 | 145.52391 | 6.20064 | 0.2220971 | 0.17396681 | 3.1780333 | 20 | 3 6.9 | 20.6 |
| 337930 2001 $YL_{6}$ | 17.6 | X | 355.21782 | 283.26059 | 126.72926 | 9.61388 | 0.2976423 | 0.26467784 | 2.4024683 | 20 | — | — |
| 337931 2001 $YD_{7}$ | 16.2 | X | 119.78662 | 116.02154 | 302.50867 | 8.69164 | 0.2296409 | 0.17623371 | 3.1507218 | 20 | 3 25.8 | 21.3 |
| 337932 2001 $YV_{8}$ | 17.0 | X | 271.12164 | 70.40264 | 45.11569 | 5.50013 | 0.1299646 | 0.25662501 | 2.4524683 | 20 | 11 21.6 | 19.6 |
| 337933 2001 $YD_{14}$ | 16.8 | X | 312.97392 | 49.69911 | 42.51380 | 10.48985 | 0.0852953 | 0.26249819 | 2.4157491 | 20 | — | — |
| 337934 2001 $YH_{15}$ | 17.2 | X | 356.87978 | 307.95763 | 83.33063 | 3.59646 | 0.2218680 | 0.26132939 | 2.4229468 | 20 | — | — |
| 337935 2001 $YY_{21}$ | 18.1 | X | 338.08331 | 31.58742 | 42.85407 | 3.33374 | 0.2055463 | 0.26429889 | 2.4047642 | 20 | — | — |
| 337936 2001 $YC_{23}$ | 17.5 | X | 257.29084 | 147.89795 | 309.15638 | 1.36989 | 0.1752444 | 0.25461072 | 2.4653860 | 20 | 9 27.0 | 20.6 |
| 337937 2001 $YK_{23}$ | 17.6 | X | 326.07294 | 27.34064 | 24.34198 | 1.41387 | 0.1715842 | 0.25987578 | 2.4319735 | 20 | 12 4.7 | 19.7 |
| 337938 2001 $YA_{26}$ | 16.7 | X | 27.56969 | 81.94352 | 259.43375 | 3.49858 | 0.1388881 | 0.25968122 | 2.4331881 | 20 | 12 5.9 | 19.7 |
| 337939 2001 $YA_{50}$ | 17.1 | X | 353.24118 | 350.44432 | 62.43085 | 2.19331 | 0.1677514 | 0.26268226 | 2.4146205 | 20 | — | — |
| 337940 2001 $YX_{50}$ | 17.4 | X | 332.30379 | 162.54925 | 288.26758 | 4.21991 | 0.1948862 | 0.26361217 | 2.4089387 | 20 | — | — |
| 337941 2001 $YT_{66}$ | 17.6 | X | 320.65335 | 121.70594 | 304.18341 | 5.72928 | 0.1765646 | 0.25853882 | 2.4403505 | 20 | 12 14.6 | 19.7 |
| 337942 2001 $YH_{69}$ | 15.4 | X | 94.45088 | 234.94923 | 284.86685 | 11.52686 | 0.1513547 | 0.18050435 | 3.1008274 | 20 | 6 27.3 | 20.0 |
| 337943 2001 $YE_{97}$ | 15.8 | X | 153.47496 | 288.62324 | 91.39068 | 10.96557 | 0.2413158 | 0.17840984 | 3.1250491 | 20 | 3 19.8 | 21.3 |
| 337944 2001 $YH_{102}$ | 15.4 | X | 66.98985 | 215.27057 | 261.71743 | 17.63025 | 0.1157282 | 0.17305154 | 3.1892293 | 20 | 3 15.5 | 20.0 |
| 337945 2001 $YW_{123}$ | 16.9 | X | 53.22350 | 175.27837 | 274.16527 | 20.92043 | 0.1871361 | 0.27584169 | 2.3372013 | 20 | 1 9.3 | 18.7 |
| 337946 2001 $YE_{130}$ | 17.3 | X | 9.56680 | 96.15136 | 315.85476 | 6.61047 | 0.2114375 | 0.26416474 | 2.4055782 | 20 | — | — |
| 337947 2001 $YO_{134}$ | 15.4 | X | 119.86131 | 29.76754 | 33.14812 | 18.32773 | 0.1320947 | 0.17637502 | 3.1490387 | 20 | 3 30.8 | 20.2 |
| 337948 2001 $YV_{144}$ | 17.4 | X | 342.06161 | 83.31950 | 354.97126 | 4.61595 | 0.2004790 | 0.26224427 | 2.4173083 | 20 | — | — |
| 337949 2001 $YA_{155}$ | 17.5 | X | 314.21107 | 90.59930 | 324.01249 | 4.54445 | 0.1823321 | 0.25794386 | 2.4441016 | 20 | 11 10.0 | 19.5 |
| 337950 2001 $YN_{157}$ | 17.7 | X | 299.54873 | 337.86984 | 99.21412 | 3.53383 | 0.1671813 | 0.25516867 | 2.4617909 | 20 | 11 15.4 | 19.9 |
| 337951 2002 $AV_{30}$ | 17.4 | X | 292.87580 | 173.74895 | 270.35714 | 2.60133 | 0.1770499 | 0.25500707 | 2.4628307 | 20 | 11 9.2 | 19.5 |
| 337952 2002 $AK_{33}$ | 17.0 | X | 339.60600 | 312.76862 | 45.20943 | 3.30243 | 0.1033110 | 0.24795759 | 2.5092915 | 20 | 10 5.8 | 19.6 |
| 337953 2002 $AH_{64}$ | 17.0 | X | 283.12628 | 176.41032 | 273.16237 | 3.90883 | 0.1800309 | 0.25272342 | 2.4776449 | 20 | 10 26.8 | 19.6 |
| 337954 2002 $AH_{73}$ | 17.5 | X | 322.58625 | 30.50407 | 22.69244 | 2.74885 | 0.1814102 | 0.25703048 | 2.4498884 | 20 | 11 28.4 | 19.3 |
| 337955 2002 $AG_{76}$ | 16.2 | X | 118.73141 | 156.53617 | 100.99816 | 15.40416 | 0.0851444 | 0.25341108 | 2.4731606 | 20 | 11 29.3 | 19.9 |
| 337956 2002 $AD_{78}$ | 16.6 | X | 97.27335 | 154.08270 | 66.16709 | 3.50570 | 0.1505405 | 0.24261452 | 2.5459988 | 20 | 9 22.2 | 20.3 |
| 337957 2002 $AY_{93}$ | 16.6 | X | 295.52024 | 12.18363 | 84.46077 | 6.78278 | 0.0584487 | 0.25666629 | 2.4522053 | 20 | 12 12.5 | 19.4 |
| 337958 2002 $AN_{102}$ | 17.1 | X | 307.13034 | 118.60793 | 314.19283 | 9.56203 | 0.1154167 | 0.25544917 | 2.4599884 | 20 | 11 23.4 | 19.8 |
| 337959 2002 $AK_{105}$ | 16.2 | X | 102.40485 | 257.32804 | 297.24734 | 11.57826 | 0.1047660 | 0.23940148 | 2.5687283 | 20 | 8 15.2 | 20.0 |
| 337960 2002 $AA_{113}$ | 17.0 | X | 255.44333 | 33.13237 | 104.10530 | 6.43786 | 0.1505890 | 0.25402980 | 2.4691431 | 20 | 11 24.8 | 19.9 |
| 337961 2002 $AP_{132}$ | 17.1 | X | 336.37584 | 282.86770 | 111.50006 | 2.38560 | 0.1895726 | 0.25671035 | 2.4519247 | 20 | 12 1.5 | 19.1 |
| 337962 2002 $AZ_{156}$ | 16.1 | X | 127.05361 | 64.16265 | 150.69365 | 9.02852 | 0.0740948 | 0.24517211 | 2.5282616 | 20 | 10 13.2 | 19.8 |
| 337963 2002 $AF_{180}$ | 17.3 | X | 200.01404 | 50.97985 | 152.02589 | 1.46819 | 0.1287712 | 0.25563962 | 2.4587664 | 20 | 12 11.8 | 20.7 |
| 337964 2002 $AO_{197}$ | 15.7 | X | 134.51870 | 36.09368 | 42.03011 | 11.42511 | 0.1938800 | 0.17758524 | 3.1347155 | 20 | 5 2.5 | 20.6 |
| 337965 2002 $BZ_{22}$ | 15.5 | X | 139.12900 | 35.45133 | 357.36938 | 14.07747 | 0.2879239 | 0.17517686 | 3.1633814 | 20 | 3 20.7 | 21.0 |
| 337966 2002 $CG_{3}$ | 15.7 | X | 158.75710 | 62.95278 | 108.61833 | 8.57133 | 0.1906207 | 0.24224855 | 2.5485623 | 20 | 9 22.0 | 20.0 |
| 337967 2002 $CO_{3}$ | 15.9 | X | 122.06066 | 61.76853 | 35.17456 | 13.65858 | 0.2817880 | 0.17501529 | 3.1653280 | 20 | 5 18.9 | 21.3 |
| 337968 2002 $CX_{51}$ | 16.8 | X | 133.49785 | 220.61085 | 336.37333 | 5.37337 | 0.2268811 | 0.23900866 | 2.5715420 | 20 | 9 26.9 | 21.3 |
| 337969 2002 $CD_{53}$ | 17.0 | X | 293.00933 | 310.42573 | 162.41049 | 6.74740 | 0.2052699 | 0.25607452 | 2.4559818 | 20 | 12 22.5 | 19.0 |
| 337970 2002 $CA_{63}$ | 16.8 | X | 253.97470 | 85.24356 | 45.68588 | 7.41672 | 0.1105130 | 0.25218327 | 2.4811815 | 20 | 11 17.8 | 19.6 |
| 337971 2002 $CS_{80}$ | 16.3 | X | 59.57589 | 263.49725 | 333.75207 | 10.70691 | 0.1520127 | 0.23509267 | 2.6000198 | 20 | 8 28.3 | 19.7 |
| 337972 2002 $CQ_{87}$ | 16.8 | X | 124.42827 | 240.24674 | 333.28072 | 5.36305 | 0.0511874 | 0.24414341 | 2.5353585 | 20 | 10 2.1 | 20.3 |
| 337973 2002 $CH_{90}$ | 16.1 | X | 119.68685 | 225.89838 | 335.33910 | 14.23951 | 0.0739101 | 0.24023896 | 2.5627550 | 20 | 9 10.8 | 19.8 |
| 337974 2002 $CC_{104}$ | 16.2 | X | 101.76391 | 210.67329 | 344.68990 | 11.46470 | 0.1248125 | 0.23452666 | 2.6042014 | 20 | 8 22.4 | 19.9 |
| 337975 2002 $CS_{111}$ | 16.0 | X | 112.65398 | 174.30532 | 357.02206 | 28.72976 | 0.0989614 | 0.23229118 | 2.6208826 | 20 | 8 12.8 | 20.3 |
| 337976 2002 $CH_{112}$ | 16.2 | X | 326.11642 | 37.70568 | 167.43388 | 18.16455 | 0.2252970 | 0.21292454 | 2.7774883 | 20 | 1 16.7 | 20.1 |
| 337977 2002 $CG_{124}$ | 16.1 | X | 45.15017 | 294.45669 | 318.69751 | 9.61460 | 0.1314677 | 0.23700272 | 2.5860316 | 20 | 8 25.2 | 19.3 |
| 337978 2002 $CM_{126}$ | 16.9 | X | 94.01583 | 258.65899 | 317.03945 | 3.17993 | 0.1431246 | 0.23720685 | 2.5845478 | 20 | 9 8.6 | 20.6 |
| 337979 2002 $CM_{144}$ | 16.7 | X | 41.42214 | 25.60610 | 170.15829 | 4.59313 | 0.1886567 | 0.22606978 | 2.6687489 | 20 | 6 7.4 | 19.6 |
| 337980 2002 $CJ_{145}$ | 16.1 | X | 26.59597 | 58.95206 | 160.92020 | 18.03434 | 0.1916276 | 0.22586513 | 2.6703607 | 20 | 6 16.2 | 19.3 |
| 337981 2002 $CV_{166}$ | 16.9 | X | 134.64574 | 140.21110 | 35.85161 | 5.63455 | 0.1835704 | 0.23860317 | 2.5744547 | 20 | 9 4.8 | 21.1 |
| 337982 2002 $CE_{182}$ | 16.6 | X | 102.36669 | 132.32997 | 111.87665 | 4.18868 | 0.1632398 | 0.24430904 | 2.5342125 | 20 | 10 28.6 | 20.5 |
| 337983 2002 $CH_{189}$ | 17.3 | X | 298.42004 | 324.59955 | 98.10965 | 2.71472 | 0.1822560 | 0.25267940 | 2.4779326 | 20 | 10 19.9 | 19.4 |
| 337984 2002 $CY_{195}$ | 17.2 | X | 147.31400 | 26.99796 | 134.57266 | 4.49079 | 0.0636281 | 0.23981831 | 2.5657509 | 20 | 8 24.2 | 20.8 |
| 337985 2002 $CG_{200}$ | 17.4 | X | 300.37921 | 124.51829 | 339.69994 | 5.88867 | 0.1462479 | 0.25598537 | 2.4565519 | 20 | 12 28.9 | 19.7 |
| 337986 2002 $CU_{201}$ | 16.3 | X | 304.00973 | 5.50834 | 345.39700 | 7.51307 | 0.0861892 | 0.23831117 | 2.5765572 | 20 | 7 24.9 | 19.4 |
| 337987 2002 $CL_{220}$ | 17.0 | X | 193.84768 | 333.30384 | 146.16616 | 2.11111 | 0.1394282 | 0.24006703 | 2.5639784 | 20 | 8 17.4 | 21.0 |
| 337988 2002 $CF_{221}$ | 16.6 | X | 117.11877 | 191.19448 | 353.40158 | 13.74608 | 0.1819677 | 0.23498936 | 2.6007818 | 20 | 8 30.3 | 20.7 |
| 337989 2002 $CT_{241}$ | 16.9 | X | 164.08998 | 222.37555 | 293.21098 | 2.82885 | 0.1399415 | 0.23976834 | 2.5661074 | 20 | 9 2.1 | 20.9 |
| 337990 2002 $CR_{253}$ | 16.6 | X | 161.45978 | 61.24383 | 109.79754 | 6.20570 | 0.0824351 | 0.24512095 | 2.5286133 | 20 | 9 24.9 | 20.3 |
| 337991 2002 $CB_{284}$ | 17.9 | X | 257.55196 | 346.37684 | 157.14941 | 1.46101 | 0.1317143 | 0.25468069 | 2.4649344 | 20 | 12 8.6 | 20.5 |
| 337992 2002 $CJ_{294}$ | 16.5 | X | 130.11366 | 202.72820 | 355.78513 | 10.76009 | 0.2032314 | 0.24204620 | 2.5499825 | 20 | 9 26.1 | 20.8 |
| 337993 2002 $DU_{10}$ | 15.2 | X | 122.30452 | 73.92180 | 359.47565 | 25.30422 | 0.3558202 | 0.17533607 | 3.1614662 | 20 | 4 19.2 | 21.0 |
| 337994 2002 $DC_{18}$ | 16.9 | X | 167.97260 | 160.65927 | 342.67194 | 11.95288 | 0.1069554 | 0.23950738 | 2.5679710 | 20 | 8 24.4 | 20.7 |
| 337995 2002 $DZ_{18}$ | 16.3 | X | 155.16466 | 209.51962 | 3.74317 | 14.32523 | 0.1099796 | 0.24561008 | 2.5252551 | 20 | 11 2.3 | 20.3 |
| 337996 2002 $EE_{11}$ | 16.2 | X | 20.46869 | 230.54132 | 4.78283 | 13.02990 | 0.2110846 | 0.22419384 | 2.6836153 | 20 | 6 28.6 | 19.1 |
| 337997 2002 $EO_{19}$ | 13.0 | X | 234.53211 | 173.98934 | 309.35396 | 12.72938 | 0.0998949 | 0.08248479 | 5.2266105 | 20 | 9 14.9 | 20.3 |
| 337998 2002 $ER_{19}$ | 16.7 | X | 217.00929 | 124.16162 | 357.34764 | 30.05366 | 0.1150908 | 0.24376251 | 2.5379990 | 20 | 9 18.1 | 20.1 |
| 337999 2002 $EO_{22}$ | 16.5 | X | 273.02700 | 36.72917 | 50.48948 | 6.70915 | 0.0695857 | 0.24645200 | 2.5195007 | 20 | 10 23.9 | 19.5 |
| 338000 2002 $EK_{27}$ | 16.6 | X | 29.18759 | 212.64035 | 32.14750 | 3.59287 | 0.3552319 | 0.22595027 | 2.6696898 | 20 | 8 28.1 | 19.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338001 2002 $EK_{33}$ | 16.4 | X | 80.78256 | 190.77713 | 47.58871 | 4.79168 | 0.2027009 | 0.23669943 | 2.5882402 | 20 | 10 2.7 | 20.3 |
| 338002 2002 $EX_{50}$ | 16.9 | X | 298.49194 | 112.04607 | 356.44510 | 8.15090 | 0.2147273 | 0.25457077 | 2.4656439 | 20 | 12 28.5 | 18.9 |
| 338003 2002 $EK_{62}$ | 16.7 | X | 32.61366 | 57.97318 | 182.07330 | 10.28204 | 0.1660601 | 0.22889975 | 2.6467068 | 20 | 7 20.7 | 19.8 |
| 338004 2002 $EA_{73}$ | 16.3 | X | 173.46789 | 160.59457 | 1.70777 | 17.54412 | 0.0898893 | 0.23989803 | 2.5651825 | 20 | 9 23.2 | 20.0 |
| 338005 2002 $EO_{81}$ | 16.4 | X | 81.26554 | 241.26019 | 320.92145 | 6.69553 | 0.0460335 | 0.23294567 | 2.6159712 | 20 | 7 24.8 | 19.8 |
| 338006 2002 $EN_{106}$ | 16.0 | X | 355.56649 | 208.45751 | 76.57917 | 6.87071 | 0.0939188 | 0.23066029 | 2.6332221 | 20 | 7 15.0 | 18.9 |
| 338007 2002 $EH_{111}$ | 16.1 | X | 107.38845 | 128.88215 | 51.99606 | 5.94155 | 0.1052027 | 0.23292565 | 2.6161210 | 20 | 8 7.8 | 20.0 |
| 338008 2002 $EU_{114}$ | 16.5 | X | 85.86165 | 248.38285 | 10.78442 | 7.35755 | 0.1739776 | 0.23933158 | 2.5692284 | 20 | 10 27.9 | 20.5 |
| 338009 2002 $ED_{130}$ | 15.8 | X | 7.62769 | 294.63729 | 193.44737 | 15.89636 | 0.2981485 | 0.16059084 | 3.3521404 | 20 | — | — |
| 338010 2002 $EH_{140}$ | 17.0 | X | 160.60677 | 168.05039 | 354.43920 | 8.18126 | 0.0431795 | 0.24035107 | 2.5619580 | 20 | 9 10.3 | 20.4 |
| 338011 2002 $EE_{143}$ | 16.7 | X | 83.43746 | 191.10392 | 23.36033 | 3.32220 | 0.1114628 | 0.23375043 | 2.6099635 | 20 | 8 23.7 | 20.3 |
| 338012 2002 $EL_{147}$ | 16.9 | X | 105.56228 | 48.74359 | 153.28976 | 5.25742 | 0.0365911 | 0.23602484 | 2.5931695 | 20 | 8 23.8 | 20.3 |
| 338013 2002 $EN_{161}$ | 17.6 | X | 338.24967 | 199.64138 | 229.24573 | 5.64568 | 0.2791795 | 0.25889461 | 2.4381142 | 20 | — | — |
| 338014 2002 $ES_{162}$ | 16.9 | X | 31.90949 | 44.28114 | 197.70214 | 11.90322 | 0.1467602 | 0.22796766 | 2.6539163 | 20 | 7 18.5 | 20.2 |
| 338015 2002 $FE_{20}$ | 16.2 | X | 120.34798 | 93.32844 | 88.17372 | 8.90878 | 0.1576775 | 0.23606968 | 2.5928412 | 20 | 8 28.8 | 20.4 |
| 338016 2002 $FT_{21}$ | 17.1 | X | 170.18371 | 320.00984 | 209.08853 | 5.34888 | 0.1786681 | 0.24101611 | 2.5572430 | 20 | 9 23.9 | 21.3 |
| 338017 2002 $FA_{30}$ | 17.1 | X | 81.22925 | 25.45391 | 201.87988 | 3.69323 | 0.1393898 | 0.23431218 | 2.6057904 | 20 | 9 8.4 | 20.7 |
| 338018 2002 $FM_{41}$ | 17.3 | X | 78.15153 | 11.59046 | 189.54937 | 4.60464 | 0.1268687 | 0.22885401 | 2.6470594 | 20 | 7 29.1 | 21.0 |
| 338019 2002 $GT_{5}$ | 16.0 | X | 73.57530 | 228.67907 | 36.53259 | 13.39866 | 0.1358744 | 0.23752961 | 2.5822060 | 20 | 10 21.1 | 19.6 |
| 338020 2002 $GA_{47}$ | 16.4 | X | 39.04027 | 85.07990 | 187.94207 | 14.67847 | 0.1342933 | 0.23421651 | 2.6064999 | 20 | 9 12.6 | 19.6 |
| 338021 2002 $GZ_{60}$ | 16.8 | X | 15.54220 | 257.18905 | 40.95250 | 3.20541 | 0.0757417 | 0.23335551 | 2.6129073 | 20 | 9 5.9 | 19.9 |
| 338022 2002 $GV_{68}$ | 17.6 | X | 125.08821 | 294.79089 | 293.14955 | 3.44016 | 0.1977930 | 0.23921437 | 2.5700676 | 20 | 10 26.7 | 22.0 |
| 338023 2002 $GS_{93}$ | 16.5 | X | 139.62010 | 330.67948 | 214.17174 | 14.41556 | 0.0975178 | 0.23643398 | 2.5901771 | 20 | 9 10.9 | 20.6 |
| 338024 2002 $GX_{99}$ | 17.0 | X | 198.17371 | 159.35087 | 356.87522 | 6.77958 | 0.1648184 | 0.24333895 | 2.5409432 | 20 | 10 5.0 | 21.0 |
| 338025 2002 $GU_{135}$ | 17.2 | X | 113.25678 | 261.24531 | 292.08843 | 1.09790 | 0.1252684 | 0.23344115 | 2.6122682 | 20 | 8 29.9 | 20.9 |
| 338026 2002 $GR_{145}$ | 16.1 | X | 251.09046 | 89.27062 | 10.56338 | 14.25001 | 0.0192579 | 0.24015059 | 2.5633837 | 20 | 10 12.9 | 19.4 |
| 338027 2002 $GV_{148}$ | 16.6 | X | 272.32590 | 107.63047 | 334.08101 | 3.82567 | 0.0397785 | 0.24204991 | 2.5499564 | 20 | 10 15.5 | 19.9 |
| 338028 2002 $GQ_{152}$ | 16.2 | X | 285.18476 | 94.68042 | 168.45885 | 15.79557 | 0.2553034 | 0.21151086 | 2.7898505 | 20 | 2 5.5 | 20.7 |
| 338029 2002 $GF_{164}$ | 16.5 | X | 104.53809 | 191.82839 | 27.32917 | 13.74276 | 0.0944985 | 0.23515524 | 2.5995586 | 20 | 9 25.1 | 20.3 |
| 338030 2002 $GH_{172}$ | 16.3 | X | 354.69476 | 256.03006 | 27.94644 | 13.17279 | 0.1529517 | 0.22735204 | 2.6587050 | 20 | 7 15.2 | 19.3 |
| 338031 2002 $GJ_{179}$ | 15.3 | X | 232.27110 | 248.09381 | 73.15959 | 20.71432 | 0.2982615 | 0.21266896 | 2.7797131 | 20 | 3 11.0 | 20.7 |
| 338032 2002 $GZ_{180}$ | 17.3 | X | 16.19181 | 82.93734 | 170.66758 | 8.30861 | 0.2009066 | 0.22480800 | 2.6787255 | 20 | 7 13.9 | 20.0 |
| 338033 2002 $HW_{5}$ | 16.7 | X | 103.42037 | 148.77432 | 33.60471 | 2.85592 | 0.1438745 | 0.23116535 | 2.6293852 | 20 | 8 8.1 | 20.6 |
| 338034 2002 $JK_{30}$ | 16.1 | X | 17.89340 | 192.79832 | 56.47552 | 10.00817 | 0.1290947 | 0.22298481 | 2.6933070 | 20 | 7 4.3 | 19.1 |
| 338035 2002 $JL_{53}$ | 16.3 | X | 345.78494 | 259.64711 | 31.15318 | 12.95834 | 0.2625897 | 0.22287248 | 2.6942119 | 20 | 6 28.5 | 18.6 |
| 338036 2002 $JN_{58}$ | 15.8 | X | 25.66768 | 193.40363 | 48.62853 | 13.64323 | 0.1270454 | 0.22252319 | 2.6970306 | 20 | 7 8.2 | 19.1 |
| 338037 2002 $JH_{70}$ | 16.0 | X | 0.25584 | 212.58906 | 79.44421 | 14.92231 | 0.2438346 | 0.22528553 | 2.6749388 | 20 | 8 19.6 | 18.6 |
| 338038 2002 $JA_{77}$ | 16.2 | X | 23.66859 | 225.31083 | 26.59180 | 13.62966 | 0.0679332 | 0.22760838 | 2.6567084 | 20 | 7 14.9 | 19.7 |
| 338039 2002 $JO_{81}$ | 16.5 | X | 83.18565 | 359.21550 | 220.11893 | 12.66692 | 0.1608227 | 0.23134248 | 2.6280430 | 20 | 8 29.7 | 20.5 |
| 338040 2002 $JD_{85}$ | 16.4 | X | 13.82126 | 213.59581 | 44.25291 | 10.69993 | 0.1004645 | 0.22454492 | 2.6808174 | 20 | 7 7.7 | 19.6 |
| 338041 2002 $JW_{149}$ | 16.8 | X | 172.39320 | 57.89621 | 77.94709 | 6.68765 | 0.0692726 | 0.23251966 | 2.6191654 | 20 | 8 20.8 | 20.6 |
| 338042 2002 $LS$ | 17.3 | X | 73.15700 | 121.41509 | 191.39439 | 22.67773 | 0.0611616 | 0.40160139 | 1.8194463 | 20 | — | — |
| 338043 2002 $LZ$ | 16.2 | X | 332.35958 | 173.70400 | 93.39822 | 10.07668 | 0.1135297 | 0.21830154 | 2.7316906 | 20 | 5 10.0 | 19.5 |
| 338044 2002 $LD_{10}$ | 16.4 | X | 45.68640 | 139.89965 | 110.89413 | 7.25061 | 0.1085541 | 0.22594476 | 2.6697332 | 20 | 8 21.1 | 19.7 |
| 338045 2002 $LM_{63}$ | 17.7 | X | 162.25822 | 31.62600 | 284.38578 | 4.64737 | 0.2140417 | 0.30247578 | 2.1979053 | 20 | — | — |
| 338046 2002 $LP_{63}$ | 16.2 | X | 239.34443 | 83.22070 | 310.20010 | 5.17833 | 0.0461184 | 0.21592527 | 2.7516957 | 20 | 6 25.1 | 20.0 |
| 338047 2002 $NP$ | 16.5 | X | 228.36889 | 141.82576 | 189.79725 | 14.97824 | 0.1591342 | 0.20327145 | 2.8647394 | 20 | 3 15.3 | 21.1 |
| 338048 2002 $NL_{6}$ | 17.0 | X | 289.17598 | 82.57675 | 241.02060 | 1.67057 | 0.1515735 | 0.21224856 | 2.7833824 | 20 | 5 11.8 | 20.5 |
| 338049 2002 $NY_{31}$ | 17.2 | X | 120.32302 | 282.85098 | 118.06846 | 40.93304 | 0.5456636 | 0.29971011 | 2.2114058 | 20 | 4 16.7 | 22.3 |
| 338050 2002 $NR_{54}$ | 15.9 | X | 334.51139 | 154.28685 | 126.32754 | 14.65924 | 0.1796356 | 0.21486311 | 2.7607567 | 20 | 5 27.2 | 19.1 |
| 338051 2002 $NY_{69}$ | 16.4 | X | 284.27692 | 189.57359 | 111.71365 | 9.19032 | 0.1825292 | 0.21004388 | 2.8028253 | 20 | 4 6.8 | 20.5 |
| 338052 2002 $NE_{74}$ | 16.7 | X | 270.84942 | 60.17380 | 299.38894 | 3.73157 | 0.0890131 | 0.21406638 | 2.7676026 | 20 | 6 14.0 | 20.4 |
| 338053 2002 $NK_{74}$ | 16.8 | X | 284.10120 | 288.27757 | 28.15320 | 3.75012 | 0.1920122 | 0.21111517 | 2.7933354 | 20 | 4 19.8 | 20.8 |
| 338054 2002 $NN_{77}$ | 16.3 | X | 320.35646 | 15.35565 | 259.64910 | 3.24178 | 0.0278819 | 0.21115855 | 2.7929528 | 20 | 5 8.2 | 20.0 |
| 338055 2002 $NU_{77}$ | 17.0 | X | 317.64294 | 258.78797 | 54.49016 | 3.85470 | 0.1716382 | 0.21580208 | 2.7527428 | 20 | 6 7.9 | 20.1 |
| 338056 2002 $NF_{78}$ | 16.4 | X | 276.80790 | 123.32294 | 240.39643 | 5.39232 | 0.0511233 | 0.21583651 | 2.7524501 | 20 | 7 3.3 | 20.0 |
| 338057 2002 $NN_{78}$ | 17.3 | X | 158.25938 | 267.31026 | 77.36742 | 6.18898 | 0.2423905 | 0.30351312 | 2.1928945 | 20 | 1 27.2 | 20.6 |
| 338058 2002 $NQ_{79}$ | 15.8 | X | 10.81869 | 22.82824 | 252.80634 | 12.84071 | 0.0613521 | 0.21838510 | 2.7309938 | 20 | 7 20.1 | 19.3 |
| 338059 2002 $NW_{79}$ | 16.1 | X | 293.05083 | 56.44245 | 257.97389 | 2.88738 | 0.0652279 | 0.21296039 | 2.7771766 | 20 | 5 18.1 | 19.8 |
| 338060 2002 $OS_{24}$ | 16.8 | X | 288.28656 | 349.42814 | 353.28439 | 3.41956 | 0.1079816 | 0.21342399 | 2.7731534 | 20 | 6 12.1 | 20.4 |
| 338061 2002 $OD_{27}$ | 16.2 | X | 359.92347 | 22.43126 | 257.74490 | 8.51063 | 0.0457023 | 0.21632898 | 2.7482712 | 20 | 7 11.0 | 19.6 |
| 338062 2002 $OF_{30}$ | 17.6 | X | 194.55153 | 48.57761 | 281.88480 | 5.56399 | 0.1557721 | 0.30727211 | 2.1749734 | 20 | 2 2.9 | 20.8 |
| 338063 2002 $OF_{32}$ | 16.9 | X | 242.00244 | 64.54814 | 321.05684 | 4.58009 | 0.1184002 | 0.21270211 | 2.7794243 | 20 | 6 8.4 | 21.1 |
| 338064 2002 $OF_{35}$ | 16.1 | X | 175.38249 | 84.20225 | 297.94898 | 7.84040 | 0.0869931 | 0.20127689 | 2.8836338 | 20 | 3 23.7 | 20.6 |
| 338065 2002 $OJ_{36}$ | 18.0 | X | 196.32679 | 281.82402 | 16.07423 | 5.52334 | 0.2447271 | 0.30562792 | 2.1827669 | 20 | — | — |
| 338066 2002 $PV_{12}$ | 16.5 | X | 342.93317 | 83.27928 | 213.85176 | 3.96274 | 0.1024881 | 0.21613896 | 2.7498817 | 20 | 7 7.6 | 19.7 |
| 338067 2002 $PT_{13}$ | 18.1 | X | 155.23962 | 201.57847 | 129.18784 | 5.63670 | 0.1850870 | 0.30302725 | 2.1952379 | 20 | — | — |
| 338068 2002 $PN_{16}$ | 16.5 | X | 293.94357 | 165.63230 | 136.73494 | 10.46092 | 0.2042458 | 0.21091922 | 2.7950653 | 20 | 4 16.7 | 20.4 |
| 338069 2002 $PR_{16}$ | 16.4 | X | 299.90287 | 2.39244 | 284.22941 | 6.91476 | 0.1850774 | 0.20994079 | 2.8037427 | 20 | 3 29.7 | 20.4 |
| 338070 2002 $PV_{20}$ | 18.0 | X | 139.29837 | 234.05278 | 140.70178 | 3.79963 | 0.1688274 | 0.30506838 | 2.1854351 | 20 | 2 6.1 | 20.8 |
| 338071 2002 $PJ_{27}$ | 17.8 | X | 126.89866 | 213.07821 | 144.46564 | 6.61995 | 0.2064139 | 0.30029864 | 2.2085156 | 20 | 1 4.7 | 20.4 |
| 338072 2002 $PM_{32}$ | 18.2 | X | 188.57684 | 57.28891 | 262.98606 | 2.70042 | 0.2329697 | 0.30566449 | 2.1825928 | 20 | 1 20.3 | 21.8 |
| 338073 2002 $PY_{38}$ | 18.4 | X | 166.68555 | 161.10937 | 159.44393 | 0.88810 | 0.1761023 | 0.30269524 | 2.1968428 | 20 | — | — |
| 338074 2002 $PA_{39}$ | 16.4 | X | 256.05564 | 181.63170 | 171.14666 | 4.30021 | 0.1156034 | 0.20996770 | 2.8035032 | 20 | 5 14.9 | 20.4 |
| 338075 2002 $PM_{55}$ | 17.1 | X | 222.70360 | 337.08164 | 320.84468 | 5.59880 | 0.2266177 | 0.30824273 | 2.1704052 | 20 | 1 20.8 | 20.7 |
| 338076 2002 $PW_{61}$ | 18.0 | X | 157.35205 | 146.34870 | 194.90755 | 4.67271 | 0.1941076 | 0.30331141 | 2.1938666 | 20 | 1 15.1 | 21.1 |
| 338077 2002 $PA_{85}$ | 16.3 | X | 246.66149 | 337.79578 | 343.29031 | 8.03906 | 0.3210129 | 0.20400505 | 2.8578676 | 20 | 3 9.1 | 21.4 |
| 338078 2002 $PA_{106}$ | 18.0 | X | 201.32161 | 84.19805 | 236.42138 | 5.57615 | 0.1544297 | 0.30755755 | 2.1736275 | 20 | 1 27.3 | 21.3 |
| 338079 2002 $PB_{107}$ | 16.6 | X | 221.69329 | 58.74279 | 290.05760 | 11.71995 | 0.2119964 | 0.20282687 | 2.8689241 | 20 | 3 22.5 | 21.7 |
| 338080 2002 $PK_{107}$ | 16.2 | X | 258.92201 | 17.27543 | 337.31516 | 7.54413 | 0.2395171 | 0.20970401 | 2.8058528 | 20 | 5 1.7 | 20.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338081 2002 $PC_{114}$ | 18.1 | X | 125.60034 | 246.12157 | 150.25293 | 4.00161 | 0.1281455 | 0.30620810 | 2.1800089 | 20 | 2 12.6 | 20.5 |
| 338082 2002 $PU_{118}$ | 17.7 | X | 139.99908 | 145.58449 | 191.43620 | 5.20404 | 0.2383974 | 0.29946793 | 2.2125979 | 20 | — | — |
| 338083 2002 $PF_{119}$ | 17.8 | X | 170.01119 | 43.55484 | 293.30447 | 5.20754 | 0.2106288 | 0.30420020 | 2.1895913 | 20 | 1 23.8 | 20.9 |
| 338084 2002 $PP_{135}$ | 17.9 | X | 155.07477 | 209.16512 | 108.42194 | 3.30479 | 0.2570023 | 0.30040589 | 2.2079899 | 20 | — | — |
| 338085 2002 $PH_{141}$ | 17.0 | X | 103.92792 | 79.17646 | 288.80166 | 5.67077 | 0.2578996 | 0.29566858 | 2.2315122 | 20 | — | — |
| 338086 2002 $PM_{169}$ | 16.8 | X | 261.43432 | 347.80326 | 356.02062 | 4.43333 | 0.1026194 | 0.20998450 | 2.8033537 | 20 | 5 8.9 | 20.9 |
| 338087 2002 $PC_{174}$ | 16.7 | X | 318.37006 | 103.08469 | 183.32541 | 4.26061 | 0.0260940 | 0.20948417 | 2.8078155 | 20 | 5 22.5 | 20.4 |
| 338088 2002 $PH_{174}$ | 17.7 | X | 86.88072 | 20.91684 | 5.95174 | 7.40506 | 0.1675520 | 0.29648126 | 2.2274325 | 20 | — | — |
| 338089 2002 $PK_{176}$ | 16.5 | X | 345.70210 | 17.79773 | 238.71729 | 3.93463 | 0.0784914 | 0.21124725 | 2.7921710 | 20 | 5 17.0 | 19.9 |
| 338090 2002 $PM_{177}$ | 15.8 | X | 160.09661 | 168.16396 | 322.88830 | 18.02441 | 0.1618626 | 0.21598676 | 2.7511734 | 20 | 7 31.4 | 20.3 |
| 338091 2002 $PB_{179}$ | 16.6 | X | 262.21750 | 315.51150 | 62.19287 | 4.27412 | 0.1014284 | 0.21362195 | 2.7714399 | 20 | 6 25.2 | 20.4 |
| 338092 2002 $PJ_{182}$ | 16.5 | X | 310.49610 | 313.84775 | 332.42633 | 8.73123 | 0.1422543 | 0.21004893 | 2.8027803 | 20 | 4 19.7 | 20.3 |
| 338093 2002 $PE_{184}$ | 17.8 | X | 217.25951 | 329.25104 | 318.07501 | 4.10844 | 0.1196093 | 0.30559752 | 2.1829117 | 20 | 1 2.1 | 20.8 |
| 338094 2002 $PP_{186}$ | 16.2 | X | 202.72299 | 67.16538 | 335.67523 | 14.31107 | 0.1625026 | 0.20697303 | 2.8304808 | 20 | 5 13.3 | 21.1 |
| 338095 2002 $PT_{186}$ | 17.8 | X | 152.41254 | 337.17622 | 353.10852 | 4.51408 | 0.1467379 | 0.30123283 | 2.2039472 | 20 | — | — |
| 338096 2002 $PC_{187}$ | 16.6 | X | 272.44273 | 281.62073 | 80.11165 | 6.15150 | 0.1101017 | 0.21287855 | 2.7778883 | 20 | 6 15.8 | 20.3 |
| 338097 2002 $PP_{187}$ | 17.8 | X | 71.18903 | 41.98468 | 349.62517 | 6.72225 | 0.0057892 | 0.29896687 | 2.2150694 | 20 | — | — |
| 338098 2002 $PO_{188}$ | 16.2 | X | 258.99114 | 236.84051 | 131.14440 | 7.24364 | 0.0160609 | 0.21209655 | 2.7847122 | 20 | 6 21.0 | 20.0 |
| 338099 2002 $PU_{189}$ | 17.7 | X | 145.93202 | 214.49776 | 120.70901 | 3.20008 | 0.1361158 | 0.30133666 | 2.2034409 | 20 | — | — |
| 338100 2002 $PY_{189}$ | 16.9 | X | 290.06935 | 136.91253 | 162.45696 | 6.09343 | 0.0201826 | 0.20838310 | 2.8176977 | 20 | 5 3.1 | 20.7 |
| 338101 2002 $PD_{196}$ | 17.6 | X | 138.87119 | 293.58321 | 41.78468 | 5.53791 | 0.2830501 | 0.29904573 | 2.2146800 | 20 | — | — |
| 338102 2002 $PQ_{197}$ | 18.0 | X | 198.98263 | 136.40420 | 158.90695 | 6.63918 | 0.0916042 | 0.30523818 | 2.1846246 | 20 | — | — |
| 338103 2002 $PV_{197}$ | 16.6 | X | 287.54732 | 40.53346 | 280.86266 | 5.46004 | 0.0116879 | 0.21204849 | 2.7851329 | 20 | 5 27.7 | 20.4 |
| 338104 2002 $PP_{200}$ | 16.6 | X | 225.14947 | 33.83589 | 353.36376 | 4.58402 | 0.0365392 | 0.21141702 | 2.7906760 | 20 | 5 29.7 | 20.6 |
| 338105 2002 $PE_{201}$ | 15.7 | X | 1.73218 | 202.44538 | 29.86292 | 6.87382 | 0.0098909 | 0.20944890 | 2.8081308 | 20 | 5 9.0 | 19.5 |
| 338106 2002 $QH_{7}$ | 15.8 | X | 256.80746 | 20.78043 | 350.36758 | 9.27000 | 0.2234129 | 0.21100090 | 2.7943438 | 20 | 5 22.6 | 20.2 |
| 338107 2002 $QS_{14}$ | 17.7 | X | 160.18173 | 30.71092 | 299.52924 | 3.99584 | 0.1998159 | 0.30193728 | 2.2005178 | 20 | 1 5.8 | 20.7 |
| 338108 2002 $QQ_{26}$ | 16.6 | X | 254.45042 | 172.28384 | 158.97075 | 15.66634 | 0.1453902 | 0.20491235 | 2.8494254 | 20 | 4 15.4 | 21.1 |
| 338109 2002 $QJ_{31}$ | 16.0 | X | 116.45833 | 352.43971 | 123.26360 | 7.09101 | 0.0284375 | 0.20639878 | 2.8357284 | 20 | 5 14.1 | 20.0 |
| 338110 2002 $QW_{46}$ | 16.1 | X | 174.44987 | 47.07871 | 359.94803 | 14.17792 | 0.2416740 | 0.20122830 | 2.8840980 | 20 | 4 24.9 | 21.3 |
| 338111 2002 $QD_{48}$ | 18.3 | X | 156.43034 | 12.89509 | 329.03133 | 3.84474 | 0.1782096 | 0.30323674 | 2.1942268 | 20 | 1 14.9 | 21.2 |
| 338112 2002 $QJ_{53}$ | 17.6 | X | 107.28832 | 85.41031 | 271.98684 | 2.64023 | 0.1098254 | 0.29690312 | 2.2253221 | 20 | — | — |
| 338113 2002 $QJ_{55}$ | 16.2 | X | 213.70288 | 61.71098 | 356.25063 | 11.32164 | 0.2798610 | 0.20736227 | 2.8269376 | 20 | 6 8.6 | 21.4 |
| 338114 2002 $QG_{56}$ | 17.6 | X | 18.22655 | 122.18059 | 12.43363 | 3.24224 | 0.0110702 | 0.30471030 | 2.1871469 | 20 | 1 10.8 | 20.1 |
| 338115 2002 $QE_{58}$ | 18.7 | X | 117.42239 | 41.55506 | 313.23651 | 1.75927 | 0.2012663 | 0.29771449 | 2.2212771 | 20 | — | — |
| 338116 2002 $QP_{62}$ | 16.0 | X | 195.53361 | 74.01290 | 323.15711 | 8.27194 | 0.1452036 | 0.20472213 | 2.8511902 | 20 | 5 1.8 | 20.7 |
| 338117 2002 $QK_{63}$ | 16.1 | X | 191.51211 | 86.77063 | 342.89456 | 6.13633 | 0.0299361 | 0.21055064 | 2.7983262 | 20 | 6 13.9 | 20.1 |
| 338118 2002 $QZ_{69}$ | 18.2 | X | 98.46982 | 63.93890 | 325.25190 | 7.85920 | 0.0596643 | 0.30055543 | 2.2072575 | 20 | — | — |
| 338119 2002 $QU_{70}$ | 16.6 | X | 286.77383 | 149.64354 | 146.61763 | 2.46611 | 0.0771809 | 0.20622262 | 2.8373431 | 20 | 4 15.4 | 20.4 |
| 338120 2002 $QY_{70}$ | 18.7 | X | 154.20304 | 316.94398 | 329.91213 | 3.22925 | 0.1628026 | 0.29620713 | 2.2288066 | 20 | — | — |
| 338121 2002 $QZ_{73}$ | 17.9 | X | 164.43020 | 267.43016 | 94.20543 | 4.74186 | 0.1492114 | 0.30605789 | 2.1807221 | 20 | 2 15.8 | 20.9 |
| 338122 2002 $QE_{74}$ | 17.9 | X | 164.71903 | 312.27232 | 345.02211 | 4.08467 | 0.1618378 | 0.29889366 | 2.2154311 | 20 | — | — |
| 338123 2002 $QC_{78}$ | 17.9 | X | 38.05960 | 224.65840 | 196.09420 | 2.47893 | 0.1347419 | 0.29493540 | 2.2352089 | 20 | — | — |
| 338124 2002 $QV_{81}$ | 17.7 | X | 199.68441 | 156.49477 | 117.25182 | 5.67395 | 0.1176917 | 0.29995925 | 2.2101812 | 20 | — | — |
| 338125 2002 $QQ_{83}$ | 16.8 | X | 277.85640 | 86.88879 | 261.99654 | 3.28930 | 0.0802850 | 0.21169013 | 2.7882753 | 20 | 6 10.5 | 20.3 |
| 338126 2002 $QD_{87}$ | 17.8 | X | 167.24247 | 231.02261 | 94.66371 | 5.52266 | 0.1551923 | 0.30287838 | 2.1959572 | 20 | 1 2.4 | 20.6 |
| 338127 2002 $QA_{89}$ | 18.4 | X | 185.52441 | 342.90461 | 323.21466 | 3.50651 | 0.1589797 | 0.30286949 | 2.1960001 | 20 | — | — |
| 338128 2002 $QU_{89}$ | 17.9 | X | 256.72147 | 270.66960 | 9.11549 | 6.08337 | 0.1557847 | 0.31039910 | 2.1603415 | 20 | 1 31.7 | 21.1 |
| 338129 2002 $QL_{90}$ | 16.4 | X | 218.64553 | 318.50985 | 57.18696 | 7.00606 | 0.0814104 | 0.20522288 | 2.8465503 | 20 | 5 5.2 | 20.6 |
| 338130 2002 $QP_{90}$ | 16.0 | X | 273.27715 | 333.85619 | 347.92509 | 6.78434 | 0.1005613 | 0.20574787 | 2.8417061 | 20 | 4 24.1 | 20.0 |
| 338131 2002 $QW_{90}$ | 16.5 | X | 275.25135 | 310.79805 | 1.05929 | 14.91240 | 0.1558096 | 0.20609734 | 2.8384927 | 20 | 4 5.8 | 20.7 |
| 338132 2002 $QS_{93}$ | 16.6 | X | 178.26651 | 249.61131 | 147.28497 | 5.93013 | 0.1052106 | 0.20202710 | 2.8764906 | 20 | 4 20.6 | 21.1 |
| 338133 2002 $QX_{96}$ | 18.3 | X | 183.07531 | 257.47840 | 18.64692 | 3.01248 | 0.1498119 | 0.29992953 | 2.2103272 | 20 | — | — |
| 338134 2002 $QE_{98}$ | 17.0 | X | 35.41001 | 276.27169 | 330.12121 | 4.27029 | 0.0975002 | 0.21679435 | 2.7443368 | 20 | 7 26.3 | 20.3 |
| 338135 2002 $QP_{100}$ | 15.8 | X | 59.18402 | 199.38319 | 118.44726 | 15.87843 | 0.1593465 | 0.17437547 | 3.1730662 | 20 | 12 2.1 | 20.6 |
| 338136 2002 $QE_{101}$ | 16.7 | X | 160.25929 | 2.72220 | 120.65296 | 5.13964 | 0.0194880 | 0.21439241 | 2.7647961 | 20 | 7 16.2 | 20.5 |
| 338137 2002 $QR_{107}$ | 16.8 | X | 239.65029 | 120.78164 | 248.52469 | 2.60434 | 0.1123339 | 0.20895841 | 2.8125234 | 20 | 5 16.6 | 21.0 |
| 338138 2002 $QF_{108}$ | 18.1 | X | 101.78925 | 221.50157 | 190.82556 | 0.62478 | 0.1915432 | 0.30289257 | 2.1958886 | 20 | 2 12.5 | 20.2 |
| 338139 2002 $QU_{108}$ | 17.1 | X | 221.45768 | 46.10378 | 327.27632 | 4.99370 | 0.1905225 | 0.20624488 | 2.8371389 | 20 | 4 25.7 | 21.8 |
| 338140 2002 $QE_{110}$ | 16.8 | X | 317.35533 | 337.02683 | 310.81970 | 3.21754 | 0.0752590 | 0.21044961 | 2.7992217 | 20 | 5 15.1 | 20.3 |
| 338141 2002 $QG_{115}$ | 17.4 | X | 196.98533 | 154.74180 | 107.76415 | 5.49858 | 0.2102403 | 0.29946132 | 2.2126305 | 20 | — | — |
| 338142 2002 $QK_{115}$ | 17.7 | X | 75.96567 | 24.61903 | 332.03774 | 4.03101 | 0.1795904 | 0.29144952 | 2.2529964 | 20 | — | — |
| 338143 2002 $QU_{115}$ | 17.9 | X | 75.20766 | 52.68635 | 352.85504 | 3.10915 | 0.0970502 | 0.29814125 | 2.2191569 | 20 | — | — |
| 338144 2002 $QA_{117}$ | 16.4 | X | 292.18940 | 69.36973 | 275.01533 | 4.65176 | 0.0581098 | 0.21389353 | 2.7690935 | 20 | 6 27.9 | 20.0 |
| 338145 2002 $QU_{120}$ | 16.6 | X | 240.89226 | 258.49438 | 129.78617 | 5.24696 | 0.0798019 | 0.20998970 | 2.8033074 | 20 | 6 15.9 | 20.6 |
| 338146 2002 $QA_{126}$ | 18.2 | X | 169.92048 | 154.29625 | 164.19965 | 8.06386 | 0.1157091 | 0.30192192 | 2.2005924 | 20 | — | — |
| 338147 2002 $QE_{127}$ | 18.3 | X | 107.10984 | 48.41174 | 346.17534 | 1.71587 | 0.2071570 | 0.30118896 | 2.2041612 | 20 | 1 29.6 | 20.6 |
| 338148 2002 $QO_{128}$ | 17.1 | X | 206.71808 | 358.81864 | 22.69805 | 2.39303 | 0.1272225 | 0.20468881 | 2.8514996 | 20 | 4 26.8 | 21.6 |
| 338149 2002 $QP_{128}$ | 16.4 | X | 155.59672 | 27.18769 | 30.41841 | 2.33608 | 0.0602905 | 0.20280881 | 2.8690944 | 20 | 4 17.9 | 20.6 |
| 338150 2002 $QY_{129}$ | 16.9 | X | 324.43455 | 6.43702 | 312.39236 | 5.22852 | 0.0241661 | 0.21432599 | 2.7653673 | 20 | 7 14.1 | 20.4 |
| 338151 2002 $QX_{131}$ | 18.6 | X | 103.89611 | 293.50456 | 110.16234 | 2.85090 | 0.2424338 | 0.30085899 | 2.2057725 | 20 | 2 13.1 | 20.8 |
| 338152 2002 $QS_{132}$ | 16.5 | X | 234.85112 | 114.19541 | 249.68877 | 7.97250 | 0.1475827 | 0.20595470 | 2.8398032 | 20 | 4 30.3 | 21.1 |
| 338153 2002 $QP_{136}$ | 16.9 | X | 4.26401 | 342.12619 | 291.59930 | 3.26791 | 0.0232525 | 0.21496065 | 2.7599215 | 20 | 7 9.1 | 20.6 |
| 338154 2002 $QN_{142}$ | 16.9 | X | 187.84979 | 179.60459 | 201.86311 | 10.16813 | 0.1512428 | 0.20060210 | 2.8900969 | 20 | 4 9.1 | 21.7 |
| 338155 2002 $QU_{146}$ | 16.4 | X | 151.02447 | 341.09805 | 103.85898 | 3.20382 | 0.0411903 | 0.20715029 | 2.8288658 | 20 | 5 16.8 | 20.4 |
| 338156 2002 $QG_{147}$ | 16.9 | X | 254.62002 | 151.52010 | 141.41125 | 3.82817 | 0.1420917 | 0.20106371 | 2.8856717 | 20 | 2 26.2 | 21.3 |
| 338157 2002 $QZ_{149}$ | 16.3 | X | 301.48171 | 90.82063 | 226.01803 | 2.71976 | 0.0919860 | 0.21216573 | 2.7841068 | 20 | 5 29.9 | 19.9 |
| 338158 2002 $QX_{150}$ | 17.5 | X | 139.38462 | 89.93042 | 278.95034 | 3.41464 | 0.1284027 | 0.30287665 | 2.1959655 | 20 | 1 23.8 | 20.1 |
| 338159 2002 $RY$ | 17.8 | X | 135.30770 | 115.07966 | 215.08952 | 8.55839 | 0.3093090 | 0.29770806 | 2.2213091 | 20 | — | — |
| 338160 2002 $RP_{2}$ | 17.0 | X | 119.78000 | 0.75600 | 352.85248 | 4.95859 | 0.1696368 | 0.29692755 | 2.2252000 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338161 2002 $RH_{6}$ | 17.6 | X | 122.40000 | 205.77340 | 168.44120 | 3.95846 | 0.1926087 | 0.30035066 | 2.2082606 | 20 | 1 19.1 | 20.2 |
| 338162 2002 $RL_{15}$ | 17.6 | X | 170.23102 | 135.82684 | 172.80887 | 5.95279 | 0.2105640 | 0.30015882 | 2.2092014 | 20 | — | — |
| 338163 2002 $RT_{22}$ | 17.5 | X | 204.75561 | 281.74877 | 357.71126 | 5.93782 | 0.1879997 | 0.30211749 | 2.1996427 | 20 | — | — |
| 338164 2002 $RP_{35}$ | 16.1 | X | 226.23962 | 43.60546 | 290.01899 | 6.96596 | 0.2145833 | 0.20163523 | 2.8802163 | 20 | 3 11.2 | 21.2 |
| 338165 2002 $RR_{66}$ | 16.4 | X | 170.70837 | 115.85026 | 265.65465 | 10.75846 | 0.1690189 | 0.19612534 | 2.9339109 | 20 | 3 20.5 | 21.5 |
| 338166 2002 $RZ_{66}$ | 16.5 | X | 139.40351 | 33.97133 | 295.42528 | 6.70004 | 0.1826435 | 0.29671596 | 2.2262577 | 20 | — | — |
| 338167 2002 $RR_{69}$ | 17.9 | X | 158.24001 | 325.31071 | 19.31263 | 1.92486 | 0.1702534 | 0.30222971 | 2.1990981 | 20 | 1 19.6 | 21.0 |
| 338168 2002 $RX_{77}$ | 17.8 | X | 143.29146 | 335.77289 | 0.32286 | 3.20332 | 0.1633936 | 0.29883715 | 2.2157104 | 20 | — | — |
| 338169 2002 $RP_{78}$ | 17.8 | X | 163.14857 | 352.29407 | 334.09601 | 5.90688 | 0.2020806 | 0.30099065 | 2.2051292 | 20 | 1 4.8 | 21.0 |
| 338170 2002 $RV_{84}$ | 17.4 | X | 122.50635 | 24.90334 | 354.77989 | 4.87639 | 0.2231446 | 0.29928588 | 2.2134951 | 20 | 2 2.6 | 20.1 |
| 338171 2002 $RL_{111}$ | 16.8 | X | 119.41948 | 86.31544 | 258.51978 | 3.91411 | 0.2092321 | 0.29378589 | 2.2410356 | 20 | — | — |
| 338172 2002 $RV_{112}$ | 17.3 | X | 124.10028 | 199.78989 | 196.02390 | 16.49740 | 0.4902334 | 0.29816663 | 2.2190310 | 20 | 3 21.9 | 21.4 |
| 338173 2002 $RV_{115}$ | 16.8 | X | 231.73089 | 70.33808 | 273.98117 | 5.08409 | 0.2654081 | 0.20316527 | 2.8657375 | 20 | 3 26.2 | 21.9 |
| 338174 2002 $RY_{115}$ | 15.9 | X | 201.07305 | 107.39859 | 269.82601 | 4.75698 | 0.0790457 | 0.20218427 | 2.8749997 | 20 | 4 15.7 | 20.3 |
| 338175 2002 $RD_{116}$ | 17.7 | X | 179.52765 | 332.02953 | 3.65986 | 6.94515 | 0.1457041 | 0.30476715 | 2.1868750 | 20 | 1 29.2 | 20.9 |
| 338176 2002 $RC_{118}$ | 16.8 | X | 166.08392 | 222.26369 | 208.93508 | 27.98541 | 0.5654867 | 0.19422365 | 2.9530308 | 20 | 5 26.9 | 23.3 |
| 338177 2002 $RU_{125}$ | 17.9 | X | 141.73347 | 134.46857 | 190.22907 | 5.79047 | 0.2188856 | 0.29725429 | 2.2235691 | 20 | — | — |
| 338178 2002 $RJ_{126}$ | 17.6 | X | 164.15305 | 289.64268 | 26.14821 | 5.76833 | 0.2300373 | 0.30107507 | 2.2047170 | 20 | — | — |
| 338179 2002 $RC_{132}$ | 17.4 | X | 95.29304 | 111.89381 | 297.96379 | 6.80795 | 0.1225266 | 0.29963568 | 2.2117720 | 20 | 1 18.7 | 19.6 |
| 338180 2002 $RX_{132}$ | 17.5 | X | 151.89654 | 215.10576 | 99.36462 | 4.99495 | 0.2022298 | 0.29828991 | 2.2184195 | 20 | — | — |
| 338181 2002 $RE_{158}$ | 18.3 | X | 119.96001 | 62.30027 | 303.12604 | 1.08960 | 0.1554170 | 0.29806455 | 2.2195375 | 20 | — | — |
| 338182 2002 $RF_{165}$ | 15.9 | X | 250.57437 | 51.19334 | 249.93712 | 7.48348 | 0.1071004 | 0.19959594 | 2.8998013 | 20 | 3 2.1 | 20.4 |
| 338183 2002 $RP_{170}$ | 16.4 | X | 241.92509 | 145.36684 | 174.70602 | 15.23082 | 0.1526365 | 0.20219760 | 2.8748734 | 20 | 3 15.9 | 20.9 |
| 338184 2002 $RA_{173}$ | 17.6 | X | 137.38263 | 257.94835 | 77.87839 | 5.88698 | 0.2377890 | 0.29748613 | 2.2224137 | 20 | — | — |
| 338185 2002 $RY_{182}$ | 15.7 | X | 198.17416 | 157.53268 | 249.44655 | 10.93533 | 0.1802022 | 0.20323088 | 2.8651206 | 20 | 5 18.5 | 20.5 |
| 338186 2002 $RK_{183}$ | 16.1 | X | 208.19757 | 108.51817 | 288.51191 | 10.87823 | 0.2261305 | 0.20296624 | 2.8676106 | 20 | 5 11.4 | 21.1 |
| 338187 2002 $RK_{200}$ | 18.1 | X | 146.27524 | 116.85415 | 239.63958 | 4.82334 | 0.2112136 | 0.30202909 | 2.2000719 | 20 | 1 24.9 | 21.2 |
| 338188 2002 $RW_{200}$ | 17.8 | X | 202.82118 | 259.74899 | 54.00531 | 6.51088 | 0.1677588 | 0.30536240 | 2.1840321 | 20 | 1 24.1 | 21.1 |
| 338189 2002 $RE_{203}$ | 18.1 | X | 88.82928 | 57.49006 | 311.08318 | 4.43102 | 0.1900726 | 0.29321514 | 2.2439429 | 20 | — | — |
| 338190 2002 $RV_{210}$ | 16.8 | X | 224.72009 | 114.87057 | 180.79810 | 11.48360 | 0.1141391 | 0.19287052 | 2.9668265 | 20 | 1 31.8 | 21.7 |
| 338191 2002 $RO_{240}$ | 16.8 | X | 328.62622 | 343.25415 | 312.63838 | 6.13557 | 0.0487998 | 0.21088428 | 2.7953739 | 20 | 6 16.1 | 20.4 |
| 338192 2002 $RW_{255}$ | 18.2 | X | 162.80230 | 31.81687 | 259.89984 | 5.81024 | 0.1560268 | 0.29770949 | 2.2213019 | 20 | — | — |
| 338193 2002 $RQ_{257}$ | 16.9 | X | 216.82059 | 340.01219 | 42.27833 | 2.56699 | 0.0865149 | 0.20639637 | 2.8357505 | 20 | 5 10.3 | 21.2 |
| 338194 2002 $RM_{261}$ | 16.9 | X | 180.44192 | 191.92395 | 222.79055 | 5.04581 | 0.0900119 | 0.20323984 | 2.8650365 | 20 | 5 12.7 | 21.1 |
| 338195 2002 $RB_{268}$ | 18.3 | X | 161.21016 | 299.16147 | 358.73292 | 5.86613 | 0.1972888 | 0.29769302 | 2.2213839 | 20 | — | — |
| 338196 2002 $RQ_{269}$ | 16.6 | X | 211.48139 | 343.41474 | 341.46821 | 11.38537 | 0.0500878 | 0.19788920 | 2.9164508 | 20 | 2 26.4 | 20.9 |
| 338197 2002 $RM_{270}$ | 16.7 | X | 289.15131 | 12.77109 | 312.01259 | 2.67013 | 0.0946107 | 0.20986221 | 2.8044426 | 20 | 5 21.7 | 20.3 |
| 338198 2002 $RX_{273}$ | 18.4 | X | 178.32403 | 147.65486 | 148.26823 | 3.12401 | 0.2207884 | 0.30094042 | 2.2053746 | 20 | — | — |
| 338199 2002 $RS_{275}$ | 17.0 | X | 237.99502 | 56.26174 | 235.06612 | 1.14193 | 0.0621022 | 0.19560671 | 2.9390945 | 20 | 2 13.4 | 21.2 |
| 338200 2002 $RQ_{278}$ | 15.9 | X | 172.50534 | 276.63256 | 84.17051 | 3.30310 | 0.1204448 | 0.19557988 | 2.9393633 | 20 | 3 2.7 | 20.5 |
| 338201 2002 $RX_{278}$ | 16.1 | X | 51.33029 | 331.12660 | 197.44477 | 14.89537 | 0.0798393 | 0.20290128 | 2.8682226 | 20 | 5 2.6 | 19.8 |
| 338202 2002 $RS_{289}$ | 16.2 | X | 224.42105 | 11.03575 | 34.48731 | 12.68440 | 0.0700132 | 0.21047092 | 2.7990328 | 20 | 6 18.3 | 20.5 |
| 338203 2002 $RJ_{290}$ | 16.4 | X | 210.94884 | 300.38347 | 28.13730 | 11.19338 | 0.2877021 | 0.19930897 | 2.9025842 | 20 | 2 29.4 | 21.8 |
| 338204 2002 $SS$ | 16.3 | X | 150.33054 | 169.37066 | 256.15831 | 4.44555 | 0.3075436 | 0.19578289 | 2.9373310 | 20 | 5 5.6 | 21.6 |
| 338205 2002 $SQ_{2}$ | 17.3 | X | 216.51672 | 181.25099 | 11.68640 | 25.14106 | 0.0682969 | 0.39616732 | 1.8360462 | 20 | — | — |
| 338206 2002 $SC_{18}$ | 17.8 | X | 160.23057 | 143.05070 | 173.76165 | 1.49687 | 0.1801936 | 0.29789675 | 2.2203710 | 20 | — | — |
| 338207 2002 $SJ_{18}$ | 18.1 | X | 156.13550 | 152.72982 | 170.11099 | 2.68882 | 0.1271062 | 0.29724195 | 2.2236306 | 20 | — | — |
| 338208 2002 $ST_{24}$ | 17.8 | X | 131.45048 | 302.11158 | 5.95930 | 5.51576 | 0.2149265 | 0.29339783 | 2.2430112 | 20 | — | — |
| 338209 2002 $SF_{25}$ | 17.4 | X | 127.84221 | 310.04604 | 35.39858 | 5.56974 | 0.2209068 | 0.29647840 | 2.2274468 | 20 | — | — |
| 338210 2002 $SF_{34}$ | 17.1 | X | 125.91141 | 29.78135 | 3.48190 | 7.69705 | 0.1600601 | 0.30177946 | 2.2012850 | 20 | 2 16.9 | 19.8 |
| 338211 2002 $SZ_{34}$ | 15.8 | X | 185.16371 | 336.41809 | 26.16054 | 11.18056 | 0.1452068 | 0.19641974 | 2.9309785 | 20 | 3 19.0 | 20.6 |
| 338212 2002 $SP_{35}$ | 17.1 | X | 123.73099 | 14.78776 | 41.99067 | 4.55253 | 0.1252000 | 0.30327504 | 2.1940420 | 20 | 3 11.9 | 19.8 |
| 338213 2002 $SJ_{44}$ | 16.9 | X | 131.59179 | 321.50311 | 29.81735 | 8.49172 | 0.2133194 | 0.29710158 | 2.2243310 | 20 | 1 5.1 | 19.8 |
| 338214 2002 $SO_{59}$ | 17.2 | X | 107.18084 | 283.69165 | 71.41615 | 7.15301 | 0.2609473 | 0.29502933 | 2.2347344 | 20 | — | — |
| 338215 2002 $SA_{60}$ | 17.6 | X | 169.44455 | 229.70600 | 70.39878 | 5.35548 | 0.1860385 | 0.29943750 | 2.2127478 | 20 | — | — |
| 338216 2002 $SE_{70}$ | 16.6 | X | 242.08036 | 343.91516 | 359.05146 | 5.82913 | 0.0717583 | 0.20193144 | 2.8773990 | 20 | 4 18.9 | 20.9 |
| 338217 2002 $TX_{6}$ | 17.1 | X | 140.11408 | 317.67069 | 19.85954 | 6.62490 | 0.1526448 | 0.29652673 | 2.2272048 | 20 | — | — |
| 338218 2002 $TR_{8}$ | 17.3 | X | 132.78162 | 206.95900 | 135.67026 | 2.05221 | 0.2458108 | 0.29609071 | 2.2293908 | 20 | — | — |
| 338219 2002 $TH_{9}$ | 17.5 | X | 120.36334 | 233.06526 | 143.59825 | 5.81104 | 0.1986759 | 0.29913467 | 2.2142410 | 20 | 1 21.1 | 20.2 |
| 338220 2002 $TF_{12}$ | 16.1 | X | 221.17649 | 6.87600 | 14.62113 | 15.45265 | 0.1449471 | 0.20342933 | 2.8632570 | 20 | 5 5.7 | 20.8 |
| 338221 2002 $TM_{12}$ | 18.1 | X | 128.46879 | 289.38186 | 60.17335 | 3.43207 | 0.2300598 | 0.29722218 | 2.2237293 | 20 | — | — |
| 338222 2002 $TA_{17}$ | 17.6 | X | 129.00553 | 21.05709 | 1.33861 | 5.62167 | 0.0880559 | 0.30102052 | 2.2049834 | 20 | 1 25.4 | 20.2 |
| 338223 2002 $TK_{34}$ | 16.6 | X | 153.63468 | 74.22276 | 3.73823 | 5.53362 | 0.2419008 | 0.19765201 | 2.9187835 | 20 | 5 19.4 | 21.8 |
| 338224 2002 $TB_{42}$ | 17.4 | X | 137.46200 | 306.99346 | 40.09464 | 5.63171 | 0.2077148 | 0.29666811 | 2.2264971 | 20 | 1 5.4 | 20.3 |
| 338225 2002 $TQ_{43}$ | 17.7 | X | 121.81848 | 129.25384 | 215.29383 | 2.57471 | 0.2155243 | 0.29380308 | 2.2409482 | 20 | — | — |
| 338226 2002 $TC_{57}$ | 17.9 | X | 293.80903 | 251.64558 | 201.11881 | 20.62633 | 0.0906774 | 0.39103936 | 1.8520629 | 20 | — | — |
| 338227 2002 $TR_{62}$ | 16.1 | X | 153.75139 | 226.63998 | 207.88094 | 14.83009 | 0.1621677 | 0.19836864 | 2.9117497 | 20 | 5 14.2 | 20.8 |
| 338228 2002 $TS_{64}$ | 17.9 | X | 187.54900 | 267.30779 | 39.86049 | 8.57048 | 0.2129687 | 0.30089195 | 2.2056115 | 20 | 1 3.8 | 21.4 |
| 338229 2002 $TN_{66}$ | 17.5 | X | 308.30180 | 64.26115 | 294.18966 | 18.67424 | 0.0659748 | 0.38035489 | 1.8865865 | 20 | 8 22.4 | 19.2 |
| 338230 2002 $TD_{73}$ | 17.0 | X | 71.80764 | 163.81212 | 240.89474 | 6.04851 | 0.0589659 | 0.29361998 | 2.2418797 | 20 | — | — |
| 338231 2002 $TB_{74}$ | 17.2 | X | 129.79774 | 346.62055 | 0.21168 | 7.06401 | 0.1435758 | 0.29521264 | 2.2338092 | 20 | — | — |
| 338232 2002 $TD_{75}$ | 17.0 | X | 133.29867 | 321.16019 | 45.56833 | 7.31421 | 0.2333501 | 0.29966075 | 2.2116487 | 20 | 1 31.4 | 20.1 |
| 338233 2002 $TY_{75}$ | 17.8 | X | 85.47679 | 108.58379 | 268.50958 | 2.44213 | 0.1795231 | 0.29252495 | 2.2474711 | 20 | — | — |
| 338234 2002 $TY_{77}$ | 16.2 | X | 205.54316 | 316.06583 | 11.95566 | 11.72971 | 0.2643055 | 0.19514943 | 2.9436840 | 20 | 2 25.1 | 21.5 |
| 338235 2002 $TU_{85}$ | 17.4 | X | 148.21021 | 92.70227 | 224.11022 | 4.10739 | 0.1937567 | 0.29615981 | 2.2290439 | 20 | — | — |
| 338236 2002 $TZ_{88}$ | 17.4 | X | 118.81691 | 145.36105 | 247.94728 | 4.21206 | 0.1462310 | 0.29925054 | 2.2136694 | 20 | 2 1.7 | 19.9 |
| 338237 2002 $TS_{98}$ | 16.2 | X | 186.17546 | 76.21215 | 329.21723 | 0.97663 | 0.1768681 | 0.19985587 | 2.8972865 | 20 | 5 6.4 | 21.0 |
| 338238 2002 $TN_{105}$ | 17.9 | X | 61.53911 | 151.18001 | 231.63023 | 6.00218 | 0.2651127 | 0.29046442 | 2.2580875 | 20 | — | — |
| 338239 2002 $TH_{106}$ | 16.4 | X | 244.21489 | 24.64679 | 336.35105 | 5.43058 | 0.1039442 | 0.20393487 | 2.8585232 | 20 | 5 10.3 | 20.8 |
| 338240 2002 $TW_{109}$ | 15.5 | X | 199.72712 | 198.07004 | 127.33733 | 11.90881 | 0.1115324 | 0.19255299 | 2.9700872 | 20 | 2 15.4 | 20.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338241 2002 $TL_{116}$ | 16.0 | X | 140.09656 | 148.28596 | 251.31690 | 10.11275 | 0.1499658 | 0.19230858 | 2.9726032 | 20 | 3 13.6 | 20.8 |
| 338242 2002 $TJ_{133}$ | 17.3 | X | 138.87648 | 337.74262 | 321.94042 | 4.47676 | 0.1418397 | 0.29141807 | 2.2531584 | 20 | — | — |
| 338243 2002 $TG_{134}$ | 15.8 | X | 222.93979 | 111.43111 | 229.25572 | 9.38657 | 0.1384170 | 0.19875018 | 2.9080221 | 20 | 3 20.7 | 20.6 |
| 338244 2002 $TD_{149}$ | 17.3 | X | 162.79801 | 14.52638 | 279.28380 | 2.92554 | 0.1257946 | 0.29450987 | 2.2373614 | 20 | — | — |
| 338245 2002 $TV_{151}$ | 17.3 | X | 251.79749 | 261.48098 | 356.69776 | 7.42382 | 0.0552378 | 0.30122716 | 2.2039748 | 20 | 1 4.9 | 20.2 |
| 338246 2002 $TP_{157}$ | 15.9 | X | 273.29572 | 278.39677 | 45.06305 | 25.88206 | 0.2444857 | 0.20504216 | 2.8482227 | 20 | 4 17.5 | 20.4 |
| 338247 2002 $TC_{176}$ | 15.4 | X | 185.35880 | 143.69947 | 266.32456 | 11.12192 | 0.2352403 | 0.19931725 | 2.9025037 | 20 | 5 9.9 | 20.6 |
| 338248 2002 $TJ_{178}$ | 17.2 | X | 116.07333 | 90.41976 | 281.08295 | 4.33658 | 0.1494554 | 0.29633437 | 2.2281685 | 20 | 1 1.1 | 19.7 |
| 338249 2002 $TX_{182}$ | 16.7 | X | 250.68258 | 117.08887 | 214.17412 | 6.07079 | 0.3294868 | 0.20472823 | 2.8511335 | 20 | 3 22.0 | 21.7 |
| 338250 2002 $TD_{186}$ | 17.0 | X | 145.84798 | 93.15760 | 217.45047 | 5.57064 | 0.1707425 | 0.29495785 | 2.2350954 | 20 | — | — |
| 338251 2002 $TW_{187}$ | 17.8 | X | 167.98499 | 84.68508 | 254.15398 | 3.79163 | 0.2038550 | 0.30158383 | 2.2022368 | 20 | 1 23.6 | 21.0 |
| 338252 2002 $TJ_{195}$ | 15.9 | X | 152.30333 | 18.13276 | 29.68026 | 14.09475 | 0.1699197 | 0.19329081 | 2.9625243 | 20 | 4 11.4 | 20.6 |
| 338253 2002 $TZ_{198}$ | 16.1 | X | 150.23353 | 214.61428 | 201.40139 | 3.39482 | 0.1770670 | 0.19493588 | 2.9458335 | 20 | 4 18.6 | 20.9 |
| 338254 2002 $TZ_{206}$ | 17.4 | X | 131.57992 | 113.75750 | 224.61438 | 4.85277 | 0.2836426 | 0.29565589 | 2.2315761 | 20 | — | — |
| 338255 2002 $TS_{222}$ | 17.9 | X | 123.51574 | 181.47014 | 189.67771 | 4.29259 | 0.1941275 | 0.29730646 | 2.2233090 | 20 | 1 16.9 | 20.6 |
| 338256 2002 $TL_{223}$ | 17.5 | X | 146.93011 | 306.68731 | 33.18110 | 7.14856 | 0.2200197 | 0.29767228 | 2.2214871 | 20 | 1 8.2 | 20.7 |
| 338257 2002 $TO_{229}$ | 17.4 | X | 108.56332 | 330.58188 | 31.54137 | 3.90382 | 0.1642013 | 0.29392556 | 2.2403256 | 20 | — | — |
| 338258 2002 $TB_{232}$ | 16.2 | X | 219.29535 | 96.25343 | 317.16887 | 13.41609 | 0.2788994 | 0.20478125 | 2.8506414 | 20 | 6 8.3 | 21.4 |
| 338259 2002 $TH_{235}$ | 15.8 | X | 292.87464 | 86.46221 | 272.44981 | 9.43664 | 0.2727243 | 0.21112889 | 2.7932144 | 20 | 6 14.5 | 19.3 |
| 338260 2002 $TE_{239}$ | 15.9 | X | 184.07283 | 4.88121 | 6.68270 | 7.43276 | 0.1339547 | 0.19449348 | 2.9502989 | 20 | 3 25.3 | 20.5 |
| 338261 2002 $TP_{251}$ | 15.6 | X | 170.42105 | 311.77033 | 48.27179 | 10.94687 | 0.1238498 | 0.19139357 | 2.9820699 | 20 | 3 4.2 | 20.5 |
| 338262 2002 $TM_{252}$ | 17.4 | X | 70.35459 | 236.02396 | 162.34904 | 6.87099 | 0.1211159 | 0.29292527 | 2.2454229 | 20 | — | — |
| 338263 2002 $TA_{253}$ | 17.7 | X | 246.10396 | 270.41408 | 208.91473 | 19.00313 | 0.1251566 | 0.38562267 | 1.8693660 | 20 | 11 25.7 | 19.1 |
| 338264 2002 $TL_{253}$ | 17.1 | X | 213.17661 | 206.68012 | 145.45741 | 1.80219 | 0.4108265 | 0.19918142 | 2.9038232 | 20 | 3 21.9 | 22.9 |
| 338265 2002 $TX_{265}$ | 15.4 | X | 57.83867 | 235.53722 | 237.33694 | 24.27815 | 0.4245099 | 0.17996231 | 3.1070507 | 20 | 4 20.7 | 19.4 |
| 338266 2002 $TV_{267}$ | 17.9 | X | 142.73012 | 350.31373 | 323.40397 | 3.36340 | 0.2088695 | 0.29506794 | 2.2345395 | 20 | — | — |
| 338267 2002 $TQ_{271}$ | 17.6 | X | 89.56691 | 96.19762 | 332.35836 | 3.05849 | 0.1505146 | 0.29908588 | 2.2144817 | 20 | 2 10.8 | 19.8 |
| 338268 2002 $TT_{271}$ | 17.7 | X | 77.46449 | 60.02239 | 338.76878 | 3.07727 | 0.1658131 | 0.29351889 | 2.2423945 | 20 | — | — |
| 338269 2002 $TE_{290}$ | 17.8 | X | 129.67447 | 83.31389 | 261.36110 | 6.51944 | 0.1973166 | 0.29536950 | 2.2330183 | 20 | — | — |
| 338270 2002 $TM_{294}$ | 17.5 | X | 123.24435 | 343.72476 | 14.91976 | 2.29611 | 0.1830148 | 0.29519403 | 2.2339031 | 20 | — | — |
| 338271 2002 $TO_{298}$ | 15.9 | X | 147.05035 | 138.11136 | 252.39514 | 5.07395 | 0.1496187 | 0.19054090 | 2.9909598 | 20 | 3 11.9 | 20.8 |
| 338272 2002 $TE_{299}$ | 18.1 | X | 138.47493 | 342.40647 | 337.18010 | 1.68883 | 0.2233609 | 0.29367475 | 2.2416010 | 20 | — | — |
| 338273 2002 $TY_{300}$ | 17.6 | X | 164.62586 | 147.04329 | 158.90883 | 8.93685 | 0.2433956 | 0.29649159 | 2.2273807 | 20 | — | — |
| 338274 2002 $TM_{303}$ | 17.1 | X | 204.46928 | 172.85280 | 178.81671 | 8.03877 | 0.1005398 | 0.19748921 | 2.9203875 | 20 | 3 20.7 | 21.7 |
| 338275 2002 $TM_{307}$ | 17.9 | X | 196.44646 | 167.69386 | 106.96970 | 5.56541 | 0.1755414 | 0.29671559 | 2.2262596 | 20 | — | — |
| 338276 2002 $TZ_{309}$ | 16.0 | X | 220.45911 | 347.05640 | 51.01713 | 13.74835 | 0.1121712 | 0.20396143 | 2.8582750 | 20 | 5 31.1 | 20.3 |
| 338277 2002 $TC_{323}$ | 16.7 | X | 221.17825 | 329.11806 | 15.96084 | 2.18678 | 0.0513372 | 0.19941859 | 2.9015204 | 20 | 4 1.2 | 20.7 |
| 338278 2002 $TQ_{327}$ | 17.1 | X | 212.82903 | 344.09578 | 18.91229 | 11.73053 | 0.0689032 | 0.20017337 | 2.8942221 | 20 | 4 12.6 | 21.3 |
| 338279 2002 $TQ_{328}$ | 16.8 | X | 26.78045 | 353.13830 | 181.40813 | 11.22798 | 0.0295715 | 0.19736078 | 2.9216542 | 20 | 3 31.4 | 20.7 |
| 338280 2002 $TG_{345}$ | 16.2 | X | 63.96757 | 135.88863 | 47.81154 | 15.88375 | 0.0808873 | 0.20189738 | 2.8777226 | 20 | 6 6.5 | 20.1 |
| 338281 2002 $TS_{352}$ | 18.3 | X | 113.63236 | 162.34649 | 215.48139 | 6.04827 | 0.1238428 | 0.29912004 | 2.2143132 | 20 | — | — |
| 338282 2002 $TB_{367}$ | 18.0 | X | 304.84911 | 67.78656 | 133.17721 | 6.66851 | 0.1246695 | 0.29818629 | 2.2189334 | 20 | — | — |
| 338283 2002 $TQ_{379}$ | 17.9 | X | 295.65890 | 220.80778 | 12.23221 | 3.48139 | 0.1074610 | 0.30526514 | 2.1844959 | 20 | 1 18.0 | 20.6 |
| 338284 2002 $TW_{381}$ | 18.3 | X | 111.74291 | 252.54483 | 41.71919 | 22.08866 | 0.0640180 | 0.39514252 | 1.8392194 | 20 | — | — |
| 338285 2002 $TC_{383}$ | 17.4 | X | 101.23386 | 316.42762 | 26.09362 | 8.50990 | 0.1506174 | 0.28932638 | 2.2640049 | 20 | — | — |
| 338286 2002 $UT_{8}$ | 15.7 | X | 330.94228 | 232.53397 | 100.93144 | 13.52284 | 0.2576571 | 0.21299671 | 2.7768609 | 20 | 7 28.6 | 18.0 |
| 338287 2002 $UB_{10}$ | 17.3 | X | 131.97692 | 269.62000 | 36.60879 | 8.06371 | 0.1308541 | 0.28941612 | 2.2635369 | 20 | — | — |
| 338288 2002 $UG_{13}$ | 15.7 | X | 147.82966 | 254.56218 | 155.48399 | 9.33869 | 0.2402056 | 0.19243720 | 2.9712785 | 20 | 4 15.8 | 20.8 |
| 338289 2002 $UD_{17}$ | 17.5 | X | 304.01127 | 188.61307 | 225.34234 | 22.27349 | 0.0867064 | 0.38500060 | 1.8713791 | 20 | 12 4.9 | 18.8 |
| 338290 2002 $UJ_{23}$ | 17.3 | X | 347.05487 | 100.13297 | 317.91873 | 17.26704 | 0.1721748 | 0.39391615 | 1.8430348 | 20 | — | — |
| 338291 2002 $UJ_{27}$ | 17.6 | X | 121.68325 | 149.83721 | 245.99286 | 4.25239 | 0.1482216 | 0.29909859 | 2.2144190 | 20 | 2 9.1 | 20.4 |
| 338292 2002 $UA_{31}$ | 19.0 | X | 35.27751 | 358.65841 | 209.32099 | 30.70387 | 0.4871015 | 1.38060024 | 0.7987743 | 20 | — | — |
| 338293 2002 $UZ_{35}$ | 18.1 | X | 31.47424 | 95.26814 | 3.77668 | 7.80957 | 0.3430644 | 0.29117988 | 2.2543870 | 20 | — | — |
| 338294 2002 $UK_{41}$ | 17.3 | X | 91.34645 | 266.94832 | 119.62073 | 2.97099 | 0.1705566 | 0.29252705 | 2.2474603 | 20 | — | — |
| 338295 2002 $US_{45}$ | 15.8 | X | 118.05586 | 51.51317 | 38.21848 | 13.79695 | 0.1582895 | 0.19266913 | 2.9688935 | 20 | 4 27.0 | 20.3 |
| 338296 2002 $UO_{57}$ | 17.6 | X | 89.12463 | 284.52336 | 96.02313 | 6.92197 | 0.1212919 | 0.29272949 | 2.2464240 | 20 | — | — |
| 338297 2002 $UR_{64}$ | 18.5 | X | 150.42467 | 216.68408 | 86.85577 | 0.75774 | 0.2386875 | 0.29575652 | 2.2310698 | 20 | — | — |
| 338298 2002 $UY_{66}$ | 17.0 | X | 193.49465 | 294.57915 | 108.74374 | 3.25247 | 0.1173863 | 0.20111321 | 2.8851982 | 20 | 5 12.4 | 21.4 |
| 338299 2002 $UQ_{70}$ | 17.9 | X | 35.03330 | 64.02167 | 19.22636 | 4.97839 | 0.1043880 | 0.29430422 | 2.2384036 | 20 | — | — |
| 338300 2002 $UX_{70}$ | 17.8 | X | 264.87963 | 248.17795 | 199.48436 | 19.66451 | 0.1215760 | 0.38223579 | 1.8803924 | 20 | 11 9.4 | 19.0 |
| 338301 2002 $UU_{71}$ | 15.7 | X | 225.38275 | 106.93384 | 231.64648 | 11.01661 | 0.0674505 | 0.19467301 | 2.9484848 | 20 | 3 24.6 | 20.2 |
| 338302 2002 $UE_{74}$ | 17.0 | X | 160.25627 | 114.49545 | 216.42588 | 4.93820 | 0.2246952 | 0.18651775 | 3.0338163 | 20 | 1 21.3 | 22.2 |
| 338303 2002 $UN_{75}$ | 16.7 | X | 224.26937 | 169.69461 | 188.33123 | 1.61841 | 0.1161306 | 0.19831098 | 2.9123140 | 20 | 4 16.6 | 21.2 |
| 338304 2002 $US_{75}$ | 17.6 | X | 80.27333 | 172.33854 | 198.51622 | 3.25741 | 0.1720453 | 0.28974827 | 2.2618067 | 20 | — | — |
| 338305 2002 $VO_{3}$ | 15.4 | X | 101.89338 | 173.45039 | 240.12746 | 17.31896 | 0.1644723 | 0.18514868 | 3.0487534 | 20 | 2 18.4 | 20.1 |
| 338306 2002 $VC_{9}$ | 15.9 | X | 131.32577 | 165.12717 | 242.23667 | 9.01193 | 0.0846236 | 0.18980719 | 2.9986627 | 20 | 3 8.1 | 20.5 |
| 338307 2002 $VO_{10}$ | 15.4 | X | 168.53596 | 144.26287 | 232.21135 | 9.13969 | 0.0610498 | 0.19069211 | 2.9893784 | 20 | 3 9.6 | 20.1 |
| 338308 2002 $VB_{17}$ | 17.3 | X | 47.98244 | 203.33339 | 242.28727 | 8.14294 | 0.0566962 | 0.29412139 | 2.2393311 | 20 | — | — |
| 338309 2002 $VR_{17}$ | 17.5 | X | 123.38709 | 260.88486 | 96.70953 | 5.99180 | 0.2072735 | 0.29494324 | 2.2351693 | 20 | 1 1.7 | 20.2 |
| 338310 2002 $VA_{28}$ | 17.2 | X | 353.05412 | 123.56379 | 231.46486 | 17.88091 | 0.0935303 | 0.38385088 | 1.8751140 | 20 | 11 30.8 | 18.5 |
| 338311 2002 $VJ_{31}$ | 15.7 | X | 186.10754 | 127.52465 | 231.30077 | 12.19955 | 0.1899885 | 0.19120321 | 2.9840489 | 20 | 3 8.5 | 21.0 |
| 338312 2002 $VK_{38}$ | 15.2 | X | 323.88915 | 309.68489 | 253.50969 | 8.57712 | 0.0286889 | 0.18762159 | 3.0219053 | 20 | 2 10.1 | 19.6 |
| 338313 2002 $VN_{44}$ | 15.6 | X | 221.18118 | 289.28795 | 77.60215 | 13.28873 | 0.1502870 | 0.19787303 | 2.9166096 | 20 | 4 27.1 | 20.4 |
| 338314 2002 $VU_{53}$ | 17.5 | X | 107.01001 | 292.61543 | 87.42600 | 4.07649 | 0.2434516 | 0.29542901 | 2.2327184 | 20 | 1 16.1 | 19.7 |
| 338315 2002 $VT_{55}$ | 16.0 | X | 140.22473 | 34.78033 | 28.43020 | 5.68109 | 0.2619566 | 0.19133334 | 2.9826957 | 20 | 4 23.7 | 21.0 |
| 338316 2002 $VY_{59}$ | 17.0 | X | 145.78273 | 112.42367 | 230.46549 | 6.01014 | 0.1785672 | 0.29585278 | 2.2305859 | 20 | 1 4.3 | 20.0 |
| 338317 2002 $VU_{66}$ | 17.0 | X | 351.18176 | 93.10564 | 40.80453 | 7.24802 | 0.0826640 | 0.29161732 | 2.2521320 | 20 | — | — |
| 338318 2002 $VG_{68}$ | 17.6 | X | 118.44909 | 263.65254 | 60.85743 | 8.08971 | 0.1440046 | 0.28895746 | 2.2659315 | 20 | — | — |
| 338319 2002 $VO_{77}$ | 15.5 | X | 107.57545 | 179.53686 | 218.64840 | 13.28558 | 0.0960307 | 0.18306451 | 3.0718495 | 20 | 1 31.8 | 20.2 |
| 338320 2002 $VN_{86}$ | 18.1 | X | 323.97491 | 169.82809 | 237.17027 | 17.10200 | 0.0725148 | 0.38747399 | 1.8634068 | 20 | 12 29.2 | 19.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338321 2002 $VR_{90}$ | 16.6 | X | 212.21020 | 41.75510 | 348.04924 | 1.22666 | 0.0539200 | 0.19908671 | 2.9047441 | 20 | 5 16.7 | 20.8 |
| 338322 2002 $VC_{94}$ | 15.4 | X | 141.07333 | 31.55712 | 49.01287 | 10.75268 | 0.0848832 | 0.19255216 | 2.9700958 | 20 | 5 3.4 | 19.7 |
| 338323 2002 $VV_{98}$ | 17.1 | X | 182.46082 | 100.75188 | 218.28026 | 3.17989 | 0.1501799 | 0.29869409 | 2.2164178 | 20 | 1 9.2 | 20.4 |
| 338324 2002 $VL_{102}$ | 17.2 | X | 43.12429 | 16.03899 | 31.69831 | 7.05202 | 0.1165406 | 0.28762282 | 2.2729357 | 20 | — | — |
| 338325 2002 $VZ_{110}$ | 15.5 | X | 233.20883 | 81.67266 | 264.55124 | 10.57422 | 0.2062502 | 0.19978194 | 2.8980012 | 20 | 3 30.9 | 20.6 |
| 338326 2002 $VN_{120}$ | 15.5 | X | 159.50955 | 33.08064 | 27.60812 | 11.92059 | 0.1361871 | 0.19396671 | 2.9556380 | 20 | 4 29.1 | 20.3 |
| 338327 2002 $VD_{124}$ | 15.4 | X | 337.47822 | 270.57541 | 239.86856 | 15.13889 | 0.2096972 | 0.17605934 | 3.1528018 | 20 | — | — |
| 338328 2002 $VQ_{127}$ | 15.4 | X | 73.02117 | 106.01603 | 328.10271 | 13.63597 | 0.2092368 | 0.18196899 | 3.0841663 | 20 | 2 20.4 | 19.3 |
| 338329 2002 $VT_{128}$ | 16.4 | X | 41.05388 | 72.99273 | 211.46586 | 7.27354 | 0.1479388 | 0.21735461 | 2.7396189 | 20 | 9 30.8 | 19.9 |
| 338330 2002 $VT_{131}$ | 16.5 | X | 129.93042 | 24.49326 | 46.83452 | 9.16905 | 0.1613743 | 0.19158687 | 2.9800638 | 20 | 4 18.4 | 21.1 |
| 338331 2002 $VD_{132}$ | 15.8 | X | 161.15585 | 302.00354 | 56.30850 | 10.67687 | 0.1032335 | 0.18625454 | 3.0366737 | 20 | 2 20.9 | 20.6 |
| 338332 2002 $VY_{138}$ | 15.4 | X | 311.75150 | 278.44181 | 247.92520 | 21.70192 | 0.0093146 | 0.17912050 | 3.1167779 | 20 | — | — |
| 338333 2002 $VQ_{141}$ | 12.9 | X | 289.38491 | 61.29694 | 235.86974 | 23.36029 | 0.0945525 | 0.08360995 | 5.1796143 | 20 | 4 20.7 | 19.9 |
| 338334 2002 $VH_{142}$ | 17.8 | X | 326.14016 | 294.78620 | 190.85432 | 4.49149 | 0.1139659 | 0.28563429 | 2.2834727 | 20 | — | — |
| 338335 2002 $WA_{1}$ | 18.4 | X | 354.37070 | 354.66471 | 62.42371 | 21.88660 | 0.1281769 | 0.39316740 | 1.8453739 | 20 | — | — |
| 338336 2002 $WB_{1}$ | 17.1 | X | 57.78567 | 75.31512 | 15.12081 | 7.68308 | 0.3340605 | 0.29034052 | 2.2587298 | 20 | 2 16.4 | 18.0 |
| 338337 2002 $WP_{3}$ | 16.1 | X | 135.20118 | 334.24623 | 70.36225 | 14.85097 | 0.1658356 | 0.18836068 | 3.0139951 | 20 | 3 29.3 | 21.1 |
| 338338 2002 $WJ_{7}$ | 15.9 | X | 122.31302 | 171.89857 | 236.33395 | 5.75370 | 0.1406747 | 0.18644122 | 3.0346463 | 20 | 3 7.6 | 20.5 |
| 338339 2002 $WG_{8}$ | 16.6 | X | 100.26106 | 286.97885 | 155.81584 | 2.69137 | 0.2597214 | 0.18615934 | 3.0377090 | 20 | 4 12.9 | 21.1 |
| 338340 2002 $WZ_{17}$ | 15.8 | X | 137.62016 | 161.14585 | 243.55881 | 9.55727 | 0.1152609 | 0.18823304 | 3.0153575 | 20 | 3 14.9 | 20.5 |
| 338341 2002 $WA_{19}$ | 15.5 | X | 228.08952 | 284.71767 | 32.92915 | 14.38401 | 0.1909538 | 0.19235378 | 2.9721376 | 20 | 3 5.9 | 20.6 |
| 338342 2002 $WV_{19}$ | 17.7 | X | 112.34304 | 138.92325 | 209.46162 | 5.33909 | 0.2252113 | 0.29136549 | 2.2534295 | 20 | — | — |
| 338343 2002 $WY_{19}$ | 13.1 | X | 262.80908 | 91.75257 | 237.91962 | 23.31433 | 0.0201899 | 0.08294188 | 5.2073902 | 20 | 5 8.4 | 20.1 |
| 338344 2002 $WX_{21}$ | 17.4 | X | 131.51043 | 32.73213 | 296.48288 | 5.47308 | 0.2045512 | 0.29106290 | 2.2549910 | 20 | — | — |
| 338345 2002 $WM_{24}$ | 13.6 | X | 250.18956 | 96.62652 | 240.53254 | 22.60278 | 0.1013999 | 0.08387013 | 5.1688966 | 20 | 4 22.0 | 20.8 |
| 338346 2002 $XV_{2}$ | 16.0 | X | 168.89687 | 262.17181 | 137.47040 | 5.57080 | 0.2569892 | 0.19279086 | 2.9676437 | 20 | 4 19.7 | 21.3 |
| 338347 2002 $XG_{4}$ | 18.2 | X | 26.21917 | 238.07443 | 259.45639 | 21.03110 | 0.4797259 | 0.28904506 | 2.2654737 | 20 | — | — |
| 338348 2002 $XY_{11}$ | 17.8 | X | 50.64710 | 24.02601 | 351.04804 | 6.47079 | 0.2533532 | 0.28473039 | 2.2883029 | 20 | — | — |
| 338349 2002 $XR_{15}$ | 15.6 | X | 200.62231 | 53.00983 | 311.52901 | 11.05270 | 0.1958409 | 0.19527770 | 2.9423969 | 20 | 3 25.7 | 20.8 |
| 338350 2002 $XF_{17}$ | 16.1 | X | 160.01545 | 52.85267 | 7.46523 | 9.53334 | 0.2906070 | 0.19189179 | 2.9769060 | 20 | 5 3.7 | 21.5 |
| 338351 2002 $XH_{19}$ | 17.8 | X | 49.03860 | 125.57282 | 274.50417 | 6.02169 | 0.1682449 | 0.28735196 | 2.2743638 | 20 | — | — |
| 338352 2002 $XZ_{22}$ | 17.4 | X | 0.84373 | 46.99860 | 53.41071 | 5.29679 | 0.1724823 | 0.28558876 | 2.2837154 | 20 | — | — |
| 338353 2002 $XE_{24}$ | 16.2 | X | 126.27173 | 22.10197 | 80.08388 | 6.81931 | 0.1899377 | 0.19146537 | 2.9813244 | 20 | 5 24.2 | 20.9 |
| 338354 2002 $XX_{27}$ | 17.0 | X | 40.56582 | 29.21717 | 73.75587 | 9.53493 | 0.1187838 | 0.29227990 | 2.2487271 | 20 | — | — |
| 338355 2002 $XV_{31}$ | 17.6 | X | 45.05014 | 98.20391 | 320.55073 | 3.04019 | 0.2047186 | 0.28755178 | 2.2733101 | 20 | — | — |
| 338356 2002 $XJ_{35}$ | 16.3 | X | 154.79785 | 351.75641 | 38.57498 | 3.59862 | 0.2730630 | 0.19054304 | 2.9909374 | 20 | 3 29.2 | 21.5 |
| 338357 2002 $XA_{39}$ | 15.4 | X | 128.21055 | 334.91599 | 105.85895 | 13.28147 | 0.3282229 | 0.18727124 | 3.0256730 | 20 | 5 14.2 | 20.9 |
| 338358 2002 $XB_{41}$ | 15.0 | X | 121.56970 | 269.69350 | 72.28553 | 16.49458 | 0.2509025 | 0.17842504 | 3.1248716 | 20 | 1 5.2 | 19.9 |
| 338359 2002 $XD_{48}$ | 16.0 | X | 85.22059 | 184.58369 | 259.48806 | 2.91552 | 0.2064351 | 0.18328733 | 3.0693595 | 20 | 3 18.8 | 20.2 |
| 338360 2002 $XO_{50}$ | 15.7 | X | 181.22300 | 291.29345 | 78.49654 | 12.01202 | 0.1345054 | 0.18996066 | 2.9970474 | 20 | 3 27.1 | 20.7 |
| 338361 2002 $XL_{59}$ | 17.1 | X | 134.81747 | 333.42254 | 81.50440 | 5.41394 | 0.1610361 | 0.30010757 | 2.2094529 | 20 | 3 28.7 | 20.1 |
| 338362 2002 $XP_{63}$ | 16.1 | X | 137.15340 | 350.43459 | 73.45892 | 12.25035 | 0.2540201 | 0.18894229 | 3.0078068 | 20 | 4 25.9 | 21.3 |
| 338363 2002 $XV_{73}$ | 15.6 | X | 138.06304 | 23.85911 | 64.08248 | 10.31135 | 0.2026527 | 0.19176561 | 2.9782117 | 20 | 5 18.4 | 20.5 |
| 338364 2002 $XH_{98}$ | 17.2 | X | 24.27746 | 206.59283 | 230.68412 | 6.89536 | 0.1080714 | 0.28746410 | 2.2737723 | 20 | — | — |
| 338365 2002 $XJ_{98}$ | 17.4 | X | 13.61664 | 181.13839 | 262.52789 | 2.95152 | 0.1084129 | 0.28638501 | 2.2794804 | 20 | — | — |
| 338366 2002 $XJ_{99}$ | 16.1 | X | 152.11439 | 341.77954 | 79.63842 | 12.97207 | 0.2089763 | 0.19198106 | 2.9759831 | 20 | 5 2.5 | 21.2 |
| 338367 2002 $XR_{106}$ | 17.2 | X | 45.92473 | 10.11899 | 69.10692 | 6.34067 | 0.0533695 | 0.28954678 | 2.2628559 | 20 | — | — |
| 338368 2002 $XO_{118}$ | 17.3 | X | 280.73504 | 300.37843 | 228.66973 | 8.60838 | 0.1537112 | 0.28336801 | 2.2956315 | 20 | — | — |
| 338369 2002 $XQ_{118}$ | 17.8 | X | 102.86874 | 164.08735 | 237.75268 | 5.88929 | 0.1210350 | 0.29525531 | 2.2335940 | 20 | 1 18.2 | 20.3 |
| 338370 2002 $XW_{118}$ | 17.5 | X | 120.71015 | 95.35896 | 225.63618 | 5.14635 | 0.1987646 | 0.28836562 | 2.2690308 | 20 | — | — |
| 338371 2002 $XO_{119}$ | 16.4 | X | 134.91657 | 256.81723 | 157.55272 | 4.64956 | 0.1756040 | 0.18891770 | 3.0080677 | 20 | 4 3.8 | 21.1 |
| 338372 2002 $XM_{120}$ | 13.5 | X | 272.99570 | 235.67540 | 94.36131 | 10.81865 | 0.0868945 | 0.08440814 | 5.1469091 | 20 | 5 14.7 | 20.4 |
| 338373 Fonóalbert | 15.8 | X | 87.73358 | 351.98428 | 103.85391 | 15.34688 | 0.0699867 | 0.18222046 | 3.0813282 | 20 | 3 26.0 | 20.3 |
| 338374 2002 $YB_{5}$ | 15.8 | X | 152.19430 | 39.82866 | 34.50486 | 20.03633 | 0.2767127 | 0.19007887 | 2.9958047 | 20 | 5 13.2 | 21.2 |
| 338375 2002 $YK_{8}$ | 16.9 | X | 58.79844 | 328.12108 | 92.35676 | 9.60064 | 0.1460719 | 0.28882026 | 2.2666490 | 20 | — | — |
| 338376 2002 $YR_{9}$ | 16.8 | X | 15.28302 | 168.54548 | 262.68823 | 2.98172 | 0.1312878 | 0.28182007 | 2.3040299 | 20 | — | — |
| 338377 2002 $YR_{14}$ | 16.0 | X | 75.25987 | 344.20687 | 105.68834 | 6.10550 | 0.1811633 | 0.17909919 | 3.1170251 | 20 | 3 13.8 | 20.1 |
| 338378 2002 $YM_{21}$ | 17.0 | X | 18.38092 | 206.15872 | 275.69977 | 4.69233 | 0.1168466 | 0.28999658 | 2.2605154 | 20 | — | — |
| 338379 2002 $YD_{22}$ | 15.3 | X | 120.82514 | 110.68564 | 277.40156 | 19.90931 | 0.1968168 | 0.18137343 | 3.0909141 | 20 | 2 12.1 | 20.3 |
| 338380 2002 $YD_{27}$ | 16.3 | X | 152.54265 | 316.46121 | 103.19092 | 6.59416 | 0.2248776 | 0.18919219 | 3.0051575 | 20 | 4 30.0 | 21.5 |
| 338381 2002 $YD_{30}$ | 15.8 | X | 53.35613 | 353.79295 | 114.09653 | 3.92646 | 0.1491690 | 0.17909872 | 3.1170305 | 20 | 2 26.6 | 19.5 |
| 338382 2002 $YO_{34}$ | 15.8 | X | 70.47008 | 32.78747 | 97.17014 | 11.65855 | 0.1030448 | 0.18349886 | 3.0670002 | 20 | 4 18.1 | 20.1 |
| 338383 2002 $YU_{36}$ | 16.2 | X | 182.32437 | 103.54510 | 260.98841 | 11.55301 | 0.1991570 | 0.19145834 | 2.9813973 | 20 | 3 11.0 | 21.5 |
| 338384 2003 $AA_{1}$ | 15.2 | X | 330.94614 | 265.31596 | 286.15536 | 12.47775 | 0.2227796 | 0.17185741 | 3.2039855 | 20 | 1 15.8 | 19.2 |
| 338385 2003 $AL_{1}$ | 16.8 | X | 54.34171 | 263.88381 | 134.13873 | 10.28478 | 0.1896031 | 0.28373073 | 2.2936746 | 20 | — | — |
| 338386 2003 $AJ_{4}$ | 18.0 | X | 21.87117 | 91.45692 | 345.25841 | 2.05556 | 0.2344665 | 0.28453569 | 2.2893466 | 20 | — | — |
| 338387 2003 $AL_{5}$ | 16.5 | X | 72.22314 | 68.83492 | 293.35570 | 10.81257 | 0.1832926 | 0.28162515 | 2.3050929 | 20 | — | — |
| 338388 2003 $AA_{14}$ | 15.3 | X | 120.78470 | 315.84897 | 122.04678 | 13.07187 | 0.3040568 | 0.18398457 | 3.0615999 | 20 | 5 4.4 | 20.7 |
| 338389 2003 $AW_{21}$ | 16.5 | X | 30.64829 | 76.01913 | 335.54434 | 6.00764 | 0.1089967 | 0.28057543 | 2.3108387 | 20 | — | — |
| 338390 2003 $AP_{33}$ | 16.9 | X | 234.41943 | 94.64702 | 110.00111 | 7.33756 | 0.1200026 | 0.27669782 | 2.3323777 | 20 | — | — |
| 338391 2003 $AN_{40}$ | 17.1 | X | 355.22057 | 186.07931 | 268.67456 | 7.08654 | 0.2484095 | 0.28050249 | 2.3112392 | 20 | — | — |
| 338392 2003 $AO_{40}$ | 16.7 | X | 30.23077 | 176.40876 | 251.92234 | 5.53205 | 0.2448397 | 0.28316772 | 2.2967138 | 20 | — | — |
| 338393 2003 $AG_{52}$ | 15.6 | X | 83.53418 | 128.70214 | 333.54598 | 5.38804 | 0.0816285 | 0.18132491 | 3.0914654 | 20 | 3 21.3 | 19.9 |
| 338394 2003 $AV_{53}$ | 16.0 | X | 228.28175 | 327.35979 | 89.68861 | 9.50921 | 0.3189722 | 0.20023040 | 2.8936724 | 20 | 6 17.5 | 21.1 |
| 338395 2003 $AL_{61}$ | 15.3 | X | 25.35247 | 246.11069 | 280.12702 | 24.99827 | 0.1929357 | 0.17934592 | 3.1141657 | 20 | 3 10.6 | 19.4 |
| 338396 2003 $AG_{67}$ | 15.2 | X | 79.79064 | 35.64463 | 80.22858 | 13.38735 | 0.2336066 | 0.18116064 | 3.0933340 | 20 | 5 1.2 | 19.6 |
| 338397 2003 $AW_{77}$ | 15.9 | X | 145.63012 | 58.02644 | 22.64727 | 10.45542 | 0.3606008 | 0.18968693 | 2.9999299 | 20 | 5 21.0 | 21.5 |
| 338398 2003 $AS_{86}$ | 15.4 | X | 115.72568 | 0.95097 | 117.30884 | 13.42758 | 0.2008198 | 0.19044680 | 2.9919450 | 20 | 6 5.5 | 20.3 |
| 338399 2003 $AP_{90}$ | 17.0 | X | 50.85004 | 322.59262 | 77.49945 | 7.11455 | 0.1939506 | 0.28417175 | 2.2913009 | 20 | — | — |
| 338400 2003 $BK$ | 16.1 | X | 30.77097 | 3.16077 | 122.79784 | 2.50671 | 0.1054211 | 0.17534643 | 3.1613417 | 20 | 2 9.7 | 20.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338401 2003 $BZ_4$ | 15.5 | $X$ | 120.83987 | 113.51266 | 281.27195 | 11.14155 | 0.1263140 | 0.17617727 | 3.1513947 | 20 | 2 16.6 | 20.3 |
| 338402 2003 $BH_6$ | 15.3 | $X$ | 84.56843 | 317.52495 | 132.57348 | 18.29146 | 0.1959863 | 0.17915253 | 3.1164064 | 20 | 3 31.9 | 19.8 |
| 338403 2003 $BJ_{11}$ | 17.1 | $X$ | 282.38246 | 61.27549 | 89.51407 | 1.56809 | 0.1558107 | 0.27392124 | 2.3481125 | 20 | — | — |
| 338404 2003 $BK_{14}$ | 16.9 | $X$ | 333.36366 | 199.14131 | 252.26754 | 4.83477 | 0.0917081 | 0.27549128 | 2.3391827 | 20 | — | — |
| 338405 2003 $BB_{19}$ | 15.1 | $X$ | 81.08667 | 143.97900 | 316.76021 | 22.67258 | 0.1547508 | 0.17977402 | 3.1092199 | 20 | 3 16.2 | 19.7 |
| 338406 2003 $BG_{21}$ | 17.0 | $X$ | 121.16711 | 64.30361 | 127.53066 | 25.49382 | 0.0762261 | 0.36992232 | 1.9218922 | 20 | 9 28.6 | 19.9 |
| 338407 2003 $BS_{21}$ | 17.3 | $X$ | 325.06882 | 255.51435 | 129.91043 | 22.73226 | 0.0921851 | 0.37837476 | 1.8931627 | 20 | 12 5.1 | 19.4 |
| 338408 2003 $BL_{28}$ | 14.9 | $X$ | 50.33834 | 145.47426 | 320.90842 | 22.37291 | 0.2266361 | 0.17377999 | 3.1803106 | 20 | 2 23.8 | 18.5 |
| 338409 2003 $BQ_{29}$ | 15.4 | $X$ | 125.31206 | 91.61806 | 299.76244 | 10.88164 | 0.1518188 | 0.17848522 | 3.1241691 | 20 | 2 20.9 | 20.3 |
| 338410 2003 $BB_{32}$ | 17.2 | $X$ | 53.53993 | 98.69866 | 301.38967 | 6.06773 | 0.2581935 | 0.28342911 | 2.2953015 | 20 | — | — |
| 338411 2003 $BH_{33}$ | 15.3 | $X$ | 42.88123 | 228.18112 | 260.56565 | 9.50011 | 0.2236924 | 0.17690236 | 3.1427775 | 20 | 3 9.1 | 18.9 |
| 338412 2003 $BD_{41}$ | 17.2 | $X$ | 59.57191 | 218.30219 | 138.62756 | 5.06635 | 0.0093730 | 0.27308748 | 2.3528895 | 20 | — | — |
| 338413 2003 $BL_{48}$ | 16.2 | $X$ | 83.77939 | 294.68990 | 193.12939 | 1.24238 | 0.2009425 | 0.18240858 | 3.0792093 | 20 | 5 11.9 | 20.3 |
| 338414 2003 $BA_{50}$ | 17.8 | $X$ | 6.91190 | 176.08210 | 280.19956 | 5.74403 | 0.2009002 | 0.28233189 | 2.3012445 | 20 | — | — |
| 338415 2003 $BD_{50}$ | 17.7 | $X$ | 297.83426 | 348.02761 | 159.05808 | 3.01548 | 0.1655315 | 0.27681679 | 2.3317095 | 20 | — | — |
| 338416 2003 $BH_{57}$ | 16.4 | $X$ | 117.64112 | 272.04118 | 169.90607 | 1.32572 | 0.2471223 | 0.18489214 | 3.0515729 | 20 | 4 26.7 | 21.3 |
| 338417 2003 $BY_{59}$ | 15.6 | $X$ | 7.35710 | 45.76875 | 126.33713 | 15.22454 | 0.2247551 | 0.17363287 | 3.1821069 | 20 | 3 1.4 | 18.9 |
| 338418 2003 $BC_{60}$ | 15.3 | $X$ | 68.00774 | 133.53603 | 354.23313 | 16.77667 | 0.1885533 | 0.17888215 | 3.1195459 | 20 | 4 12.7 | 19.5 |
| 338419 2003 $BR_{60}$ | 17.2 | $X$ | 20.96729 | 197.92385 | 247.53851 | 1.79070 | 0.1448886 | 0.28179791 | 2.3041506 | 20 | — | — |
| 338420 2003 $BQ_{62}$ | 15.9 | $X$ | 27.52443 | 165.82046 | 352.94061 | 8.78373 | 0.1838509 | 0.17729772 | 3.1381037 | 20 | 3 20.3 | 19.4 |
| 338421 2003 $BV_{64}$ | 17.3 | $X$ | 238.22975 | 38.10087 | 117.18135 | 3.51206 | 0.1639984 | 0.26798333 | 2.3826716 | 20 | 11 25.2 | 20.2 |
| 338422 2003 $BT_{77}$ | 17.3 | $X$ | 11.75257 | 123.05871 | 330.19950 | 6.24055 | 0.1372114 | 0.28148006 | 2.3058849 | 20 | — | — |
| 338423 2003 $BZ_{84}$ | 15.3 | $X$ | 82.09560 | 117.41791 | 0.37652 | 8.61145 | 0.1016824 | 0.18164820 | 3.0877964 | 20 | 4 10.4 | 19.6 |
| 338424 2003 $BX_{90}$ | 16.1 | $X$ | 102.27087 | 20.94776 | 90.70326 | 14.15212 | 0.2165565 | 0.18491761 | 3.0512927 | 20 | 5 17.8 | 20.8 |
| 338425 2003 $CM_1$ | 15.4 | $X$ | 51.14797 | 128.80151 | 355.58020 | 27.51131 | 0.2534583 | 0.17612837 | 3.1519779 | 20 | 3 23.9 | 19.0 |
| 338426 2003 $CO_2$ | 17.4 | $X$ | 267.68594 | 133.61093 | 322.13942 | 18.78079 | 0.1133788 | 0.37747313 | 1.8961762 | 20 | 11 20.7 | 19.3 |
| 338427 2003 $CV_4$ | 15.7 | $X$ | 29.84177 | 154.39750 | 324.81091 | 15.44367 | 0.1908355 | 0.17469001 | 3.1692561 | 20 | 2 4.3 | 19.0 |
| 338428 2003 $CA_8$ | 16.4 | $X$ | 277.53428 | 193.95581 | 344.90544 | 12.16149 | 0.0936306 | 0.27502091 | 2.3418491 | 20 | — | — |
| 338429 2003 $CB_{10}$ | 15.6 | $X$ | 48.58086 | 343.45336 | 156.36075 | 11.46095 | 0.0991787 | 0.17867952 | 3.1219039 | 20 | 3 26.6 | 19.6 |
| 338430 2003 $CZ_{13}$ | 16.2 | $X$ | 49.98606 | 120.74504 | 12.47524 | 0.88822 | 0.1417884 | 0.17734009 | 3.1376038 | 20 | 3 22.9 | 19.8 |
| 338431 2003 $CP_{14}$ | 17.4 | $X$ | 309.04285 | 326.23720 | 152.24996 | 7.18042 | 0.1496079 | 0.27438101 | 2.3454887 | 20 | — | — |
| 338432 2003 $CU_{17}$ | 17.1 | $X$ | 289.55102 | 198.65769 | 284.97234 | 4.50865 | 0.1228697 | 0.27170053 | 2.3608898 | 20 | — | — |
| 338433 2003 $CK_{25}$ | 15.1 | $X$ | 64.59530 | 55.22254 | 75.32405 | 14.61445 | 0.1595424 | 0.17810138 | 3.1286563 | 20 | 4 19.9 | 19.3 |
| 338434 2003 $CN_{25}$ | 17.0 | $X$ | 206.51934 | 50.09940 | 163.83847 | 11.19248 | 0.1867848 | 0.26744124 | 2.3858903 | 20 | 12 28.2 | 20.5 |
| 338435 2003 $CC_{26}$ | 17.3 | $X$ | 348.98977 | 128.80179 | 355.00499 | 7.10834 | 0.1020512 | 0.28126771 | 2.3070453 | 20 | — | — |
| 338436 2003 $DR_9$ | 16.4 | $X$ | 183.64038 | 53.32661 | 159.26525 | 6.62165 | 0.0877355 | 0.26269573 | 2.4145380 | 20 | 12 12.2 | 19.8 |
| 338437 2003 $DF_{17}$ | 15.4 | $X$ | 116.54233 | 107.44460 | 314.01242 | 10.05562 | 0.0787192 | 0.17781476 | 3.1320174 | 20 | 3 9.2 | 20.1 |
| 338438 2003 $EH_{15}$ | 16.5 | $X$ | 203.73934 | 228.11693 | 308.76798 | 5.87376 | 0.0918931 | 0.26304768 | 2.4123837 | 20 | 11 16.8 | 20.0 |
| 338439 2003 $ER_{15}$ | 17.4 | $X$ | 228.92688 | 256.73746 | 267.90615 | 3.82883 | 0.1833591 | 0.26452519 | 2.4033924 | 20 | 11 20.3 | 20.4 |
| 338440 2003 $EA_{18}$ | 15.8 | $X$ | 52.43388 | 138.81628 | 351.53980 | 10.05702 | 0.1741528 | 0.17624598 | 3.1505755 | 20 | 3 25.6 | 19.6 |
| 338441 2003 $EO_{31}$ | 16.0 | $X$ | 354.03290 | 266.15736 | 238.66065 | 5.63507 | 0.2267924 | 0.16918476 | 3.2376400 | 20 | — | — |
| 338442 2003 $EQ_{33}$ | 17.6 | $X$ | 103.09201 | 90.31794 | 161.45612 | 5.18978 | 0.1129562 | 0.25709337 | 2.4494888 | 20 | 11 6.2 | 21.3 |
| 338443 2003 $EU_{40}$ | 15.1 | $X$ | 0.01000 | 41.83031 | 113.95138 | 15.64742 | 0.1132541 | 0.17070371 | 3.2184054 | 20 | 1 31.3 | 19.2 |
| 338444 2003 $ED_{41}$ | 15.9 | $X$ | 21.79094 | 124.36471 | 36.51174 | 14.61265 | 0.2275685 | 0.17394200 | 3.1783355 | 20 | 3 21.9 | 19.3 |
| 338445 2003 $ET_{47}$ | 16.9 | $X$ | 353.14003 | 275.21157 | 337.76179 | 26.78717 | 0.4264510 | 0.23312503 | 2.6146292 | 20 | 3 28.3 | 18.9 |
| 338446 2003 $EV_{47}$ | 17.3 | $X$ | 281.43127 | 246.06646 | 166.40614 | 24.59403 | 0.1193417 | 0.37158032 | 1.9161709 | 20 | 10 11.9 | 18.8 |
| 338447 2003 $ER_{49}$ | 16.8 | $X$ | 164.66306 | 243.03295 | 14.84236 | 7.72337 | 0.0878770 | 0.26711103 | 2.3878562 | 20 | — | — |
| 338448 2003 $EX_{49}$ | 17.2 | $X$ | 317.05608 | 334.41621 | 130.27853 | 6.89246 | 0.1160855 | 0.27134027 | 2.3629791 | 20 | — | — |
| 338449 2003 $EY_{50}$ | 17.7 | $X$ | 12.79718 | 251.69177 | 17.83461 | 19.87627 | 0.0822770 | 0.35659638 | 1.9694793 | 20 | 8 17.6 | 19.9 |
| 338450 2003 $EG_{55}$ | 16.4 | $X$ | 219.85494 | 264.04260 | 32.38299 | 10.74359 | 0.0556605 | 0.17333180 | 3.1857906 | 20 | 2 7.8 | 21.3 |
| 338451 2003 $EO_{62}$ | 16.4 | $X$ | 174.35885 | 47.10438 | 155.63993 | 14.17595 | 0.1389174 | 0.25739257 | 2.4475902 | 20 | 11 17.6 | 20.4 |
| 338452 2003 $FO_2$ | 17.2 | $X$ | 304.80220 | 113.11469 | 48.67655 | 8.79509 | 0.1387855 | 0.27470554 | 2.3436411 | 20 | — | — |
| 338453 2003 $FY_3$ | 17.3 | $X$ | 187.78058 | 134.77453 | 4.86135 | 22.31532 | 0.1323241 | 0.36905576 | 1.9248995 | 20 | 9 23.7 | 19.5 |
| 338454 2003 $FE_5$ | 15.9 | $X$ | 53.75984 | 197.41903 | 273.43618 | 4.79296 | 0.1478990 | 0.17439293 | 3.1728543 | 20 | 2 27.9 | 19.9 |
| 338455 2003 $FS_5$ | 16.7 | $X$ | 356.78541 | 275.39269 | 356.78217 | 11.37067 | 0.2892767 | 0.23660962 | 2.5888950 | 20 | 7 4.9 | 18.5 |
| 338456 2003 $FO_8$ | 17.4 | $X$ | 141.59797 | 210.46482 | 353.17592 | 19.89611 | 0.0522073 | 0.36988212 | 1.9220314 | 20 | 10 23.9 | 19.9 |
| 338457 2003 $FG_{13}$ | 15.7 | $X$ | 87.11107 | 94.56757 | 348.35708 | 8.81930 | 0.2477870 | 0.17520361 | 3.1630594 | 20 | 3 26.1 | 20.1 |
| 338458 2003 $FE_{20}$ | 16.7 | $X$ | 182.74273 | 156.47113 | 30.64071 | 11.28101 | 0.1661124 | 0.26069821 | 2.4268561 | 20 | 10 31.3 | 20.4 |
| 338459 2003 $FO_{26}$ | 17.2 | $X$ | 286.30687 | 350.06432 | 129.77312 | 2.84879 | 0.1515683 | 0.26735138 | 2.3864248 | 20 | 12 27.7 | 19.1 |
| 338460 2003 $FL_{27}$ | 17.1 | $X$ | 246.03512 | 294.54994 | 203.28093 | 3.12639 | 0.1235868 | 0.26292126 | 2.4131570 | 20 | 11 17.3 | 19.8 |
| 338461 2003 $FE_{34}$ | 17.4 | $X$ | 319.61503 | 308.99116 | 163.66470 | 1.99049 | 0.1727017 | 0.27174239 | 2.3606474 | 20 | — | — |
| 338462 2003 $FS_{48}$ | 17.8 | $X$ | 306.78997 | 309.72198 | 197.58107 | 0.94114 | 0.2602659 | 0.27408590 | 2.3471720 | 20 | — | — |
| 338463 2003 $FX_{60}$ | 15.7 | $X$ | 191.36096 | 5.91290 | 31.13370 | 11.59138 | 0.0071648 | 0.17968057 | 3.1102977 | 20 | 5 2.4 | 20.0 |
| 338464 2003 $FP_{63}$ | 16.9 | $X$ | 257.39576 | 62.55051 | 80.65091 | 5.74580 | 0.1264354 | 0.26521706 | 2.3992109 | 20 | 12 11.7 | 19.4 |
| 338465 2003 $FV_{67}$ | 16.9 | $X$ | 306.99598 | 145.84970 | 17.20536 | 23.36734 | 0.1947667 | 0.27600207 | 2.3362958 | 20 | — | — |
| 338466 2003 $FT_{68}$ | 17.1 | $X$ | 296.83969 | 112.30526 | 47.85004 | 5.37696 | 0.0882542 | 0.27264715 | 2.3554221 | 20 | — | — |
| 338467 2003 $FX_{69}$ | 17.0 | $X$ | 309.18705 | 348.78935 | 150.42853 | 7.35277 | 0.2117987 | 0.27367236 | 2.3495359 | 20 | — | — |
| 338468 2003 $FP_{75}$ | 15.6 | $X$ | 72.43980 | 302.91860 | 165.62683 | 10.37029 | 0.2025247 | 0.17693984 | 3.1423336 | 20 | 4 5.0 | 19.7 |
| 338469 2003 $FY_{76}$ | 17.3 | $X$ | 168.20957 | 177.74829 | 21.54442 | 1.65663 | 0.1287050 | 0.25936144 | 2.4351877 | 20 | 11 4.1 | 21.0 |
| 338470 2003 $FC_{83}$ | 16.7 | $X$ | 243.51719 | 89.04093 | 102.70094 | 4.89356 | 0.1637179 | 0.26742569 | 2.3859827 | 20 | — | — |
| 338471 2003 $FV_{86}$ | 16.7 | $X$ | 18.77807 | 323.66360 | 297.23237 | 4.73698 | 0.2505230 | 0.23995724 | 2.5647605 | 20 | 8 10.6 | 18.8 |
| 338472 2003 $FU_{101}$ | 17.2 | $X$ | 299.96933 | 99.92243 | 18.61757 | 4.98398 | 0.1505661 | 0.26905684 | 2.3763297 | 20 | — | — |
| 338473 2003 $FG_{112}$ | 15.7 | $X$ | 102.65216 | 97.82853 | 351.62392 | 12.97289 | 0.2285057 | 0.17748727 | 3.1358690 | 20 | 4 14.6 | 20.6 |
| 338474 2003 $FR_{127}$ | 15.6 | $X$ | 70.82946 | 92.09054 | 15.04195 | 14.63088 | 0.2925525 | 0.17574864 | 3.1565166 | 20 | 4 11.6 | 19.6 |
| 338475 2003 $FF_{131}$ | 17.7 | $X$ | 255.10336 | 110.96655 | 83.94732 | 1.78557 | 0.1556527 | 0.27122837 | 2.3636290 | 20 | — | — |
| 338476 2003 $GF_{40}$ | 17.0 | $X$ | 178.89675 | 157.72801 | 60.09120 | 5.86640 | 0.1081895 | 0.26231670 | 2.4168633 | 20 | 12 10.5 | 20.4 |
| 338477 2003 $GQ_{49}$ | 17.0 | $X$ | 190.40820 | 78.07125 | 116.33673 | 3.60535 | 0.0623055 | 0.25920035 | 2.4361966 | 20 | 11 28.8 | 20.2 |
| 338478 2003 $GS_{53}$ | 17.7 | $X$ | 145.79664 | 332.92931 | 185.62425 | 21.73044 | 0.0677454 | 0.36484720 | 1.9396738 | 20 | 8 27.8 | 20.3 |
| 338479 2003 $HO$ | 17.4 | $X$ | 203.69146 | 344.83467 | 230.43358 | 1.80196 | 0.1418250 | 0.26426560 | 2.4049661 | 20 | 12 31.7 | 20.6 |
| 338480 2003 $HD_2$ | 17.9 | $X$ | 238.17139 | 68.79755 | 44.55553 | 21.70665 | 0.0846619 | 0.36937719 | 1.9237826 | 20 | 11 3.2 | 19.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338481 2003 $HA_4$ | 17.1 | X | 187.30268 | 171.83795 | 29.78872 | 4.97326 | 0.1320209 | 0.25894919 | 2.4377716 | 20 | 11 25.6 | 20.8 |
| 338482 2003 $HH_4$ | 15.5 | X | 1.21938 | 133.82539 | 26.86247 | 14.81759 | 0.2128159 | 0.16767037 | 3.2571055 | 20 | 2 7.9 | 19.3 |
| 338483 2003 $HY_{10}$ | 17.7 | X | 251.30235 | 211.97653 | 199.68025 | 21.87155 | 0.0957360 | 0.36334695 | 1.9450094 | 20 | 8 3.4 | 20.3 |
| 338484 2003 $HO_{14}$ | 17.1 | X | 49.12107 | 162.81971 | 78.93105 | 23.87234 | 0.0539965 | 0.35636218 | 1.9703422 | 20 | 8 30.9 | 19.8 |
| 338485 2003 $HU_{38}$ | 17.3 | X | 111.99796 | 219.09873 | 46.13560 | 2.63774 | 0.1785194 | 0.25403363 | 2.4691184 | 20 | 12 2.1 | 21.3 |
| 338486 2003 $HY_{38}$ | 16.9 | X | 199.47241 | 4.66699 | 224.45635 | 9.76520 | 0.1994786 | 0.26356351 | 2.4092352 | 20 | — | — |
| 338487 2003 $HZ_{38}$ | 16.3 | X | 38.39392 | 207.97611 | 36.81352 | 13.23853 | 0.1151825 | 0.23980223 | 2.5658656 | 20 | 8 8.1 | 19.6 |
| 338488 2003 $HF_{43}$ | 16.9 | X | 49.62564 | 209.00516 | 39.41153 | 7.74189 | 0.1648041 | 0.24189623 | 2.5510363 | 20 | 9 6.1 | 20.2 |
| 338489 2003 $JZ_4$ | 15.0 | X | 51.88320 | 105.35935 | 37.11110 | 26.23191 | 0.2919390 | 0.17499679 | 3.1655510 | 20 | 4 28.9 | 18.7 |
| 338490 2003 $KS_{12}$ | 17.2 | X | 20.89018 | 102.44163 | 194.39960 | 7.96183 | 0.1930334 | 0.24260256 | 2.5460824 | 20 | 9 29.5 | 19.8 |
| 338491 2003 $KA_{19}$ | 16.8 | X | 300.15937 | 96.59546 | 203.15267 | 11.86069 | 0.3386112 | 0.22332198 | 2.6905955 | 20 | 3 25.5 | 20.6 |
| 338492 2003 $KC_{31}$ | 18.2 | X | 321.23782 | 111.76309 | 189.93732 | 12.45445 | 0.2819874 | 0.23128701 | 2.6284632 | 20 | 5 12.3 | 20.9 |
| 338493 2003 $LL_9$ | 17.0 | X | 277.94943 | 178.35514 | 150.84575 | 7.79390 | 0.2908756 | 0.22347777 | 2.6893449 | 20 | 4 18.3 | 21.1 |
| 338494 2003 $MD_6$ | 15.4 | X | 338.22069 | 112.32152 | 255.09938 | 13.84301 | 0.1255958 | 0.23942932 | 2.5685291 | 20 | 10 8.9 | 18.4 |
| 338495 2003 $NU_1$ | 16.2 | X | 333.19048 | 168.57123 | 119.70839 | 12.84061 | 0.2276526 | 0.22790093 | 2.6544343 | 20 | 5 28.8 | 18.9 |
| 338496 2003 $NJ_{12}$ | 16.4 | X | 271.99425 | 228.34877 | 151.35615 | 7.10299 | 0.1882239 | 0.22771200 | 2.6559023 | 20 | 6 27.9 | 20.1 |
| 338497 2003 $OC_{12}$ | 16.7 | X | 19.90499 | 72.42227 | 222.00616 | 12.39272 | 0.1982988 | 0.23543605 | 2.5974911 | 20 | 9 19.9 | 19.7 |
| 338498 2003 $OD_{14}$ | 17.0 | X | 311.63234 | 82.91582 | 237.89239 | 11.56119 | 0.2877952 | 0.22691986 | 2.6620797 | 20 | 5 19.2 | 20.0 |
| 338499 2003 $OT_{14}$ | 16.5 | X | 282.15074 | 109.62373 | 242.13439 | 11.72101 | 0.2123000 | 0.22488828 | 2.6780879 | 20 | 5 30.8 | 20.2 |
| 338500 2003 $OO_{16}$ | 16.4 | X | 354.08416 | 54.31250 | 240.44145 | 11.50859 | 0.1242313 | 0.23114704 | 2.6295242 | 20 | 7 22.8 | 19.4 |
| 338501 2003 $OW_{24}$ | 16.2 | X | 82.82983 | 331.82838 | 294.05301 | 11.34526 | 0.0598869 | 0.24151156 | 2.5537444 | 20 | 10 16.9 | 20.1 |
| 338502 2003 $PJ_9$ | 15.9 | X | 255.99272 | 81.62701 | 310.40782 | 13.23877 | 0.1447786 | 0.22563901 | 2.6721444 | 20 | 7 2.3 | 19.7 |
| 338503 2003 $PO_{11}$ | 16.4 | X | 331.85161 | 122.04817 | 193.69618 | 13.27772 | 0.2091625 | 0.22949936 | 2.6420948 | 20 | 7 5.5 | 19.2 |
| 338504 2003 $PW_{11}$ | 16.3 | X | 333.66535 | 29.72795 | 273.24637 | 12.49433 | 0.2579938 | 0.22895164 | 2.6463069 | 20 | 6 15.1 | 18.3 |
| 338505 2003 $PB_{12}$ | 16.7 | X | 333.65418 | 24.16791 | 278.99849 | 5.06805 | 0.1838186 | 0.22821049 | 2.6520333 | 20 | 6 24.3 | 19.1 |
| 338506 2003 $QO_5$ | 16.3 | X | 302.63936 | 45.53602 | 327.52649 | 11.01896 | 0.1942357 | 0.23049126 | 2.6345093 | 20 | 8 6.9 | 19.1 |
| 338507 2003 $QV_7$ | 16.9 | X | 325.75505 | 329.67336 | 344.30648 | 4.55245 | 0.2432502 | 0.22764219 | 2.6564453 | 20 | 6 15.0 | 19.3 |
| 338508 2003 $QS_{14}$ | 16.7 | X | 356.12809 | 79.16138 | 198.13740 | 12.17283 | 0.2632771 | 0.22873670 | 2.6479645 | 20 | 7 5.3 | 18.9 |
| 338509 2003 $QN_{17}$ | 16.6 | X | 265.95892 | 345.28047 | 19.80672 | 2.78884 | 0.2846954 | 0.22301312 | 2.6930791 | 20 | 5 19.0 | 20.8 |
| 338510 2003 $QY_{21}$ | 16.8 | X | 341.05010 | 342.91815 | 302.86440 | 7.36502 | 0.2696928 | 0.22724998 | 2.6595009 | 20 | 6 3.8 | 18.8 |
| 338511 2003 $QS_{22}$ | 17.2 | X | 304.39190 | 123.92730 | 177.26311 | 9.28327 | 0.3138526 | 0.22315166 | 2.6919644 | 20 | 4 8.1 | 20.7 |
| 338512 2003 $QL_{29}$ | 15.9 | X | 148.81673 | 3.36856 | 178.15049 | 13.62773 | 0.0117116 | 0.23631694 | 2.5910322 | 20 | 9 19.5 | 19.2 |
| 338513 2003 $QD_{32}$ | 16.8 | X | 273.28472 | 181.30510 | 163.91799 | 4.92315 | 0.1953315 | 0.22258906 | 2.6964984 | 20 | 5 14.8 | 20.6 |
| 338514 2003 $QR_{41}$ | 16.3 | X | 338.99905 | 310.09039 | 350.19953 | 11.11697 | 0.2715616 | 0.22735567 | 2.6586767 | 20 | 6 24.7 | 18.5 |
| 338515 2003 $QU_{48}$ | 16.3 | X | 232.79885 | 352.24649 | 359.52535 | 15.43393 | 0.3177477 | 0.21577968 | 2.7529333 | 20 | 4 1.5 | 21.2 |
| 338516 2003 $QT_{49}$ | 16.3 | X | 297.39669 | 350.62089 | 342.20323 | 13.57178 | 0.1828757 | 0.22543072 | 2.6737901 | 20 | 5 27.7 | 20.0 |
| 338517 2003 $QP_{53}$ | 16.2 | X | 341.43947 | 338.79112 | 345.66576 | 12.62415 | 0.1748570 | 0.23066724 | 2.6331692 | 20 | 8 19.3 | 18.6 |
| 338518 2003 $QG_{60}$ | 16.7 | X | 302.87731 | 171.32599 | 154.11928 | 6.88105 | 0.2281725 | 0.22358720 | 2.6884673 | 20 | 5 23.7 | 20.0 |
| 338519 2003 $QE_{61}$ | 16.8 | X | 292.92767 | 160.66221 | 163.05681 | 17.35463 | 0.2907686 | 0.22205922 | 2.7007861 | 20 | 4 29.7 | 20.8 |
| 338520 2003 $QN_{66}$ | 16.2 | X | 267.30306 | 251.37380 | 143.76757 | 13.10535 | 0.1900034 | 0.22770635 | 2.6559463 | 20 | 7 12.1 | 19.9 |
| 338521 2003 $QV_{81}$ | 16.2 | X | 257.78443 | 237.58477 | 137.61836 | 12.98907 | 0.1802651 | 0.22422998 | 2.6833270 | 20 | 6 7.9 | 20.4 |
| 338522 2003 $QS_{85}$ | 16.4 | X | 225.66008 | 76.53680 | 307.15280 | 7.27801 | 0.2201056 | 0.21719708 | 2.7409434 | 20 | 5 9.7 | 21.2 |
| 338523 2003 $QR_{89}$ | 16.2 | X | 325.92886 | 304.85864 | 309.98392 | 17.69938 | 0.4087107 | 0.22277015 | 2.6950369 | 20 | 2 16.2 | 19.6 |
| 338524 2003 $QB_{97}$ | 17.4 | X | 17.22933 | 294.64787 | 326.74295 | 1.40832 | 0.2491892 | 0.22992244 | 2.6388527 | 20 | 8 7.2 | 19.7 |
| 338525 2003 $QX_{108}$ | 16.2 | X | 291.10389 | 188.24103 | 123.68016 | 9.08873 | 0.1804904 | 0.22199561 | 2.7013019 | 20 | 4 28.2 | 19.9 |
| 338526 2003 $QD_{115}$ | 16.5 | X | 302.10756 | 84.96236 | 216.61175 | 13.51320 | 0.0607502 | 0.22220726 | 2.6995863 | 20 | 5 14.9 | 19.9 |
| 338527 2003 $QH_{115}$ | 16.9 | X | 307.34874 | 109.59457 | 194.08121 | 12.15506 | 0.2721427 | 0.22278467 | 2.6949198 | 20 | 4 22.3 | 20.1 |
| 338528 2003 $RG_2$ | 16.3 | X | 260.00048 | 9.54022 | 359.61572 | 18.52549 | 0.3506626 | 0.22209595 | 2.7004883 | 20 | 5 4.9 | 21.1 |
| 338529 2003 $RO_{14}$ | 16.1 | X | 265.22652 | 40.13136 | 311.06338 | 8.58201 | 0.2519731 | 0.22046360 | 2.7138017 | 20 | 5 1.6 | 20.4 |
| 338530 2003 $RO_{16}$ | 16.6 | X | 325.10795 | 302.32927 | 333.33483 | 9.51732 | 0.2352466 | 0.22210343 | 2.7004276 | 20 | 4 12.9 | 19.6 |
| 338531 2003 $RX_{16}$ | 17.1 | X | 17.33050 | 99.99108 | 201.45420 | 3.37537 | 0.2349955 | 0.23402331 | 2.6079342 | 20 | 10 5.3 | 19.8 |
| 338532 2003 $RO_{19}$ | 17.0 | X | 19.52878 | 346.18080 | 311.30233 | 3.98952 | 0.2383144 | 0.23377879 | 2.6097524 | 20 | 10 2.2 | 19.7 |
| 338533 2003 $RJ_{22}$ | 15.8 | X | 267.66829 | 59.07842 | 309.30766 | 15.00965 | 0.1845468 | 0.22247040 | 2.6974571 | 20 | 6 7.4 | 19.9 |
| 338534 2003 $RJ_{23}$ | 16.2 | X | 204.17372 | 205.40966 | 216.48089 | 9.17389 | 0.2709830 | 0.21767953 | 2.7368919 | 20 | 6 8.3 | 21.2 |
| 338535 2003 $RC_{25}$ | 15.5 | X | 232.33709 | 125.32006 | 262.74882 | 9.92649 | 0.0623122 | 0.22051752 | 2.7133593 | 20 | 6 6.9 | 19.4 |
| 338536 2003 $RH_{25}$ | 16.1 | X | 283.65428 | 62.04192 | 258.89656 | 10.29739 | 0.1741441 | 0.22044237 | 2.7139760 | 20 | 4 24.7 | 20.0 |
| 338537 2003 $SX_4$ | 16.2 | X | 270.86943 | 150.65961 | 216.13634 | 10.18802 | 0.1187405 | 0.22158652 | 2.7046256 | 20 | 6 19.1 | 20.0 |
| 338538 2003 $SW_7$ | 16.3 | X | 354.08932 | 123.67335 | 188.41312 | 13.78726 | 0.1049509 | 0.22918358 | 2.6445212 | 20 | 8 17.3 | 19.5 |
| 338539 2003 $SD_8$ | 17.3 | X | 263.58902 | 157.63136 | 195.62689 | 2.60670 | 0.1223927 | 0.21924507 | 2.7238478 | 20 | 5 22.9 | 21.0 |
| 338540 2003 $SR_{10}$ | 16.9 | X | 259.05423 | 71.31590 | 232.15478 | 1.74898 | 0.1643064 | 0.21216978 | 2.7840714 | 20 | 3 9.9 | 21.3 |
| 338541 2003 $SE_{12}$ | 16.9 | X | 287.49702 | 12.85753 | 359.57558 | 2.14644 | 0.1986321 | 0.22630613 | 2.6668904 | 20 | 7 8.6 | 20.2 |
| 338542 2003 $SO_{22}$ | 16.1 | X | 226.05665 | 170.34288 | 207.17523 | 5.52588 | 0.0488239 | 0.21439543 | 2.7647702 | 20 | 5 18.5 | 20.1 |
| 338543 2003 $SZ_{23}$ | 16.1 | X | 316.75020 | 348.07953 | 356.93157 | 14.26031 | 0.1352263 | 0.22827328 | 2.6515470 | 20 | 8 4.3 | 19.2 |
| 338544 2003 $SW_{28}$ | 16.4 | X | 319.69398 | 30.41030 | 310.70525 | 8.01072 | 0.0256637 | 0.22561677 | 2.6723200 | 20 | 8 6.9 | 19.9 |
| 338545 2003 $ST_{34}$ | 17.0 | X | 237.45722 | 190.19146 | 207.49573 | 6.45790 | 0.1449555 | 0.22195574 | 2.7016253 | 20 | 6 16.6 | 21.1 |
| 338546 2003 $SB_{35}$ | 17.0 | X | 279.17202 | 27.29787 | 351.12402 | 0.77812 | 0.1476631 | 0.22451935 | 2.6810209 | 20 | 7 12.7 | 20.3 |
| 338547 2003 $SF_{35}$ | 17.3 | X | 253.01728 | 337.15521 | 55.70827 | 1.15968 | 0.0718392 | 0.22289298 | 2.6940467 | 20 | 7 8.6 | 21.0 |
| 338548 2003 $SR_{40}$ | 15.7 | X | 270.83243 | 141.00881 | 218.69626 | 13.60275 | 0.2151925 | 0.22073999 | 2.7115360 | 20 | 5 27.3 | 19.7 |
| 338549 2003 $SV_{40}$ | 16.1 | X | 188.13271 | 158.04688 | 248.77057 | 12.75206 | 0.1889631 | 0.21193608 | 2.7861177 | 20 | 5 8.9 | 20.9 |
| 338550 2003 $SW_{47}$ | 16.0 | X | 275.94812 | 149.91402 | 197.89947 | 11.49248 | 0.1973966 | 0.22264477 | 2.6960486 | 20 | 5 21.1 | 19.8 |
| 338551 2003 $SR_{49}$ | 15.8 | X | 352.91655 | 280.35725 | 355.47588 | 12.37962 | 0.1723881 | 0.22303290 | 2.6929199 | 20 | 6 26.1 | 18.7 |
| 338552 2003 $SJ_{53}$ | 15.7 | X | 261.19763 | 88.00015 | 282.22642 | 12.42325 | 0.1312812 | 0.22323871 | 2.6912645 | 20 | 6 9.9 | 19.6 |
| 338553 2003 $SK_{53}$ | 17.9 | X | 324.76997 | 97.06581 | 210.61673 | 10.64039 | 0.3584302 | 0.22797571 | 2.6538538 | 20 | 5 12.9 | 20.1 |
| 338554 2003 $SD_{57}$ | 16.7 | X | 289.68127 | 157.36122 | 179.78271 | 14.58443 | 0.1474269 | 0.22249340 | 2.6972713 | 20 | 6 2.3 | 20.5 |
| 338555 2003 $SJ_{58}$ | 15.8 | X | 348.01670 | 16.86726 | 316.99159 | 21.55273 | 0.0620597 | 0.23218012 | 2.6217183 | 20 | 9 1.4 | 19.2 |
| 338556 2003 $SF_{59}$ | 16.5 | X | 279.33422 | 79.41078 | 295.54549 | 11.11284 | 0.2076228 | 0.22575176 | 2.6712546 | 20 | 6 29.0 | 20.1 |
| 338557 2003 $SJ_{59}$ | 15.6 | X | 314.56989 | 49.15988 | 279.74805 | 13.31411 | 0.1153756 | 0.22706197 | 2.6609688 | 20 | 7 3.7 | 18.5 |
| 338558 2003 $SA_{60}$ | 16.1 | X | 259.59265 | 315.30928 | 15.70545 | 12.70485 | 0.1845617 | 0.21759630 | 2.7375898 | 20 | 4 10.8 | 20.4 |
| 338559 2003 $SW_{61}$ | 16.3 | X | 281.45232 | 353.18495 | 11.45339 | 14.57768 | 0.2508562 | 0.22432982 | 2.6825308 | 20 | 6 7.5 | 20.3 |
| 338560 2003 $SD_{62}$ | 16.5 | X | 190.95001 | 129.92131 | 250.04130 | 6.94979 | 0.1855179 | 0.21161836 | 2.7889056 | 20 | 4 7.3 | 21.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338561 2003 $SF_{65}$ | 15.9 | X | 281.54077 | 78.93443 | 268.93733 | 10.20590 | 0.0991413 | 0.22347464 | 2.6893700 | 20 | 6 11.5 | 19.3 |
| 338562 2003 $SQ_{65}$ | 17.0 | X | 321.46597 | 107.61896 | 202.98826 | 12.35444 | 0.2831879 | 0.22691218 | 2.6621397 | 20 | 5 25.4 | 19.7 |
| 338563 2003 $SH_{71}$ | 16.4 | X | 259.35369 | 141.02390 | 239.04740 | 7.52026 | 0.1396232 | 0.22225262 | 2.6992190 | 20 | 6 19.2 | 20.3 |
| 338564 2003 $SR_{73}$ | 16.9 | X | 293.21154 | 13.65656 | 347.56887 | 5.82219 | 0.0508739 | 0.22458133 | 2.6805276 | 20 | 7 26.1 | 20.3 |
| 338565 2003 $SN_{81}$ | 15.9 | X | 292.70635 | 318.65274 | 24.39190 | 13.97866 | 0.1478583 | 0.22107323 | 2.7088104 | 20 | 6 10.8 | 19.5 |
| 338566 2003 $SW_{81}$ | 16.9 | X | 289.45439 | 345.43058 | 45.12601 | 3.63981 | 0.2551509 | 0.22706666 | 2.6609322 | 20 | 7 28.7 | 20.1 |
| 338567 2003 $SJ_{84}$ | 19.5 | X | 357.74461 | 307.03431 | 183.07574 | 36.66255 | 0.2838904 | 0.43016992 | 1.7379716 | 20 | — | — |
| 338568 2003 $SD_{85}$ | 16.4 | X | 12.99175 | 44.07882 | 236.60979 | 13.13969 | 0.0990754 | 0.22773347 | 2.6557354 | 20 | 8 2.0 | 19.8 |
| 338569 2003 $ST_{85}$ | 16.4 | X | 249.23339 | 141.27199 | 212.25826 | 6.50244 | 0.2538125 | 0.21656893 | 2.7462408 | 20 | 4 22.9 | 20.8 |
| 338570 2003 $SD_{86}$ | 15.7 | X | 105.85488 | 216.18818 | 297.23451 | 12.92736 | 0.0178219 | 0.21810458 | 2.7333350 | 20 | 6 16.1 | 19.5 |
| 338571 2003 $SR_{86}$ | 15.5 | X | 271.97263 | 92.96745 | 257.86814 | 6.93516 | 0.2133578 | 0.21986400 | 2.7187334 | 20 | 5 16.1 | 19.4 |
| 338572 2003 $SJ_{92}$ | 17.5 | X | 278.60933 | 143.17704 | 213.39221 | 2.50926 | 0.0956192 | 0.22130645 | 2.7069070 | 20 | 6 19.8 | 21.2 |
| 338573 2003 $SL_{94}$ | 15.6 | X | 290.15025 | 312.32835 | 10.98449 | 9.06699 | 0.1805465 | 0.21804636 | 2.7338215 | 20 | 5 5.5 | 19.3 |
| 338574 2003 $SZ_{104}$ | 15.9 | X | 173.15214 | 132.27256 | 270.93421 | 8.92406 | 0.1415562 | 0.21114000 | 2.7931164 | 20 | 4 18.3 | 20.6 |
| 338575 2003 $SV_{107}$ | 16.4 | X | 286.59170 | 80.89987 | 263.26770 | 4.03874 | 0.1546638 | 0.22063906 | 2.7123628 | 20 | 6 4.5 | 19.8 |
| 338576 2003 $SK_{108}$ | 15.7 | X | 319.74494 | 308.89919 | 4.79269 | 14.39415 | 0.2128737 | 0.22271656 | 2.6954692 | 20 | 6 2.9 | 18.9 |
| 338577 2003 $SS_{111}$ | 16.4 | X | 249.55180 | 230.97436 | 147.71323 | 14.77168 | 0.2806465 | 0.21906014 | 2.7253805 | 20 | 5 25.4 | 21.1 |
| 338578 2003 $SU_{111}$ | 17.4 | X | 248.39315 | 23.02625 | 13.31728 | 6.12349 | 0.0516702 | 0.22362362 | 2.6881754 | 20 | 7 11.3 | 21.1 |
| 338579 2003 $SB_{112}$ | 15.3 | X | 265.39559 | 314.48729 | 27.20097 | 14.90126 | 0.2137247 | 0.21785148 | 2.7354517 | 20 | 4 26.2 | 19.4 |
| 338580 2003 $SX_{120}$ | 15.6 | X | 229.99061 | 323.65843 | 73.37186 | 11.17441 | 0.2409314 | 0.21795575 | 2.7345791 | 20 | 5 31.0 | 20.0 |
| 338581 2003 $SE_{121}$ | 17.3 | X | 280.16817 | 75.45928 | 250.02342 | 4.63423 | 0.1556684 | 0.21985205 | 2.7188320 | 20 | 4 30.8 | 21.2 |
| 338582 2003 $SJ_{125}$ | 16.4 | X | 266.26777 | 118.93654 | 263.82860 | 5.06721 | 0.0477439 | 0.22213259 | 2.7001913 | 20 | 7 15.5 | 20.0 |
| 338583 2003 $SO_{126}$ | 16.0 | X | 266.02254 | 171.13283 | 206.81086 | 12.06825 | 0.0848329 | 0.22200859 | 2.7011966 | 20 | 7 1.8 | 19.9 |
| 338584 2003 $SA_{134}$ | 15.7 | X | 270.63616 | 77.14608 | 6.90980 | 28.21027 | 0.0581413 | 0.23404801 | 2.6077507 | 20 | 10 8.6 | 19.0 |
| 338585 2003 $SR_{139}$ | 16.5 | X | 19.61410 | 192.67757 | 98.05784 | 6.61962 | 0.2087762 | 0.23194031 | 2.6235252 | 20 | 9 23.3 | 19.3 |
| 338586 2003 $ST_{139}$ | 16.2 | X | 219.59552 | 231.75960 | 193.76189 | 12.93058 | 0.0719062 | 0.22174443 | 2.7033414 | 20 | 7 8.3 | 20.4 |
| 338587 2003 $SZ_{142}$ | 15.7 | X | 283.46818 | 92.63867 | 262.20342 | 9.00386 | 0.1048259 | 0.22052262 | 2.7133175 | 20 | 6 22.6 | 19.1 |
| 338588 2003 $SA_{144}$ | 16.8 | X | 264.04942 | 72.70327 | 323.04980 | 4.15874 | 0.2278765 | 0.22247171 | 2.6974466 | 20 | 7 4.0 | 20.6 |
| 338589 2003 $SP_{144}$ | 16.0 | X | 301.25765 | 357.68383 | 332.18372 | 13.76353 | 0.1706852 | 0.22205969 | 2.7007822 | 20 | 6 1.9 | 19.6 |
| 338590 2003 $SK_{145}$ | 15.7 | X | 267.01498 | 51.41963 | 300.09197 | 14.40231 | 0.1758328 | 0.22011218 | 2.7166895 | 20 | 5 13.3 | 19.9 |
| 338591 2003 $SW_{145}$ | 16.9 | X | 210.12861 | 95.14821 | 279.24853 | 10.62083 | 0.2419212 | 0.21327721 | 2.7744256 | 20 | 4 12.9 | 21.9 |
| 338592 2003 $SA_{148}$ | 16.3 | X | 351.53988 | 187.47183 | 133.38833 | 15.22637 | 0.2899138 | 0.23266294 | 2.6180900 | 20 | 9 19.0 | 18.3 |
| 338593 2003 $SH_{150}$ | 16.3 | X | 223.44650 | 331.12338 | 46.20623 | 8.85356 | 0.2173266 | 0.21594595 | 2.7515200 | 20 | 5 2.8 | 20.8 |
| 338594 2003 $SM_{150}$ | 16.3 | X | 289.10730 | 244.60347 | 78.61535 | 7.34917 | 0.2652437 | 0.22148575 | 2.7054459 | 20 | 4 26.4 | 20.1 |
| 338595 2003 $SO_{150}$ | 16.1 | X | 248.39423 | 241.65547 | 79.04662 | 8.79933 | 0.3228944 | 0.21504181 | 2.7592271 | 20 | 3 13.9 | 21.1 |
| 338596 2003 $SB_{157}$ | 16.2 | X | 268.42220 | 225.23067 | 183.48841 | 17.79449 | 0.2059451 | 0.22535906 | 2.6743569 | 20 | 7 26.7 | 20.2 |
| 338597 2003 $SB_{159}$ | 16.6 | X | 247.74573 | 216.52902 | 184.20279 | 5.05666 | 0.1745934 | 0.22332954 | 2.6905347 | 20 | 6 28.2 | 20.7 |
| 338598 2003 $SZ_{165}$ | 16.0 | X | 295.59685 | 50.75033 | 298.87348 | 9.42994 | 0.1584042 | 0.22330262 | 2.6907509 | 20 | 6 25.8 | 19.3 |
| 338599 2003 $SX_{168}$ | 16.1 | X | 280.12695 | 255.15601 | 131.10521 | 13.18051 | 0.1941590 | 0.22565861 | 2.6719897 | 20 | 7 16.9 | 19.6 |
| 338600 2003 $ST_{170}$ | 16.6 | X | 246.38113 | 17.50323 | 44.11061 | 3.74414 | 0.2218964 | 0.22235737 | 2.6983712 | 20 | 7 19.4 | 20.8 |
| 338601 2003 $SS_{173}$ | 16.7 | X | 306.18542 | 355.09035 | 325.53097 | 4.99081 | 0.1630693 | 0.22188109 | 2.7022313 | 20 | 5 30.3 | 20.1 |
| 338602 2003 $SX_{174}$ | 16.9 | X | 263.43619 | 353.37789 | 357.67755 | 3.46898 | 0.1923047 | 0.21954862 | 2.7213364 | 20 | 5 9.1 | 21.0 |
| 338603 2003 $ST_{180}$ | 16.1 | X | 236.55399 | 246.69004 | 164.51697 | 7.29895 | 0.0808616 | 0.22210511 | 2.7004140 | 20 | 7 10.1 | 19.9 |
| 338604 2003 $SM_{187}$ | 15.9 | X | 252.82644 | 99.98551 | 252.86866 | 8.35522 | 0.0964130 | 0.21661805 | 2.7458256 | 20 | 5 11.6 | 19.7 |
| 338605 2003 $SO_{187}$ | 16.4 | X | 7.41773 | 235.37795 | 25.63542 | 9.76428 | 0.0967200 | 0.22141162 | 2.7060498 | 20 | 6 30.1 | 19.7 |
| 338606 2003 $SM_{189}$ | 16.5 | X | 213.44134 | 54.24522 | 1.16401 | 8.50112 | 0.2950981 | 0.21538254 | 2.7563163 | 20 | 6 4.7 | 21.6 |
| 338607 2003 $SQ_{189}$ | 16.8 | X | 336.60139 | 110.80752 | 202.10399 | 11.27982 | 0.1806519 | 0.22797919 | 2.6538268 | 20 | 7 13.8 | 19.6 |
| 338608 2003 $SN_{197}$ | 16.3 | X | 322.77233 | 308.94891 | 9.98246 | 11.36928 | 0.1050115 | 0.22379434 | 2.6868081 | 20 | 7 6.5 | 19.7 |
| 338609 2003 $SF_{198}$ | 15.9 | X | 186.51635 | 183.81218 | 234.70461 | 12.16784 | 0.1442582 | 0.21281438 | 2.7784467 | 20 | 5 23.3 | 20.2 |
| 338610 2003 $ST_{198}$ | 15.9 | X | 220.80116 | 154.74125 | 216.28690 | 14.87817 | 0.1931789 | 0.21305788 | 2.7763293 | 20 | 4 23.8 | 20.4 |
| 338611 2003 $SW_{202}$ | 17.1 | X | 251.43399 | 13.95405 | 357.30395 | 8.04748 | 0.1777028 | 0.22002131 | 2.7174374 | 20 | 5 22.6 | 21.3 |
| 338612 2003 $SY_{208}$ | 16.7 | X | 289.40819 | 149.87057 | 204.05671 | 11.29564 | 0.2521260 | 0.22362665 | 2.6881511 | 20 | 6 6.7 | 20.3 |
| 338613 2003 $SQ_{209}$ | 16.3 | X | 262.77944 | 195.86947 | 206.17117 | 6.61114 | 0.1860482 | 0.22447865 | 2.6813450 | 20 | 7 15.0 | 20.1 |
| 338614 2003 $SF_{211}$ | 16.3 | X | 353.19816 | 290.86550 | 19.13506 | 13.76998 | 0.1909165 | 0.23026499 | 2.6362349 | 20 | 8 28.7 | 18.9 |
| 338615 2003 $SX_{211}$ | 16.3 | X | 211.64087 | 322.06713 | 80.90879 | 10.35245 | 0.2285974 | 0.21744394 | 2.7388685 | 20 | 5 24.6 | 20.9 |
| 338616 2003 $SX_{221}$ | 16.4 | X | 282.37495 | 245.79373 | 138.36634 | 5.13152 | 0.1212444 | 0.22592122 | 2.6699187 | 20 | 7 29.4 | 19.8 |
| 338617 2003 $SQ_{226}$ | 16.8 | X | 275.63716 | 169.99650 | 203.58447 | 7.00333 | 0.0762147 | 0.22057238 | 2.7129094 | 20 | 7 10.7 | 20.4 |
| 338618 2003 $SX_{226}$ | 16.1 | X | 302.38294 | 307.18805 | 20.81922 | 16.18968 | 0.2246048 | 0.22116458 | 2.7080644 | 20 | 5 20.2 | 19.7 |
| 338619 2003 $SU_{229}$ | 16.8 | X | 306.02256 | 255.63682 | 35.71937 | 11.89087 | 0.2035080 | 0.21638002 | 2.7478390 | 20 | 4 15.5 | 20.2 |
| 338620 2003 $SF_{241}$ | 16.6 | X | 311.27996 | 262.15128 | 6.69833 | 9.37746 | 0.1837096 | 0.21579520 | 2.7528013 | 20 | 3 25.9 | 20.0 |
| 338621 2003 $SL_{242}$ | 16.6 | X | 351.26691 | 252.99414 | 19.02193 | 14.35167 | 0.1667598 | 0.21964596 | 2.7205324 | 20 | 6 13.0 | 19.6 |
| 338622 2003 $SE_{247}$ | 16.3 | X | 258.98486 | 146.76384 | 193.66813 | 14.49465 | 0.2085205 | 0.21680319 | 2.7442622 | 20 | 4 21.6 | 20.5 |
| 338623 2003 $SA_{248}$ | 16.5 | X | 193.93115 | 166.92961 | 192.27157 | 1.81759 | 0.1042991 | 0.20895729 | 2.8125334 | 20 | 3 18.2 | 20.9 |
| 338624 2003 $SC_{256}$ | 16.4 | X | 220.27529 | 228.74674 | 188.71166 | 9.08283 | 0.2996225 | 0.21668681 | 2.7452447 | 20 | 6 13.7 | 21.4 |
| 338625 2003 $SR_{260}$ | 17.6 | X | 259.99929 | 127.72007 | 256.43325 | 2.80860 | 0.0999470 | 0.22335576 | 2.6903242 | 20 | 7 1.4 | 21.1 |
| 338626 2003 $SA_{262}$ | 16.3 | X | 163.97834 | 231.53167 | 218.37382 | 12.75849 | 0.1765248 | 0.21253130 | 2.7809133 | 20 | 6 10.8 | 21.0 |
| 338627 2003 $SC_{262}$ | 16.5 | X | 290.37333 | 114.74608 | 239.78027 | 4.96825 | 0.1616592 | 0.22179612 | 2.7029214 | 20 | 6 23.2 | 19.8 |
| 338628 2003 $SN_{262}$ | 16.5 | X | 213.85735 | 358.40085 | 52.02104 | 4.28342 | 0.1924390 | 0.21748085 | 2.7385586 | 20 | 6 5.1 | 21.0 |
| 338629 2003 $SN_{271}$ | 16.4 | X | 221.73411 | 193.65402 | 163.97308 | 10.08758 | 0.1722333 | 0.21131773 | 2.7915501 | 20 | 4 12.1 | 21.0 |
| 338630 2003 $SJ_{272}$ | 16.1 | X | 330.64790 | 123.29211 | 216.94223 | 9.47026 | 0.0952806 | 0.22747563 | 2.6577418 | 20 | 8 15.5 | 19.4 |
| 338631 2003 $SF_{278}$ | 16.1 | X | 228.09808 | 63.61948 | 343.80474 | 10.40628 | 0.1751496 | 0.21791076 | 2.7349555 | 20 | 6 16.1 | 20.6 |
| 338632 2003 $SM_{278}$ | 16.2 | X | 243.37690 | 15.14967 | 335.16956 | 8.46122 | 0.1690094 | 0.21422788 | 2.7662115 | 20 | 4 17.4 | 20.7 |
| 338633 2003 $SS_{278}$ | 16.4 | X | 337.37544 | 304.18471 | 357.31081 | 12.41499 | 0.2699579 | 0.22460507 | 2.6803387 | 20 | 6 21.1 | 18.8 |
| 338634 2003 $SE_{283}$ | 15.8 | X | 295.52401 | 99.66774 | 255.37443 | 12.88166 | 0.0834956 | 0.22663730 | 2.6642918 | 20 | 7 12.2 | 19.2 |
| 338635 2003 $SO_{283}$ | 16.0 | X | 270.41222 | 148.33237 | 208.46123 | 12.52833 | 0.1387337 | 0.22207678 | 2.7006436 | 20 | 6 2.9 | 19.8 |
| 338636 2003 $SH_{289}$ | 16.5 | X | 316.56292 | 300.31771 | 26.03091 | 15.03384 | 0.1948315 | 0.22465681 | 2.6799272 | 20 | 6 21.1 | 19.6 |
| 338637 2003 $SY_{295}$ | 16.3 | X | 333.24510 | 17.92584 | 283.29818 | 6.37279 | 0.0942925 | 0.22204815 | 2.7008758 | 20 | 6 28.0 | 19.4 |
| 338638 2003 $SL_{297}$ | 16.5 | X | 230.05578 | 85.22909 | 318.25680 | 10.27633 | 0.2071464 | 0.22039587 | 2.7143577 | 20 | 6 10.2 | 21.0 |
| 338639 2003 $SU_{298}$ | 16.2 | X | 266.07531 | 46.38246 | 333.11273 | 6.91087 | 0.1876390 | 0.22130077 | 2.7069533 | 20 | 6 20.3 | 20.0 |
| 338640 2003 $SV_{300}$ | 16.3 | X | 207.18301 | 255.97135 | 166.32106 | 13.45970 | 0.1474429 | 0.21929484 | 2.7234356 | 20 | 6 17.5 | 20.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338641 2003 $SV_{301}$ | 16.3 | $X$ | 285.34315 | 185.83761 | 203.52135 | 8.10874 | 0.0873729 | 0.22759351 | 2.6568241 | 20 | 8 13.0 | 19.8 |
| 338642 2003 $SW_{303}$ | 15.8 | $X$ | 355.94034 | 292.96922 | 20.16667 | 14.28584 | 0.1567889 | 0.22827139 | 2.6515617 | 20 | 9 5.5 | 18.7 |
| 338643 2003 $SV_{305}$ | 16.5 | $X$ | 245.06729 | 140.12955 | 256.58896 | 7.20617 | 0.0935751 | 0.22218060 | 2.6998023 | 20 | 6 29.9 | 20.4 |
| 338644 2003 $SC_{308}$ | 16.2 | $X$ | 223.24725 | 150.65482 | 266.59686 | 9.18929 | 0.2696349 | 0.22029401 | 2.7151944 | 20 | 6 17.2 | 20.9 |
| 338645 2003 $SM_{308}$ | 15.8 | $X$ | 322.06716 | 39.97706 | 290.95475 | 14.02198 | 0.1171427 | 0.22384309 | 2.6864180 | 20 | 7 19.0 | 18.9 |
| 338646 2003 $SZ_{316}$ | 16.4 | $X$ | 291.13036 | 42.32625 | 310.33437 | 5.68210 | 0.0895447 | 0.22481121 | 2.6787000 | 20 | 7 4.2 | 19.7 |
| 338647 2003 $SM_{318}$ | 16.5 | $X$ | 291.93264 | 131.09626 | 190.25489 | 12.20637 | 0.0802017 | 0.22050050 | 2.7134990 | 20 | 5 25.4 | 20.2 |
| 338648 2003 $SQ_{324}$ | 16.1 | $X$ | 75.39415 | 227.58332 | 352.02512 | 12.29474 | 0.0726179 | 0.22676769 | 2.6632704 | 20 | 8 16.3 | 19.8 |
| 338649 2003 $SO_{326}$ | 17.1 | $X$ | 207.33428 | 24.64505 | 6.53469 | 2.77808 | 0.0778332 | 0.21552043 | 2.7551405 | 20 | 5 10.9 | 21.3 |
| 338650 2003 $SH_{329}$ | 16.0 | $X$ | 289.65230 | 253.53346 | 78.88812 | 5.88526 | 0.1194716 | 0.21976569 | 2.7195442 | 20 | 5 29.8 | 19.6 |
| 338651 2003 $SD_{330}$ | 17.3 | $X$ | 255.71186 | 105.27941 | 243.79870 | 1.37350 | 0.1014135 | 0.21802930 | 2.7339641 | 20 | 5 10.1 | 21.3 |
| 338652 2003 $SG_{330}$ | 17.6 | $X$ | 250.76911 | 83.63249 | 354.37963 | 5.55423 | 0.2814106 | 0.22618709 | 2.6678260 | 20 | 8 7.9 | 21.7 |
| 338653 2003 $SW_{330}$ | 16.2 | $X$ | 269.49007 | 299.82889 | 36.56487 | 12.49289 | 0.1557536 | 0.21747267 | 2.7386272 | 20 | 5 2.2 | 20.0 |
| 338654 2003 $SB_{333}$ | 16.6 | $X$ | 206.11898 | 151.02076 | 238.44036 | 5.51272 | 0.0528615 | 0.21238164 | 2.7822196 | 20 | 5 9.1 | 20.7 |
| 338655 2003 $SA_{334}$ | 16.5 | $X$ | 164.44965 | 97.92455 | 3.96609 | 9.31022 | 0.1132597 | 0.21485299 | 2.7608434 | 20 | 6 25.5 | 20.9 |
| 338656 2003 $SH_{338}$ | 17.1 | $X$ | 271.62783 | 336.92231 | 335.85739 | 2.63369 | 0.0565927 | 0.21519783 | 2.7578932 | 20 | 4 17.8 | 20.9 |
| 338657 2003 $SV_{340}$ | 17.0 | $X$ | 218.99097 | 169.31920 | 230.91604 | 3.05699 | 0.1756958 | 0.21841938 | 2.7307080 | 20 | 5 29.6 | 21.5 |
| 338658 2003 $SM_{342}$ | 17.1 | $X$ | 246.68433 | 61.48309 | 296.13908 | 1.26959 | 0.0953392 | 0.21791082 | 2.7349550 | 20 | 5 11.0 | 20.9 |
| 338659 2003 $SS_{342}$ | 16.5 | $X$ | 358.39100 | 85.62233 | 179.61831 | 13.52356 | 0.1585507 | 0.22376050 | 2.6870790 | 20 | 6 20.7 | 19.5 |
| 338660 2003 $SD_{349}$ | 17.0 | $X$ | 2.30843 | 230.77657 | 27.78426 | 3.37779 | 0.0329052 | 0.22023200 | 2.7157040 | 20 | 6 15.4 | 20.5 |
| 338661 2003 $ST_{349}$ | 16.6 | $X$ | 298.89742 | 350.12182 | 15.77557 | 6.06189 | 0.0741470 | 0.22654762 | 2.6649949 | 20 | 8 8.2 | 20.0 |
| 338662 2003 $SJ_{350}$ | 16.5 | $X$ | 356.53495 | 231.67324 | 35.41649 | 5.60322 | 0.1286809 | 0.22180529 | 2.7028469 | 20 | 6 18.9 | 19.5 |
| 338663 2003 $SZ_{352}$ | 16.8 | $X$ | 326.37228 | 286.92769 | 321.33369 | 7.76696 | 0.0503969 | 0.21469521 | 2.7621959 | 20 | 4 4.9 | 20.5 |
| 338664 2003 $SA_{354}$ | 16.8 | $X$ | 248.01080 | 217.45921 | 196.81813 | 5.54829 | 0.0958325 | 0.22516998 | 2.6758539 | 20 | 7 25.9 | 20.6 |
| 338665 2003 $SG_{359}$ | 17.0 | $X$ | 317.38543 | 315.69137 | 344.85389 | 2.12656 | 0.0802563 | 0.21955895 | 2.7212511 | 20 | 6 1.7 | 20.2 |
| 338666 2003 $SN_{359}$ | 16.7 | $X$ | 211.96070 | 76.70922 | 8.41415 | 5.24602 | 0.0172471 | 0.22412296 | 2.6841811 | 20 | 8 3.8 | 20.3 |
| 338667 2003 $SW_{361}$ | 16.7 | $X$ | 226.92692 | 349.23311 | 37.48160 | 6.34653 | 0.1473935 | 0.21766055 | 2.7370511 | 20 | 5 21.3 | 20.8 |
| 338668 2003 $SE_{365}$ | 17.0 | $X$ | 120.59659 | 338.48226 | 200.86753 | 5.70136 | 0.1113400 | 0.22768356 | 2.6561235 | 20 | 8 16.4 | 21.1 |
| 338669 2003 $SJ_{391}$ | 16.8 | $X$ | 260.20756 | 233.13493 | 130.37086 | 5.88645 | 0.1284559 | 0.21896127 | 2.7262009 | 20 | 6 1.1 | 20.7 |
| 338670 2003 $ST_{391}$ | 17.0 | $X$ | 357.01664 | 202.73625 | 105.16310 | 4.88558 | 0.0750173 | 0.22629411 | 2.6669849 | 20 | 8 19.5 | 20.1 |
| 338671 2003 $SM_{392}$ | 16.2 | $X$ | 149.10326 | 46.57860 | 85.72668 | 6.17236 | 0.0644948 | 0.21970450 | 2.7200491 | 20 | 7 16.9 | 20.2 |
| 338672 2003 $SD_{421}$ | 16.7 | $X$ | 354.57979 | 244.88174 | 25.54925 | 8.01439 | 0.1625282 | 0.22274735 | 2.6952208 | 20 | 6 19.9 | 19.5 |
| 338673 2003 $SJ_{423}$ | 16.2 | $X$ | 303.96825 | 304.51959 | 26.20463 | 14.12989 | 0.2142099 | 0.22050234 | 2.7134839 | 20 | 5 29.9 | 19.7 |
| 338674 2003 $SN_{429}$ | 16.5 | $X$ | 182.97955 | 210.57155 | 226.06048 | 8.48075 | 0.1799386 | 0.21502235 | 2.7593935 | 20 | 6 11.2 | 21.1 |
| 338675 2003 $SX_{429}$ | 16.8 | $X$ | 230.23090 | 260.60000 | 117.12948 | 1.72958 | 0.0883689 | 0.21436147 | 2.7650622 | 20 | 5 19.7 | 20.9 |
| 338676 2003 $SK_{431}$ | 16.5 | $X$ | 331.51625 | 225.13593 | 88.19869 | 6.95336 | 0.2507723 | 0.22855283 | 2.6493845 | 20 | 6 27.7 | 18.6 |
| 338677 2003 $TX_{4}$ | 16.6 | $X$ | 259.88481 | 148.29962 | 224.48836 | 13.54507 | 0.0207470 | 0.21876675 | 2.7278167 | 20 | 6 26.3 | 20.5 |
| 338678 2003 $TZ_{4}$ | 16.9 | $X$ | 234.09068 | 97.39406 | 322.81322 | 4.19993 | 0.1065384 | 0.22101607 | 2.7092775 | 20 | 7 17.2 | 20.8 |
| 338679 2003 $TH_{5}$ | 16.1 | $X$ | 317.56071 | 272.28987 | 60.67636 | 13.82117 | 0.1919112 | 0.22533270 | 2.6745655 | 20 | 7 5.0 | 19.0 |
| 338680 2003 $TM_{8}$ | 16.0 | $X$ | 283.49642 | 44.43156 | 313.17003 | 12.54016 | 0.1613033 | 0.22171029 | 2.7036189 | 20 | 6 18.3 | 19.7 |
| 338681 2003 $TP_{9}$ | 15.7 | $X$ | 0.88166 | 57.10852 | 219.26245 | 25.03816 | 0.2398760 | 0.22630934 | 2.6668652 | 20 | 7 10.1 | 18.6 |
| 338682 2003 $TW_{17}$ | 16.0 | $X$ | 251.18832 | 75.60734 | 321.23403 | 4.64429 | 0.0797553 | 0.22058648 | 2.7127939 | 20 | 7 10.7 | 19.6 |
| 338683 2003 $TL_{19}$ | 16.6 | $X$ | 264.79443 | 164.64960 | 197.39857 | 8.53376 | 0.1187210 | 0.21979262 | 2.7193221 | 20 | 6 5.8 | 20.5 |
| 338684 2003 $TM_{29}$ | 16.9 | $X$ | 147.91524 | 328.13431 | 99.51707 | 0.45730 | 0.0535806 | 0.20951977 | 2.8074975 | 20 | 4 21.1 | 20.7 |
| 338685 2003 $TZ_{35}$ | 16.8 | $X$ | 204.91923 | 238.31963 | 263.62811 | 4.93195 | 0.1134315 | 0.22917112 | 2.6446171 | 20 | 9 25.2 | 20.9 |
| 338686 2003 $TQ_{36}$ | 17.3 | $X$ | 191.19169 | 88.69294 | 321.81437 | 3.75541 | 0.0673705 | 0.21329223 | 2.7742954 | 20 | 5 17.7 | 21.5 |
| 338687 2003 $TF_{38}$ | 16.6 | $X$ | 323.96099 | 330.08990 | 349.36897 | 11.11633 | 0.0604367 | 0.22189036 | 2.7021561 | 20 | 7 14.3 | 20.1 |
| 338688 2003 $TE_{39}$ | 16.9 | $X$ | 254.45502 | 75.93603 | 314.32986 | 5.14824 | 0.0253641 | 0.22118187 | 2.7079234 | 20 | 7 14.3 | 20.5 |
| 338689 2003 $TW_{47}$ | 16.3 | $X$ | 175.77228 | 256.04586 | 212.63440 | 11.58510 | 0.1304512 | 0.22143768 | 2.7058374 | 20 | 7 13.0 | 20.8 |
| 338690 2003 $TL_{56}$ | 16.4 | $X$ | 288.37968 | 282.68372 | 53.08350 | 9.92690 | 0.1258340 | 0.21962727 | 2.7206867 | 20 | 5 30.3 | 20.0 |
| 338691 2003 $TQ_{58}$ | 15.8 | $X$ | 310.88456 | 216.63208 | 135.76218 | 14.38817 | 0.1503135 | 0.22414649 | 2.6839933 | 20 | 7 26.5 | 18.8 |
| 338692 2003 $US_{6}$ | 15.8 | $X$ | 230.73016 | 149.76640 | 247.21550 | 12.30780 | 0.1854755 | 0.21574293 | 2.7532459 | 20 | 6 4.8 | 20.1 |
| 338693 2003 $US_{7}$ | 16.9 | $X$ | 260.06446 | 118.62866 | 264.34705 | 8.56907 | 0.2724177 | 0.22245929 | 2.6975469 | 20 | 6 6.8 | 21.1 |
| 338694 2003 $UF_{13}$ | 16.3 | $X$ | 285.18428 | 345.22165 | 41.80896 | 15.00712 | 0.2514740 | 0.22522251 | 2.6754378 | 20 | 7 19.5 | 20.0 |
| 338695 2003 $UY_{13}$ | 16.4 | $X$ | 274.42715 | 321.28530 | 71.99261 | 6.12301 | 0.2083295 | 0.22419486 | 2.6836072 | 20 | 7 17.3 | 20.0 |
| 338696 2003 $US_{15}$ | 16.4 | $X$ | 230.76832 | 322.87929 | 57.97552 | 4.50645 | 0.2729725 | 0.21455627 | 2.7633883 | 20 | 5 9.8 | 21.2 |
| 338697 2003 $UV_{18}$ | 16.5 | $X$ | 259.31805 | 156.80733 | 210.42787 | 3.13749 | 0.1183380 | 0.21657685 | 2.7461739 | 20 | 6 5.5 | 20.4 |
| 338698 2003 $UV_{19}$ | 18.7 | $X$ | 107.26695 | 124.10951 | 215.14635 | 33.46844 | 0.0800323 | 0.54267320 | 1.4885970 | 20 | — | — |
| 338699 2003 $UZ_{24}$ | 16.2 | $X$ | 235.89378 | 48.43275 | 337.86288 | 5.39703 | 0.1114170 | 0.21712372 | 2.7415607 | 20 | 6 2.6 | 20.3 |
| 338700 2003 $UL_{32}$ | 16.7 | $X$ | 291.81421 | 285.38420 | 25.04269 | 5.27863 | 0.0305422 | 0.21397854 | 2.7683600 | 20 | 5 15.4 | 20.4 |
| 338701 2003 $UT_{32}$ | 16.1 | $X$ | 187.44223 | 289.61500 | 203.57430 | 12.27909 | 0.2114129 | 0.22237092 | 2.6982616 | 20 | 8 20.2 | 20.8 |
| 338702 2003 $UX_{37}$ | 16.9 | $X$ | 296.84806 | 181.97718 | 272.83752 | 7.67065 | 0.1654907 | 0.23554757 | 2.5966712 | 20 | 11 27.7 | 19.4 |
| 338703 2003 $UQ_{38}$ | 16.2 | $X$ | 210.43635 | 138.84446 | 247.94411 | 12.40124 | 0.2090874 | 0.21142789 | 2.7905803 | 20 | 5 2.3 | 20.9 |
| 338704 2003 $UY_{43}$ | 16.6 | $X$ | 244.27285 | 341.27595 | 17.19691 | 6.74727 | 0.0494486 | 0.21482901 | 2.7610489 | 20 | 5 13.6 | 20.5 |
| 338705 2003 $UE_{46}$ | 16.8 | $X$ | 131.54174 | 334.97236 | 202.26418 | 11.84585 | 0.0399529 | 0.22402252 | 2.6849833 | 20 | 8 18.8 | 20.9 |
| 338706 2003 $UU_{51}$ | 15.9 | $X$ | 292.86302 | 343.83737 | 323.42954 | 15.10787 | 0.1611239 | 0.21582907 | 2.7525132 | 20 | 4 15.2 | 20.0 |
| 338707 2003 $UJ_{54}$ | 16.2 | $X$ | 298.60966 | 106.07071 | 246.44010 | 9.74346 | 0.2204098 | 0.22213756 | 2.7001510 | 20 | 6 23.1 | 19.3 |
| 338708 2003 $UK_{54}$ | 17.2 | $X$ | 203.15070 | 123.99205 | 327.02992 | 7.30844 | 0.2949950 | 0.21538722 | 2.7562763 | 20 | 7 12.8 | 22.1 |
| 338709 2003 $UW_{56}$ | 16.5 | $X$ | 237.71245 | 4.68303 | 57.92985 | 3.55771 | 0.1694849 | 0.21903056 | 2.7256258 | 20 | 7 17.1 | 20.6 |
| 338710 2003 $UG_{59}$ | 15.5 | $X$ | 291.59009 | 107.31877 | 266.06095 | 12.58751 | 0.1193673 | 0.22259401 | 2.6964585 | 20 | 7 25.2 | 19.0 |
| 338711 2003 $UD_{60}$ | 16.5 | $X$ | 299.23062 | 344.72905 | 346.85609 | 15.78747 | 0.2567499 | 0.22175463 | 2.7032585 | 20 | 5 13.4 | 20.3 |
| 338712 2003 $UC_{62}$ | 16.0 | $X$ | 272.86177 | 165.50812 | 172.84011 | 14.34636 | 0.2061038 | 0.21813064 | 2.7331173 | 20 | 5 5.8 | 20.1 |
| 338713 2003 $UD_{67}$ | 16.4 | $X$ | 201.50080 | 254.19987 | 207.84842 | 12.98114 | 0.0352032 | 0.22479216 | 2.6788513 | 20 | 8 5.1 | 20.4 |
| 338714 2003 $UE_{70}$ | 17.0 | $X$ | 354.55439 | 253.82651 | 337.06351 | 3.57259 | 0.0489904 | 0.21162762 | 2.7888243 | 20 | 4 25.5 | 20.5 |
| 338715 2003 $UH_{76}$ | 16.0 | $X$ | 258.10640 | 13.86347 | 322.55322 | 11.12330 | 0.2080799 | 0.21555825 | 2.7548182 | 20 | 4 8.9 | 20.6 |
| 338716 2003 $UC_{77}$ | 15.8 | $X$ | 188.94976 | 120.15890 | 316.40508 | 8.41595 | 0.1231616 | 0.21506952 | 2.7589901 | 20 | 6 17.8 | 20.2 |
| 338717 2003 $UH_{78}$ | 16.1 | $X$ | 287.97995 | 320.08856 | 354.99536 | 7.82327 | 0.3470352 | 0.21886337 | 2.7270137 | 20 | 3 31.1 | 20.4 |
| 338718 2003 $UU_{79}$ | 15.7 | $X$ | 264.84113 | 334.36584 | 31.92051 | 9.03991 | 0.1629411 | 0.21782271 | 2.7356924 | 20 | 6 3.0 | 19.6 |
| 338719 2003 $UA_{81}$ | 15.7 | $X$ | 240.08973 | 282.23607 | 80.44995 | 12.55838 | 0.1484930 | 0.21331658 | 2.7740842 | 20 | 5 8.6 | 20.1 |
| 338720 2003 $UG_{83}$ | 16.3 | $X$ | 200.10462 | 157.28786 | 281.46207 | 8.37205 | 0.3045508 | 0.21629579 | 2.7485523 | 20 | 6 24.6 | 21.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338721 2003 $UX_{87}$ | 16.7 | X | 221.43044 | 321.98488 | 56.49422 | 4.10575 | 0.1052209 | 0.21318047 | 2.7752649 | 20 | 5 9.4 | 21.0 |
| 338722 2003 $UK_{88}$ | 15.8 | X | 223.35589 | 216.07414 | 188.81289 | 15.47557 | 0.1413693 | 0.21454414 | 2.7634924 | 20 | 6 11.6 | 20.4 |
| 338723 2003 $UL_{93}$ | 16.4 | X | 241.40431 | 225.86527 | 213.89555 | 11.60385 | 0.2466668 | 0.22333974 | 2.6904528 | 20 | 7 30.2 | 20.8 |
| 338724 2003 $UF_{94}$ | 16.1 | X | 174.79118 | 65.78865 | 20.50380 | 9.38790 | 0.0851349 | 0.21510377 | 2.7586972 | 20 | 6 14.8 | 20.4 |
| 338725 2003 $UH_{100}$ | 16.1 | X | 197.70227 | 328.63821 | 87.57988 | 8.24113 | 0.1709977 | 0.21229796 | 2.7829506 | 20 | 5 30.8 | 20.8 |
| 338726 2003 $UY_{103}$ | 16.2 | X | 331.73653 | 29.17626 | 312.19004 | 8.07123 | 0.1327155 | 0.22870933 | 2.6481757 | 20 | 8 20.6 | 18.8 |
| 338727 2003 $UT_{107}$ | 15.8 | X | 165.70004 | 119.23516 | 333.52833 | 11.66362 | 0.1078902 | 0.21375333 | 2.7703042 | 20 | 6 14.4 | 20.3 |
| 338728 2003 $UE_{109}$ | 16.9 | X | 180.78427 | 20.29051 | 38.77452 | 6.17211 | 0.0553650 | 0.21063047 | 2.7976191 | 20 | 5 17.4 | 21.0 |
| 338729 2003 $UH_{111}$ | 16.4 | X | 108.91949 | 332.41075 | 205.74456 | 12.53319 | 0.0589949 | 0.22463849 | 2.6800729 | 20 | 7 25.1 | 20.4 |
| 338730 2003 $UQ_{113}$ | 16.4 | X | 271.10525 | 270.38252 | 53.04833 | 14.70228 | 0.2342940 | 0.21557568 | 2.7546698 | 20 | 4 13.6 | 20.7 |
| 338731 2003 $UD_{116}$ | 16.7 | X | 211.33037 | 86.11823 | 5.61791 | 12.22319 | 0.2627855 | 0.21975210 | 2.7196563 | 20 | 7 24.4 | 21.5 |
| 338732 2003 $UO_{117}$ | 17.1 | X | 271.19067 | 326.89990 | 0.45406 | 4.19679 | 0.0758290 | 0.21276601 | 2.7788678 | 20 | 5 3.4 | 20.9 |
| 338733 2003 $UO_{118}$ | 16.7 | X | 256.98818 | 65.76260 | 275.13122 | 3.58695 | 0.1725965 | 0.21573514 | 2.7533121 | 20 | 4 21.3 | 20.8 |
| 338734 2003 $UD_{121}$ | 16.4 | X | 353.61350 | 277.07310 | 36.10853 | 13.36487 | 0.1017594 | 0.22608392 | 2.6686376 | 20 | 8 28.9 | 19.7 |
| 338735 2003 $UW_{124}$ | 16.3 | X | 298.12177 | 272.77848 | 63.78798 | 6.86078 | 0.1483785 | 0.22117363 | 2.7079906 | 20 | 6 11.9 | 19.5 |
| 338736 2003 $UX_{128}$ | 16.7 | X | 195.61114 | 35.08628 | 22.22676 | 2.24822 | 0.1163913 | 0.21312840 | 2.7757168 | 20 | 5 30.7 | 21.1 |
| 338737 2003 $UK_{136}$ | 15.9 | X | 186.44893 | 128.65444 | 19.65173 | 13.66958 | 0.1969658 | 0.22596105 | 2.6696050 | 20 | 9 15.9 | 20.4 |
| 338738 2003 $UZ_{138}$ | 16.4 | X | 239.58778 | 230.91280 | 167.50160 | 13.05496 | 0.1634711 | 0.22050375 | 2.7134723 | 20 | 6 18.4 | 20.8 |
| 338739 2003 $UX_{142}$ | 16.1 | X | 231.87884 | 52.48039 | 19.10526 | 13.18223 | 0.1954665 | 0.21949572 | 2.7217737 | 20 | 7 23.1 | 20.6 |
| 338740 2003 $UZ_{148}$ | 16.9 | X | 243.83723 | 252.79409 | 124.61004 | 4.70960 | 0.2221193 | 0.21630473 | 2.7484766 | 20 | 5 21.6 | 21.2 |
| 338741 2003 $UC_{158}$ | 16.9 | X | 265.91689 | 25.11093 | 328.32105 | 1.94011 | 0.0610455 | 0.21406147 | 2.7676450 | 20 | 6 3.3 | 20.6 |
| 338742 2003 $UG_{158}$ | 16.5 | X | 194.34632 | 35.62431 | 25.82382 | 6.63752 | 0.0793647 | 0.21214505 | 2.7842877 | 20 | 6 4.1 | 20.7 |
| 338743 2003 $UC_{161}$ | 16.3 | X | 307.62874 | 260.58535 | 36.78158 | 8.84543 | 0.1980377 | 0.21664876 | 2.7455661 | 20 | 4 25.6 | 19.6 |
| 338744 2003 $UF_{161}$ | 16.2 | X | 305.33476 | 280.26509 | 39.95545 | 14.61280 | 0.0897753 | 0.21769480 | 2.7367639 | 20 | 6 7.0 | 19.8 |
| 338745 2003 $UY_{161}$ | 16.1 | X | 243.86492 | 291.93784 | 35.02930 | 13.56242 | 0.2179644 | 0.21166386 | 2.7885060 | 20 | 3 25.2 | 20.8 |
| 338746 2003 $UP_{166}$ | 16.4 | X | 121.80066 | 128.40944 | 41.95776 | 6.59103 | 0.0283500 | 0.21924431 | 2.7238540 | 20 | 8 2.2 | 20.2 |
| 338747 2003 $UR_{166}$ | 16.0 | X | 260.63770 | 332.65640 | 50.72555 | 5.77751 | 0.0596222 | 0.21875083 | 2.7279490 | 20 | 7 7.9 | 19.8 |
| 338748 2003 $UB_{167}$ | 16.2 | X | 263.87086 | 346.80691 | 19.49994 | 15.82732 | 0.2056184 | 0.21822294 | 2.7323466 | 20 | 5 24.3 | 20.5 |
| 338749 2003 $UV_{167}$ | 16.2 | X | 205.69022 | 209.03516 | 251.83961 | 7.58567 | 0.2064849 | 0.21960318 | 2.7208857 | 20 | 7 28.3 | 20.9 |
| 338750 2003 $UV_{169}$ | 16.3 | X | 283.89265 | 23.39745 | 347.22270 | 5.86404 | 0.0498402 | 0.22074400 | 2.7115031 | 20 | 7 25.4 | 19.8 |
| 338751 2003 $UF_{170}$ | 15.9 | X | 290.82950 | 295.93450 | 28.75484 | 7.88106 | 0.1474480 | 0.21628907 | 2.7486093 | 20 | 5 14.7 | 19.5 |
| 338752 2003 $UY_{174}$ | 16.2 | X | 245.89034 | 340.18686 | 37.64193 | 17.64415 | 0.1166657 | 0.21666543 | 2.7454253 | 20 | 5 30.7 | 20.5 |
| 338753 2003 $UB_{178}$ | 16.2 | X | 237.86731 | 9.17975 | 4.45585 | 6.02299 | 0.0942121 | 0.21590333 | 2.7518821 | 20 | 5 20.5 | 20.4 |
| 338754 2003 $UH_{184}$ | 15.8 | X | 342.19310 | 110.10633 | 190.99398 | 12.24500 | 0.0930230 | 0.22023594 | 2.7156716 | 20 | 7 11.1 | 19.2 |
| 338755 2003 $UD_{187}$ | 15.7 | X | 259.46326 | 120.61705 | 240.26316 | 13.15398 | 0.1052821 | 0.21634618 | 2.7481255 | 20 | 5 29.9 | 19.6 |
| 338756 2003 $UX_{188}$ | 16.2 | X | 236.94869 | 29.64388 | 8.45336 | 9.36122 | 0.1387076 | 0.21714018 | 2.7414222 | 20 | 6 16.5 | 20.5 |
| 338757 2003 $UA_{190}$ | 16.3 | X | 245.66553 | 346.26541 | 26.93177 | 6.34161 | 0.0544739 | 0.21445650 | 2.7642452 | 20 | 6 3.8 | 20.2 |
| 338758 2003 $UK_{197}$ | 16.8 | X | 235.00282 | 190.29518 | 180.00550 | 3.82404 | 0.1631144 | 0.21419742 | 2.7664738 | 20 | 5 9.2 | 21.2 |
| 338759 2003 $UZ_{197}$ | 16.1 | X | 239.41988 | 0.26019 | 49.26538 | 6.04477 | 0.0798909 | 0.22009533 | 2.7168281 | 20 | 7 13.1 | 19.9 |
| 338760 2003 $UZ_{205}$ | 15.9 | X | 275.89385 | 293.11535 | 28.93077 | 10.65742 | 0.3308401 | 0.21699956 | 2.7426064 | 20 | 4 2.6 | 20.2 |
| 338761 2003 $UU_{210}$ | 17.1 | X | 266.51767 | 1.10617 | 1.83490 | 2.48818 | 0.2395191 | 0.21805256 | 2.7337697 | 20 | 5 22.3 | 21.1 |
| 338762 2003 $UA_{220}$ | 16.3 | X | 248.18904 | 314.40636 | 71.77262 | 8.52327 | 0.3389402 | 0.21716455 | 2.7412170 | 20 | 5 25.1 | 20.9 |
| 338763 2003 $UM_{229}$ | 16.2 | X | 258.90787 | 174.21627 | 235.88622 | 11.04414 | 0.1758074 | 0.22173266 | 2.7034371 | 20 | 7 20.6 | 20.2 |
| 338764 2003 $UW_{233}$ | 16.9 | X | 261.55486 | 32.12827 | 333.22842 | 2.13295 | 0.2040322 | 0.21779116 | 2.7359566 | 20 | 5 24.5 | 20.9 |
| 338765 2003 $UZ_{234}$ | 16.1 | X | 244.07368 | 158.80323 | 219.93887 | 8.77269 | 0.1603090 | 0.21427212 | 2.7658308 | 20 | 5 29.0 | 20.4 |
| 338766 2003 $UF_{243}$ | 16.4 | X | 232.09951 | 165.66897 | 231.54218 | 6.37595 | 0.2024257 | 0.21543909 | 2.7558339 | 20 | 6 5.1 | 20.8 |
| 338767 2003 $UF_{248}$ | 16.5 | X | 218.40667 | 77.22387 | 354.20573 | 7.48575 | 0.0504078 | 0.22137462 | 2.7063512 | 20 | 7 21.0 | 20.3 |
| 338768 2003 $UA_{249}$ | 16.9 | X | 298.05838 | 71.91025 | 266.77754 | 2.04061 | 0.2167607 | 0.22229072 | 2.6989105 | 20 | 6 3.7 | 20.1 |
| 338769 2003 $UB_{249}$ | 16.0 | X | 34.09648 | 219.49188 | 31.77900 | 9.08476 | 0.0698508 | 0.22094381 | 2.7098682 | 20 | 7 30.4 | 19.5 |
| 338770 2003 $UO_{249}$ | 16.4 | X | 234.00425 | 319.70970 | 59.19610 | 9.86575 | 0.1600338 | 0.21427296 | 2.7658235 | 20 | 5 18.5 | 20.7 |
| 338771 2003 $UJ_{250}$ | 16.1 | X | 261.99047 | 100.86382 | 265.99859 | 4.90178 | 0.0834094 | 0.21587103 | 2.7521566 | 20 | 6 13.1 | 19.8 |
| 338772 2003 $UQ_{251}$ | 16.7 | X | 230.53743 | 93.03725 | 280.78530 | 4.67486 | 0.0622242 | 0.21361053 | 2.7715387 | 20 | 5 16.2 | 20.7 |
| 338773 2003 $UQ_{254}$ | 16.7 | X | 311.03626 | 276.92896 | 38.13351 | 5.58283 | 0.1187756 | 0.21877071 | 2.7277837 | 20 | 6 6.5 | 20.0 |
| 338774 2003 $UL_{258}$ | 16.8 | X | 200.62397 | 238.83151 | 203.89603 | 2.86150 | 0.1696072 | 0.21671520 | 2.7450050 | 20 | 7 4.7 | 21.2 |
| 338775 2003 $UJ_{267}$ | 16.3 | X | 214.66408 | 312.46551 | 51.09774 | 8.65367 | 0.2396725 | 0.20998773 | 2.8033249 | 20 | 4 10.8 | 21.3 |
| 338776 2003 $UZ_{269}$ | 16.9 | X | 158.50539 | 198.86197 | 302.95825 | 3.91914 | 0.0536523 | 0.22009114 | 2.7168626 | 20 | 8 8.3 | 20.9 |
| 338777 2003 $US_{271}$ | 16.5 | X | 189.38456 | 15.14753 | 47.33366 | 4.77674 | 0.1928272 | 0.21225114 | 2.7833599 | 20 | 5 29.6 | 21.3 |
| 338778 2003 $UK_{272}$ | 16.6 | X | 212.27896 | 319.04931 | 118.12646 | 4.41074 | 0.1751008 | 0.21670140 | 2.7451215 | 20 | 7 8.6 | 21.1 |
| 338779 2003 $UQ_{280}$ | 16.1 | X | 198.08621 | 330.61753 | 79.99509 | 13.04777 | 0.1875432 | 0.21081319 | 2.7960023 | 20 | 5 24.5 | 20.7 |
| 338780 2003 $UG_{286}$ | 17.0 | X | 199.70686 | 358.15343 | 36.07206 | 6.29884 | 0.0166323 | 0.21137398 | 2.7910548 | 20 | 5 8.7 | 20.9 |
| 338781 2003 $UU_{293}$ | 15.8 | X | 259.18797 | 228.43445 | 131.58780 | 14.76195 | 0.2571433 | 0.21800623 | 2.7341570 | 20 | 5 14.8 | 20.4 |
| 338782 2003 $UA_{296}$ | 17.1 | X | 214.58725 | 39.05463 | 0.99984 | 3.11951 | 0.1151442 | 0.21557301 | 2.7546925 | 20 | 5 28.1 | 21.4 |
| 338783 2003 $UF_{298}$ | 16.6 | X | 344.75736 | 52.01094 | 215.53562 | 4.09363 | 0.0728954 | 0.21588608 | 2.7520287 | 20 | 5 31.6 | 19.8 |
| 338784 2003 $UL_{298}$ | 16.8 | X | 286.77975 | 80.95233 | 212.67008 | 10.22372 | 0.1942437 | 0.21316919 | 2.7753628 | 20 | 3 22.4 | 20.7 |
| 338785 2003 $UA_{300}$ | 16.8 | X | 246.82078 | 138.07048 | 192.48871 | 5.01011 | 0.1243529 | 0.21132527 | 2.7914837 | 20 | 4 4.5 | 20.9 |
| 338786 2003 $UY_{305}$ | 16.4 | X | 228.93965 | 9.28638 | 3.34549 | 10.36170 | 0.1624276 | 0.21436404 | 2.7650401 | 20 | 5 1.9 | 20.9 |
| 338787 2003 $UO_{306}$ | 16.3 | X | 317.07921 | 250.82793 | 6.31771 | 12.99757 | 0.1723688 | 0.21188513 | 2.7865643 | 20 | 3 21.9 | 19.8 |
| 338788 2003 $UO_{308}$ | 16.1 | X | 290.48326 | 97.63190 | 212.52383 | 10.27576 | 0.0851594 | 0.21427630 | 2.7657948 | 20 | 5 6.6 | 19.7 |
| 338789 2003 $UZ_{316}$ | 17.2 | X | 244.40749 | 178.17871 | 267.89273 | 3.00578 | 0.0773018 | 0.23048728 | 2.6345397 | 20 | 9 5.3 | 20.8 |
| 338790 2003 $UV_{317}$ | 17.3 | X | 251.76647 | 3.01006 | 340.63284 | 5.43172 | 0.0666781 | 0.21656805 | 2.7462482 | 20 | 4 30.6 | 21.4 |
| 338791 2003 $UD_{332}$ | 15.5 | X | 312.39771 | 81.59581 | 337.15844 | 8.89397 | 0.0781182 | 0.17867698 | 3.1219335 | 20 | 10 23.7 | 19.7 |
| 338792 2003 $UP_{338}$ | 17.3 | X | 276.33642 | 198.64114 | 119.35054 | 1.08932 | 0.0633537 | 0.21564687 | 2.7540635 | 20 | 5 1.2 | 20.8 |
| 338793 2003 $UH_{344}$ | 16.8 | X | 164.96882 | 242.97878 | 285.34994 | 2.91206 | 0.0786641 | 0.23227553 | 2.6210003 | 20 | 9 19.1 | 20.6 |
| 338794 2003 $UD_{348}$ | 16.8 | X | 308.46549 | 129.46798 | 172.64296 | 5.17384 | 0.1519753 | 0.21946860 | 2.7219979 | 20 | 5 12.2 | 20.1 |
| 338795 2003 $US_{349}$ | 17.2 | X | 257.57927 | 332.96438 | 86.42392 | 3.15171 | 0.1027453 | 0.22599979 | 2.6692998 | 20 | 8 16.2 | 20.8 |
| 338796 2003 $UH_{351}$ | 16.5 | X | 278.91813 | 151.56254 | 198.58571 | 13.34085 | 0.0914411 | 0.22034592 | 2.7147679 | 20 | 6 12.2 | 20.3 |
| 338797 2003 $UK_{375}$ | 16.8 | X | 89.09074 | 228.16275 | 297.56113 | 4.24104 | 0.0517390 | 0.21924784 | 2.7238248 | 20 | 6 14.8 | 20.4 |
| 338798 2003 $UV_{378}$ | 17.1 | X | 214.07374 | 55.07751 | 19.54970 | 7.85329 | 0.1132028 | 0.22124119 | 2.7074393 | 20 | 7 13.8 | 21.3 |
| 338799 2003 $UW_{391}$ | 15.8 | X | 352.16215 | 304.02139 | 78.77512 | 11.51474 | 0.0843914 | 0.17617847 | 3.1513803 | 20 | 11 12.3 | 19.9 |
| 338800 2003 $UM_{400}$ | 16.5 | X | 241.14334 | 143.40130 | 255.63957 | 12.63581 | 0.2525746 | 0.22318228 | 2.6917181 | 20 | 6 11.2 | 20.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338801 2003 $UE_{401}$ | 16.8 | X | 182.76078 | 222.62700 | 271.73681 | 5.72248 | 0.0276191 | 0.23031305 | 2.6358682 | 20 | 8 27.2 | 20.6 |
| 338802 2003 $UZ_{401}$ | 17.0 | X | 322.25284 | 84.84633 | 203.20715 | 5.95313 | 0.2217725 | 0.22242618 | 2.6978146 | 20 | 5 3.6 | 19.7 |
| 338803 2003 $UR_{414}$ | 16.2 | X | 274.73912 | 328.85249 | 70.73489 | 13.91078 | 0.1712842 | 0.22411537 | 2.6842417 | 20 | 8 4.4 | 19.9 |
| 338804 2003 $VX_{5}$ | 16.5 | X | 208.75117 | 227.73679 | 217.37830 | 7.26145 | 0.2044884 | 0.21613650 | 2.7499025 | 20 | 7 12.1 | 21.1 |
| 338805 2003 $VA_{9}$ | 15.9 | X | 353.84990 | 234.63132 | 43.74459 | 12.12147 | 0.0368762 | 0.21723210 | 2.7406488 | 20 | 6 30.6 | 19.6 |
| 338806 2003 $WE_{9}$ | 16.5 | X | 296.93878 | 7.78403 | 349.28750 | 5.64126 | 0.0923413 | 0.21995111 | 2.7180156 | 20 | 7 19.5 | 20.0 |
| 338807 2003 $WM_{9}$ | 16.7 | X | 276.77493 | 12.34881 | 323.60539 | 7.46045 | 0.2263268 | 0.21591455 | 2.7517867 | 20 | 4 28.0 | 20.9 |
| 338808 2003 $WZ_{12}$ | 15.7 | X | 279.45254 | 68.78432 | 282.72316 | 23.53602 | 0.4275127 | 0.21838424 | 2.7310009 | 20 | 4 21.5 | 20.6 |
| 338809 2003 $WT_{14}$ | 16.7 | X | 92.78526 | 258.32457 | 229.35677 | 11.64166 | 0.0356656 | 0.20656005 | 2.8342522 | 20 | 4 27.0 | 20.6 |
| 338810 2003 $WV_{15}$ | 17.0 | X | 220.40542 | 220.71140 | 188.26541 | 2.78508 | 0.0873652 | 0.21534967 | 2.7565968 | 20 | 6 17.9 | 21.1 |
| 338811 2003 $WH_{17}$ | 16.4 | X | 285.68811 | 183.37910 | 161.58404 | 10.26772 | 0.2935808 | 0.21982819 | 2.7190287 | 20 | 5 16.7 | 20.4 |
| 338812 2003 $WU_{18}$ | 16.6 | X | 168.63114 | 113.40632 | 353.17013 | 7.41841 | 0.1855568 | 0.21188061 | 2.7866039 | 20 | 7 6.9 | 21.4 |
| 338813 2003 $WB_{38}$ | 15.3 | X | 180.87831 | 212.01988 | 248.13995 | 34.90986 | 0.1732612 | 0.21318693 | 2.7752088 | 20 | 6 30.3 | 20.3 |
| 338814 2003 $WM_{40}$ | 16.0 | X | 319.51790 | 54.59000 | 263.17595 | 7.36729 | 0.1758170 | 0.21753386 | 2.7381136 | 20 | 6 17.8 | 19.0 |
| 338815 2003 $WL_{52}$ | 16.2 | X | 305.67747 | 245.96672 | 42.58065 | 12.42248 | 0.1231600 | 0.21210890 | 2.7846041 | 20 | 4 24.0 | 19.6 |
| 338816 2003 $WK_{60}$ | 16.4 | X | 250.30961 | 294.69703 | 67.29269 | 5.38471 | 0.0846017 | 0.21261676 | 2.7801681 | 20 | 5 23.0 | 20.2 |
| 338817 2003 $WG_{61}$ | 18.3 | X | 135.98401 | 260.47112 | 141.10646 | 0.17605 | 0.1062693 | 0.31839467 | 2.1240212 | 20 | 2 28.8 | 20.8 |
| 338818 2003 $WX_{65}$ | 16.3 | X | 172.38843 | 26.88178 | 72.69551 | 10.17107 | 0.1624179 | 0.21169565 | 2.7882267 | 20 | 6 30.2 | 20.8 |
| 338819 2003 $WO_{69}$ | 15.9 | X | 229.22202 | 283.34503 | 74.94449 | 8.64882 | 0.1564573 | 0.20892308 | 2.8128405 | 20 | 4 21.7 | 20.4 |
| 338820 2003 $WU_{71}$ | 15.6 | X | 201.62235 | 112.00435 | 281.61008 | 12.01897 | 0.1102691 | 0.21002736 | 2.8029723 | 20 | 5 4.4 | 20.1 |
| 338821 2003 $WM_{74}$ | 16.4 | X | 187.17757 | 188.75348 | 269.57014 | 6.96456 | 0.1826507 | 0.21322163 | 2.7749077 | 20 | 7 11.2 | 20.9 |
| 338822 2003 $WK_{77}$ | 17.0 | X | 209.69880 | 45.32334 | 39.64397 | 3.67765 | 0.1643196 | 0.21555712 | 2.7548279 | 20 | 7 17.6 | 21.4 |
| 338823 2003 $WC_{79}$ | 16.0 | X | 237.98970 | 162.99167 | 251.86820 | 8.26750 | 0.1343675 | 0.21772692 | 2.7364948 | 20 | 7 9.4 | 20.2 |
| 338824 2003 $WJ_{82}$ | 16.4 | X | 303.82602 | 328.39795 | 83.99992 | 15.30548 | 0.2499448 | 0.22940285 | 2.6428358 | 20 | 10 9.1 | 19.1 |
| 338825 2003 $WK_{82}$ | 16.1 | X | 209.55488 | 243.84771 | 160.75192 | 9.54840 | 0.1730683 | 0.21275107 | 2.7789978 | 20 | 5 28.2 | 20.8 |
| 338826 2003 $WN_{86}$ | 16.1 | X | 215.12756 | 344.81543 | 65.12444 | 9.08804 | 0.1537340 | 0.21252986 | 2.7809259 | 20 | 6 7.9 | 20.6 |
| 338827 2003 $WS_{89}$ | 16.5 | X | 240.88017 | 44.90925 | 315.91534 | 2.78940 | 0.1101975 | 0.21181236 | 2.7872025 | 20 | 5 6.4 | 20.7 |
| 338828 2003 $WV_{95}$ | 16.0 | X | 203.85252 | 210.46195 | 232.55552 | 15.22350 | 0.0688436 | 0.21645627 | 2.7471936 | 20 | 7 11.1 | 20.3 |
| 338829 2003 $WR_{99}$ | 16.6 | X | 218.33035 | 97.12849 | 346.66409 | 9.30665 | 0.3186498 | 0.21669463 | 2.7451787 | 20 | 7 14.8 | 21.6 |
| 338830 2003 $WV_{106}$ | 16.5 | X | 295.72776 | 310.32757 | 341.34093 | 8.45799 | 0.2232020 | 0.21465176 | 2.7625687 | 20 | 3 26.2 | 20.3 |
| 338831 2003 $WJ_{107}$ | 17.0 | X | 184.64114 | 266.99824 | 225.53283 | 6.50997 | 0.2529895 | 0.21848336 | 2.7301749 | 20 | 8 16.4 | 21.9 |
| 338832 2003 $WK_{107}$ | 16.9 | X | 273.39232 | 238.66083 | 85.91287 | 1.55551 | 0.2314128 | 0.21451959 | 2.7637033 | 20 | 4 13.4 | 20.9 |
| 338833 2003 $WF_{111}$ | 16.5 | X | 209.60695 | 96.88643 | 305.22198 | 3.61153 | 0.1233463 | 0.21150564 | 2.7898965 | 20 | 5 25.0 | 20.8 |
| 338834 2003 $WK_{122}$ | 16.7 | X | 141.61150 | 83.83532 | 38.02302 | 8.01155 | 0.1778489 | 0.20925858 | 2.8098332 | 20 | 6 30.8 | 21.3 |
| 338835 2003 $WV_{127}$ | 15.7 | X | 159.17763 | 334.25138 | 74.09818 | 15.02498 | 0.2046850 | 0.20039394 | 2.8920979 | 20 | 4 23.9 | 20.7 |
| 338836 2003 $WE_{143}$ | 16.3 | X | 206.44767 | 153.41691 | 247.69138 | 3.03656 | 0.1050068 | 0.21036238 | 2.7999955 | 20 | 5 22.1 | 20.4 |
| 338837 2003 $WJ_{149}$ | 16.6 | X | 268.27341 | 237.39567 | 188.22099 | 15.17659 | 0.2587620 | 0.22419452 | 2.6836099 | 20 | 8 9.8 | 20.4 |
| 338838 2003 $WD_{152}$ | 17.2 | X | 256.71259 | 213.13104 | 175.85209 | 5.04352 | 0.3412328 | 0.21905588 | 2.7254159 | 20 | 6 4.6 | 21.7 |
| 338839 2003 $WN_{152}$ | 15.9 | X | 268.18883 | 128.12378 | 254.73708 | 13.51785 | 0.1695106 | 0.21989622 | 2.7184679 | 20 | 6 28.7 | 19.8 |
| 338840 2003 $WG_{163}$ | 16.7 | X | 308.60189 | 258.94787 | 84.36838 | 2.73658 | 0.0833657 | 0.21817606 | 2.7327379 | 20 | 7 18.4 | 20.1 |
| 338841 2003 $WV_{164}$ | 16.5 | X | 175.03887 | 199.67260 | 237.88990 | 2.79556 | 0.0721647 | 0.20947164 | 2.8079275 | 20 | 6 4.6 | 20.6 |
| 338842 2003 $XE_{1}$ | 16.9 | X | 200.86291 | 124.54469 | 301.90741 | 6.71167 | 0.2118978 | 0.21295333 | 2.7772380 | 20 | 6 13.1 | 21.6 |
| 338843 2003 $XH_{2}$ | 16.4 | X | 192.97077 | 347.32019 | 93.86918 | 9.34854 | 0.1959362 | 0.21241601 | 2.7819195 | 20 | 6 25.2 | 21.0 |
| 338844 2003 $XX_{5}$ | 15.5 | X | 150.12794 | 218.53077 | 269.44602 | 24.35202 | 0.1263787 | 0.21132989 | 2.7914430 | 20 | 7 10.3 | 20.0 |
| 338845 2003 $XW_{7}$ | 16.2 | X | 207.61963 | 45.29303 | 1.27339 | 6.34364 | 0.2204886 | 0.21075331 | 2.7965319 | 20 | 5 23.4 | 21.0 |
| 338846 2003 $XD_{9}$ | 15.8 | X | 309.42930 | 56.02157 | 316.72708 | 12.06460 | 0.2772370 | 0.22454555 | 2.6808123 | 20 | 8 4.7 | 18.2 |
| 338847 2003 $XZ_{21}$ | 16.8 | X | 224.79288 | 193.35807 | 122.39774 | 5.09929 | 0.3236570 | 0.32221373 | 2.1072045 | 20 | 2 10.8 | 20.7 |
| 338848 2003 $XD_{26}$ | 16.6 | X | 110.54649 | 258.88426 | 217.17105 | 7.12902 | 0.2319969 | 0.20203636 | 2.8764028 | 20 | 5 30.1 | 21.2 |
| 338849 2003 $XX_{28}$ | 16.1 | X | 291.82876 | 305.13777 | 60.69475 | 7.06838 | 0.0379041 | 0.21804227 | 2.7338557 | 20 | 8 1.3 | 19.7 |
| 338850 2003 $XS_{33}$ | 16.8 | X | 158.09164 | 210.95214 | 224.67735 | 5.73514 | 0.0215043 | 0.20703456 | 2.8299200 | 20 | 5 11.4 | 20.5 |
| 338851 2003 $YD$ | 15.6 | X | 176.64448 | 327.02301 | 137.45734 | 27.16794 | 0.2217123 | 0.21258603 | 2.7804360 | 20 | 7 11.0 | 20.6 |
| 338852 2003 $YU_{6}$ | 15.7 | X | 168.81909 | 222.23074 | 315.97672 | 14.04787 | 0.1395729 | 0.21859265 | 2.7292648 | 20 | 9 26.6 | 20.4 |
| 338853 2003 $YH_{21}$ | 17.2 | X | 143.48829 | 4.64376 | 55.66461 | 2.37393 | 0.0289524 | 0.31642463 | 2.1328281 | 20 | 3 27.4 | 19.5 |
| 338854 2003 $YB_{22}$ | 16.0 | X | 161.83269 | 207.04427 | 274.92532 | 7.30007 | 0.2067048 | 0.21121260 | 2.7924764 | 20 | 7 18.4 | 20.8 |
| 338855 2003 $YL_{23}$ | 16.6 | X | 202.92954 | 109.90001 | 320.64604 | 8.30333 | 0.1728605 | 0.21221614 | 2.7836659 | 20 | 6 22.0 | 21.2 |
| 338856 2003 $YJ_{25}$ | 16.5 | X | 296.44874 | 151.78241 | 289.57484 | 5.67187 | 0.2375634 | 0.22881652 | 2.6473486 | 20 | 10 24.7 | 19.1 |
| 338857 2003 $YE_{30}$ | 16.1 | X | 192.16715 | 18.08780 | 43.11045 | 5.80435 | 0.1492541 | 0.21128790 | 2.7918128 | 20 | 5 31.1 | 20.5 |
| 338858 2003 $YP_{40}$ | 13.1 | X | 169.77867 | 145.27578 | 294.74518 | 25.96578 | 0.0369927 | 0.08214481 | 5.2410220 | 20 | 6 1.4 | 20.4 |
| 338859 2003 $YL_{97}$ | 16.3 | X | 217.02388 | 179.16749 | 248.00812 | 4.43868 | 0.2143182 | 0.21277184 | 2.7788170 | 20 | 6 27.6 | 20.9 |
| 338860 2003 $YN_{105}$ | 16.1 | X | 212.72949 | 304.50668 | 109.56496 | 10.27946 | 0.2154303 | 0.21195233 | 2.7859752 | 20 | 6 8.8 | 20.9 |
| 338861 2003 $YH_{116}$ | 15.4 | X | 11.87143 | 188.97654 | 306.16235 | 10.44765 | 0.0431483 | 0.18513229 | 3.0489333 | 20 | 1 23.2 | 19.3 |
| 338862 2003 $YO_{130}$ | 16.7 | X | 290.19102 | 125.84990 | 301.18400 | 8.14102 | 0.2455185 | 0.22576664 | 2.6711372 | 20 | 9 16.7 | 19.8 |
| 338863 2003 $YX_{136}$ | 16.1 | X | 277.19767 | 104.42219 | 317.00790 | 6.99849 | 0.3382832 | 0.22474766 | 2.6792049 | 20 | 8 7.1 | 19.7 |
| 338864 2003 $YY_{138}$ | 16.4 | X | 164.67674 | 327.37509 | 123.50695 | 9.20045 | 0.1560057 | 0.20454927 | 2.8527963 | 20 | 6 13.1 | 21.1 |
| 338865 2003 $YQ_{139}$ | 16.8 | X | 197.41167 | 60.07280 | 10.54153 | 8.28060 | 0.2980261 | 0.21069813 | 2.7970202 | 20 | 6 12.1 | 22.0 |
| 338866 2003 $YR_{158}$ | 16.0 | X | 223.34687 | 265.82082 | 121.10158 | 10.26559 | 0.1799694 | 0.21128403 | 2.7918470 | 20 | 5 19.7 | 20.7 |
| 338867 2003 $YT_{174}$ | 15.6 | X | 284.11291 | 143.73093 | 92.53861 | 7.18861 | 0.0261506 | 0.18778337 | 3.0201693 | 20 | 2 6.9 | 19.9 |
| 338868 2004 $AD_{6}$ | 16.7 | X | 205.07065 | 75.32654 | 350.00188 | 10.11459 | 0.2565781 | 0.21028162 | 2.8007124 | 20 | 6 12.7 | 21.8 |
| 338869 2004 $AA_{8}$ | 17.8 | X | 111.96186 | 100.38824 | 342.56750 | 4.91893 | 0.2195992 | 0.31575030 | 2.1358637 | 20 | 4 11.1 | 20.4 |
| 338870 2004 $AA_{23}$ | 16.0 | X | 186.64968 | 221.22468 | 123.85741 | 10.91694 | 0.0666584 | 0.19029859 | 2.9934982 | 20 | 2 26.3 | 20.5 |
| 338871 2004 $BQ_{9}$ | 17.3 | X | 131.78481 | 57.82950 | 339.44537 | 3.30748 | 0.0882201 | 0.30947850 | 2.1646236 | 20 | 2 16.2 | 19.8 |
| 338872 2004 $BB_{10}$ | 17.4 | X | 326.83524 | 169.23429 | 358.65223 | 4.35526 | 0.0794153 | 0.30122604 | 2.2039803 | 20 | — | — |
| 338873 2004 $BT_{12}$ | 16.3 | X | 104.24245 | 57.62431 | 104.31752 | 6.85816 | 0.0630190 | 0.20347159 | 2.8628606 | 20 | 6 30.6 | 20.1 |
| 338874 2004 $BE_{18}$ | 15.5 | X | 268.34424 | 342.68624 | 58.68530 | 15.59075 | 0.1876224 | 0.21365283 | 2.7711728 | 20 | 7 24.9 | 19.6 |
| 338875 2004 $BM_{50}$ | 17.5 | X | 87.86992 | 106.64550 | 315.11817 | 4.43724 | 0.1078290 | 0.30719288 | 2.1753474 | 20 | 1 20.4 | 19.6 |
| 338876 2004 $BB_{57}$ | 17.3 | X | 73.11361 | 67.88002 | 10.18083 | 4.61912 | 0.0977902 | 0.30550690 | 2.1833433 | 20 | 1 19.2 | 19.3 |
| 338877 2004 $BM_{58}$ | 17.2 | X | 2.94788 | 237.18653 | 264.92871 | 6.43727 | 0.1078917 | 0.30370923 | 2.1919504 | 20 | — | — |
| 338878 2004 $BF_{63}$ | 15.6 | X | 29.43150 | 189.44547 | 307.65199 | 10.81654 | 0.0692117 | 0.18821631 | 3.0155362 | 20 | 2 16.0 | 19.5 |
| 338879 2004 $BR_{79}$ | 15.6 | X | 67.32497 | 311.11498 | 169.07929 | 10.94368 | 0.0625292 | 0.18979363 | 2.9988054 | 20 | 3 21.3 | 19.6 |
| 338880 2004 $BR_{90}$ | 16.5 | X | 240.04149 | 177.25831 | 284.57755 | 2.39199 | 0.1607251 | 0.21692085 | 2.7432698 | 20 | 9 7.6 | 20.6 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338881 2004 $BM_{99}$ | 16.7 | X | 157.06834 | 128.51231 | 130.68618 | 6.98325 | 0.1112020 | 0.28210751 | 2.3024646 | 20 | — | — |
| 338882 2004 $BY_{100}$ | 17.8 | X | 232.52328 | 98.52633 | 133.05059 | 5.98405 | 0.1183596 | 0.29511646 | 2.2342946 | 20 | — | — |
| 338883 2004 $BM_{115}$ | 17.2 | X | 168.55109 | 329.22743 | 325.74209 | 5.91936 | 0.1207303 | 0.29619327 | 2.2288761 | 20 | — | — |
| 338884 2004 $BW_{117}$ | 16.0 | X | 67.53661 | 181.16925 | 294.39583 | 14.31622 | 0.1968597 | 0.19084503 | 2.9877813 | 20 | 3 25.2 | 20.1 |
| 338885 2004 $BE_{137}$ | 16.5 | X | 38.68142 | 45.75555 | 103.28076 | 4.12129 | 0.0113893 | 0.19116365 | 2.9844605 | 20 | 3 15.7 | 20.6 |
| 338886 2004 $BY_{140}$ | 13.6 | X | 220.44299 | 95.93853 | 286.39011 | 2.87261 | 0.0592072 | 0.07962307 | 5.3511047 | 20 | 5 17.9 | 20.9 |
| 338887 2004 $BU_{144}$ | 16.7 | X | 85.67909 | 172.41970 | 309.22659 | 4.22060 | 0.0098541 | 0.19415065 | 2.9537709 | 20 | 4 5.6 | 20.8 |
| 338888 2004 $BC_{150}$ | 17.9 | X | 25.14782 | 113.62182 | 4.28313 | 2.60642 | 0.0867199 | 0.30489925 | 2.1862433 | 20 | — | — |
| 338889 2004 $BV_{151}$ | 15.6 | X | 49.19337 | 340.94086 | 149.06627 | 10.68226 | 0.0497567 | 0.19067125 | 2.9895965 | 20 | 3 7.9 | 19.5 |
| 338890 2004 $CS_{3}$ | 15.6 | X | 280.29506 | 74.03916 | 143.60231 | 9.91276 | 0.1042251 | 0.17921477 | 3.1156848 | 20 | 1 1.1 | 20.4 |
| 338891 2004 $CW_{5}$ | 15.9 | X | 351.39193 | 212.51389 | 317.74807 | 12.60768 | 0.1567755 | 0.18371169 | 3.0646310 | 20 | 1 29.7 | 19.5 |
| 338892 2004 $CB_{16}$ | 16.4 | X | 112.15985 | 48.17731 | 8.18370 | 0.76141 | 0.1138863 | 0.18737142 | 3.0245944 | 20 | 3 5.5 | 20.7 |
| 338893 2004 $CJ_{27}$ | 16.2 | X | 85.96979 | 137.10532 | 339.42162 | 8.57941 | 0.1952789 | 0.19204311 | 2.9753420 | 20 | 4 25.2 | 20.5 |
| 338894 2004 $CP_{27}$ | 16.9 | X | 151.58207 | 25.80741 | 33.27210 | 2.20892 | 0.0933076 | 0.19675575 | 2.9276406 | 20 | 4 17.9 | 21.3 |
| 338895 2004 $CD_{48}$ | 17.1 | X | 323.62722 | 227.25002 | 349.00641 | 3.67793 | 0.0770912 | 0.30566191 | 2.1826051 | 20 | 2 6.6 | 19.4 |
| 338896 2004 $CJ_{50}$ | 15.4 | X | 303.25073 | 15.39206 | 159.40379 | 29.78209 | 0.1685641 | 0.17421433 | 3.1750225 | 20 | — | — |
| 338897 2004 $CW_{54}$ | 15.7 | X | 307.61073 | 192.31218 | 356.68685 | 10.24953 | 0.1523301 | 0.17681371 | 3.1438278 | 20 | — | — |
| 338898 2004 $CT_{75}$ | 16.1 | X | 85.51263 | 329.85963 | 163.20197 | 5.08515 | 0.0639121 | 0.19428698 | 2.9523890 | 20 | 5 1.7 | 20.1 |
| 338899 2004 $CF_{93}$ | 15.2 | X | 83.63773 | 322.76759 | 111.23964 | 13.56935 | 0.1599999 | 0.18772606 | 3.0207840 | 20 | 3 2.6 | 19.4 |
| 338900 2004 $CS_{93}$ | 15.4 | X | 356.20993 | 177.76020 | 333.08965 | 9.28992 | 0.1379558 | 0.18048570 | 3.1010411 | 20 | 1 16.2 | 19.2 |
| 338901 2004 $CP_{99}$ | 16.9 | X | 221.32767 | 214.22583 | 344.55397 | 24.31666 | 0.1148246 | 0.28454186 | 2.2893135 | 20 | — | — |
| 338902 2004 $CH_{100}$ | 15.2 | X | 296.18850 | 210.11009 | 352.12168 | 27.74606 | 0.1621061 | 0.17561340 | 3.1581369 | 20 | — | — |
| 338903 2004 $CX_{128}$ | 15.9 | X | 158.80410 | 51.97479 | 348.87200 | 9.28400 | 0.0871704 | 0.19131010 | 2.9829372 | 20 | 3 31.7 | 20.6 |
| 338904 2004 $DN_{1}$ | 16.8 | X | 119.80016 | 104.87313 | 132.96925 | 21.62070 | 0.2294141 | 0.27298983 | 2.3534505 | 20 | 11 17.2 | 21.3 |
| 338905 2004 $DB_{10}$ | 15.3 | X | 262.62776 | 213.47867 | 346.40902 | 15.83834 | 0.1381811 | 0.17082690 | 3.2168579 | 20 | — | — |
| 338906 2004 $DL_{26}$ | 15.7 | X | 120.05315 | 54.75941 | 348.16152 | 9.34733 | 0.0739113 | 0.18553288 | 3.0445430 | 20 | 2 23.6 | 20.0 |
| 338907 2004 $DJ_{27}$ | 15.7 | X | 318.12475 | 214.89788 | 352.39117 | 10.23216 | 0.0511296 | 0.18299104 | 3.0726717 | 20 | 2 11.9 | 19.9 |
| 338908 2004 $DH_{33}$ | 15.7 | X | 336.40612 | 194.38374 | 359.38086 | 8.35784 | 0.1947855 | 0.18068585 | 3.0987505 | 20 | 2 1.7 | 19.5 |
| 338909 2004 $DM_{35}$ | 15.9 | X | 346.42463 | 2.17165 | 170.23478 | 19.30921 | 0.0753720 | 0.18210895 | 3.0825859 | 20 | 1 30.2 | 20.3 |
| 338910 2004 $DW_{38}$ | 17.5 | X | 126.97203 | 39.28289 | 339.92378 | 7.59027 | 0.1122115 | 0.30384254 | 2.1913092 | 20 | 1 21.6 | 20.1 |
| 338911 2004 $DE_{45}$ | 15.4 | X | 24.68083 | 141.85372 | 318.68738 | 8.95744 | 0.0539336 | 0.17716297 | 3.1396947 | 20 | — | — |
| 338912 2004 $DJ_{56}$ | 17.5 | X | 323.49581 | 241.54359 | 303.37738 | 3.85431 | 0.0524020 | 0.30176741 | 2.2013435 | 20 | — | — |
| 338913 2004 $DS_{56}$ | 18.0 | X | 51.47956 | 156.29916 | 318.33619 | 4.62940 | 0.0342657 | 0.30573738 | 2.1822459 | 20 | 1 31.1 | 20.3 |
| 338914 2004 $DU_{56}$ | 16.1 | X | 133.93038 | 102.74703 | 320.99635 | 8.48854 | 0.0485423 | 0.19050166 | 2.9913705 | 20 | 3 27.4 | 20.5 |
| 338915 2004 $DM_{66}$ | 15.8 | X | 229.30865 | 207.41237 | 102.25222 | 11.42659 | 0.0565273 | 0.19460234 | 2.9491986 | 20 | 3 2.0 | 20.3 |
| 338916 2004 $ED_{1}$ | 17.6 | X | 114.12953 | 262.04246 | 10.55299 | 22.39257 | 0.1013922 | 0.39973814 | 1.8250958 | 20 | — | — |
| 338917 2004 $EN_{2}$ | 17.6 | X | 355.83401 | 131.38414 | 333.06791 | 4.67528 | 0.1022877 | 0.29385999 | 2.2406589 | 20 | — | — |
| 338918 2004 $EO_{3}$ | 15.7 | X | 139.40704 | 57.22241 | 48.51780 | 14.41260 | 0.0566156 | 0.19628069 | 2.9323625 | 20 | 5 28.4 | 20.1 |
| 338919 2004 $ES_{4}$ | 16.1 | X | 317.82234 | 180.07176 | 0.07185 | 8.33469 | 0.1762085 | 0.17592913 | 3.1543572 | 20 | — | — |
| 338920 2004 $EU_{8}$ | 17.3 | X | 285.00754 | 45.66312 | 164.46085 | 4.23383 | 0.1134870 | 0.29495438 | 2.2351130 | 20 | — | — |
| 338921 2004 $EQ_{12}$ | 17.3 | X | 253.12579 | 244.80727 | 359.56447 | 6.24072 | 0.1267209 | 0.29618123 | 2.2289365 | 20 | — | — |
| 338922 2004 $EJ_{13}$ | 17.0 | X | 149.58914 | 214.40009 | 27.02630 | 6.79337 | 0.0752391 | 0.27877645 | 2.3207694 | 20 | 12 13.9 | 20.3 |
| 338923 2004 $EK_{13}$ | 15.8 | X | 31.46597 | 105.76218 | 69.06630 | 3.60148 | 0.1091494 | 0.18781370 | 3.0198442 | 20 | 4 13.7 | 19.4 |
| 338924 2004 $EO_{19}$ | 15.7 | X | 127.14848 | 74.95631 | 351.84343 | 9.93259 | 0.1142074 | 0.18883599 | 3.0089354 | 20 | 4 1.4 | 20.2 |
| 338925 2004 $EZ_{27}$ | 16.2 | X | 20.59303 | 334.99855 | 162.30192 | 1.12261 | 0.1207912 | 0.18101485 | 3.0949947 | 20 | 2 6.6 | 19.9 |
| 338926 2004 $EL_{35}$ | 16.7 | X | 328.19539 | 137.89093 | 62.68931 | 4.84809 | 0.0738909 | 0.30081088 | 2.2060077 | 20 | 1 23.7 | 19.1 |
| 338927 2004 $EO_{36}$ | 17.0 | X | 346.43771 | 161.29059 | 343.38827 | 5.49038 | 0.0728080 | 0.29660687 | 2.2268036 | 20 | — | — |
| 338928 2004 $EJ_{39}$ | 17.0 | X | 282.27331 | 209.69828 | 355.16876 | 6.18676 | 0.0778978 | 0.29533936 | 2.2331702 | 20 | — | — |
| 338929 2004 $EM_{40}$ | 15.7 | X | 276.95906 | 211.07781 | 356.70134 | 18.58789 | 0.0893552 | 0.17271642 | 3.1933533 | 20 | — | — |
| 338930 2004 $ED_{41}$ | 17.1 | X | 49.86903 | 74.26906 | 10.51686 | 4.33109 | 0.0649119 | 0.29813347 | 2.2191955 | 20 | — | — |
| 338931 2004 $EU_{41}$ | 15.3 | X | 62.18792 | 162.23982 | 8.66383 | 11.46385 | 0.0381745 | 0.19282070 | 2.9673375 | 20 | 5 10.7 | 19.5 |
| 338932 2004 $EH_{42}$ | 16.9 | X | 289.92657 | 184.53811 | 13.85826 | 8.49818 | 0.1021746 | 0.29438603 | 2.2379888 | 20 | — | — |
| 338933 2004 $EY_{46}$ | 15.9 | X | 77.00012 | 112.16290 | 1.65321 | 10.44801 | 0.1021743 | 0.18682945 | 3.0304410 | 20 | 3 30.1 | 20.0 |
| 338934 2004 $EU_{48}$ | 17.5 | X | 349.13983 | 296.56462 | 244.07894 | 1.62937 | 0.0990827 | 0.30244799 | 2.1980400 | 20 | 1 21.4 | 19.8 |
| 338935 2004 $EY_{52}$ | 15.6 | X | 76.48973 | 114.65924 | 13.83935 | 10.28538 | 0.0486503 | 0.18797396 | 3.0181276 | 20 | 4 9.7 | 19.8 |
| 338936 2004 $EG_{53}$ | 15.5 | X | 314.94956 | 45.72759 | 158.41767 | 10.40803 | 0.0760534 | 0.17834597 | 3.1257952 | 20 | 1 28.6 | 19.9 |
| 338937 2004 $EQ_{53}$ | 17.4 | X | 213.32292 | 89.08523 | 111.65585 | 3.07901 | 0.1313144 | 0.28226430 | 2.3016118 | 20 | 12 30.9 | 20.1 |
| 338938 2004 $EF_{59}$ | 15.6 | X | 354.06086 | 67.24053 | 106.89696 | 13.32940 | 0.1104904 | 0.17869985 | 3.1216671 | 20 | 2 14.7 | 19.6 |
| 338939 2004 $EN_{60}$ | 18.0 | X | 52.67759 | 262.29370 | 179.33060 | 5.03756 | 0.1614437 | 0.30092171 | 2.2054660 | 20 | — | — |
| 338940 2004 $EU_{61}$ | 15.7 | X | 302.90160 | 191.89446 | 356.34390 | 23.55994 | 0.1201224 | 0.17413276 | 3.1760138 | 20 | — | — |
| 338941 2004 $EJ_{63}$ | 17.5 | X | 264.67080 | 25.01741 | 196.86409 | 4.53319 | 0.1265181 | 0.29366229 | 2.2416644 | 20 | — | — |
| 338942 2004 $EC_{64}$ | 15.0 | X | 280.32956 | 223.92021 | 0.65892 | 22.68207 | 0.1176859 | 0.17818244 | 3.1277073 | 20 | 1 14.0 | 20.0 |
| 338943 2004 $EL_{64}$ | 16.1 | X | 156.50351 | 8.53216 | 62.04501 | 2.80086 | 0.0945818 | 0.19411894 | 2.9540926 | 20 | 5 7.8 | 20.6 |
| 338944 2004 $ER_{66}$ | 15.3 | X | 13.64465 | 167.58274 | 0.57091 | 16.94769 | 0.0624915 | 0.18197457 | 3.0841033 | 20 | 3 9.3 | 19.3 |
| 338945 2004 $EL_{69}$ | 16.2 | X | 79.68991 | 309.88687 | 173.61613 | 9.43601 | 0.1173183 | 0.18984834 | 2.9982294 | 20 | 4 20.3 | 20.3 |
| 338946 2004 $ET_{70}$ | 16.3 | X | 64.92141 | 129.86228 | 347.22306 | 5.21099 | 0.2052716 | 0.18638590 | 3.0352468 | 20 | 4 1.1 | 19.9 |
| 338947 2004 $EN_{74}$ | 17.1 | X | 268.68261 | 181.91832 | 19.47239 | 7.69297 | 0.0709317 | 0.29069215 | 2.2569079 | 20 | — | — |
| 338948 2004 $ER_{75}$ | 15.6 | X | 0.22498 | 140.28487 | 17.23172 | 17.34245 | 0.1576942 | 0.17859628 | 3.1228739 | 20 | 2 4.9 | 19.6 |
| 338949 2004 $EW_{75}$ | 16.3 | X | 96.76336 | 3.63504 | 130.12479 | 2.77303 | 0.1058238 | 0.19346131 | 2.9607834 | 20 | 5 22.1 | 20.4 |
| 338950 2004 $EA_{76}$ | 15.7 | X | 254.56953 | 232.68013 | 357.96051 | 17.14996 | 0.1851002 | 0.17104993 | 3.2140610 | 20 | — | — |
| 338951 2004 $EQ_{85}$ | 15.7 | X | 339.35801 | 178.04573 | 17.47428 | 17.29576 | 0.1371842 | 0.18066793 | 3.0989555 | 20 | 2 21.8 | 19.8 |
| 338952 2004 $EL_{88}$ | 16.4 | X | 49.27618 | 141.22374 | 346.57238 | 11.87593 | 0.1377404 | 0.18493852 | 3.0510627 | 20 | 3 12.4 | 19.9 |
| 338953 2004 $EL_{101}$ | 15.5 | X | 202.42469 | 329.86110 | 347.31971 | 10.77754 | 0.0761338 | 0.17903373 | 3.1177848 | 20 | 2 11.3 | 20.3 |
| 338954 2004 $ED_{104}$ | 16.8 | X | 86.69585 | 301.44078 | 153.70607 | 1.60698 | 0.1033232 | 0.18561778 | 3.0436147 | 20 | 3 21.1 | 21.0 |
| 338955 2004 $EM_{111}$ | 18.2 | X | 174.09159 | 40.74102 | 215.61094 | 1.82020 | 0.1288505 | 0.28354629 | 2.2946691 | 20 | — | — |
| 338956 2004 $ET_{112}$ | 17.6 | X | 196.25581 | 162.22203 | 116.94257 | 5.88028 | 0.1097094 | 0.29186271 | 2.2508695 | 20 | — | — |
| 338957 2004 $EH_{113}$ | 15.9 | X | 185.54483 | 295.78212 | 11.22493 | 9.03177 | 0.0560853 | 0.17453867 | 3.1710878 | 20 | 1 12.8 | 20.7 |
| 338958 2004 $EU_{113}$ | 15.7 | X | 220.61086 | 150.72461 | 163.75399 | 16.47894 | 0.0630207 | 0.18168169 | 3.0874169 | 20 | 2 23.6 | 20.3 |
| 338959 2004 $FO_{6}$ | 16.4 | X | 10.96718 | 193.33223 | 8.45696 | 6.76912 | 0.0852095 | 0.19091016 | 2.9871018 | 20 | 4 12.8 | 20.0 |
| 338960 2004 $FH_{18}$ | 17.0 | X | 81.24069 | 161.38435 | 110.41046 | 5.98513 | 0.2123018 | 0.26578648 | 2.3957829 | 20 | 11 18.7 | 20.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 338961 2004 $FB_{20}$ | 16.0 | $X$ | 331.86345 | 348.82660 | 183.66708 | 16.67343 | 0.1530687 | 0.17722665 | 3.1389425 | 20 | 1 2.1 | 20.4 |
| 338962 2004 $FC_{23}$ | 15.6 | $X$ | 253.80770 | 87.12834 | 177.72278 | 9.59125 | 0.0572891 | 0.17802409 | 3.1295618 | 20 | 1 31.4 | 20.4 |
| 338963 2004 $FC_{26}$ | 16.6 | $X$ | 171.34091 | 339.04352 | 268.97910 | 5.68779 | 0.0933523 | 0.28134368 | 2.3066300 | 20 | — | — |
| 338964 2004 $FX_{33}$ | 17.3 | $X$ | 169.84336 | 256.43653 | 322.27854 | 6.62463 | 0.2094308 | 0.27687742 | 2.3313690 | 20 | 11 26.7 | 21.2 |
| 338965 2004 $FG_{41}$ | 15.1 | $X$ | 231.26766 | 260.32373 | 348.87855 | 16.06603 | 0.0585676 | 0.17172181 | 3.2056720 | 20 | — | — |
| 338966 2004 $FU_{42}$ | 16.9 | $X$ | 173.09719 | 80.93032 | 153.02081 | 7.24700 | 0.1906071 | 0.28197094 | 2.3032079 | 20 | 12 22.2 | 20.5 |
| 338967 2004 $FK_{46}$ | 15.9 | $X$ | 111.18632 | 58.98872 | 41.39608 | 5.30259 | 0.1034627 | 0.19101260 | 2.9860337 | 20 | 4 26.2 | 20.2 |
| 338968 2004 $FA_{50}$ | 17.7 | $X$ | 174.31552 | 342.44439 | 244.47108 | 1.21164 | 0.1694614 | 0.27783628 | 2.3260020 | 20 | 12 15.3 | 21.2 |
| 338969 2004 $FR_{53}$ | 16.6 | $X$ | 111.41123 | 353.02286 | 100.41874 | 3.17338 | 0.0196635 | 0.18857507 | 3.0117103 | 20 | 4 8.0 | 20.8 |
| 338970 2004 $FF_{54}$ | 16.2 | $X$ | 24.10958 | 164.23207 | 335.26991 | 4.47948 | 0.1463393 | 0.18209655 | 3.0827258 | 20 | 2 16.1 | 19.6 |
| 338971 2004 $FQ_{56}$ | 15.8 | $X$ | 351.66462 | 160.85658 | 18.96830 | 27.52796 | 0.0848035 | 0.17882283 | 3.1202358 | 20 | 3 3.9 | 20.3 |
| 338972 2004 $FG_{65}$ | 15.7 | $X$ | 28.11355 | 136.88274 | 20.09638 | 18.38897 | 0.1075355 | 0.18216502 | 3.0819534 | 20 | 3 20.6 | 19.6 |
| 338973 2004 $FN_{74}$ | 15.9 | $X$ | 157.08418 | 165.24149 | 185.19696 | 9.81700 | 0.0729186 | 0.17702173 | 3.1413645 | 20 | 1 30.4 | 20.8 |
| 338974 2004 $FN_{77}$ | 17.9 | $X$ | 335.47196 | 320.38693 | 180.06672 | 3.87318 | 0.1365704 | 0.29436968 | 2.2380717 | 20 | — | — |
| 338975 2004 $FS_{84}$ | 17.1 | $X$ | 113.40824 | 57.87609 | 336.97197 | 3.30294 | 0.0182345 | 0.30061452 | 2.2069682 | 20 | 1 8.6 | 19.6 |
| 338976 2004 $FC_{89}$ | 16.1 | $X$ | 76.12002 | 73.22892 | 23.42489 | 9.87225 | 0.1602290 | 0.18447251 | 3.0561988 | 20 | 3 19.8 | 20.1 |
| 338977 2004 $FW_{101}$ | 16.1 | $X$ | 16.38998 | 332.18635 | 195.34547 | 10.21345 | 0.0958251 | 0.18289739 | 3.0737206 | 20 | 3 7.5 | 20.0 |
| 338978 2004 $FT_{104}$ | 17.2 | $X$ | 316.28925 | 40.31047 | 138.80687 | 7.05171 | 0.0561625 | 0.29534387 | 2.2331475 | 20 | — | — |
| 338979 2004 $FC_{105}$ | 16.0 | $X$ | 185.33614 | 266.76484 | 39.25406 | 1.87914 | 0.0690513 | 0.17031575 | 3.2232909 | 20 | 1 11.0 | 20.9 |
| 338980 2004 $FZ_{111}$ | 16.5 | $X$ | 84.80896 | 120.47538 | 11.37529 | 11.52196 | 0.0471768 | 0.18885594 | 3.0087235 | 20 | 4 22.6 | 20.7 |
| 338981 2004 $FM_{112}$ | 17.2 | $X$ | 215.13725 | 265.11611 | 358.35739 | 6.79359 | 0.1022123 | 0.29129196 | 2.2538087 | 20 | — | — |
| 338982 2004 $FV_{112}$ | 17.8 | $X$ | 12.86711 | 347.78907 | 130.72892 | 6.15828 | 0.0895397 | 0.29616051 | 2.2290404 | 20 | — | — |
| 338983 2004 $FV_{126}$ | 16.8 | $X$ | 239.58120 | 253.82531 | 4.19889 | 6.90415 | 0.0992310 | 0.29366195 | 2.2416661 | 20 | — | — |
| 338984 2004 $FF_{128}$ | 15.6 | $X$ | 53.51113 | 73.44618 | 59.73951 | 5.21974 | 0.1279926 | 0.18282721 | 3.0745070 | 20 | 3 28.6 | 19.4 |
| 338985 2004 $FQ_{130}$ | 15.5 | $X$ | 327.17173 | 173.15037 | 37.12709 | 23.85795 | 0.1189510 | 0.17929059 | 3.1148064 | 20 | 3 1.7 | 20.0 |
| 338986 2004 $FE_{135}$ | 17.7 | $X$ | 229.43278 | 279.31495 | 333.65586 | 2.43519 | 0.1354868 | 0.29276453 | 2.2462447 | 20 | — | — |
| 338987 2004 $FZ_{136}$ | 15.4 | $X$ | 165.58499 | 159.48686 | 162.38304 | 10.97516 | 0.0669026 | 0.17291410 | 3.1909190 | 20 | 1 7.6 | 20.3 |
| 338988 2004 $FU_{142}$ | 17.2 | $X$ | 181.03246 | 156.17131 | 73.20302 | 6.64735 | 0.1853254 | 0.27768187 | 2.3268642 | 20 | 12 23.4 | 20.7 |
| 338989 2004 $FO_{145}$ | 15.7 | $X$ | 268.51505 | 235.87510 | 2.79525 | 10.07772 | 0.0364849 | 0.17743624 | 3.1364701 | 20 | 1 24.1 | 20.3 |
| 338990 2004 $GS$ | 17.7 | $X$ | 330.58791 | 141.33335 | 29.05525 | 4.34837 | 0.0467419 | 0.29589581 | 2.2303696 | 20 | — | — |
| 338991 2004 $GC_{3}$ | 16.1 | $X$ | 27.20932 | 290.21196 | 207.06012 | 10.54348 | 0.2672282 | 0.18118706 | 3.0930333 | 20 | 2 19.8 | 19.1 |
| 338992 2004 $GN_{5}$ | 16.9 | $X$ | 208.16529 | 148.47415 | 99.69867 | 6.53216 | 0.1112265 | 0.28478786 | 2.2879950 | 20 | — | — |
| 338993 2004 $GK_{8}$ | 17.9 | $X$ | 138.20363 | 252.50336 | 27.11134 | 6.46200 | 0.1231027 | 0.27848391 | 2.3223944 | 20 | — | — |
| 338994 2004 $GH_{12}$ | 15.2 | $X$ | 334.44557 | 352.80047 | 217.66280 | 18.15407 | 0.0870316 | 0.18019328 | 3.1043951 | 20 | 2 24.8 | 19.6 |
| 338995 2004 $GU_{15}$ | 16.5 | $X$ | 107.76673 | 210.03909 | 74.60695 | 22.31189 | 0.0783339 | 0.27391999 | 2.3481197 | 20 | 12 21.2 | 19.8 |
| 338996 2004 $GQ_{28}$ | 17.0 | $X$ | 315.99770 | 336.86404 | 198.16417 | 5.91112 | 0.0889272 | 0.29374917 | 2.2412224 | 20 | — | — |
| 338997 2004 $GO_{30}$ | 17.4 | $X$ | 121.86199 | 247.16876 | 348.84145 | 2.07981 | 0.1692529 | 0.26877401 | 2.3779965 | 20 | 11 6.7 | 21.3 |
| 338998 2004 $GD_{31}$ | 16.8 | $X$ | 67.26008 | 226.59477 | 45.62557 | 5.63645 | 0.2133964 | 0.26211337 | 2.4181130 | 20 | 11 3.9 | 20.4 |
| 338999 2004 $GF_{32}$ | 16.0 | $X$ | 65.28757 | 282.02107 | 189.17809 | 11.71313 | 0.1323528 | 0.18498391 | 3.0505635 | 20 | 3 14.7 | 19.8 |
| 339000 2004 $GK_{38}$ | 17.3 | $X$ | 283.38466 | 276.47912 | 317.20769 | 4.15590 | 0.1703398 | 0.29679450 | 2.2258650 | 20 | — | — |
| 339001 2004 $GJ_{40}$ | 15.6 | $X$ | 45.00243 | 292.26902 | 196.47842 | 26.16741 | 0.1958994 | 0.18201637 | 3.0836311 | 20 | 3 11.5 | 19.4 |
| 339002 2004 $GK_{42}$ | 17.3 | $X$ | 88.31964 | 246.23754 | 43.88237 | 8.02203 | 0.1185596 | 0.27152319 | 2.3619177 | 20 | 12 9.7 | 20.7 |
| 339003 2004 $GQ_{45}$ | 15.9 | $X$ | 42.32205 | 105.86001 | 33.80917 | 10.23950 | 0.0439133 | 0.18050725 | 3.1007943 | 20 | 3 14.4 | 20.1 |
| 339004 2004 $GC_{47}$ | 17.9 | $X$ | 69.76366 | 246.42605 | 194.68548 | 3.31374 | 0.0819671 | 0.29792586 | 2.2202263 | 20 | 1 15.7 | 20.0 |
| 339005 2004 $GX_{48}$ | 15.8 | $X$ | 285.43966 | 35.07582 | 204.62657 | 11.98269 | 0.0035247 | 0.17665590 | 3.1456999 | 20 | 2 12.0 | 20.4 |
| 339006 2004 $GS_{50}$ | 15.9 | $X$ | 89.50566 | 325.46516 | 126.10453 | 2.00910 | 0.2053944 | 0.18383104 | 3.0633044 | 20 | 4 4.7 | 20.1 |
| 339007 2004 $GH_{52}$ | 16.6 | $X$ | 54.73127 | 293.85288 | 192.12906 | 4.46776 | 0.1100334 | 0.18161601 | 3.0881612 | 20 | 3 16.0 | 20.5 |
| 339008 2004 $GC_{57}$ | 16.3 | $X$ | 0.17689 | 284.36877 | 189.91138 | 13.26596 | 0.0308126 | 0.17084111 | 3.2166795 | 20 | — | — |
| 339009 2004 $GQ_{57}$ | 17.5 | $X$ | 138.68259 | 335.52615 | 327.28504 | 2.42809 | 0.1718683 | 0.28322193 | 2.2964207 | 20 | — | — |
| 339010 2004 $GE_{60}$ | 17.7 | $X$ | 118.66821 | 213.48172 | 58.48760 | 5.35150 | 0.2143763 | 0.27246949 | 2.3564459 | 20 | 12 19.5 | 21.6 |
| 339011 2004 $GF_{71}$ | 17.1 | $X$ | 331.88379 | 77.55204 | 103.84773 | 3.32586 | 0.0827973 | 0.29665844 | 2.2265455 | 20 | — | — |
| 339012 2004 $GT_{74}$ | 15.6 | $X$ | 340.18700 | 108.71444 | 80.40442 | 17.18488 | 0.1820640 | 0.17724337 | 3.1387451 | 20 | 2 5.4 | 19.6 |
| 339013 2004 $GT_{76}$ | 15.3 | $X$ | 323.02794 | 173.45120 | 56.92568 | 17.97908 | 0.0794735 | 0.18104935 | 3.0946015 | 20 | 3 22.1 | 19.8 |
| 339014 2004 $GC_{77}$ | 17.2 | $X$ | 147.67370 | 48.18517 | 185.94613 | 22.77007 | 0.2016472 | 0.27053163 | 2.3676855 | 20 | 11 29.1 | 21.5 |
| 339015 2004 $GF_{78}$ | 17.4 | $X$ | 125.61374 | 59.72190 | 211.13494 | 6.08386 | 0.1934810 | 0.27425542 | 2.3462047 | 20 | 12 23.9 | 21.3 |
| 339016 2004 $GC_{80}$ | 16.7 | $X$ | 346.36338 | 98.93986 | 26.81061 | 10.40153 | 0.0239747 | 0.28910751 | 2.2651474 | 20 | — | — |
| 339017 2004 $GB_{81}$ | 16.0 | $X$ | 336.78643 | 151.32287 | 352.95348 | 11.13529 | 0.1111433 | 0.17408260 | 3.1766239 | 20 | — | — |
| 339018 2004 $GO_{83}$ | 16.0 | $X$ | 59.58247 | 86.27212 | 43.72769 | 10.06502 | 0.0763606 | 0.18232945 | 3.0801002 | 20 | 3 28.6 | 20.1 |
| 339019 2004 $HH$ | 18.1 | $X$ | 121.62107 | 304.10198 | 322.24075 | 4.82934 | 0.1455763 | 0.39511641 | 1.8393004 | 20 | — | — |
| 339020 2004 $HJ_{2}$ | 17.5 | $X$ | 158.22824 | 350.83463 | 218.05540 | 4.62752 | 0.1406319 | 0.27151627 | 2.3619579 | 20 | 11 8.1 | 20.9 |
| 339021 2004 $HC_{10}$ | 17.2 | $X$ | 173.04011 | 173.61610 | 67.62751 | 7.32010 | 0.2172741 | 0.27590842 | 2.3368244 | 20 | 12 27.6 | 20.8 |
| 339022 2004 $HW_{17}$ | 15.5 | $X$ | 346.14984 | 155.05653 | 13.34739 | 9.12170 | 0.1563279 | 0.17561800 | 3.1580818 | 20 | 1 22.3 | 19.5 |
| 339023 2004 $HA_{25}$ | 16.1 | $X$ | 58.48897 | 107.80447 | 42.21216 | 10.09766 | 0.1090765 | 0.18512649 | 3.0489971 | 20 | 4 22.8 | 19.9 |
| 339024 2004 $HO_{25}$ | 15.5 | $X$ | 25.39077 | 88.28807 | 44.92436 | 16.56417 | 0.1300536 | 0.17621988 | 3.1508867 | 20 | 2 19.1 | 19.6 |
| 339025 2004 $HF_{27}$ | 17.5 | $X$ | 137.04399 | 253.09936 | 340.30946 | 1.95256 | 0.1614120 | 0.27069873 | 2.3667111 | 20 | 11 17.4 | 21.1 |
| 339026 2004 $HF_{28}$ | 17.2 | $X$ | 177.01077 | 154.72655 | 100.35893 | 4.73047 | 0.1473935 | 0.27947665 | 2.3168915 | 20 | — | — |
| 339027 2004 $HU_{29}$ | 17.2 | $X$ | 80.81075 | 12.47136 | 270.16012 | 2.60065 | 0.2088179 | 0.26698296 | 2.3886197 | 20 | 11 29.7 | 20.8 |
| 339028 2004 $HB_{33}$ | 17.0 | $X$ | 229.25221 | 136.23934 | 107.20105 | 7.21432 | 0.1354460 | 0.28792472 | 2.2713466 | 20 | — | — |
| 339029 2004 $HQ_{34}$ | 15.1 | $X$ | 111.98959 | 65.21971 | 64.47689 | 13.94634 | 0.1308332 | 0.19125583 | 2.9835015 | 20 | 6 5.5 | 19.6 |
| 339030 2004 $HL_{36}$ | 17.0 | $X$ | 344.13130 | 148.78840 | 34.97471 | 7.60606 | 0.1064642 | 0.29832737 | 2.2182338 | 20 | 1 20.3 | 19.5 |
| 339031 2004 $HY_{37}$ | 15.5 | $X$ | 88.28857 | 52.02857 | 46.71061 | 10.75020 | 0.0963704 | 0.18366662 | 3.0651323 | 20 | 3 30.7 | 19.8 |
| 339032 2004 $HG_{39}$ | 16.1 | $X$ | 26.24512 | 309.71757 | 188.35677 | 10.66043 | 0.1428243 | 0.18225854 | 3.0808990 | 20 | 2 14.9 | 19.8 |
| 339033 2004 $HX_{46}$ | 17.1 | $X$ | 309.07953 | 195.07027 | 10.82358 | 8.50229 | 0.0974373 | 0.29627073 | 2.2284876 | 20 | 1 1.3 | 20.1 |
| 339034 2004 $HO_{53}$ | 15.6 | $X$ | 13.52487 | 91.68017 | 83.71241 | 18.57287 | 0.2387512 | 0.18308645 | 3.0716042 | 20 | 3 27.2 | 19.0 |
| 339035 2004 $HV_{62}$ | 16.4 | $X$ | 7.53005 | 153.79573 | 37.46718 | 5.79170 | 0.0920275 | 0.18046762 | 3.1012482 | 20 | 3 28.4 | 20.2 |
| 339036 2004 $HU_{66}$ | 16.2 | $X$ | 57.06673 | 105.33284 | 33.15700 | 8.77802 | 0.1336030 | 0.18312576 | 3.0711646 | 20 | 4 9.5 | 20.1 |
| 339037 2004 $JH_{1}$ | 17.4 | $X$ | 115.99184 | 26.96272 | 225.39695 | 4.83622 | 0.1300565 | 0.26816106 | 2.3816188 | 20 | 11 21.3 | 20.9 |
| 339038 2004 $JA_{13}$ | 17.6 | $X$ | 46.22762 | 129.53845 | 181.79233 | 24.11219 | 0.0773162 | 0.38895309 | 1.8586798 | 20 | 12 13.5 | 20.3 |
| 339039 2004 $JM_{14}$ | 16.7 | $X$ | 86.92998 | 192.24203 | 95.74422 | 7.26986 | 0.1414224 | 0.26739784 | 2.3861484 | 20 | 12 7.8 | 20.1 |
| 339040 2004 $JH_{25}$ | 17.6 | $X$ | 147.73573 | 201.03047 | 56.50116 | 2.89686 | 0.1975054 | 0.27409097 | 2.3471431 | 20 | 12 26.5 | 21.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339041 2004 $JD_{28}$ | 17.6 | X | 33.59777 | 289.15118 | 26.08254 | 1.15802 | 0.2218733 | 0.26076494 | 2.4264420 | 20 | 11 21.9 | 20.6 |
| 339042 2004 $JN_{31}$ | 17.1 | X | 271.47238 | 350.84482 | 209.70844 | 4.65604 | 0.1217362 | 0.28751836 | 2.2734862 | 20 | — | — |
| 339043 2004 $JH_{34}$ | 17.0 | X | 82.44394 | 179.35785 | 103.19595 | 5.99029 | 0.2092400 | 0.26468826 | 2.4024052 | 20 | 12 1.7 | 20.8 |
| 339044 2004 $JZ_{40}$ | 15.3 | X | 59.69909 | 23.89455 | 85.83129 | 17.55238 | 0.1055424 | 0.17566490 | 3.1575196 | 20 | 3 12.5 | 19.8 |
| 339045 2004 $KK_{4}$ | 17.2 | X | 137.08993 | 41.10865 | 238.11323 | 6.36854 | 0.1060636 | 0.27535951 | 2.3399289 | 20 | — | — |
| 339046 2004 $KK_{11}$ | 17.5 | X | 79.49296 | 250.05360 | 57.71912 | 5.37499 | 0.2383731 | 0.26736265 | 2.3863578 | 20 | 12 31.4 | 21.4 |
| 339047 2004 $LD_{11}$ | 17.4 | X | 238.78684 | 109.00099 | 116.23151 | 6.46115 | 0.1107104 | 0.28430905 | 2.2905631 | 20 | — | — |
| 339048 2004 $LY_{23}$ | 15.8 | X | 64.23045 | 74.66388 | 252.99134 | 21.34345 | 0.1973565 | 0.26275875 | 2.4141519 | 20 | — | — |
| 339049 2004 $LV_{29}$ | 17.3 | X | 15.82732 | 126.25306 | 240.37341 | 4.47839 | 0.1271119 | 0.26059343 | 2.4275065 | 20 | 12 21.7 | 20.1 |
| 339050 2004 $MC_{3}$ | 16.7 | X | 43.96431 | 20.93405 | 315.03780 | 7.81067 | 0.2750717 | 0.26044476 | 2.4284302 | 20 | — | — |
| 339051 2004 $MC_{6}$ | 17.6 | X | 26.80592 | 120.17671 | 222.33216 | 19.81605 | 0.1405065 | 0.38647740 | 1.8666088 | 20 | — | — |
| 339052 2004 $NH$ | 17.0 | X | 37.42304 | 220.35135 | 93.38741 | 5.90400 | 0.1991807 | 0.25715772 | 2.4490802 | 20 | 11 21.9 | 20.1 |
| 339053 2004 $NM_{2}$ | 16.1 | X | 315.65944 | 9.43327 | 314.98766 | 15.15976 | 0.1393240 | 0.24345364 | 2.5401452 | 20 | 6 29.1 | 19.1 |
| 339054 2004 $NU_{9}$ | 16.9 | X | 125.94864 | 140.24652 | 128.58841 | 4.74092 | 0.2018838 | 0.26689593 | 2.3891390 | 20 | 12 20.9 | 20.8 |
| 339055 2004 $NK_{17}$ | 16.7 | X | 64.58359 | 8.12994 | 286.40879 | 6.91177 | 0.2160821 | 0.25839887 | 2.4412316 | 20 | 11 27.9 | 20.4 |
| 339056 2004 $OW$ | 17.2 | X | 76.26832 | 259.93164 | 36.26755 | 3.46605 | 0.1839986 | 0.26214238 | 2.4179347 | 20 | 12 9.2 | 20.8 |
| 339057 2004 $OJ_{8}$ | 17.3 | X | 25.97621 | 237.33631 | 103.65752 | 5.36767 | 0.2204191 | 0.25831301 | 2.4417725 | 20 | 12 15.6 | 20.4 |
| 339058 2004 $PX_{7}$ | 17.3 | X | 36.53072 | 77.67964 | 248.16249 | 3.99445 | 0.2230939 | 0.25591962 | 2.4569727 | 20 | 12 8.6 | 20.4 |
| 339059 2004 $PD_{22}$ | 17.3 | X | 51.35290 | 174.38914 | 139.54703 | 4.56546 | 0.2088056 | 0.25830645 | 2.4418138 | 20 | 12 9.1 | 20.8 |
| 339060 2004 $PL_{23}$ | 17.6 | X | 57.66536 | 65.85705 | 259.86136 | 1.26206 | 0.1872334 | 0.26039066 | 2.4287666 | 20 | 12 27.7 | 20.9 |
| 339061 2004 $PZ_{29}$ | 17.4 | X | 29.98258 | 7.52391 | 337.77647 | 20.20961 | 0.0559448 | 0.38138286 | 1.8831949 | 20 | — | — |
| 339062 2004 $PM_{42}$ | 17.8 | X | 346.00406 | 93.16806 | 317.38862 | 22.49796 | 0.1325591 | 0.38456113 | 1.8728046 | 20 | — | — |
| 339063 2004 $PA_{51}$ | 17.7 | X | 76.21689 | 271.81617 | 46.15843 | 2.87730 | 0.1920985 | 0.26270176 | 2.4145010 | 20 | — | — |
| 339064 2004 $PW_{53}$ | 16.4 | X | 11.88067 | 13.80662 | 7.90531 | 6.95298 | 0.1080524 | 0.25851297 | 2.4405132 | 20 | — | — |
| 339065 2004 $PC_{55}$ | 17.5 | X | 18.30107 | 14.46758 | 330.06707 | 19.40459 | 0.0917812 | 0.38054908 | 1.8859446 | 20 | 12 26.5 | 19.9 |
| 339066 2004 $PR_{68}$ | 16.9 | X | 334.54233 | 217.54623 | 161.61357 | 14.86354 | 0.1189395 | 0.25254988 | 2.4787797 | 20 | 11 2.1 | 19.7 |
| 339067 2004 $PP_{91}$ | 16.7 | X | 23.35729 | 21.95191 | 338.46060 | 5.67224 | 0.1537079 | 0.25861583 | 2.4398660 | 20 | 12 27.9 | 19.7 |
| 339068 2004 $PY_{95}$ | 17.2 | X | 32.21604 | 168.68438 | 151.31851 | 3.99283 | 0.1930506 | 0.25425062 | 2.4677133 | 20 | 11 21.9 | 20.3 |
| 339069 2004 $PQ_{102}$ | 16.5 | X | 50.71389 | 11.40862 | 302.79043 | 5.76528 | 0.1299425 | 0.25477814 | 2.4643059 | 20 | 11 26.3 | 20.0 |
| 339070 2004 $PN_{107}$ | 17.0 | X | 15.05615 | 100.25527 | 240.59691 | 20.65225 | 0.0592284 | 0.37906815 | 1.8908534 | 20 | 12 6.0 | 18.7 |
| 339071 2004 $PH_{111}$ | 17.3 | X | 25.94790 | 311.12830 | 46.99871 | 2.35873 | 0.2049693 | 0.25680339 | 2.4513324 | 20 | — | — |
| 339072 2004 $QK_{13}$ | 15.8 | X | 268.59537 | 111.34879 | 340.43007 | 26.28200 | 0.3825380 | 0.23716560 | 2.5848475 | 20 | 9 1.0 | 19.1 |
| 339073 2004 $QP_{18}$ | 16.1 | X | 35.44580 | 264.81394 | 64.18449 | 11.98108 | 0.3030969 | 0.25740580 | 2.4475064 | 20 | 12 21.5 | 19.6 |
| 339074 2004 $QQ_{21}$ | 16.5 | X | 2.05193 | 349.33999 | 350.40246 | 6.95312 | 0.1232120 | 0.25119796 | 2.4876655 | 20 | 10 18.0 | 19.1 |
| 339075 2004 $RE_{2}$ | 17.4 | X | 50.69742 | 7.89059 | 256.12415 | 19.53493 | 0.0509406 | 0.37173640 | 1.9156345 | 20 | 9 15.6 | 20.0 |
| 339076 2004 $RU_{17}$ | 17.1 | X | 9.35954 | 195.23318 | 186.43735 | 2.15634 | 0.2229164 | 0.25645615 | 2.4535446 | 20 | — | — |
| 339077 2004 $RJ_{18}$ | 16.5 | X | 312.81255 | 311.18878 | 82.18879 | 8.27764 | 0.1514237 | 0.24774057 | 2.5107567 | 20 | 10 10.2 | 19.0 |
| 339078 2004 $RR_{21}$ | 17.5 | X | 37.62560 | 159.46043 | 172.72491 | 2.41074 | 0.2226306 | 0.25573115 | 2.4581797 | 20 | 12 17.9 | 20.7 |
| 339079 2004 $RH_{23}$ | 17.3 | X | 140.20494 | 205.15584 | 68.67154 | 1.78828 | 0.1031343 | 0.26435688 | 2.4044125 | 20 | — | — |
| 339080 2004 $RM_{24}$ | 17.3 | X | 354.85115 | 260.80506 | 353.18338 | 18.82045 | 0.0502928 | 0.35901803 | 1.9606130 | 20 | 5 19.3 | 19.6 |
| 339081 2004 $RF_{28}$ | 17.8 | X | 93.98920 | 135.61264 | 158.40243 | 1.80341 | 0.2302768 | 0.26185680 | 2.4196923 | 20 | 12 25.1 | 21.9 |
| 339082 2004 $RC_{41}$ | 17.2 | X | 30.70160 | 163.90559 | 137.97853 | 2.64104 | 0.1886936 | 0.25090397 | 2.4896083 | 20 | 10 25.1 | 20.1 |
| 339083 2004 $RK_{71}$ | 17.0 | X | 268.50896 | 273.50821 | 201.45893 | 6.51430 | 0.0636675 | 0.25630127 | 2.4545330 | 20 | 11 26.8 | 20.0 |
| 339084 2004 $RQ_{74}$ | 17.1 | X | 37.87166 | 111.40171 | 170.95228 | 23.59509 | 0.0615986 | 0.37069110 | 1.9192341 | 20 | 10 12.6 | 19.1 |
| 339085 2004 $RG_{78}$ | 16.7 | X | 38.71525 | 324.40886 | 24.15532 | 8.01340 | 0.1395593 | 0.25602052 | 2.4563271 | 20 | 12 29.0 | 20.1 |
| 339086 2004 $RM_{86}$ | 16.8 | X | 19.59107 | 151.31623 | 162.18658 | 13.47725 | 0.2303940 | 0.25234857 | 2.4800978 | 20 | 11 3.4 | 19.8 |
| 339087 2004 $RV_{100}$ | 17.8 | X | 343.51772 | 145.97936 | 180.52891 | 10.57465 | 0.2413170 | 0.24545700 | 2.5263049 | 20 | 8 26.7 | 19.6 |
| 339088 2004 $RK_{109}$ | 17.7 | X | 185.33831 | 171.99319 | 354.39891 | 18.24705 | 0.0681150 | 0.37586777 | 1.9015715 | 20 | 10 28.8 | 20.0 |
| 339089 2004 $RO_{110}$ | 17.2 | X | 298.14620 | 157.84268 | 193.54356 | 21.88849 | 0.0710346 | 0.36521968 | 1.9383548 | 20 | 7 22.0 | 19.5 |
| 339090 2004 $RA_{114}$ | 16.8 | X | 325.93094 | 83.18941 | 313.88277 | 17.76972 | 0.1312719 | 0.37603942 | 1.9009928 | 20 | 12 27.7 | 18.3 |
| 339091 2004 $RX_{118}$ | 17.7 | X | 356.38530 | 89.27016 | 235.60708 | 1.34108 | 0.2000009 | 0.24668142 | 2.5179383 | 20 | 9 25.1 | 19.9 |
| 339092 2004 $RK_{129}$ | 17.0 | X | 224.35760 | 158.52284 | 173.60881 | 5.94323 | 0.0626656 | 0.22478987 | 2.6788695 | 20 | 3 17.1 | 20.8 |
| 339093 2004 $RN_{151}$ | 16.7 | X | 358.01609 | 353.90351 | 27.97047 | 10.73669 | 0.1830868 | 0.25302513 | 2.4756749 | 20 | 12 21.3 | 19.5 |
| 339094 2004 $RU_{158}$ | 17.4 | X | 350.22090 | 78.92581 | 257.65166 | 2.21409 | 0.1636354 | 0.24684680 | 2.5168136 | 20 | 9 25.4 | 19.8 |
| 339095 2004 $RA_{159}$ | 17.6 | X | 48.27572 | 119.71563 | 206.90002 | 9.02115 | 0.1621250 | 0.25633612 | 2.4543105 | 20 | 12 15.0 | 21.1 |
| 339096 2004 $RD_{161}$ | 17.5 | X | 325.87739 | 42.35085 | 18.16760 | 21.95184 | 0.0851135 | 0.37851593 | 1.8926920 | 20 | — | — |
| 339097 2004 $RD_{162}$ | 17.2 | X | 0.33257 | 90.14885 | 217.06097 | 11.19314 | 0.2441953 | 0.24600852 | 2.5225278 | 20 | 9 7.3 | 19.5 |
| 339098 2004 $RH_{166}$ | 17.7 | X | 23.96765 | 313.74207 | 44.77247 | 1.93668 | 0.1837743 | 0.25720824 | 2.4487595 | 20 | 12 30.0 | 20.7 |
| 339099 2004 $RU_{167}$ | 16.8 | X | 348.64962 | 337.26221 | 346.14815 | 13.43364 | 0.1581565 | 0.24462138 | 2.5320549 | 20 | 9 2.9 | 19.0 |
| 339100 2004 $RZ_{169}$ | 17.2 | X | 11.66027 | 83.82653 | 197.69120 | 10.05926 | 0.1386520 | 0.24402397 | 2.5361858 | 20 | 8 9.4 | 20.0 |
| 339101 2004 $RN_{173}$ | 15.9 | X | 301.38767 | 351.36036 | 25.77505 | 12.46816 | 0.1961513 | 0.23840996 | 2.5758453 | 20 | 8 16.9 | 18.8 |
| 339102 2004 $RH_{175}$ | 17.1 | X | 90.08019 | 104.87327 | 264.10462 | 6.36977 | 0.2105242 | 0.26908104 | 2.3761872 | 20 | — | — |
| 339103 2004 $RB_{180}$ | 17.1 | X | 22.48056 | 138.88387 | 232.28870 | 4.79143 | 0.1362426 | 0.25736379 | 2.4477727 | 20 | — | — |
| 339104 2004 $RF_{197}$ | 16.9 | X | 349.04087 | 190.58409 | 192.32035 | 6.80290 | 0.1337192 | 0.25195140 | 2.4827036 | 20 | 12 1.3 | 19.5 |
| 339105 2004 $RA_{204}$ | 18.0 | X | 354.26427 | 108.43276 | 274.23023 | 2.28238 | 0.1858423 | 0.25381339 | 2.4705465 | 20 | 12 17.2 | 20.2 |
| 339106 2004 $RY_{206}$ | 14.7 | X | 306.09119 | 26.57621 | 277.52818 | 21.01250 | 0.0812296 | 0.17373787 | 3.1808246 | 20 | 5 20.0 | 19.3 |
| 339107 2004 $RC_{207}$ | 16.8 | X | 345.35205 | 146.21435 | 253.17483 | 12.20887 | 0.2466934 | 0.25464451 | 2.4651679 | 20 | — | — |
| 339108 2004 $RK_{212}$ | 16.7 | X | 294.10136 | 184.93695 | 230.51304 | 14.08624 | 0.2216729 | 0.24602464 | 2.5224176 | 20 | 9 13.9 | 19.5 |
| 339109 2004 $RT_{216}$ | 16.0 | X | 32.32086 | 17.52026 | 261.59416 | 12.67281 | 0.1339199 | 0.24458502 | 2.5323058 | 20 | 9 6.5 | 19.4 |
| 339110 2004 $RV_{218}$ | 16.4 | X | 329.21300 | 53.68084 | 300.18066 | 11.15971 | 0.1442891 | 0.24260688 | 2.5460522 | 20 | 9 1.6 | 19.0 |
| 339111 2004 $RC_{221}$ | 15.9 | X | 354.52828 | 337.97576 | 335.08428 | 13.47831 | 0.2239311 | 0.24113603 | 2.5563951 | 20 | 9 2.2 | 17.8 |
| 339112 2004 $RQ_{221}$ | 16.6 | X | 16.96627 | 105.44851 | 245.10748 | 14.80826 | 0.1680033 | 0.25271382 | 2.4777076 | 20 | 12 6.0 | 19.5 |
| 339113 2004 $RZ_{223}$ | 17.6 | X | 26.39608 | 23.77165 | 319.79763 | 1.80203 | 0.2072998 | 0.25434839 | 2.4670809 | 20 | 12 16.3 | 20.8 |
| 339114 2004 $RK_{230}$ | 16.6 | X | 6.53438 | 284.75036 | 1.34021 | 5.17135 | 0.0873402 | 0.23819476 | 2.5773966 | 20 | 8 6.6 | 19.5 |
| 339115 2004 $RW_{232}$ | 18.2 | X | 319.81977 | 355.41391 | 9.99239 | 5.33888 | 0.3060814 | 0.24346001 | 2.5401009 | 20 | 8 21.3 | 19.6 |
| 339116 2004 $RN_{233}$ | 17.6 | X | 285.12476 | 1.19388 | 34.24790 | 1.93648 | 0.1687388 | 0.24073023 | 2.5592672 | 20 | 8 13.8 | 20.5 |
| 339117 2004 $RZ_{246}$ | 16.4 | X | 16.31161 | 64.18504 | 230.70979 | 11.65559 | 0.0165107 | 0.24206928 | 2.5498204 | 20 | 8 21.0 | 19.9 |
| 339118 2004 $RR_{247}$ | 17.7 | X | 344.79291 | 186.19973 | 200.95235 | 21.64692 | 0.1043911 | 0.37958594 | 1.8891334 | 20 | — | — |
| 339119 2004 $RC_{249}$ | 17.2 | X | 224.90034 | 254.70496 | 237.57096 | 19.87018 | 0.0792061 | 0.37367390 | 1.9090071 | 20 | 11 11.8 | 18.8 |
| 339120 2004 $RE_{249}$ | 17.1 | X | 211.18752 | 228.12725 | 246.75687 | 18.89337 | 0.0898219 | 0.36732671 | 1.9309353 | 20 | 9 9.9 | 19.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339121 2004 $RB_{252}$ | 17.6 | X | 356.23939 | 112.14264 | 268.53511 | 5.45051 | 0.1845113 | 0.25576627 | 2.4579547 | 20 | 12 18.4 | 19.9 |
| 339122 2004 $RD_{255}$ | 17.2 | X | 23.33402 | 319.40412 | 14.75763 | 20.95863 | 0.0822199 | 0.37707709 | 1.8975036 | 20 | 12 6.2 | 19.7 |
| 339123 2004 $RC_{266}$ | 17.4 | X | 318.46732 | 26.52876 | 39.36332 | 2.79306 | 0.1634056 | 0.25358609 | 2.4720226 | 20 | 12 6.9 | 19.7 |
| 339124 2004 $RB_{292}$ | 17.5 | X | 84.92173 | 9.39077 | 188.03629 | 22.85594 | 0.0068743 | 0.36225949 | 1.9488999 | 20 | 7 21.6 | 20.1 |
| 339125 2004 $RB_{304}$ | 17.6 | X | 80.85397 | 22.21345 | 243.30745 | 3.96818 | 0.1492244 | 0.25341949 | 2.4731059 | 20 | 10 31.5 | 21.1 |
| 339126 2004 $RD_{319}$ | 16.5 | X | 168.08361 | 209.65809 | 170.60762 | 9.94131 | 0.0662046 | 0.22370536 | 2.6875205 | 20 | 3 15.3 | 20.3 |
| 339127 2004 $RF_{321}$ | 17.0 | X | 15.50397 | 88.91365 | 209.07123 | 12.66720 | 0.1898476 | 0.24561546 | 2.5252182 | 20 | 9 18.9 | 19.7 |
| 339128 2004 $RM_{325}$ | 15.8 | X | 349.00104 | 62.35914 | 294.38271 | 5.08116 | 0.2668112 | 0.24482286 | 2.5306654 | 20 | 11 4.7 | 17.8 |
| 339129 2004 $RG_{329}$ | 16.9 | X | 312.32049 | 131.04626 | 245.17013 | 5.78836 | 0.1476032 | 0.24432478 | 2.5341036 | 20 | 9 3.6 | 19.6 |
| 339130 2004 $RA_{336}$ | 18.6 | X | 320.24741 | 138.95677 | 223.38995 | 3.86561 | 0.2217861 | 0.24286419 | 2.5442536 | 20 | 8 23.5 | 20.7 |
| 339131 2004 $RP_{337}$ | 17.8 | X | 344.22177 | 309.80903 | 14.82630 | 1.82927 | 0.2258520 | 0.24286088 | 2.5442767 | 20 | 8 27.5 | 19.6 |
| 339132 2004 $RC_{356}$ | 17.7 | X | 359.39870 | 290.23343 | 41.14364 | 5.57712 | 0.1994864 | 0.24592021 | 2.5231316 | 20 | 10 13.6 | 19.9 |
| 339133 2004 $SO_{2}$ | 16.4 | X | 351.13417 | 354.80664 | 44.69497 | 13.03002 | 0.1810563 | 0.25599115 | 2.4565149 | 20 | — | — |
| 339134 2004 $SW_{11}$ | 16.2 | X | 29.70868 | 314.91469 | 54.63707 | 15.34802 | 0.1314730 | 0.25826540 | 2.4420726 | 20 | — | — |
| 339135 2004 $SP_{16}$ | 16.1 | X | 352.76823 | 21.81084 | 33.01247 | 13.06271 | 0.1865173 | 0.25702375 | 2.4499312 | 20 | — | — |
| 339136 2004 $SG_{45}$ | 14.9 | X | 320.41822 | 189.60280 | 243.84088 | 3.36376 | 0.3304611 | 0.12496708 | 3.9622234 | 20 | 10 22.9 | 18.8 |
| 339137 2004 $SC_{48}$ | 16.1 | X | 248.01942 | 149.26861 | 235.47790 | 11.16256 | 0.1634457 | 0.23024425 | 2.6363932 | 20 | 6 9.3 | 20.1 |
| 339138 2004 $SU_{58}$ | 17.1 | X | 328.94586 | 299.97587 | 61.45506 | 9.40235 | 0.2412153 | 0.24538745 | 2.5267823 | 20 | 9 23.9 | 19.0 |
| 339139 2004 $SW_{58}$ | 17.6 | X | 306.50171 | 347.67593 | 36.05094 | 21.59047 | 0.0828561 | 0.36957428 | 1.9230986 | 20 | 10 17.9 | 18.9 |
| 339140 2004 $SN_{59}$ | 17.5 | X | 269.43129 | 55.61983 | 12.46922 | 22.11050 | 0.1132601 | 0.36748562 | 1.9303786 | 20 | 10 7.9 | 18.9 |
| 339141 2004 $TJ$ | 17.0 | X | 288.66151 | 7.20838 | 9.12119 | 5.59764 | 0.1533253 | 0.24014474 | 2.5634253 | 20 | 7 26.4 | 20.0 |
| 339142 2004 $TW_{3}$ | 17.3 | X | 230.10418 | 83.57165 | 21.84501 | 6.72993 | 0.1090215 | 0.24235859 | 2.5477908 | 20 | 9 13.9 | 20.8 |
| 339143 2004 $TD_{5}$ | 16.5 | X | 67.15581 | 253.64813 | 27.22735 | 9.98368 | 0.0592924 | 0.24474292 | 2.5312165 | 20 | 10 23.1 | 19.8 |
| 339144 2004 $TX_{5}$ | 16.9 | X | 298.55051 | 8.49946 | 24.00090 | 8.49653 | 0.1754027 | 0.24242229 | 2.5473445 | 20 | 9 4.9 | 19.6 |
| 339145 2004 $TA_{6}$ | 17.1 | X | 254.61443 | 247.73652 | 189.16931 | 16.37554 | 0.1227038 | 0.24243706 | 2.5472410 | 20 | 8 30.7 | 20.6 |
| 339146 2004 $TG_{7}$ | 16.6 | X | 357.42963 | 277.94896 | 108.53944 | 7.24863 | 0.1278138 | 0.25359887 | 2.4719395 | 20 | 12 19.4 | 19.2 |
| 339147 2004 $TY_{8}$ | 18.7 | X | 27.09244 | 196.46836 | 70.73401 | 0.38666 | 0.1707112 | 0.36674868 | 1.9329636 | 20 | 9 16.0 | 20.1 |
| 339148 2004 $TT_{9}$ | 16.2 | X | 231.39056 | 255.33339 | 204.30354 | 26.49748 | 0.4574485 | 0.23283835 | 2.6167750 | 20 | 7 26.3 | 21.7 |
| 339149 2004 $TU_{10}$ | 18.0 | X | 265.23200 | 54.21949 | 19.96871 | 20.72356 | 0.1091382 | 0.36933940 | 1.9239138 | 20 | 10 12.7 | 19.1 |
| 339150 2004 $TQ_{11}$ | 17.2 | X | 105.30245 | 249.16238 | 274.17382 | 17.19331 | 0.0696170 | 0.35754854 | 1.9659813 | 20 | 7 10.6 | 19.2 |
| 339151 2004 $TJ_{13}$ | 17.2 | X | 250.90190 | 155.67978 | 267.39127 | 18.09768 | 0.0731745 | 0.36666923 | 1.9332428 | 20 | 8 21.3 | 19.6 |
| 339152 2004 $TQ_{23}$ | 17.5 | X | 311.13025 | 17.94586 | 350.92327 | 3.92636 | 0.1939123 | 0.24270824 | 2.5453433 | 20 | 8 19.3 | 19.6 |
| 339153 2004 $TT_{28}$ | 14.7 | X | 291.78155 | 75.87152 | 19.58217 | 10.00237 | 0.2404913 | 0.12379528 | 3.9871874 | 20 | 10 11.4 | 19.7 |
| 339154 2004 $TB_{37}$ | 17.4 | X | 65.86743 | 95.07258 | 199.58883 | 5.78056 | 0.1797939 | 0.25200723 | 2.4823369 | 20 | 11 25.9 | 21.1 |
| 339155 2004 $TT_{44}$ | 17.2 | X | 355.58834 | 327.60962 | 8.52503 | 3.64324 | 0.1539773 | 0.24428477 | 2.5343804 | 20 | 10 5.3 | 19.7 |
| 339156 2004 $TD_{46}$ | 16.2 | X | 13.86585 | 97.84491 | 213.16774 | 13.26136 | 0.0048564 | 0.24081950 | 2.5586347 | 20 | 9 8.9 | 19.7 |
| 339157 2004 $TG_{52}$ | 17.2 | X | 250.77937 | 210.33946 | 228.15778 | 3.43616 | 0.1959958 | 0.23820398 | 2.5773300 | 20 | 8 17.7 | 20.9 |
| 339158 2004 $TO_{53}$ | 17.2 | X | 286.13280 | 142.98220 | 211.15323 | 12.31982 | 0.1086938 | 0.23314170 | 2.6145046 | 20 | 6 24.4 | 20.7 |
| 339159 2004 $TT_{54}$ | 17.0 | X | 297.79549 | 354.06489 | 36.58448 | 13.95431 | 0.1745454 | 0.24072193 | 2.5593260 | 20 | 9 5.1 | 20.0 |
| 339160 2004 $TS_{56}$ | 17.6 | X | 321.88913 | 61.83280 | 290.26930 | 1.87752 | 0.1301115 | 0.24224229 | 2.5486062 | 20 | 8 20.7 | 20.0 |
| 339161 2004 $TS_{61}$ | 17.5 | X | 345.17053 | 359.95594 | 25.95739 | 5.66964 | 0.2260693 | 0.25109907 | 2.4883186 | 20 | 12 8.9 | 19.6 |
| 339162 2004 $TJ_{63}$ | 16.9 | X | 75.18977 | 59.73806 | 214.59918 | 2.45308 | 0.0571295 | 0.24727797 | 2.5138871 | 20 | 10 25.0 | 20.3 |
| 339163 2004 $TK_{66}$ | 17.4 | X | 329.91183 | 283.00581 | 65.43215 | 6.09048 | 0.3215845 | 0.24379461 | 2.5377762 | 20 | 8 25.3 | 18.6 |
| 339164 2004 $TO_{66}$ | 17.2 | X | 297.94876 | 358.81824 | 37.81814 | 22.86680 | 0.0506205 | 0.36923752 | 1.9242677 | 20 | 10 22.7 | 18.6 |
| 339165 2004 $TO_{67}$ | 17.2 | X | 311.93089 | 280.99304 | 73.80880 | 7.97473 | 0.3464235 | 0.24123673 | 2.5556837 | 20 | 6 29.8 | 19.5 |
| 339166 2004 $TO_{68}$ | 17.1 | X | 290.10166 | 309.47953 | 83.31268 | 5.80604 | 0.2382464 | 0.24079751 | 2.5587904 | 20 | 8 7.1 | 19.9 |
| 339167 2004 $TE_{69}$ | 14.6 | X | 329.78526 | 8.04857 | 50.16694 | 8.86262 | 0.2458666 | 0.12578413 | 3.9450468 | 20 | 11 3.2 | 18.8 |
| 339168 2004 $TW_{77}$ | 18.0 | X | 358.33926 | 322.62128 | 30.71165 | 21.18656 | 0.0934199 | 0.37486910 | 1.9049472 | 20 | 11 27.1 | 19.9 |
| 339169 2004 $TG_{87}$ | 17.5 | X | 290.02183 | 325.92162 | 62.16724 | 0.86151 | 0.1122776 | 0.24148106 | 2.5539594 | 20 | 8 19.9 | 20.2 |
| 339170 2004 $TQ_{89}$ | 17.8 | X | 311.69796 | 314.95052 | 135.21666 | 1.88093 | 0.1532832 | 0.25394310 | 2.4697051 | 20 | 12 29.4 | 19.9 |
| 339171 2004 $TV_{92}$ | 18.5 | X | 315.39082 | 19.01158 | 15.43786 | 5.71524 | 0.2415715 | 0.24528385 | 2.5274937 | 20 | 10 5.3 | 20.2 |
| 339172 2004 $TQ_{93}$ | 17.1 | X | 97.93451 | 211.71912 | 17.99682 | 1.80094 | 0.1031405 | 0.24309490 | 2.5426436 | 20 | 9 28.9 | 20.5 |
| 339173 2004 $TT_{95}$ | 17.6 | X | 299.83438 | 184.19704 | 198.18190 | 2.48579 | 0.1134259 | 0.24113750 | 2.5563847 | 20 | 8 26.6 | 20.5 |
| 339174 2004 $TQ_{105}$ | 17.4 | X | 259.04714 | 254.74596 | 195.97719 | 5.24339 | 0.1707666 | 0.24448854 | 2.5329719 | 20 | 9 19.6 | 20.4 |
| 339175 2004 $TC_{110}$ | 16.2 | X | 292.55480 | 267.72282 | 142.17356 | 6.44265 | 0.1568306 | 0.24247583 | 2.5469695 | 20 | 9 20.4 | 18.8 |
| 339176 2004 $TW_{114}$ | 16.9 | X | 290.91827 | 216.30349 | 181.28592 | 5.73456 | 0.0666115 | 0.23997794 | 2.5646130 | 20 | 9 9.0 | 19.8 |
| 339177 2004 $TE_{129}$ | 16.5 | X | 227.65565 | 0.66320 | 103.70865 | 4.18050 | 0.1789895 | 0.24059413 | 2.5602322 | 20 | 8 31.1 | 20.2 |
| 339178 2004 $TQ_{134}$ | 17.0 | X | 356.69240 | 186.72963 | 211.33749 | 6.55593 | 0.0863180 | 0.25549789 | 2.4596756 | 20 | 12 27.9 | 19.9 |
| 339179 2004 $TY_{137}$ | 17.6 | X | 235.76347 | 253.58157 | 198.38023 | 21.30536 | 0.1020706 | 0.36522852 | 1.9383235 | 20 | 9 16.1 | 19.8 |
| 339180 2004 $TD_{143}$ | 17.4 | X | 14.73766 | 63.33920 | 239.29641 | 4.61645 | 0.2385406 | 0.24428190 | 2.5344002 | 20 | 10 3.6 | 19.9 |
| 339181 2004 $TV_{145}$ | 17.5 | X | 337.74733 | 201.07802 | 136.95892 | 2.10451 | 0.1581108 | 0.24345076 | 2.5401652 | 20 | 9 1.2 | 19.6 |
| 339182 2004 $TM_{147}$ | 17.4 | X | 347.36240 | 50.13009 | 288.81880 | 2.18540 | 0.1710759 | 0.24465406 | 2.5318294 | 20 | 9 22.9 | 19.6 |
| 339183 2004 $TG_{150}$ | 15.5 | X | 318.61279 | 171.30687 | 251.05087 | 1.77376 | 0.1889340 | 0.12455962 | 3.9708596 | 20 | 10 20.5 | 20.1 |
| 339184 2004 $TE_{156}$ | 15.8 | X | 305.87777 | 54.76071 | 37.02740 | 3.35032 | 0.2168807 | 0.12497786 | 3.9619956 | 20 | 11 1.3 | 20.5 |
| 339185 2004 $TN_{159}$ | 16.3 | X | 295.88839 | 346.95528 | 27.10619 | 9.46625 | 0.1718899 | 0.23829412 | 2.5766800 | 20 | 8 3.3 | 19.3 |
| 339186 2004 $TP_{162}$ | 16.2 | X | 77.65610 | 219.21348 | 37.78694 | 15.23402 | 0.0530330 | 0.24224484 | 2.5485883 | 20 | 10 8.6 | 19.7 |
| 339187 2004 $TV_{162}$ | 17.9 | X | 274.97472 | 48.33137 | 39.67229 | 4.71282 | 0.2413729 | 0.24368204 | 2.5385577 | 20 | 9 30.7 | 20.6 |
| 339188 2004 $TM_{166}$ | 17.9 | X | 1.32394 | 176.80542 | 202.09421 | 4.06414 | 0.1664774 | 0.25329694 | 2.4739035 | 20 | 12 20.6 | 20.6 |
| 339189 2004 $TC_{170}$ | 17.8 | X | 296.86275 | 340.85184 | 48.56356 | 7.20453 | 0.2956825 | 0.24115833 | 2.5562375 | 20 | 8 5.2 | 20.4 |
| 339190 2004 $TG_{171}$ | 17.4 | X | 177.98114 | 239.94433 | 247.12839 | 18.31820 | 0.0606775 | 0.36574398 | 1.9365019 | 20 | 8 16.2 | 20.2 |
| 339191 2004 $TB_{184}$ | 14.6 | X | 291.55782 | 98.95503 | 1.57399 | 8.63706 | 0.2103370 | 0.12417928 | 3.9789635 | 20 | 10 19.3 | 19.7 |
| 339192 2004 $TD_{185}$ | 17.5 | X | 26.93821 | 249.73047 | 14.10210 | 19.93798 | 0.0667794 | 0.36400262 | 1.9426730 | 20 | 9 1.1 | 19.6 |
| 339193 2004 $TH_{201}$ | 17.7 | X | 297.55523 | 248.54814 | 126.03426 | 1.50068 | 0.1455478 | 0.23937283 | 2.5689332 | 20 | 8 7.3 | 20.6 |
| 339194 2004 $TK_{202}$ | 17.7 | X | 345.56853 | 94.77173 | 244.18840 | 5.59852 | 0.2765565 | 0.24292369 | 2.5438381 | 20 | 9 25.4 | 19.4 |
| 339195 2004 $TK_{205}$ | 17.4 | X | 318.09898 | 145.95086 | 226.93387 | 4.15876 | 0.2332450 | 0.24153333 | 2.5535910 | 20 | 9 2.9 | 19.4 |
| 339196 2004 $TR_{209}$ | 17.2 | X | 262.12592 | 258.44699 | 187.89528 | 7.60512 | 0.2101156 | 0.24417134 | 2.5351651 | 20 | 9 11.2 | 20.3 |
| 339197 2004 $TX_{211}$ | 17.8 | X | 294.04436 | 34.61270 | 20.62999 | 4.47654 | 0.1197402 | 0.24438965 | 2.5336552 | 20 | 10 4.7 | 20.5 |
| 339198 2004 $TA_{217}$ | 17.1 | X | 265.89419 | 209.00073 | 224.22170 | 2.80035 | 0.1015562 | 0.24426613 | 2.5345092 | 20 | 9 16.1 | 20.3 |
| 339199 2004 $TQ_{222}$ | 16.7 | X | 273.80131 | 40.75586 | 320.73529 | 9.29652 | 0.1164712 | 0.23398714 | 2.6082030 | 20 | 6 17.1 | 20.3 |
| 339200 2004 $TE_{224}$ | 15.4 | X | 321.86174 | 117.13361 | 297.75724 | 1.69539 | 0.2260167 | 0.12514181 | 3.9585345 | 20 | 10 13.7 | 19.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339201 2004 $TK_{226}$ | 16.2 | $X$ | 112.95033 | 149.54285 | 22.98747 | 13.23328 | 0.0924648 | 0.23575790 | 2.5951266 | 20 | 8 5.3 | 20.2 |
| 339202 2004 $TK_{232}$ | 15.3 | $X$ | 336.66786 | 29.77425 | 19.12729 | 5.29406 | 0.2493117 | 0.12426452 | 3.9771438 | 20 | 11 3.8 | 19.5 |
| 339203 2004 $TN_{245}$ | 17.4 | $X$ | 358.14664 | 279.03377 | 15.27995 | 11.65639 | 0.1920447 | 0.24096303 | 2.5576186 | 20 | 8 15.7 | 19.8 |
| 339204 2004 $TB_{246}$ | 17.5 | $X$ | 352.35352 | 268.15294 | 49.66871 | 1.12618 | 0.2260796 | 0.24408715 | 2.5357481 | 20 | 9 7.4 | 19.4 |
| 339205 2004 $TK_{258}$ | 17.3 | $X$ | 354.56740 | 279.37329 | 9.78039 | 2.76209 | 0.0636671 | 0.23516885 | 2.5994582 | 20 | 7 19.2 | 20.4 |
| 339206 2004 $TP_{260}$ | 17.6 | $X$ | 245.16377 | 344.15506 | 74.24247 | 1.72136 | 0.0135974 | 0.23750161 | 2.5824089 | 20 | 8 12.5 | 20.9 |
| 339207 2004 $TP_{265}$ | 17.3 | $X$ | 210.53941 | 76.52064 | 30.13313 | 6.77420 | 0.0568400 | 0.23789699 | 2.5795468 | 20 | 8 29.4 | 20.9 |
| 339208 2004 $TM_{266}$ | 17.7 | $X$ | 282.73367 | 226.83350 | 217.54269 | 1.78231 | 0.1239729 | 0.24620803 | 2.5211648 | 20 | 10 26.4 | 20.5 |
| 339209 2004 $TT_{269}$ | 17.0 | $X$ | 349.06664 | 190.71146 | 125.28678 | 0.92222 | 0.2006560 | 0.24050200 | 2.5608860 | 20 | 8 23.4 | 18.9 |
| 339210 2004 $TK_{272}$ | 16.6 | $X$ | 297.08879 | 147.90470 | 283.31324 | 2.85591 | 0.1447833 | 0.24560710 | 2.5252755 | 20 | 10 29.2 | 19.0 |
| 339211 2004 $TN_{272}$ | 16.7 | $X$ | 9.65234 | 307.30479 | 22.21734 | 6.42765 | 0.0520484 | 0.24233267 | 2.5479725 | 20 | 10 8.4 | 19.6 |
| 339212 2004 $TN_{274}$ | 16.2 | $X$ | 19.75266 | 304.42017 | 36.98631 | 14.36455 | 0.0636383 | 0.24638127 | 2.5199829 | 20 | 11 8.7 | 19.2 |
| 339213 2004 $TQ_{274}$ | 17.2 | $X$ | 191.29713 | 227.30049 | 230.23916 | 4.51019 | 0.1692067 | 0.22960921 | 2.6412520 | 20 | 7 14.7 | 21.5 |
| 339214 2004 $TT_{275}$ | 16.7 | $X$ | 113.09695 | 148.27058 | 40.89771 | 14.30482 | 0.0553243 | 0.23404391 | 2.6077812 | 20 | 8 25.9 | 20.6 |
| 339215 2004 $TH_{276}$ | 17.1 | $X$ | 240.58864 | 61.57352 | 52.29100 | 3.91104 | 0.1524955 | 0.24185754 | 2.5513084 | 20 | 10 1.3 | 20.5 |
| 339216 2004 $TT_{287}$ | 17.0 | $X$ | 321.76633 | 332.77562 | 43.01475 | 21.94372 | 0.1109129 | 0.36805509 | 1.9283869 | 20 | 11 2.5 | 17.9 |
| 339217 2004 $TB_{288}$ | 17.1 | $X$ | 66.63418 | 236.00082 | 137.45696 | 1.35465 | 0.2016713 | 0.26199808 | 2.4188223 | 20 | — | — |
| 339218 2004 $TH_{299}$ | 17.8 | $X$ | 289.85395 | 105.96504 | 312.76907 | 4.62940 | 0.3219019 | 0.24302397 | 2.5431383 | 20 | 8 27.3 | 20.4 |
| 339219 2004 $TV_{300}$ | 16.6 | $X$ | 287.66366 | 335.35741 | 8.16688 | 10.97478 | 0.2677352 | 0.23381209 | 2.6095046 | 20 | 5 14.5 | 20.3 |
| 339220 2004 $TW_{308}$ | 16.5 | $X$ | 16.36293 | 27.74590 | 267.52436 | 7.68024 | 0.2176901 | 0.24425111 | 2.5346132 | 20 | 9 19.1 | 19.2 |
| 339221 2004 $TD_{322}$ | 17.2 | $X$ | 328.89363 | 340.15901 | 3.64913 | 1.62727 | 0.1669021 | 0.23881155 | 2.5729568 | 20 | 8 20.6 | 19.3 |
| 339222 2004 $TC_{324}$ | 16.4 | $X$ | 41.41994 | 271.99804 | 57.54129 | 6.18885 | 0.0487360 | 0.24716983 | 2.5146203 | 20 | 11 21.8 | 19.6 |
| 339223 Stongemorin | 17.8 | $X$ | 289.09084 | 88.55320 | 333.39205 | 4.02544 | 0.2676024 | 0.24282955 | 2.5444956 | 20 | 9 10.5 | 20.1 |
| 339224 2004 $TD_{326}$ | 16.3 | $X$ | 14.76324 | 267.60217 | 59.42970 | 3.66787 | 0.0227111 | 0.24437074 | 2.5337859 | 20 | 10 10.3 | 19.4 |
| 339225 2004 $TD_{327}$ | 16.6 | $X$ | 323.40444 | 105.87055 | 255.27849 | 12.44893 | 0.1955397 | 0.24113689 | 2.5563891 | 20 | 8 25.6 | 19.3 |
| 339226 2004 $TE_{331}$ | 17.8 | $X$ | 298.33766 | 16.94630 | 4.72798 | 1.58603 | 0.1801319 | 0.24006472 | 2.5639949 | 20 | 8 14.4 | 20.4 |
| 339227 2004 $TE_{342}$ | 16.3 | $X$ | 324.15300 | 263.49152 | 112.08167 | 13.94336 | 0.1878513 | 0.24370993 | 2.5383640 | 20 | 10 7.9 | 18.8 |
| 339228 2004 $TD_{347}$ | 16.8 | $X$ | 265.41556 | 83.51722 | 343.41507 | 6.47741 | 0.2015139 | 0.24035097 | 2.5619588 | 20 | 8 22.9 | 20.0 |
| 339229 2004 $TD_{367}$ | 17.2 | $X$ | 304.60649 | 133.75893 | 239.97743 | 3.45355 | 0.1973597 | 0.23977194 | 2.5660817 | 20 | 8 9.4 | 19.7 |
| 339230 2004 $TW_{367}$ | 17.9 | $X$ | 299.18066 | 39.51319 | 353.66253 | 4.69140 | 0.1739156 | 0.24330558 | 2.5411756 | 20 | 9 4.1 | 20.4 |
| 339231 2004 $TO_{369}$ | 17.6 | $X$ | 237.70286 | 238.56240 | 228.01159 | 11.36641 | 0.2533587 | 0.23815920 | 2.5776531 | 20 | 8 29.1 | 21.7 |
| 339232 2004 $UD$ | 16.9 | $X$ | 30.32546 | 96.49252 | 243.39792 | 20.10726 | 0.0969890 | 0.37627856 | 1.9001872 | 20 | 12 29.2 | 19.1 |
| 339233 2004 $UG$ | 15.3 | $X$ | 175.02136 | 121.74686 | 33.33310 | 31.52880 | 0.3977770 | 0.22575263 | 2.6712477 | 20 | 9 23.0 | 21.0 |
| 339234 2004 $UF_{6}$ | 16.9 | $X$ | 256.95452 | 16.68966 | 51.74558 | 5.28481 | 0.2657066 | 0.23696694 | 2.5862919 | 20 | 8 5.3 | 20.6 |
| 339235 2004 $UH_{9}$ | 17.6 | $X$ | 282.23597 | 30.85773 | 38.68050 | 6.70160 | 0.2759242 | 0.24184279 | 2.5514122 | 20 | 9 11.7 | 20.3 |
| 339236 2004 $UK_{9}$ | 16.4 | $X$ | 249.56809 | 36.86341 | 43.46170 | 9.73606 | 0.0977286 | 0.23840429 | 2.5758862 | 20 | 9 9.3 | 19.9 |
| 339237 2004 $UT_{9}$ | 16.9 | $X$ | 314.75415 | 89.85571 | 281.00695 | 18.42069 | 0.1325666 | 0.36683476 | 1.9326612 | 20 | 9 19.2 | 18.7 |
| 339238 2004 $VG_{1}$ | 16.0 | $X$ | 284.36404 | 246.58086 | 49.16713 | 13.49221 | 0.2104373 | 0.22458305 | 2.6805139 | 20 | 3 27.8 | 20.0 |
| 339239 2004 $VU_{6}$ | 16.4 | $X$ | 249.70554 | 357.26368 | 62.78375 | 11.76018 | 0.1119023 | 0.23494997 | 2.6010725 | 20 | 8 9.3 | 20.2 |
| 339240 2004 $VS_{15}$ | 17.1 | $X$ | 329.29953 | 108.84297 | 265.18573 | 4.42032 | 0.2755040 | 0.24362216 | 2.5389736 | 20 | 10 6.6 | 18.7 |
| 339241 2004 $VS_{16}$ | 17.6 | $X$ | 273.34515 | 234.10998 | 177.39991 | 12.46545 | 0.2319101 | 0.23754972 | 2.5820603 | 20 | 8 3.9 | 21.1 |
| 339242 2004 $VW_{17}$ | 17.6 | $X$ | 337.40925 | 249.78608 | 90.43599 | 3.02982 | 0.2061777 | 0.24167243 | 2.5526110 | 20 | 9 5.2 | 19.6 |
| 339243 2004 $VL_{19}$ | 16.7 | $X$ | 313.38400 | 318.01448 | 62.19182 | 9.85429 | 0.2435402 | 0.24163224 | 2.5528941 | 20 | 9 11.3 | 18.9 |
| 339244 2004 $VX_{20}$ | 16.5 | $X$ | 15.54401 | 124.21183 | 217.38063 | 8.07931 | 0.0946243 | 0.24699004 | 2.5158404 | 20 | 11 9.3 | 19.3 |
| 339245 2004 $VK_{21}$ | 17.0 | $X$ | 284.19572 | 291.79805 | 141.64898 | 1.85700 | 0.2114933 | 0.24274642 | 2.5450764 | 20 | 9 29.9 | 19.4 |
| 339246 2004 $VU_{23}$ | 17.6 | $X$ | 275.27735 | 146.96277 | 235.98694 | 20.18618 | 0.1032530 | 0.36049896 | 1.9552398 | 20 | 7 23.3 | 20.0 |
| 339247 2004 $VH_{24}$ | 16.4 | $X$ | 276.80694 | 209.58705 | 207.32057 | 3.79631 | 0.2349663 | 0.23850998 | 2.5751252 | 20 | 8 17.2 | 19.6 |
| 339248 2004 $VH_{30}$ | 17.1 | $X$ | 326.54038 | 251.57261 | 71.13629 | 5.22728 | 0.2348953 | 0.23687367 | 2.5869708 | 20 | 7 3.6 | 19.1 |
| 339249 2004 $VV_{38}$ | 17.4 | $X$ | 304.03919 | 298.79016 | 70.54439 | 1.94471 | 0.1170615 | 0.23735363 | 2.5834822 | 20 | 8 15.6 | 20.3 |
| 339250 2004 $VJ_{50}$ | 16.4 | $X$ | 258.48701 | 245.97891 | 220.43253 | 16.56998 | 0.1307260 | 0.24299603 | 2.5433332 | 20 | 10 15.7 | 19.7 |
| 339251 2004 $VH_{53}$ | 16.5 | $X$ | 297.84114 | 130.00136 | 248.95934 | 3.39857 | 0.2088967 | 0.23757425 | 2.5818825 | 20 | 8 2.2 | 19.2 |
| 339252 2004 $VB_{54}$ | 16.0 | $X$ | 342.98705 | 1.41811 | 15.39799 | 20.48596 | 0.2731807 | 0.24472597 | 2.5313333 | 20 | 11 16.1 | 18.3 |
| 339253 2004 $VN_{54}$ | 17.5 | $X$ | 261.67614 | 29.12270 | 39.47178 | 20.62515 | 0.1002641 | 0.36647823 | 1.9339145 | 20 | 10 7.3 | 19.3 |
| 339254 2004 $VN_{55}$ | 15.8 | $X$ | 264.30815 | 321.22300 | 38.91462 | 14.18234 | 0.0913256 | 0.22838777 | 2.6506608 | 20 | 6 3.5 | 19.5 |
| 339255 2004 $VJ_{57}$ | 17.0 | $X$ | 286.81262 | 64.04353 | 21.83084 | 5.41714 | 0.2210278 | 0.24441697 | 2.5334664 | 20 | 10 21.1 | 19.2 |
| 339256 2004 $VF_{59}$ | 16.6 | $X$ | 238.70694 | 201.27880 | 246.58235 | 11.17662 | 0.1447989 | 0.23697702 | 2.5862186 | 20 | 8 18.7 | 20.6 |
| 339257 2004 $VZ_{59}$ | 17.4 | $X$ | 258.83543 | 68.24669 | 334.35162 | 2.63407 | 0.2548060 | 0.23416783 | 2.6068611 | 20 | 7 3.8 | 21.2 |
| 339258 2004 $VQ_{64}$ | 15.7 | $X$ | 242.03368 | 126.78900 | 293.10643 | 10.96472 | 0.2830044 | 0.22862218 | 2.6488486 | 20 | 7 6.1 | 20.0 |
| 339259 2004 $VG_{66}$ | 17.6 | $X$ | 298.40082 | 68.87213 | 338.81329 | 1.54708 | 0.0904677 | 0.24327763 | 2.5413702 | 20 | 10 3.4 | 20.4 |
| 339260 2004 $VC_{70}$ | 16.4 | $X$ | 35.51829 | 270.87766 | 36.48751 | 7.12112 | 0.2355367 | 0.24396622 | 2.5365859 | 20 | 11 11.9 | 19.6 |
| 339261 2004 $VX_{74}$ | 16.7 | $X$ | 280.15436 | 187.57420 | 226.91928 | 17.21899 | 0.1570773 | 0.24013678 | 2.5634819 | 20 | 8 26.4 | 20.3 |
| 339262 2004 $VF_{75}$ | 17.3 | $X$ | 129.57197 | 296.84353 | 228.99923 | 19.55658 | 0.0348209 | 0.35952356 | 1.9587747 | 20 | 8 8.2 | 20.1 |
| 339263 2004 $VS_{88}$ | 16.6 | $X$ | 7.31477 | 24.48349 | 271.38874 | 6.12121 | 0.1629172 | 0.23730630 | 2.5838256 | 20 | 8 24.9 | 19.3 |
| 339264 2004 $VW_{89}$ | 16.6 | $X$ | 302.18882 | 146.49027 | 271.36261 | 4.79724 | 0.1231803 | 0.24375355 | 2.5380611 | 20 | 10 19.8 | 19.3 |
| 339265 2004 $VS_{90}$ | 17.3 | $X$ | 359.26986 | 123.62603 | 207.94780 | 20.79644 | 0.0687766 | 0.36817040 | 1.9279842 | 20 | 10 25.2 | 18.7 |
| 339266 2004 $VD_{91}$ | 16.5 | $X$ | 343.45540 | 97.15881 | 257.10859 | 10.46481 | 0.1740813 | 0.24370688 | 2.5383852 | 20 | 10 4.1 | 19.1 |
| 339267 2004 $VJ_{91}$ | 16.1 | $X$ | 72.38035 | 188.34765 | 66.63679 | 12.24214 | 0.1663923 | 0.24051124 | 2.5608205 | 20 | 10 15.1 | 19.9 |
| 339268 2004 $VN_{91}$ | 16.9 | $X$ | 326.21215 | 247.61265 | 139.98126 | 4.33461 | 0.2656537 | 0.24516372 | 2.5283193 | 20 | 10 27.3 | 18.4 |
| 339269 2004 $WG_{3}$ | 17.2 | $X$ | 316.03314 | 286.72808 | 97.68666 | 4.26750 | 0.2234544 | 0.24223116 | 2.5486843 | 20 | 9 23.6 | 19.2 |
| 339270 2004 $WH_{6}$ | 16.9 | $X$ | 317.22568 | 60.39151 | 330.96588 | 3.95377 | 0.2319806 | 0.24367223 | 2.5386258 | 20 | 10 3.1 | 18.8 |
| 339271 2004 $WX_{9}$ | 16.5 | $X$ | 241.89111 | 270.82200 | 175.68952 | 13.16731 | 0.1451521 | 0.23651350 | 2.5895964 | 20 | 8 24.3 | 20.2 |
| 339272 2004 $WY_{10}$ | 16.4 | $X$ | 278.78728 | 168.47749 | 239.10778 | 4.61483 | 0.0666759 | 0.23660091 | 2.5889586 | 20 | 9 2.4 | 19.7 |
| 339273 2004 $XS_{2}$ | 15.9 | $X$ | 164.12800 | 250.03456 | 253.51228 | 13.41763 | 0.1444593 | 0.23009057 | 2.6375670 | 20 | 8 12.0 | 20.4 |
| 339274 2004 $XB_{3}$ | 16.6 | $X$ | 283.62483 | 161.75245 | 247.38982 | 13.83217 | 0.1630330 | 0.23858515 | 2.5745843 | 20 | 8 23.2 | 20.0 |
| 339275 2004 $XD_{7}$ | 17.0 | $X$ | 258.52818 | 194.66397 | 246.81035 | 3.28781 | 0.2465682 | 0.23740535 | 2.5831069 | 20 | 8 23.7 | 20.5 |
| 339276 2004 $XV_{8}$ | 15.9 | $X$ | 231.44527 | 150.17918 | 285.63717 | 14.12555 | 0.1346173 | 0.22982925 | 2.6395659 | 20 | 7 28.8 | 19.9 |
| 339277 2004 $XS_{9}$ | 16.5 | $X$ | 324.07999 | 97.12837 | 288.59569 | 2.66551 | 0.1319955 | 0.24174969 | 2.5520671 | 20 | 10 13.7 | 19.1 |
| 339278 2004 $XR_{10}$ | 16.5 | $X$ | 311.32478 | 304.56463 | 76.91055 | 6.66918 | 0.2729272 | 0.23935721 | 2.5690450 | 20 | 8 30.9 | 18.5 |
| 339279 2004 $XU_{10}$ | 16.5 | $X$ | 242.69982 | 11.13695 | 70.48132 | 12.57475 | 0.0339892 | 0.23527527 | 2.5986744 | 20 | 9 13.4 | 20.2 |
| 339280 2004 $XQ_{14}$ | 16.3 | $X$ | 294.86199 | 264.14791 | 90.64252 | 28.39147 | 0.4301455 | 0.23355895 | 2.6113898 | 20 | 5 25.4 | 20.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339281 2004 $XQ_{15}$ | 16.9 | X | 278.52507 | 359.66658 | 81.51075 | 6.62990 | 0.2536308 | 0.24227773 | 2.5483577 | 20 | 9 26.9 | 19.8 |
| 339282 2004 $XJ_{17}$ | 15.9 | X | 288.15558 | 121.60284 | 275.40075 | 11.22942 | 0.1388824 | 0.23460838 | 2.6035966 | 20 | 8 18.8 | 19.3 |
| 339283 2004 $XB_{18}$ | 16.0 | X | 237.34317 | 295.80028 | 133.87860 | 15.16500 | 0.1593307 | 0.23273101 | 2.6175795 | 20 | 7 26.9 | 19.9 |
| 339284 2004 $XT_{18}$ | 16.6 | X | 254.73518 | 345.50905 | 80.57368 | 8.43662 | 0.1953979 | 0.23501337 | 2.6006046 | 20 | 8 9.9 | 20.3 |
| 339285 2004 $XD_{20}$ | 16.4 | X | 282.99127 | 299.57855 | 76.26028 | 15.75123 | 0.1319456 | 0.23179270 | 2.6246388 | 20 | 7 18.9 | 19.9 |
| 339286 2004 $XQ_{21}$ | 16.5 | X | 208.20378 | 192.82290 | 288.01391 | 4.17444 | 0.1697695 | 0.23352489 | 2.6116438 | 20 | 8 29.1 | 20.5 |
| 339287 2004 $XT_{23}$ | 16.8 | X | 306.09282 | 105.38874 | 273.69889 | 7.88715 | 0.2885677 | 0.23918642 | 2.5702678 | 20 | 8 3.8 | 19.1 |
| 339288 2004 $XK_{25}$ | 16.0 | X | 235.87534 | 157.87939 | 291.30652 | 12.35996 | 0.1421830 | 0.23148122 | 2.6269928 | 20 | 8 18.0 | 20.0 |
| 339289 2004 $XY_{25}$ | 16.9 | X | 291.27677 | 355.43358 | 34.67154 | 4.70617 | 0.2923017 | 0.23642946 | 2.5902101 | 20 | 7 25.6 | 19.8 |
| 339290 2004 $XD_{28}$ | 15.7 | X | 342.50726 | 261.74758 | 80.74076 | 16.01490 | 0.1751512 | 0.23761091 | 2.5816169 | 20 | 9 29.1 | 18.6 |
| 339291 2004 $XW_{29}$ | 16.9 | X | 273.11558 | 212.92266 | 246.51493 | 5.36226 | 0.1686616 | 0.24304187 | 2.5430134 | 20 | 10 22.7 | 19.8 |
| 339292 2004 $XA_{41}$ | 16.7 | X | 250.92579 | 170.32542 | 303.57333 | 2.71635 | 0.1956194 | 0.23878704 | 2.5731329 | 20 | 10 4.5 | 20.1 |
| 339293 2004 $XT_{42}$ | 15.9 | X | 28.49834 | 80.32467 | 251.92786 | 9.61281 | 0.0169128 | 0.24125255 | 2.5555719 | 20 | 10 31.4 | 19.3 |
| 339294 2004 $XT_{44}$ | 16.1 | X | 346.32860 | 28.11951 | 321.32574 | 1.30933 | 0.1959406 | 0.24159805 | 2.5531349 | 20 | 10 9.1 | 18.1 |
| 339295 2004 $XT_{52}$ | 16.9 | X | 305.81940 | 287.26719 | 92.70963 | 10.43451 | 0.2161765 | 0.23726478 | 2.5841271 | 20 | 8 24.5 | 19.5 |
| 339296 2004 $XB_{59}$ | 17.2 | X | 239.03940 | 70.81272 | 18.94900 | 4.14678 | 0.2032485 | 0.23256642 | 2.6188144 | 20 | 8 20.8 | 21.0 |
| 339297 2004 $XK_{63}$ | 16.0 | X | 247.36195 | 84.31505 | 42.80285 | 27.98982 | 0.2007991 | 0.24093849 | 2.5577922 | 20 | 10 24.5 | 19.5 |
| 339298 2004 $XV_{68}$ | 15.8 | X | 276.10577 | 121.51683 | 263.59483 | 12.97846 | 0.0635940 | 0.23102510 | 2.6304493 | 20 | 7 27.3 | 19.4 |
| 339299 2004 $XH_{69}$ | 16.8 | X | 307.53935 | 342.11785 | 54.19901 | 5.65133 | 0.2397294 | 0.24195489 | 2.5506240 | 20 | 9 20.2 | 18.8 |
| 339300 2004 $XK_{70}$ | 16.1 | X | 273.48382 | 346.53801 | 48.07685 | 8.62517 | 0.1911845 | 0.23382349 | 2.6094198 | 20 | 7 22.6 | 19.6 |
| 339301 2004 $XR_{73}$ | 16.3 | X | 284.84799 | 129.72625 | 259.04959 | 7.26773 | 0.1962985 | 0.23689155 | 2.5868406 | 20 | 7 26.5 | 19.5 |
| 339302 2004 $XE_{74}$ | 17.0 | X | 317.71910 | 336.15404 | 75.08601 | 7.96051 | 0.2671560 | 0.24459005 | 2.5322711 | 20 | 11 10.8 | 18.4 |
| 339303 2004 $XZ_{77}$ | 16.3 | X | 308.16336 | 70.93300 | 298.41904 | 2.47918 | 0.0935056 | 0.23520001 | 2.5992287 | 20 | 8 23.6 | 19.2 |
| 339304 2004 $XE_{78}$ | 16.6 | X | 252.80469 | 200.40275 | 226.47532 | 2.49130 | 0.1493211 | 0.23439575 | 2.6051709 | 20 | 8 11.5 | 20.1 |
| 339305 2004 $XL_{78}$ | 16.7 | X | 276.96386 | 345.83881 | 99.03390 | 4.83071 | 0.1713896 | 0.24119019 | 2.5560124 | 20 | 10 12.0 | 19.5 |
| 339306 2004 $XV_{83}$ | 17.1 | X | 257.49168 | 174.10637 | 254.10787 | 5.71722 | 0.3133876 | 0.23423176 | 2.6063868 | 20 | 7 26.6 | 21.1 |
| 339307 2004 $XL_{88}$ | 16.1 | X | 292.72097 | 65.76113 | 292.27139 | 6.38557 | 0.1989317 | 0.23039920 | 2.6352111 | 20 | 6 26.3 | 19.3 |
| 339308 2004 $XP_{91}$ | 17.1 | X | 227.48024 | 127.51343 | 320.44010 | 0.74712 | 0.1531467 | 0.23199376 | 2.6231221 | 20 | 8 9.9 | 20.8 |
| 339309 2004 $XZ_{95}$ | 16.9 | X | 235.57064 | 176.15541 | 298.13821 | 4.72354 | 0.2527085 | 0.23525228 | 2.5988437 | 20 | 9 8.4 | 20.8 |
| 339310 2004 $XY_{99}$ | 16.7 | X | 260.32682 | 312.40053 | 90.81049 | 8.01627 | 0.2093804 | 0.23013326 | 2.6372408 | 20 | 7 12.3 | 20.3 |
| 339311 2004 $XQ_{100}$ | 17.1 | X | 290.67442 | 348.18381 | 77.16896 | 1.13770 | 0.1568258 | 0.24051027 | 2.5608274 | 20 | 10 7.8 | 19.9 |
| 339312 2004 $XU_{101}$ | 16.2 | X | 297.31573 | 53.03595 | 346.57190 | 4.48473 | 0.3106633 | 0.23775179 | 2.5805970 | 20 | 8 16.3 | 18.7 |
| 339313 2004 $XD_{103}$ | 15.8 | X | 217.24479 | 5.80049 | 57.41224 | 13.53066 | 0.1752423 | 0.22422833 | 2.6833402 | 20 | 6 25.3 | 20.2 |
| 339314 2004 $XU_{105}$ | 16.8 | X | 268.50077 | 17.13813 | 56.39158 | 8.15311 | 0.1880633 | 0.23877020 | 2.5732539 | 20 | 9 11.5 | 20.1 |
| 339315 2004 $XW_{107}$ | 16.3 | X | 333.09635 | 53.72704 | 329.51581 | 5.99887 | 0.2532364 | 0.24281289 | 2.5446119 | 20 | 11 1.9 | 18.1 |
| 339316 2004 $XW_{108}$ | 16.2 | X | 256.84831 | 151.22160 | 313.38502 | 7.06315 | 0.1080780 | 0.24056857 | 2.5604136 | 20 | 10 11.8 | 19.6 |
| 339317 2004 $XF_{111}$ | 17.2 | X | 259.67168 | 105.53895 | 332.30184 | 3.29076 | 0.2318105 | 0.23781037 | 2.5801732 | 20 | 8 24.3 | 20.6 |
| 339318 2004 $XA_{112}$ | 16.5 | X | 193.45145 | 215.81042 | 264.66758 | 11.93680 | 0.1219030 | 0.23161614 | 2.6259725 | 20 | 8 13.4 | 20.7 |
| 339319 2004 $XL_{112}$ | 16.8 | X | 307.44267 | 90.20875 | 265.16740 | 11.32179 | 0.2118789 | 0.23520974 | 2.5991570 | 20 | 7 14.4 | 19.5 |
| 339320 2004 $XS_{115}$ | 16.4 | X | 295.78662 | 309.88503 | 77.33287 | 6.68893 | 0.1147666 | 0.23320571 | 2.6140261 | 20 | 8 29.9 | 19.5 |
| 339321 2004 $XZ_{118}$ | 15.9 | X | 328.16314 | 227.40008 | 100.52163 | 10.52919 | 0.1152362 | 0.22743410 | 2.6580654 | 20 | 7 27.9 | 18.8 |
| 339322 2004 $XG_{122}$ | 17.1 | X | 277.57476 | 287.57428 | 87.85997 | 5.41497 | 0.1605769 | 0.22866089 | 2.6485497 | 20 | 7 4.3 | 20.4 |
| 339323 2004 $XG_{127}$ | 16.2 | X | 348.47503 | 266.39825 | 77.21988 | 27.86282 | 0.2655521 | 0.24237491 | 2.5476764 | 20 | 10 31.9 | 18.9 |
| 339324 2004 $XA_{132}$ | 16.5 | X | 328.87384 | 294.21215 | 73.17086 | 12.62962 | 0.2770638 | 0.24014758 | 2.5634050 | 20 | 10 4.7 | 18.4 |
| 339325 2004 $XC_{135}$ | 16.4 | X | 260.88749 | 43.96524 | 55.30946 | 5.49877 | 0.1951774 | 0.23959030 | 2.5673784 | 20 | 10 2.6 | 19.6 |
| 339326 2004 $XV_{142}$ | 17.1 | X | 221.51166 | 124.59761 | 8.70988 | 3.67940 | 0.1630036 | 0.23786008 | 2.5798137 | 20 | 9 30.8 | 20.7 |
| 339327 2004 $XS_{143}$ | 16.6 | X | 302.04363 | 70.56695 | 334.95266 | 2.89481 | 0.1348647 | 0.24054467 | 2.5605832 | 20 | 9 30.8 | 19.2 |
| 339328 2004 $XY_{164}$ | 15.7 | X | 338.34062 | 50.92677 | 286.16265 | 11.86388 | 0.2303176 | 0.23968499 | 2.5667022 | 20 | 8 23.9 | 17.9 |
| 339329 2004 $XS_{165}$ | 16.8 | X | 307.47789 | 151.04635 | 269.50504 | 4.30834 | 0.2187334 | 0.24479888 | 2.5308307 | 20 | 10 27.4 | 19.0 |
| 339330 2004 $XH_{174}$ | 16.5 | X | 215.10017 | 106.64940 | 311.51446 | 10.41914 | 0.0635829 | 0.22256596 | 2.6966850 | 20 | 6 26.9 | 20.5 |
| 339331 2004 $XZ_{175}$ | 17.1 | X | 356.77922 | 101.49147 | 258.95668 | 3.85179 | 0.1558398 | 0.24556694 | 2.5255508 | 20 | 11 12.3 | 19.7 |
| 339332 2004 $XO_{180}$ | 17.2 | X | 312.18020 | 329.20320 | 29.93643 | 5.19110 | 0.2066879 | 0.23819832 | 2.5773709 | 20 | 8 4.9 | 19.6 |
| 339333 2004 $XF_{181}$ | 16.6 | X | 324.74401 | 10.15254 | 39.80868 | 3.87694 | 0.2590930 | 0.24571481 | 2.5245375 | 20 | 11 27.7 | 18.0 |
| 339334 2004 $XW_{183}$ | 17.6 | X | 287.57828 | 42.92885 | 45.52683 | 22.07812 | 0.1373887 | 0.37403537 | 1.9077770 | 20 | 12 26.4 | 19.1 |
| 339335 2004 $YL_{4}$ | 16.6 | X | 297.40571 | 146.86973 | 251.27492 | 11.62999 | 0.2621686 | 0.23908070 | 2.5710254 | 20 | 8 16.1 | 19.5 |
| 339336 2004 $YE_{5}$ | 17.0 | X | 207.25329 | 193.87399 | 293.37991 | 3.30980 | 0.2126601 | 0.23048908 | 2.6345260 | 20 | 9 1.9 | 21.3 |
| 339337 2004 $YE_{21}$ | 16.9 | X | 304.48102 | 68.16537 | 291.32256 | 5.19815 | 0.0291586 | 0.22490473 | 2.6779574 | 20 | 8 9.1 | 20.2 |
| 339338 2004 $YG_{31}$ | 16.7 | X | 308.53667 | 323.04209 | 82.84416 | 7.10009 | 0.2957510 | 0.24024694 | 2.5626983 | 20 | 10 1.6 | 18.5 |
| 339339 2004 $YH_{31}$ | 16.1 | X | 301.79984 | 355.63775 | 35.42581 | 2.94346 | 0.2045450 | 0.23520026 | 2.5992268 | 20 | 8 31.8 | 18.5 |
| 339340 2004 $YS_{31}$ | 16.0 | X | 346.73674 | 168.95306 | 219.21651 | 14.26304 | 0.1256109 | 0.24597445 | 2.5227607 | 20 | 12 1.4 | 18.8 |
| 339341 2004 $YL_{32}$ | 16.4 | X | 219.24152 | 71.85563 | 55.71571 | 12.14995 | 0.2440438 | 0.23197616 | 2.6232548 | 20 | 9 18.7 | 20.8 |
| 339342 2005 $AE_{1}$ | 15.7 | X | 316.89678 | 257.61653 | 111.64354 | 17.85314 | 0.2408338 | 0.23427654 | 2.6060546 | 20 | 8 30.1 | 18.2 |
| 339343 2005 $AK_{4}$ | 16.6 | X | 315.08101 | 327.48303 | 59.81534 | 5.24125 | 0.2130079 | 0.23787547 | 2.5797024 | 20 | 9 26.0 | 18.8 |
| 339344 2005 $AZ_{4}$ | 16.2 | X | 252.28646 | 292.23153 | 83.12819 | 8.90610 | 0.1037661 | 0.22222513 | 2.6994416 | 20 | 6 9.6 | 20.1 |
| 339345 2005 $AB_{5}$ | 17.0 | X | 223.10877 | 134.45477 | 330.60359 | 3.55626 | 0.1903202 | 0.23127635 | 2.6285439 | 20 | 8 23.5 | 21.0 |
| 339346 2005 $AK_{6}$ | 16.5 | X | 268.10037 | 113.92135 | 292.98470 | 2.68192 | 0.1932094 | 0.23170721 | 2.6252844 | 20 | 7 29.3 | 20.1 |
| 339347 2005 $AU_{6}$ | 16.3 | X | 256.61763 | 9.36651 | 59.92152 | 5.05915 | 0.2680390 | 0.23176762 | 2.6248282 | 20 | 8 5.2 | 20.1 |
| 339348 2005 $AV_{6}$ | 16.1 | X | 145.91378 | 148.53714 | 324.71450 | 14.01499 | 0.1201277 | 0.21618528 | 2.7494889 | 20 | 6 21.9 | 20.5 |
| 339349 2005 $AW_{6}$ | 16.5 | X | 222.91426 | 3.74358 | 104.67425 | 14.66607 | 0.1979991 | 0.22998560 | 2.6383695 | 20 | 8 31.3 | 20.8 |
| 339350 2005 $AD_{8}$ | 16.3 | X | 246.74342 | 119.63338 | 324.44959 | 13.09147 | 0.1726162 | 0.23066931 | 2.6331534 | 20 | 8 23.4 | 20.0 |
| 339351 2005 $AH_{10}$ | 16.9 | X | 209.70220 | 168.53504 | 247.36625 | 3.85334 | 0.1062257 | 0.22124008 | 2.7074484 | 20 | 6 13.6 | 20.9 |
| 339352 2005 $AF_{14}$ | 15.8 | X | 275.15512 | 327.56096 | 58.10532 | 13.75061 | 0.2507849 | 0.23046030 | 2.6347452 | 20 | 6 30.4 | 19.5 |
| 339353 2005 $AJ_{15}$ | 16.8 | X | 210.02450 | 126.97207 | 309.15386 | 7.01647 | 0.1932360 | 0.22510703 | 2.6763527 | 20 | 7 5.0 | 21.2 |
| 339354 2005 $AY_{22}$ | 16.3 | X | 286.75061 | 312.96018 | 80.61115 | 5.04690 | 0.2438917 | 0.23327874 | 2.6134805 | 20 | 7 31.2 | 19.3 |
| 339355 2005 $AG_{26}$ | 16.3 | X | 275.20441 | 100.62462 | 299.93016 | 2.93129 | 0.2535080 | 0.23167012 | 2.6255645 | 20 | 7 20.9 | 19.5 |
| 339356 2005 $AA_{30}$ | 15.7 | X | 141.98667 | 142.41566 | 34.38915 | 12.81293 | 0.0461460 | 0.22699672 | 2.6614787 | 20 | 9 10.9 | 19.6 |
| 339357 2005 $AV_{30}$ | 16.0 | X | 176.60444 | 122.97273 | 29.45766 | 13.93550 | 0.1950620 | 0.22411276 | 2.6842625 | 20 | 9 14.1 | 20.6 |
| 339358 2005 $AV_{32}$ | 16.6 | X | 288.05705 | 270.61068 | 138.84598 | 6.10918 | 0.2704041 | 0.23483255 | 2.6019395 | 20 | 8 20.1 | 19.2 |
| 339359 2005 $AO_{33}$ | 16.5 | X | 289.46831 | 256.44534 | 157.32450 | 3.88137 | 0.2269800 | 0.23706354 | 2.5855893 | 20 | 9 6.1 | 19.2 |
| 339360 2005 $AF_{37}$ | 16.4 | X | 287.46438 | 118.48564 | 280.23292 | 7.00092 | 0.2434624 | 0.23339795 | 2.6125906 | 20 | 8 5.7 | 19.5 |

# ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339361 2005 $AB_{40}$ | 16.4 | X | 251.24884 | 44.34359 | 19.77769 | 11.73759 | 0.1673938 | 0.23049385 | 2.6344896 | 20 | 8 9.2 | 20.3 |
| 339362 2005 $AC_{42}$ | 17.1 | X | 238.57816 | 327.52614 | 95.20302 | 25.01615 | 0.0943661 | 0.35502960 | 1.9752694 | 20 | 8 11.8 | 19.6 |
| 339363 2005 $AL_{43}$ | 16.3 | X | 223.77730 | 125.53804 | 283.70840 | 11.85637 | 0.1969721 | 0.22241901 | 2.6978727 | 20 | 6 13.0 | 20.7 |
| 339364 2005 $AE_{44}$ | 16.6 | X | 137.50686 | 131.14281 | 57.13417 | 2.56865 | 0.0748632 | 0.22661708 | 2.6644503 | 20 | 9 16.5 | 20.5 |
| 339365 2005 $AF_{44}$ | 17.1 | X | 268.00702 | 93.16683 | 332.79068 | 4.17364 | 0.2411328 | 0.23326490 | 2.6135839 | 20 | 8 17.4 | 20.6 |
| 339366 2005 $AG_{44}$ | 16.5 | X | 244.96356 | 328.43703 | 102.81543 | 6.45338 | 0.2350733 | 0.22948351 | 2.6422164 | 20 | 7 28.9 | 20.6 |
| 339367 2005 $AJ_{45}$ | 15.7 | X | 267.28710 | 330.08146 | 76.94478 | 15.11474 | 0.2540591 | 0.22881059 | 2.6473943 | 20 | 7 20.4 | 19.5 |
| 339368 2005 $AG_{46}$ | 17.3 | X | 232.59048 | 195.75452 | 262.45095 | 3.51403 | 0.2048179 | 0.23229062 | 2.6208869 | 20 | 8 21.4 | 21.2 |
| 339369 2005 $AD_{51}$ | 13.3 | X | 63.14642 | 188.26241 | 345.23706 | 10.30697 | 0.0682436 | 0.08201643 | 5.2464896 | 20 | 5 21.6 | 20.2 |
| 339370 2005 $AE_{56}$ | 16.0 | X | 293.90093 | 294.84998 | 108.50866 | 15.95054 | 0.1544168 | 0.23615836 | 2.5921920 | 20 | 9 17.9 | 19.2 |
| 339371 2005 $AV_{56}$ | 16.5 | X | 230.44423 | 40.74587 | 80.60705 | 13.82392 | 0.2066009 | 0.23427687 | 2.6060522 | 20 | 9 27.5 | 20.7 |
| 339372 2005 $AJ_{59}$ | 16.7 | X | 241.05626 | 354.88079 | 69.27568 | 2.63535 | 0.1921944 | 0.22843414 | 2.6503021 | 20 | 7 20.4 | 20.5 |
| 339373 2005 $AZ_{59}$ | 16.3 | X | 352.53746 | 174.82667 | 113.81238 | 12.75177 | 0.0740513 | 0.21962293 | 2.7207226 | 20 | 7 13.2 | 19.4 |
| 339374 2005 $AJ_{64}$ | 17.4 | X | 256.62437 | 134.48738 | 279.60929 | 2.22398 | 0.0977756 | 0.22799118 | 2.6537338 | 20 | 8 6.9 | 21.0 |
| 339375 2005 $AO_{64}$ | 17.2 | X | 236.75249 | 297.15558 | 129.70189 | 3.24285 | 0.2085312 | 0.22777504 | 2.6554123 | 20 | 7 16.9 | 21.3 |
| 339376 2005 $AF_{66}$ | 16.8 | X | 166.50612 | 194.15933 | 274.69617 | 3.42517 | 0.0611440 | 0.21980863 | 2.7191900 | 20 | 7 5.6 | 20.7 |
| 339377 2005 $AW_{67}$ | 16.2 | X | 258.28999 | 277.26421 | 134.67313 | 11.14038 | 0.1667628 | 0.22957130 | 2.6415428 | 20 | 7 27.0 | 19.9 |
| 339378 2005 $AY_{68}$ | 16.1 | X | 149.68296 | 25.18351 | 124.72106 | 15.70735 | 0.0770212 | 0.22062502 | 2.7124779 | 20 | 8 10.5 | 20.0 |
| 339379 2005 $AZ_{68}$ | 16.2 | X | 242.39747 | 44.17331 | 19.52694 | 15.82373 | 0.2548447 | 0.22853039 | 2.6495579 | 20 | 7 17.7 | 20.7 |
| 339380 2005 $AR_{76}$ | 14.1 | X | 153.41044 | 93.76810 | 354.80642 | 6.07003 | 0.0258267 | 0.08327909 | 5.1933236 | 20 | 5 22.2 | 21.1 |
| 339381 2005 $AK_{78}$ | 17.7 | X | 173.68712 | 161.93822 | 314.23932 | 16.99987 | 0.0678007 | 0.34974932 | 1.9951006 | 20 | 8 2.9 | 19.8 |
| 339382 2005 $AW_{78}$ | 13.6 | X | 202.64313 | 286.78744 | 113.67429 | 9.23824 | 0.0682446 | 0.08398448 | 5.1642036 | 20 | 5 22.5 | 20.8 |
| 339383 2005 $AC_{79}$ | 17.3 | X | 207.97790 | 98.12015 | 12.38602 | 3.01990 | 0.2330986 | 0.22737172 | 2.6585515 | 20 | 8 13.4 | 21.7 |
| 339384 2005 $BZ_{1}$ | 16.7 | X | 299.18475 | 90.10549 | 308.46779 | 4.26115 | 0.3021213 | 0.23452088 | 2.6042442 | 20 | 8 17.9 | 19.2 |
| 339385 2005 $BU_{2}$ | 17.1 | X | 232.73995 | 159.98654 | 289.33633 | 1.46153 | 0.0171624 | 0.22899180 | 2.6459975 | 20 | 9 4.0 | 20.6 |
| 339386 2005 $BL_{6}$ | 16.6 | X | 328.95245 | 346.25101 | 97.50119 | 6.21049 | 0.1145160 | 0.24619359 | 2.5212634 | 20 | — | — |
| 339387 2005 $BP_{8}$ | 16.1 | X | 217.59966 | 347.32198 | 83.21520 | 6.77315 | 0.1390911 | 0.22383316 | 2.6864975 | 20 | 7 8.8 | 20.3 |
| 339388 2005 $BY_{8}$ | 16.7 | X | 240.52108 | 157.69293 | 300.15664 | 4.17594 | 0.1579959 | 0.23191053 | 2.6237497 | 20 | 9 4.6 | 20.5 |
| 339389 2005 $BB_{13}$ | 17.1 | X | 254.58685 | 347.24073 | 93.82067 | 3.63070 | 0.1841449 | 0.23310698 | 2.6147642 | 20 | 8 30.4 | 20.5 |
| 339390 2005 $BL_{16}$ | 16.5 | X | 184.81502 | 108.72452 | 324.26826 | 8.32863 | 0.2004230 | 0.22050411 | 2.7134694 | 20 | 6 7.4 | 21.2 |
| 339391 2005 $BC_{21}$ | 16.6 | X | 236.34348 | 17.61176 | 84.99852 | 4.74050 | 0.1121235 | 0.23193903 | 2.6235348 | 20 | 9 16.5 | 20.3 |
| 339392 2005 $BA_{24}$ | 16.8 | X | 174.81313 | 352.80377 | 165.22374 | 3.73372 | 0.1396308 | 0.22949946 | 2.6420940 | 20 | 9 15.9 | 21.0 |
| 339393 2005 $BT_{27}$ | 16.4 | X | 225.75658 | 187.77908 | 277.88669 | 10.72393 | 0.1484507 | 0.22892639 | 2.6465015 | 20 | 8 26.1 | 20.6 |
| 339394 2005 $BN_{28}$ | 16.6 | X | 188.40328 | 181.74155 | 259.75861 | 3.91825 | 0.0974995 | 0.21831089 | 2.7316126 | 20 | 6 24.1 | 20.7 |
| 339395 2005 $BA_{48}$ | 16.8 | X | 220.38202 | 341.47473 | 118.51423 | 6.94023 | 0.1015063 | 0.22853453 | 2.6495259 | 20 | 8 24.8 | 20.6 |
| 339396 2005 $BO_{48}$ | 17.7 | X | 249.60843 | 285.48489 | 169.60983 | 3.71625 | 0.2398049 | 0.23363248 | 2.6108419 | 20 | 9 2.0 | 21.3 |
| 339397 2005 $BE_{49}$ | 16.3 | X | 223.97750 | 72.50704 | 4.04885 | 12.97797 | 0.2624947 | 0.22548882 | 2.6733308 | 20 | 7 15.7 | 21.0 |
| 339398 2005 $CC_{1}$ | 16.1 | X | 245.48783 | 291.67231 | 133.78374 | 14.19324 | 0.2586925 | 0.22968774 | 2.6406500 | 20 | 7 18.3 | 20.3 |
| 339399 2005 $CS_{3}$ | 16.7 | X | 203.07811 | 60.86008 | 17.84041 | 5.02691 | 0.0950649 | 0.21851744 | 2.7298910 | 20 | 7 7.3 | 20.9 |
| 339400 2005 $CS_{10}$ | 15.9 | X | 183.72612 | 3.68558 | 135.95619 | 16.09678 | 0.1453859 | 0.22494302 | 2.6776534 | 20 | 9 2.6 | 20.2 |
| 339401 2005 $CD_{12}$ | 16.5 | X | 269.30116 | 54.98931 | 356.28399 | 6.11363 | 0.1559192 | 0.22886028 | 2.6470111 | 20 | 8 13.8 | 19.9 |
| 339402 2005 $CO_{13}$ | 16.6 | X | 255.47388 | 335.64577 | 102.89687 | 6.10746 | 0.2423228 | 0.23152677 | 2.6266482 | 20 | 8 19.6 | 20.2 |
| 339403 2005 $CL_{14}$ | 16.7 | X | 10.11691 | 127.70476 | 122.87676 | 5.27150 | 0.0208330 | 0.21456038 | 2.7633530 | 20 | 6 15.9 | 20.3 |
| 339404 2005 $CG_{24}$ | 16.5 | X | 239.81102 | 311.67046 | 139.31049 | 7.47300 | 0.3018435 | 0.23050024 | 2.6344409 | 20 | 8 10.1 | 20.5 |
| 339405 2005 $CN_{24}$ | 16.4 | X | 259.81199 | 335.11490 | 109.90529 | 13.27511 | 0.2427212 | 0.23368393 | 2.6104587 | 20 | 9 5.6 | 20.1 |
| 339406 2005 $CA_{35}$ | 16.5 | X | 284.85842 | 180.04419 | 92.26048 | 3.27633 | 0.0161554 | 0.20320778 | 2.8653378 | 20 | 3 23.2 | 20.4 |
| 339407 2005 $CX_{49}$ | 15.6 | X | 336.95986 | 356.21085 | 312.97074 | 10.48077 | 0.0224389 | 0.21827116 | 2.7319441 | 20 | 7 19.8 | 19.2 |
| 339408 2005 $CD_{50}$ | 17.2 | X | 216.47444 | 200.31766 | 299.66916 | 2.33465 | 0.2226777 | 0.23138884 | 2.6276919 | 20 | 9 25.7 | 21.4 |
| 339409 2005 $CX_{52}$ | 16.5 | X | 157.80104 | 146.88632 | 340.78852 | 13.13562 | 0.1382566 | 0.21809636 | 2.7334037 | 20 | 7 25.5 | 21.0 |
| 339410 2005 $CY_{56}$ | 15.8 | X | 238.66437 | 295.84212 | 129.05882 | 22.60127 | 0.1051085 | 0.22609210 | 2.6685732 | 20 | 7 28.8 | 19.7 |
| 339411 2005 $CQ_{57}$ | 16.5 | X | 159.31436 | 296.21389 | 159.68073 | 8.37895 | 0.1763860 | 0.21581040 | 2.7526721 | 20 | 6 14.8 | 21.1 |
| 339412 2005 $CP_{58}$ | 16.4 | X | 235.25785 | 203.23603 | 265.35617 | 5.62005 | 0.2645372 | 0.23248664 | 2.6194135 | 20 | 8 29.5 | 20.5 |
| 339413 2005 $CB_{63}$ | 16.6 | X | 172.21884 | 193.34823 | 279.49042 | 8.31419 | 0.2257757 | 0.21996579 | 2.7178946 | 20 | 7 16.2 | 21.3 |
| 339414 2005 $CA_{65}$ | 16.2 | X | 208.85344 | 324.05953 | 130.11544 | 13.67698 | 0.1540418 | 0.22351495 | 2.6890466 | 20 | 7 28.7 | 20.5 |
| 339415 2005 $CF_{65}$ | 16.6 | X | 256.40592 | 301.63831 | 117.45041 | 6.41463 | 0.2617834 | 0.22824915 | 2.6517339 | 20 | 7 21.4 | 20.3 |
| 339416 2005 $CJ_{70}$ | 17.1 | X | 272.58375 | 32.98065 | 317.02714 | 4.74247 | 0.0624029 | 0.21718177 | 2.7410721 | 20 | 6 7.3 | 20.9 |
| 339417 2005 $EC_{3}$ | 16.0 | X | 265.57536 | 20.42759 | 319.36811 | 13.29142 | 0.1038212 | 0.21425529 | 2.7659756 | 20 | 5 4.3 | 20.2 |
| 339418 2005 $EH_{7}$ | 16.4 | X | 124.22231 | 146.03873 | 358.84476 | 9.04630 | 0.0364426 | 0.21077062 | 2.7963788 | 20 | 7 1.2 | 20.5 |
| 339419 2005 $EL_{7}$ | 16.1 | X | 246.23395 | 58.28081 | 172.58154 | 12.46857 | 0.1312355 | 0.18072032 | 3.0983565 | 20 | — | — |
| 339420 2005 $EU_{26}$ | 15.8 | X | 232.04934 | 85.30514 | 166.79869 | 16.63096 | 0.1564245 | 0.18247351 | 3.0784787 | 20 | — | — |
| 339421 2005 $EQ_{31}$ | 17.1 | X | 242.17803 | 101.86725 | 3.73080 | 6.33843 | 0.2298834 | 0.23148523 | 2.6269624 | 20 | 9 9.9 | 20.8 |
| 339422 2005 $EM_{37}$ | 16.0 | X | 202.08695 | 84.13160 | 337.24125 | 6.09144 | 0.0491687 | 0.21416123 | 2.7667854 | 20 | 6 15.2 | 20.0 |
| 339423 2005 $EX_{45}$ | 16.0 | X | 102.81787 | 30.39407 | 158.53466 | 12.23023 | 0.1652600 | 0.21607225 | 2.7504477 | 20 | 8 14.8 | 20.2 |
| 339424 2005 $EM_{60}$ | 16.5 | X | 104.85325 | 351.88213 | 182.32549 | 9.24746 | 0.2151140 | 0.21308461 | 2.7760971 | 20 | 8 1.8 | 21.0 |
| 339425 2005 $EB_{67}$ | 16.8 | X | 178.78802 | 91.24318 | 351.67684 | 6.31984 | 0.0255841 | 0.21085480 | 2.7956345 | 20 | 6 15.6 | 20.8 |
| 339426 2005 $ET_{79}$ | 16.2 | X | 179.05697 | 332.56492 | 133.04048 | 8.52715 | 0.1896935 | 0.21674017 | 2.7447941 | 20 | 7 13.4 | 20.8 |
| 339427 2005 $EZ_{81}$ | 16.4 | X | 180.26985 | 92.90571 | 337.86579 | 8.07702 | 0.1018198 | 0.21151511 | 2.7898132 | 20 | 5 31.1 | 20.8 |
| 339428 2005 $EQ_{82}$ | 16.4 | X | 184.81521 | 279.81072 | 182.87984 | 12.28177 | 0.1446259 | 0.21702851 | 2.7423625 | 20 | 7 14.5 | 21.0 |
| 339429 2005 $ER_{83}$ | 15.8 | X | 86.70530 | 198.26868 | 345.40388 | 11.08662 | 0.1045949 | 0.21049629 | 2.7988079 | 20 | 7 16.2 | 19.9 |
| 339430 2005 $EY_{84}$ | 15.6 | X | 146.89422 | 119.08529 | 39.40521 | 14.97979 | 0.1823977 | 0.21797246 | 2.7344394 | 20 | 8 28.3 | 20.4 |
| 339431 2005 $EK_{85}$ | 16.4 | X | 206.08810 | 329.99672 | 139.29595 | 8.52372 | 0.1482818 | 0.22359302 | 2.6884207 | 20 | 8 14.9 | 20.6 |
| 339432 2005 $EQ_{86}$ | 16.7 | X | 114.32025 | 150.35695 | 358.36680 | 7.86379 | 0.1597852 | 0.21199675 | 2.7855860 | 20 | 7 7.9 | 21.1 |
| 339433 2005 $ED_{88}$ | 15.4 | X | 254.90385 | 259.75273 | 322.17484 | 15.70548 | 0.2082789 | 0.18123606 | 3.0924758 | 20 | — | — |
| 339434 2005 $EB_{93}$ | 16.3 | X | 182.04947 | 103.85985 | 36.57118 | 12.10529 | 0.2452119 | 0.22519088 | 2.6756883 | 20 | 9 2.3 | 21.1 |
| 339435 2005 $EN_{93}$ | 16.2 | X | 161.51782 | 60.17598 | 74.99266 | 11.84299 | 0.1411259 | 0.21827054 | 2.7319493 | 20 | 8 7.3 | 20.7 |
| 339436 2005 $EB_{100}$ | 16.2 | X | 66.43247 | 70.92782 | 55.29724 | 5.88498 | 0.0176372 | 0.19844104 | 2.9110415 | 20 | 3 23.3 | 20.2 |
| 339437 2005 $EC_{130}$ | 16.9 | X | 136.67046 | 252.33044 | 222.59825 | 3.27498 | 0.1541832 | 0.21095455 | 2.7947531 | 20 | 6 15.8 | 21.3 |
| 339438 2005 $EA_{133}$ | 16.2 | X | 178.99850 | 108.65841 | 21.36699 | 12.88895 | 0.2295558 | 0.22303569 | 2.6928974 | 20 | 8 18.3 | 21.0 |
| 339439 2005 $EP_{147}$ | 16.8 | X | 124.51378 | 331.82003 | 124.88302 | 2.77633 | 0.0502057 | 0.20277054 | 2.8694554 | 20 | 5 1.2 | 20.8 |
| 339440 2005 $EK_{152}$ | 15.5 | X | 146.18007 | 324.16820 | 17.88401 | 18.35477 | 0.1984616 | 0.18122058 | 3.0926519 | 20 | 1 28.6 | 20.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339441 2005 $EE_{154}$ | 16.2 | $X$ | 287.26711 | 231.68007 | 4.27686 | 5.59156 | 0.0682650 | 0.19010122 | 2.9955699 | 20 | 2 4.5 | 20.4 |
| 339442 2005 $EX_{155}$ | 16.3 | $X$ | 219.69006 | 227.14869 | 36.64118 | 1.68808 | 0.1318097 | 0.17920272 | 3.1158245 | 20 | — | — |
| 339443 2005 $ET_{158}$ | 16.6 | $X$ | 183.03923 | 247.17367 | 163.71144 | 2.26516 | 0.0528774 | 0.20526258 | 2.8461832 | 20 | 5 10.9 | 20.8 |
| 339444 2005 $EH_{160}$ | 16.3 | $X$ | 99.63828 | 299.12928 | 145.81323 | 2.52972 | 0.0700828 | 0.19461286 | 2.9490922 | 20 | 3 19.5 | 20.4 |
| 339445 2005 $EA_{163}$ | 16.0 | $X$ | 183.67538 | 171.53851 | 158.32860 | 5.24448 | 0.0393083 | 0.18911190 | 3.0060081 | 20 | 2 1.5 | 20.3 |
| 339446 2005 $EF_{168}$ | 16.9 | $X$ | 150.36490 | 54.06154 | 355.38298 | 12.57105 | 0.0488619 | 0.19905248 | 2.9050770 | 20 | 3 29.7 | 21.2 |
| 339447 2005 $EN_{179}$ | 16.5 | $X$ | 164.81108 | 183.02893 | 229.36325 | 1.14326 | 0.0639573 | 0.20316385 | 2.8657508 | 20 | 4 21.7 | 20.5 |
| 339448 2005 $EO_{187}$ | 16.4 | $X$ | 316.57989 | 10.61562 | 202.57733 | 3.63754 | 0.1369770 | 0.18908965 | 3.0062439 | 20 | 1 31.5 | 20.6 |
| 339449 2005 $ER_{189}$ | 16.0 | $X$ | 188.25035 | 265.73018 | 159.86181 | 7.73583 | 0.1082695 | 0.21033707 | 2.8002201 | 20 | 6 4.4 | 20.4 |
| 339450 2005 $ED_{193}$ | 16.9 | $X$ | 206.79961 | 86.51745 | 337.44733 | 3.31254 | 0.0900640 | 0.21336502 | 2.7736644 | 20 | 6 21.8 | 21.0 |
| 339451 2005 $EF_{193}$ | 16.8 | $X$ | 244.49740 | 99.84238 | 177.73566 | 11.24475 | 0.0799803 | 0.19051608 | 2.9912195 | 20 | 2 1.6 | 21.4 |
| 339452 2005 $ET_{193}$ | 16.7 | $X$ | 149.17686 | 196.52520 | 248.89536 | 1.00543 | 0.0337770 | 0.20584794 | 2.8407850 | 20 | 5 13.7 | 20.6 |
| 339453 2005 $EH_{194}$ | 16.5 | $X$ | 286.86251 | 223.64616 | 339.04283 | 3.70672 | 0.0692623 | 0.18461296 | 3.0546486 | 20 | — | — |
| 339454 2005 $EM_{195}$ | 16.2 | $X$ | 143.41579 | 195.22975 | 221.05673 | 1.27590 | 0.0788827 | 0.19902677 | 2.9053272 | 20 | 4 3.9 | 20.4 |
| 339455 2005 $EV_{197}$ | 16.5 | $X$ | 271.18449 | 89.69515 | 207.67923 | 5.21933 | 0.0510663 | 0.19663164 | 2.9288724 | 20 | 3 30.8 | 20.7 |
| 339456 2005 $EC_{198}$ | 16.0 | $X$ | 246.38366 | 315.40510 | 3.65041 | 11.84782 | 0.0466395 | 0.19616989 | 2.9334666 | 20 | 3 28.8 | 20.2 |
| 339457 2005 $EG_{202}$ | 16.0 | $X$ | 147.91956 | 137.41276 | 39.76760 | 15.78582 | 0.1276804 | 0.22338583 | 2.6900827 | 20 | 9 20.8 | 20.4 |
| 339458 2005 $EW_{206}$ | 15.6 | $X$ | 253.30592 | 238.16723 | 9.24263 | 15.41574 | 0.1602931 | 0.18181051 | 3.0859583 | 20 | 1 5.4 | 20.8 |
| 339459 2005 $EZ_{209}$ | 16.8 | $X$ | 228.65491 | 245.43586 | 199.16108 | 2.01263 | 0.1445395 | 0.22173360 | 2.7034295 | 20 | 8 6.3 | 20.9 |
| 339460 2005 $EP_{210}$ | 17.2 | $X$ | 188.56603 | 308.78359 | 180.86300 | 2.10347 | 0.1392834 | 0.22147429 | 2.7055392 | 20 | 8 23.1 | 21.4 |
| 339461 2005 $EC_{219}$ | 16.1 | $X$ | 334.96689 | 19.33514 | 158.47089 | 2.81881 | 0.0430642 | 0.18912711 | 3.0058469 | 20 | 1 25.4 | 20.1 |
| 339462 2005 $EN_{222}$ | 15.4 | $X$ | 215.05632 | 244.65156 | 5.12617 | 26.45256 | 0.1861970 | 0.17878720 | 3.1206503 | 20 | — | — |
| 339463 2005 $EZ_{227}$ | 16.5 | $X$ | 223.65616 | 281.04820 | 139.57403 | 9.27743 | 0.1462700 | 0.22191630 | 2.7019454 | 20 | 7 1.3 | 20.7 |
| 339464 2005 $EL_{231}$ | 16.6 | $X$ | 222.98359 | 232.95633 | 149.22673 | 5.70880 | 0.0474556 | 0.20945833 | 2.8080465 | 20 | 5 21.9 | 20.6 |
| 339465 2005 $EY_{239}$ | 16.2 | $X$ | 291.74225 | 257.11587 | 40.28348 | 2.57144 | 0.0369908 | 0.20310893 | 2.8662674 | 20 | 4 28.6 | 20.1 |
| 339466 2005 $EU_{242}$ | 16.0 | $X$ | 89.07161 | 136.15525 | 36.06084 | 12.17649 | 0.1524472 | 0.21011337 | 2.8022073 | 20 | 7 9.3 | 20.2 |
| 339467 2005 $EW_{243}$ | 15.9 | $X$ | 188.30392 | 325.89248 | 7.35778 | 10.73620 | 0.1057989 | 0.18982358 | 2.9984900 | 20 | 2 16.6 | 20.7 |
| 339468 2005 $EX_{243}$ | 16.0 | $X$ | 220.42643 | 94.26753 | 6.41902 | 12.91553 | 0.2350701 | 0.22635615 | 2.6664975 | 20 | 8 15.9 | 20.5 |
| 339469 2005 $EX_{245}$ | 16.6 | $X$ | 213.71070 | 115.95356 | 165.66026 | 1.60252 | 0.1162323 | 0.18408012 | 3.0605404 | 20 | 1 8.4 | 21.5 |
| 339470 2005 $EC_{250}$ | 16.3 | $X$ | 201.22636 | 103.17254 | 47.93292 | 12.37868 | 0.2556608 | 0.22976096 | 2.6400889 | 20 | 9 29.8 | 20.9 |
| 339471 2005 $EU_{252}$ | 16.2 | $X$ | 346.32180 | 243.74685 | 11.68579 | 9.05595 | 0.0553181 | 0.20196257 | 2.8771033 | 20 | 5 15.3 | 20.0 |
| 339472 2005 $EG_{258}$ | 15.8 | $X$ | 205.93068 | 110.73147 | 190.99373 | 16.57173 | 0.1477177 | 0.18436778 | 3.0573561 | 20 | 1 21.4 | 21.1 |
| 339473 2005 $EU_{262}$ | 15.9 | $X$ | 311.39592 | 210.35943 | 345.07331 | 7.97206 | 0.1734137 | 0.18758163 | 3.0223344 | 20 | — | — |
| 339474 2005 $EB_{283}$ | 16.0 | $X$ | 138.40416 | 345.66164 | 103.51872 | 3.26495 | 0.0260385 | 0.20362148 | 2.8614555 | 20 | 5 5.8 | 20.0 |
| 339475 2005 $EK_{287}$ | 16.3 | $X$ | 171.16926 | 303.43143 | 207.43796 | 12.53316 | 0.2001871 | 0.22399758 | 2.6851826 | 20 | 8 28.6 | 21.1 |
| 339476 2005 $EA_{295}$ | 15.6 | $X$ | 117.64665 | 10.04921 | 98.09720 | 3.25648 | 0.0125959 | 0.20358324 | 2.8618137 | 20 | 5 2.5 | 19.4 |
| 339477 2005 $ET_{304}$ | 15.7 | $X$ | 307.68682 | 220.94336 | 23.76251 | 10.62800 | 0.0675921 | 0.18917010 | 3.0053915 | 20 | 3 13.6 | 19.8 |
| 339478 2005 $EU_{315}$ | 17.3 | $X$ | 223.58230 | 299.14109 | 155.83736 | 3.94704 | 0.2493867 | 0.22376442 | 2.6870476 | 20 | 8 4.6 | 21.7 |
| 339479 2005 $EN_{316}$ | 16.3 | $X$ | 312.68144 | 77.98954 | 172.87631 | 1.92021 | 0.0109567 | 0.19924246 | 2.9032301 | 20 | 3 31.1 | 20.3 |
| 339480 2005 $EQ_{321}$ | 16.8 | $X$ | 280.61393 | 189.46287 | 201.46983 | 2.76267 | 0.1351241 | 0.22747874 | 2.6577177 | 20 | 8 2.5 | 20.1 |
| 339481 2005 $EA_{327}$ | 15.8 | $X$ | 289.84737 | 215.56604 | 22.08409 | 12.22607 | 0.0680637 | 0.19167780 | 2.9791212 | 20 | 2 12.9 | 20.2 |
| 339482 2005 $FB_{3}$ | 15.5 | $X$ | 245.57838 | 57.03847 | 180.25718 | 27.11582 | 0.2553369 | 0.17749763 | 3.1357470 | 20 | — | — |
| 339483 2005 $FQ_{3}$ | 16.9 | $X$ | 175.92881 | 84.53909 | 37.32545 | 2.85547 | 0.1468678 | 0.21794679 | 2.7346541 | 20 | 8 2.0 | 21.2 |
| 339484 2005 $FH_{5}$ | 16.6 | $X$ | 182.01804 | 107.34832 | 9.59173 | 6.95494 | 0.2175902 | 0.21932245 | 2.7232070 | 20 | 8 1.2 | 21.3 |
| 339485 2005 $GQ_{2}$ | 15.7 | $X$ | 261.79777 | 226.85149 | 29.62892 | 13.54639 | 0.1814762 | 0.18437106 | 3.0573199 | 20 | 1 22.9 | 20.8 |
| 339486 Raimeux | 16.6 | $X$ | 88.00278 | 138.28557 | 26.27620 | 7.31155 | 0.0535519 | 0.20547939 | 2.8441808 | 20 | 6 11.0 | 20.5 |
| 339487 2005 $GK_{10}$ | 16.4 | $X$ | 7.24371 | 159.61655 | 40.96496 | 3.56796 | 0.1067588 | 0.19747773 | 2.9205006 | 20 | 4 6.5 | 19.8 |
| 339488 2005 $GV_{10}$ | 15.8 | $X$ | 233.65012 | 107.88102 | 164.82984 | 6.44825 | 0.0909656 | 0.18390468 | 3.0624866 | 20 | 1 17.2 | 20.6 |
| 339489 2005 $GG_{13}$ | 15.6 | $X$ | 236.91483 | 147.57207 | 161.93178 | 11.01452 | 0.0719729 | 0.19067330 | 2.9895751 | 20 | 3 5.5 | 20.0 |
| 339490 2005 $GR_{14}$ | 15.6 | $X$ | 242.83323 | 225.72106 | 15.90785 | 18.43845 | 0.1677430 | 0.17953404 | 3.1119899 | 20 | — | — |
| 339491 2005 $GC_{20}$ | 16.4 | $X$ | 292.15698 | 214.11698 | 34.93691 | 5.71530 | 0.1146582 | 0.18859828 | 3.0114633 | 20 | 2 20.8 | 20.8 |
| 339492 2005 $GQ_{21}$ | 18.2 | $X$ | 197.86576 | 143.61606 | 203.25100 | 47.02245 | 0.2152842 | 0.57858046 | 1.4263525 | 20 | 1 21.1 | 21.2 |
| 339493 2005 $GE_{25}$ | 17.1 | $X$ | 203.45447 | 59.12860 | 354.98700 | 1.93828 | 0.1856841 | 0.21090668 | 2.7951760 | 20 | 5 31.7 | 21.6 |
| 339494 2005 $GR_{34}$ | 16.4 | $X$ | 187.49810 | 12.18955 | 128.74470 | 10.03548 | 0.2743867 | 0.22261651 | 2.6962768 | 20 | 9 1.8 | 21.2 |
| 339495 2005 $GW_{34}$ | 17.0 | $X$ | 195.00987 | 106.23908 | 353.54657 | 18.89603 | 0.0819789 | 0.35041794 | 1.9925619 | 20 | 8 13.1 | 19.6 |
| 339496 2005 $GZ_{35}$ | 17.1 | $X$ | 168.73918 | 263.42569 | 185.39166 | 5.78809 | 0.0342670 | 0.20979526 | 2.8050392 | 20 | 6 11.7 | 21.1 |
| 339497 2005 $GD_{36}$ | 16.8 | $X$ | 143.28611 | 225.78615 | 205.77657 | 1.52965 | 0.0610133 | 0.20253531 | 2.8716768 | 20 | 4 21.5 | 20.7 |
| 339498 2005 $GC_{40}$ | 16.4 | $X$ | 267.90365 | 189.03101 | 51.18757 | 2.49694 | 0.1307069 | 0.18313637 | 3.0710459 | 20 | 1 11.5 | 21.2 |
| 339499 2005 $GA_{49}$ | 16.0 | $X$ | 252.52514 | 73.45384 | 196.55584 | 9.98683 | 0.0844955 | 0.18591474 | 3.0403728 | 20 | 1 31.7 | 20.8 |
| 339500 2005 $GT_{52}$ | 16.3 | $X$ | 281.28938 | 53.55927 | 215.78712 | 17.23385 | 0.1198507 | 0.18872159 | 3.0101513 | 20 | 2 23.9 | 21.0 |
| 339501 2005 $GR_{55}$ | 15.8 | $X$ | 171.99067 | 287.79717 | 234.17533 | 11.72020 | 0.2044957 | 0.22243360 | 2.6977547 | 20 | 9 10.6 | 20.6 |
| 339502 2005 $GG_{60}$ | 15.2 | $X$ | 274.21497 | 359.67033 | 210.47676 | 17.20450 | 0.1431316 | 0.17943800 | 3.1131002 | 20 | — | — |
| 339503 2005 $GM_{60}$ | 15.4 | $X$ | 201.96295 | 271.99244 | 355.53463 | 21.23992 | 0.2018372 | 0.17610221 | 3.1522901 | 20 | — | — |
| 339504 2005 $GJ_{65}$ | 16.2 | $X$ | 339.59410 | 232.33708 | 27.29324 | 9.33236 | 0.0267242 | 0.20214794 | 2.8753441 | 20 | 5 13.6 | 20.0 |
| 339505 2005 $GS_{69}$ | 15.1 | $X$ | 236.94298 | 164.00529 | 74.40685 | 15.07900 | 0.1877716 | 0.17642142 | 3.1484865 | 20 | — | — |
| 339506 2005 $GP_{83}$ | 16.6 | $X$ | 21.08479 | 176.91996 | 3.66927 | 8.35507 | 0.1230007 | 0.19607358 | 2.9344271 | 20 | 4 1.7 | 19.8 |
| 339507 2005 $GO_{97}$ | 16.1 | $X$ | 285.14643 | 90.30371 | 155.62505 | 6.62920 | 0.0648854 | 0.18726653 | 3.0257237 | 20 | 2 12.6 | 20.3 |
| 339508 2005 $GR_{100}$ | 16.2 | $X$ | 198.90999 | 333.95746 | 20.54979 | 10.31820 | 0.1125533 | 0.19307674 | 2.9647136 | 20 | 3 21.1 | 20.9 |
| 339509 2005 $GN_{102}$ | 15.8 | $X$ | 176.31202 | 296.91329 | 57.65215 | 11.34919 | 0.0335557 | 0.18762388 | 3.0218807 | 20 | 2 29.2 | 20.4 |
| 339510 2005 $GV_{102}$ | 15.4 | $X$ | 37.10549 | 195.39478 | 220.57448 | 8.41531 | 0.0863535 | 0.17377009 | 3.1804314 | 20 | — | — |
| 339511 2005 $GZ_{107}$ | 16.7 | $X$ | 223.03591 | 21.03358 | 32.51512 | 6.14246 | 0.0384183 | 0.20922114 | 2.8101684 | 20 | 7 2.1 | 20.7 |
| 339512 2005 $GL_{108}$ | 16.6 | $X$ | 249.67155 | 293.04417 | 64.51274 | 2.93964 | 0.0857690 | 0.20240175 | 2.8729399 | 20 | 5 16.5 | 20.7 |
| 339513 2005 $GA_{113}$ | 15.5 | $X$ | 226.40272 | 91.67452 | 171.61757 | 25.22964 | 0.2492795 | 0.17684544 | 3.1434518 | 20 | — | — |
| 339514 2005 $GZ_{113}$ | 15.6 | $X$ | 190.65328 | 227.60319 | 52.40636 | 28.36321 | 0.2824808 | 0.17143655 | 3.2092270 | 20 | — | — |
| 339515 2005 $GJ_{134}$ | 16.5 | $X$ | 200.01235 | 122.49377 | 164.64398 | 2.82849 | 0.1509814 | 0.17781439 | 3.1320218 | 20 | 1 3.4 | 21.5 |
| 339516 2005 $GB_{136}$ | 16.1 | $X$ | 66.12139 | 108.89401 | 90.84161 | 9.45200 | 0.0980563 | 0.20453871 | 2.8528945 | 20 | 7 6.3 | 19.9 |
| 339517 2005 $GE_{136}$ | 15.5 | $X$ | 264.06611 | 43.85591 | 194.25953 | 18.12831 | 0.0291417 | 0.18144639 | 3.0900855 | 20 | 1 12.7 | 20.3 |
| 339518 2005 $GW_{139}$ | 16.7 | $X$ | 323.13229 | 116.91169 | 119.72793 | 3.01892 | 0.0433443 | 0.19298808 | 2.9656215 | 20 | 3 24.4 | 20.6 |
| 339519 2005 $GM_{154}$ | 15.5 | $X$ | 228.69709 | 207.34782 | 52.95743 | 6.92424 | 0.1559327 | 0.17881908 | 3.1202794 | 20 | — | — |
| 339520 2005 $GV_{155}$ | 16.2 | $X$ | 236.71483 | 263.25958 | 43.89759 | 9.31626 | 0.1069413 | 0.18836094 | 3.0139923 | 20 | 3 4.4 | 20.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339521 2005 $GU_{157}$ | 16.3 | X | 191.47046 | 96.48254 | 207.41139 | 7.18407 | 0.1920584 | 0.17768597 | 3.1335307 | 20 | 1 14.7 | 21.7 |
| 339522 2005 $GZ_{158}$ | 15.9 | X | 239.32727 | 348.65213 | 269.97994 | 4.21688 | 0.1069622 | 0.18081407 | 3.0972855 | 20 | 1 6.7 | 20.7 |
| 339523 2005 $GH_{173}$ | 15.9 | X | 197.89142 | 296.77939 | 76.89079 | 5.89101 | 0.1317287 | 0.19510464 | 2.9441346 | 20 | 4 11.9 | 20.6 |
| 339524 2005 $GF_{175}$ | 16.0 | X | 152.50775 | 151.78467 | 215.71410 | 9.32072 | 0.0940319 | 0.18498556 | 3.0505454 | 20 | 2 14.3 | 20.8 |
| 339525 2005 $GL_{205}$ | 16.6 | X | 340.55410 | 122.03927 | 98.46300 | 3.65185 | 0.1458316 | 0.19239108 | 2.9717534 | 20 | 3 17.9 | 20.1 |
| 339526 2005 $GA_{216}$ | 16.3 | X | 231.03391 | 101.60741 | 179.30666 | 10.75317 | 0.1625583 | 0.18431181 | 3.0579750 | 20 | 1 19.9 | 21.5 |
| 339527 2005 $GG_{221}$ | 16.1 | X | 179.53073 | 253.09218 | 229.20931 | 8.22368 | 0.1492763 | 0.21553563 | 2.7550110 | 20 | 8 1.9 | 20.7 |
| 339528 2005 $GH_{225}$ | 15.9 | X | 213.73911 | 243.53921 | 52.12112 | 10.92008 | 0.0844632 | 0.18224769 | 3.0810212 | 20 | 1 28.4 | 20.8 |
| 339529 2005 $GV_{227}$ | 16.0 | X | 242.54919 | 3.46453 | 227.94658 | 9.25622 | 0.1618492 | 0.17685950 | 3.1432852 | 20 | — | — |
| 339530 2005 $HT_{1}$ | 15.4 | X | 198.42785 | 242.77307 | 35.98757 | 24.33962 | 0.2225471 | 0.17350865 | 3.1836254 | 20 | — | — |
| 339531 2005 $HB_{5}$ | 18.0 | X | 174.80503 | 170.56939 | 103.20704 | 6.55979 | 0.1611313 | 0.29881844 | 2.2158029 | 20 | — | — |
| 339532 2005 $JU_{3}$ | 15.7 | X | 216.21489 | 283.45476 | 338.46976 | 7.07853 | 0.1811939 | 0.17424281 | 3.1746765 | 20 | — | — |
| 339533 2005 $JD_{4}$ | 15.7 | X | 240.72380 | 9.46997 | 227.87982 | 9.83437 | 0.1679995 | 0.17429989 | 3.1739833 | 20 | — | — |
| 339534 2005 $JL_{14}$ | 15.8 | X | 192.23511 | 75.45634 | 219.43565 | 24.67508 | 0.2321506 | 0.17484471 | 3.1673865 | 20 | 1 3.1 | 21.7 |
| 339535 2005 $JA_{15}$ | 16.2 | X | 277.28283 | 243.22794 | 23.39106 | 10.14668 | 0.1003101 | 0.19147633 | 2.9812105 | 20 | 2 28.1 | 20.6 |
| 339536 2005 $JU_{26}$ | 16.3 | X | 228.67346 | 106.21184 | 165.20206 | 5.01337 | 0.0996445 | 0.17831473 | 3.1261603 | 20 | 1 11.5 | 21.3 |
| 339537 2005 $JO_{34}$ | 15.9 | X | 18.88909 | 274.55867 | 208.74959 | 15.94422 | 0.1198071 | 0.18069522 | 3.0986434 | 20 | 1 13.6 | 20.0 |
| 339538 2005 $JN_{46}$ | 16.3 | X | 183.97091 | 147.08877 | 215.52907 | 10.61556 | 0.1022795 | 0.18840451 | 3.0135277 | 20 | 3 11.2 | 21.2 |
| 339539 2005 $JZ_{46}$ | 16.0 | X | 214.90914 | 132.62278 | 216.05699 | 9.20094 | 0.1070332 | 0.19096381 | 2.9865423 | 20 | 3 25.6 | 20.7 |
| 339540 2005 $JK_{49}$ | 16.2 | X | 257.55234 | 144.94516 | 110.98469 | 5.21263 | 0.1598166 | 0.18118502 | 3.0930565 | 20 | 1 17.1 | 21.1 |
| 339541 2005 $JS_{50}$ | 16.3 | X | 235.15762 | 226.22232 | 90.40966 | 4.27494 | 0.1021363 | 0.18866579 | 3.0107447 | 20 | 3 12.0 | 20.9 |
| 339542 2005 $JA_{59}$ | 16.3 | X | 164.89373 | 270.35137 | 200.39811 | 14.68061 | 0.1841319 | 0.21346616 | 2.7727881 | 20 | 7 5.6 | 21.2 |
| 339543 2005 $JC_{59}$ | 16.2 | X | 170.98637 | 293.23827 | 357.88671 | 0.98087 | 0.2114253 | 0.17370847 | 3.1811835 | 20 | — | — |
| 339544 2005 $JJ_{62}$ | 16.1 | X | 340.82038 | 323.61947 | 234.55503 | 9.04887 | 0.0807723 | 0.18844181 | 3.0131300 | 20 | 2 19.9 | 20.3 |
| 339545 2005 $JD_{65}$ | 16.1 | X | 209.85309 | 39.31500 | 209.31336 | 16.69287 | 0.0952406 | 0.17220202 | 3.1997095 | 20 | — | — |
| 339546 2005 $JE_{73}$ | 16.0 | X | 151.54062 | 139.15248 | 213.99482 | 9.61123 | 0.1035827 | 0.17940972 | 3.1134274 | 20 | 1 29.3 | 20.9 |
| 339547 2005 $JA_{74}$ | 15.9 | X | 281.90926 | 349.33968 | 218.66847 | 11.77167 | 0.0804917 | 0.17851673 | 3.1238015 | 20 | — | — |
| 339548 2005 $JB_{78}$ | 18.3 | X | 207.77816 | 63.48818 | 173.43386 | 4.74783 | 0.1840988 | 0.30065180 | 2.2067858 | 20 | — | — |
| 339549 2005 $JF_{93}$ | 15.8 | X | 331.92883 | 206.64232 | 32.29813 | 10.51697 | 0.0682494 | 0.19314930 | 2.9639711 | 20 | 4 6.3 | 19.6 |
| 339550 2005 $JV_{94}$ | 16.3 | X | 197.67319 | 261.84584 | 57.55349 | 4.68681 | 0.0691384 | 0.18190604 | 3.0848778 | 20 | 2 7.9 | 21.0 |
| 339551 2005 $JZ_{103}$ | 16.5 | X | 241.14026 | 107.29122 | 157.84063 | 0.96991 | 0.1438122 | 0.18000467 | 3.1065633 | 20 | 1 13.8 | 21.3 |
| 339552 2005 $JO_{105}$ | 16.4 | X | 292.54143 | 55.39866 | 169.51647 | 3.08840 | 0.1036149 | 0.18339944 | 3.0681085 | 20 | 1 22.3 | 20.7 |
| 339553 2005 $JE_{106}$ | 15.9 | X | 129.36022 | 149.99820 | 212.70619 | 9.96988 | 0.1138520 | 0.17743707 | 3.1364604 | 20 | 1 19.3 | 20.7 |
| 339554 2005 $JH_{110}$ | 16.0 | X | 94.91710 | 173.48921 | 211.51089 | 14.14269 | 0.0759264 | 0.17887941 | 3.1195777 | 20 | — | — |
| 339555 2005 $JM_{112}$ | 15.5 | X | 286.87349 | 169.98563 | 81.00593 | 21.54008 | 0.1462966 | 0.18488644 | 3.0516356 | 20 | 2 17.1 | 20.3 |
| 339556 2005 $JA_{121}$ | 15.5 | X | 113.84437 | 300.01019 | 89.08095 | 11.19287 | 0.1119553 | 0.17847240 | 3.1243188 | 20 | 2 6.8 | 20.1 |
| 339557 2005 $JE_{127}$ | 15.9 | X | 212.31276 | 74.94728 | 216.02540 | 11.31379 | 0.1962069 | 0.17712575 | 3.1401345 | 20 | 1 15.3 | 21.4 |
| 339558 2005 $JG_{136}$ | 15.6 | X | 248.45261 | 68.59138 | 159.26474 | 12.41417 | 0.0763657 | 0.17623257 | 3.1507354 | 20 | — | — |
| 339559 2005 $JW_{138}$ | 15.8 | X | 203.38447 | 88.32162 | 233.82518 | 14.70663 | 0.2400533 | 0.17952066 | 3.1121446 | 20 | 2 8.9 | 21.6 |
| 339560 2005 $JW_{143}$ | 18.3 | X | 205.63292 | 161.08128 | 119.08721 | 3.17388 | 0.1222749 | 0.30544102 | 2.1836573 | 20 | — | — |
| 339561 2005 $JR_{149}$ | 18.6 | X | 181.44956 | 260.74588 | 53.35830 | 4.26914 | 0.1967438 | 0.30676147 | 2.1773864 | 20 | 1 4.9 | 21.8 |
| 339562 2005 $JF_{162}$ | 13.7 | X | 310.55905 | 270.14218 | 121.39369 | 9.02520 | 0.0152781 | 0.08363707 | 5.1784945 | 20 | 9 15.1 | 20.5 |
| 339563 2005 $JT_{169}$ | 16.9 | X | 312.62767 | 212.26116 | 86.23649 | 3.17215 | 0.0518114 | 0.20174320 | 2.8791885 | 20 | 5 27.0 | 20.7 |
| 339564 2005 $KE_{2}$ | 15.8 | X | 290.94408 | 127.12875 | 97.38629 | 7.17648 | 0.0253891 | 0.18173375 | 3.0868273 | 20 | 2 1.5 | 20.1 |
| 339565 2005 $KH_{4}$ | 16.0 | X | 288.02350 | 24.51495 | 221.94926 | 21.65124 | 0.0632132 | 0.18555489 | 3.0443023 | 20 | 2 10.0 | 20.9 |
| 339566 2005 $KF_{8}$ | 15.3 | X | 341.64809 | 106.70215 | 85.68984 | 13.43510 | 0.0980536 | 0.18502218 | 3.0501429 | 20 | 2 21.7 | 19.4 |
| 339567 2005 $LR$ | 15.4 | X | 180.26099 | 207.25767 | 101.61128 | 11.94300 | 0.1433056 | 0.17324641 | 3.1868373 | 20 | 1 11.7 | 20.6 |
| 339568 2005 $LP_{4}$ | 16.1 | X | 201.94247 | 86.88962 | 189.73369 | 8.58195 | 0.0613356 | 0.17453984 | 3.1710736 | 20 | — | — |
| 339569 2005 $LR_{6}$ | 15.6 | X | 222.80419 | 59.94017 | 197.82212 | 26.57023 | 0.1961301 | 0.17146085 | 3.2089238 | 20 | — | — |
| 339570 2005 $LR_{8}$ | 15.3 | X | 174.36568 | 269.34699 | 78.17376 | 16.91704 | 0.2465205 | 0.17920934 | 3.1157477 | 20 | 2 29.3 | 21.0 |
| 339571 2005 $LF_{13}$ | 16.0 | X | 180.22738 | 113.15623 | 204.89628 | 8.92693 | 0.0955286 | 0.17641522 | 3.1485604 | 20 | 1 17.8 | 21.0 |
| 339572 2005 $LZ_{14}$ | 15.9 | X | 134.74648 | 137.56960 | 206.68246 | 11.91092 | 0.2323567 | 0.17119456 | 3.2122506 | 20 | 1 16.4 | 21.2 |
| 339573 2005 $LS_{16}$ | 15.3 | X | 292.91275 | 322.84156 | 239.62641 | 14.16235 | 0.0934795 | 0.17863309 | 3.1224449 | 20 | — | — |
| 339574 2005 $LR_{23}$ | 16.2 | X | 263.64477 | 182.25831 | 80.13534 | 2.80782 | 0.0734868 | 0.18381298 | 3.0635050 | 20 | 2 8.5 | 20.7 |
| 339575 2005 $LF_{25}$ | 15.8 | X | 193.42673 | 104.46274 | 221.78708 | 9.35214 | 0.1059803 | 0.17993956 | 3.1073126 | 20 | 2 7.3 | 20.9 |
| 339576 2005 $LC_{32}$ | 17.8 | X | 206.78767 | 52.10309 | 274.09133 | 6.76245 | 0.0847992 | 0.30811221 | 2.1710181 | 20 | 2 7.0 | 20.8 |
| 339577 2005 $LP_{37}$ | 15.4 | X | 197.97632 | 66.13396 | 220.65811 | 16.90161 | 0.1295941 | 0.17326197 | 3.1866465 | 20 | — | — |
| 339578 2005 $LA_{51}$ | 17.7 | X | 166.60100 | 19.29167 | 282.03981 | 4.69000 | 0.1860190 | 0.29580761 | 2.2308129 | 20 | — | — |
| 339579 2005 $MX_{11}$ | 15.8 | X | 207.83526 | 79.88813 | 231.38895 | 15.45334 | 0.2242040 | 0.17760190 | 3.1345196 | 20 | 1 31.5 | 21.6 |
| 339580 2005 $MK_{13}$ | 16.7 | X | 83.71915 | 117.15017 | 248.25674 | 4.49047 | 0.2711387 | 0.28626730 | 2.2801052 | 20 | — | — |
| 339581 2005 $MR_{14}$ | 15.9 | X | 198.62867 | 103.83305 | 209.54464 | 10.06480 | 0.0771502 | 0.17817752 | 3.1277649 | 20 | 1 28.8 | 20.9 |
| 339582 2005 $MY_{18}$ | 15.5 | X | 214.63005 | 186.77671 | 124.44300 | 11.79752 | 0.0707437 | 0.18110758 | 3.0939382 | 20 | 2 15.3 | 20.2 |
| 339583 2005 $MA_{21}$ | 17.0 | X | 116.43465 | 100.65368 | 219.80473 | 7.34414 | 0.2320966 | 0.28803603 | 2.2707614 | 20 | — | — |
| 339584 2005 $MG_{23}$ | 16.4 | X | 114.25577 | 113.36629 | 194.64004 | 22.17258 | 0.2551756 | 0.28503567 | 2.2866687 | 20 | — | — |
| 339585 2005 $MY_{30}$ | 15.6 | X | 129.17071 | 261.75718 | 100.20482 | 10.32596 | 0.0931461 | 0.17451200 | 3.1714109 | 20 | 1 19.1 | 20.3 |
| 339586 2005 $MM_{32}$ | 16.9 | X | 115.67401 | 20.53635 | 333.73731 | 9.55640 | 0.1436289 | 0.29346147 | 2.2426870 | 20 | — | — |
| 339587 2005 $MG_{35}$ | 17.8 | X | 81.69711 | 31.21450 | 296.37956 | 1.69247 | 0.2217042 | 0.28328785 | 2.2960645 | 20 | — | — |
| 339588 2005 $MO_{35}$ | 17.5 | X | 60.13042 | 313.89510 | 120.96337 | 4.16170 | 0.0883910 | 0.29895734 | 2.2151165 | 20 | — | — |
| 339589 2005 $MJ_{40}$ | 17.9 | X | 238.11386 | 313.31292 | 266.08788 | 6.14966 | 0.1839395 | 0.29776549 | 2.2210234 | 20 | — | — |
| 339590 2005 $MA_{43}$ | 15.5 | X | 225.32661 | 347.62362 | 293.28022 | 11.99254 | 0.1148700 | 0.17028938 | 3.2236237 | 20 | 1 19.7 | 20.6 |
| 339591 2005 $ME_{47}$ | 17.2 | X | 78.78849 | 78.08428 | 248.98326 | 6.40431 | 0.1545814 | 0.28220022 | 2.3019602 | 20 | — | — |
| 339592 2005 $MU_{50}$ | 17.6 | X | 322.25319 | 246.46378 | 312.99704 | 3.37498 | 0.0694815 | 0.30590448 | 2.1814511 | 20 | 1 12.3 | 19.8 |
| 339593 2005 $MQ_{53}$ | 17.4 | X | 90.60440 | 252.16014 | 130.17607 | 1.44628 | 0.2241192 | 0.28985267 | 2.2612635 | 20 | — | — |
| 339594 2005 $NW_{16}$ | 18.1 | X | 101.37981 | 160.30686 | 174.36399 | 1.64935 | 0.1535326 | 0.28785158 | 2.2717314 | 20 | — | — |
| 339595 2005 $NQ_{22}$ | 17.7 | X | 287.95940 | 75.08973 | 186.26171 | 1.41560 | 0.1134196 | 0.31142613 | 2.1555893 | 20 | 2 12.9 | 20.2 |
| 339596 2005 $NA_{29}$ | 18.0 | X | 133.20177 | 100.77754 | 218.98223 | 1.90389 | 0.1556644 | 0.29134671 | 2.2535263 | 20 | — | — |
| 339597 2005 $NX_{36}$ | 17.1 | X | 116.10995 | 181.47165 | 146.61928 | 5.69229 | 0.2075220 | 0.28928092 | 2.2642421 | 20 | — | — |
| 339598 2005 $NQ_{40}$ | 18.0 | X | 194.00479 | 170.32400 | 125.10432 | 5.24926 | 0.1230646 | 0.30071663 | 2.2064686 | 20 | — | — |
| 339599 2005 $NS_{54}$ | 17.6 | X | 129.92469 | 197.37176 | 144.81020 | 5.14707 | 0.1174696 | 0.29469778 | 2.2364102 | 20 | — | — |
| 339600 2005 $NX_{54}$ | 18.1 | X | 179.79215 | 52.42553 | 221.18613 | 2.04479 | 0.1641272 | 0.29424647 | 2.2386964 | 20 | — | — |

| Planet | H | G | M | ω | Ω | i | e | μ | a | TE | Oppos. | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339601 2005 $NV_{67}$ | 17.8 | X | 137.96660 | 13.27904 | 278.49784 | 2.45697 | 0.1656883 | 0.28967381 | 2.2621943 | 20 | — | — |
| 339602 2005 $NR_{87}$ | 17.7 | X | 96.93096 | 77.26637 | 275.56449 | 1.99348 | 0.1922606 | 0.28988437 | 2.2610987 | 20 | — | — |
| 339603 2005 $NV_{97}$ | 17.9 | X | 210.73453 | 133.51495 | 126.63772 | 5.18777 | 0.1112852 | 0.29797230 | 2.2199956 | 20 | — | — |
| 339604 2005 $NX_{122}$ | 17.0 | X | 106.68191 | 233.18590 | 128.47586 | 7.17207 | 0.1536691 | 0.29140080 | 2.2532475 | 20 | — | — |
| 339605 2005 $OQ$ | 17.8 | X | 140.83144 | 234.47617 | 101.83724 | 2.75650 | 0.1582953 | 0.29522494 | 2.2337472 | 20 | — | — |
| 339606 2005 $OT_{3}$ | 17.3 | X | 115.51867 | 313.69156 | 13.61056 | 6.32535 | 0.2074111 | 0.28951265 | 2.2630337 | 20 | — | — |
| 339607 2005 $OW_{3}$ | 17.5 | X | 104.59037 | 272.41037 | 42.35341 | 7.51478 | 0.1432627 | 0.28560977 | 2.2836034 | 20 | — | — |
| 339608 2005 $OE_{6}$ | 17.6 | X | 107.30832 | 265.20326 | 90.00588 | 3.51471 | 0.1800565 | 0.28952490 | 2.2629699 | 20 | — | — |
| 339609 2005 $OP_{6}$ | 17.4 | X | 80.73813 | 287.40830 | 68.17750 | 2.67170 | 0.2562438 | 0.28407162 | 2.2918393 | 20 | — | — |
| 339610 2005 $OA_{8}$ | 18.1 | X | 167.51125 | 125.87643 | 175.86260 | 5.13401 | 0.1998101 | 0.29529143 | 2.2334119 | 20 | — | — |
| 339611 2005 $OG_{9}$ | 17.7 | X | 154.75749 | 355.11778 | 320.26242 | 3.41351 | 0.1673120 | 0.29512277 | 2.2342627 | 20 | — | — |
| 339612 2005 $OK_{12}$ | 17.0 | X | 103.90898 | 54.39374 | 335.41791 | 7.58573 | 0.0982310 | 0.29442306 | 2.2378012 | 20 | 1 1.8 | 19.5 |
| 339613 2005 $OW_{13}$ | 17.5 | X | 65.16590 | 192.60932 | 192.62305 | 6.17775 | 0.1274667 | 0.28836078 | 2.2690562 | 20 | — | — |
| 339614 2005 $OF_{16}$ | 17.8 | X | 134.70862 | 42.49611 | 291.66230 | 2.20078 | 0.1971895 | 0.29244857 | 2.2478623 | 20 | — | — |
| 339615 2005 $OD_{19}$ | 17.5 | X | 69.80168 | 113.59291 | 275.70523 | 3.67465 | 0.1860743 | 0.28695769 | 2.2764466 | 20 | — | — |
| 339616 2005 $OE_{19}$ | 17.2 | X | 86.66622 | 184.31212 | 170.03872 | 6.34853 | 0.2160365 | 0.28508769 | 2.2863905 | 20 | — | — |
| 339617 2005 $OS_{19}$ | 17.3 | X | 242.27935 | 287.12607 | 323.83776 | 6.46927 | 0.1560516 | 0.30078916 | 2.2061139 | 20 | — | — |
| 339618 2005 $OB_{24}$ | 17.3 | X | 293.60494 | 25.90580 | 195.71071 | 6.79908 | 0.0390906 | 0.30272548 | 2.1966965 | 20 | 1 7.7 | 20.1 |
| 339619 2005 $ON_{28}$ | 17.2 | X | 85.02982 | 299.27319 | 29.48195 | 6.53376 | 0.1342704 | 0.28140603 | 2.3062893 | 20 | — | — |
| 339620 2005 $PL_{4}$ | 17.0 | X | 65.57764 | 295.52799 | 58.40029 | 7.46311 | 0.2602449 | 0.28307177 | 2.2972328 | 20 | — | — |
| 339621 2005 $PZ_{5}$ | 17.5 | X | 151.93919 | 112.99853 | 167.41340 | 23.47516 | 0.2449322 | 0.28934047 | 2.2639314 | 20 | — | — |
| 339622 2005 $PE_{13}$ | 17.5 | X | 182.83236 | 291.13643 | 14.55829 | 4.66127 | 0.1743284 | 0.29743487 | 2.2226690 | 20 | — | — |
| 339623 2005 $PA_{18}$ | 17.6 | X | 114.68473 | 116.22773 | 202.28690 | 3.80440 | 0.1541431 | 0.28708770 | 2.2757593 | 20 | — | — |
| 339624 2005 $PA_{20}$ | 17.6 | X | 66.45260 | 326.58754 | 331.68937 | 1.67213 | 0.2123803 | 0.27595413 | 2.3365663 | 20 | 12 7.6 | 21.0 |
| 339625 2005 $QY$ | 17.3 | X | 90.01210 | 332.79490 | 348.75286 | 7.09531 | 0.1398432 | 0.28283177 | 2.2985322 | 20 | — | — |
| 339626 2005 $QF_{5}$ | 17.2 | X | 176.50856 | 304.72555 | 333.96197 | 6.62023 | 0.1307749 | 0.29302364 | 2.2449204 | 20 | — | — |
| 339627 2005 $QG_{7}$ | 17.4 | X | 95.26138 | 62.51762 | 343.39782 | 4.95677 | 0.1593132 | 0.29379866 | 2.2409707 | 20 | 1 21.5 | 19.7 |
| 339628 2005 $QT_{8}$ | 17.4 | X | 76.44196 | 47.97144 | 267.09748 | 1.39851 | 0.2365816 | 0.27854228 | 2.3220699 | 20 | — | — |
| 339629 2005 $QV_{9}$ | 17.1 | X | 85.05648 | 255.86774 | 151.13278 | 6.85760 | 0.0917349 | 0.29415038 | 2.2391840 | 20 | — | — |
| 339630 2005 $QX_{9}$ | 17.5 | X | 120.48086 | 27.43784 | 300.11073 | 7.66698 | 0.1015390 | 0.28833330 | 2.2692004 | 20 | — | — |
| 339631 2005 $QE_{14}$ | 16.9 | X | 58.43391 | 58.16779 | 342.42538 | 6.31303 | 0.0992829 | 0.28690312 | 2.2767353 | 20 | — | — |
| 339632 2005 $QU_{16}$ | 17.5 | X | 130.91756 | 178.85661 | 148.53872 | 8.91809 | 0.1805215 | 0.28922494 | 2.2645342 | 20 | — | — |
| 339633 2005 $QW_{26}$ | 17.8 | X | 112.79161 | 228.52358 | 60.34977 | 3.11578 | 0.2161967 | 0.27997872 | 2.3141208 | 20 | — | — |
| 339634 2005 $QG_{27}$ | 17.7 | X | 126.88785 | 227.60726 | 82.45885 | 3.03725 | 0.2782831 | 0.28647666 | 2.2789942 | 20 | — | — |
| 339635 2005 $QR_{28}$ | 18.0 | X | 123.77067 | 89.88954 | 220.04172 | 1.78056 | 0.2494282 | 0.28674865 | 2.2775529 | 20 | — | — |
| 339636 2005 $QU_{30}$ | 17.6 | X | 64.01101 | 234.90898 | 144.47335 | 5.29831 | 0.2457377 | 0.28519901 | 2.2857955 | 20 | — | — |
| 339637 2005 $QH_{33}$ | 17.9 | X | 117.89798 | 334.21531 | 318.09814 | 0.96978 | 0.2271499 | 0.28398361 | 2.2923127 | 20 | — | — |
| 339638 2005 $QE_{36}$ | 16.6 | X | 143.19521 | 314.51163 | 353.85669 | 6.72674 | 0.1991166 | 0.28889101 | 2.2662790 | 20 | — | — |
| 339639 2005 $QS_{37}$ | 17.2 | X | 95.92734 | 59.05042 | 331.91021 | 6.51186 | 0.0967454 | 0.29100132 | 2.2553091 | 20 | — | — |
| 339640 2005 $QT_{37}$ | 17.8 | X | 88.79045 | 184.01991 | 174.43932 | 5.81340 | 0.2013551 | 0.28469798 | 2.2884765 | 20 | — | — |
| 339641 2005 $QB_{42}$ | 17.4 | X | 77.75127 | 71.68766 | 286.65610 | 2.26525 | 0.1740211 | 0.28345254 | 2.2951751 | 20 | — | — |
| 339642 2005 $QR_{42}$ | 17.0 | X | 355.08782 | 252.02591 | 157.21338 | 10.09477 | 0.2396214 | 0.27422345 | 2.3463871 | 20 | — | — |
| 339643 2005 $QR_{44}$ | 17.1 | X | 117.54090 | 204.69335 | 143.65390 | 6.28545 | 0.2198199 | 0.28984853 | 2.2612850 | 20 | — | — |
| 339644 2005 $QK_{48}$ | 17.6 | X | 59.49127 | 9.70431 | 45.63606 | 2.98059 | 0.1812144 | 0.28787245 | 2.2716216 | 20 | — | — |
| 339645 2005 $QC_{51}$ | 17.1 | X | 60.81439 | 314.52396 | 18.25554 | 7.38077 | 0.2622961 | 0.27689129 | 2.3312912 | 20 | — | — |
| 339646 2005 $QG_{51}$ | 17.2 | X | 100.95017 | 258.69130 | 80.53983 | 5.68603 | 0.2585171 | 0.28496246 | 2.2870603 | 20 | — | — |
| 339647 2005 $QX_{52}$ | 17.5 | X | 102.72152 | 315.04746 | 5.28746 | 4.78866 | 0.2260327 | 0.28535793 | 2.2849468 | 20 | — | — |
| 339648 2005 $QM_{55}$ | 17.5 | X | 112.87322 | 340.90154 | 23.34731 | 4.80940 | 0.1686159 | 0.29059152 | 2.2574290 | 20 | — | — |
| 339649 2005 $QH_{56}$ | 17.8 | X | 86.68745 | 199.86842 | 118.51974 | 2.60320 | 0.3086548 | 0.28034115 | 2.3121259 | 20 | — | — |
| 339650 2005 $QR_{56}$ | 17.8 | X | 87.86074 | 138.55254 | 210.55067 | 3.33129 | 0.2290631 | 0.28608712 | 2.2810625 | 20 | — | — |
| 339651 2005 $QR_{60}$ | 17.1 | X | 116.10632 | 1.71067 | 328.87705 | 6.95498 | 0.1317342 | 0.28684653 | 2.2770347 | 20 | — | — |
| 339652 2005 $QA_{67}$ | 17.8 | X | 109.95903 | 218.26128 | 148.09784 | 3.06159 | 0.1870715 | 0.29072016 | 2.2567630 | 20 | — | — |
| 339653 2005 $QE_{69}$ | 17.2 | X | 142.50232 | 248.57013 | 63.82830 | 5.59777 | 0.2249772 | 0.29089595 | 2.2558537 | 20 | — | — |
| 339654 2005 $QC_{70}$ | 17.7 | X | 79.36041 | 311.77116 | 32.68334 | 2.66676 | 0.2250517 | 0.28289719 | 2.2981778 | 20 | — | — |
| 339655 2005 $QC_{72}$ | 17.7 | X | 97.04587 | 80.30044 | 278.64998 | 1.48079 | 0.2328495 | 0.28702070 | 2.2761135 | 20 | — | — |
| 339656 2005 $QZ_{72}$ | 17.4 | X | 84.47268 | 158.47782 | 187.54572 | 4.44243 | 0.1488027 | 0.28224953 | 2.3016921 | 20 | — | — |
| 339657 2005 $QF_{73}$ | 16.7 | X | 59.15790 | 36.33274 | 9.61075 | 23.66113 | 0.2682002 | 0.28205172 | 2.3027682 | 20 | — | — |
| 339658 2005 $QC_{74}$ | 17.0 | X | 86.92348 | 345.51669 | 337.97519 | 4.85400 | 0.2373513 | 0.28005938 | 2.3136765 | 20 | — | — |
| 339659 2005 $QO_{81}$ | 17.9 | X | 57.16181 | 10.40042 | 12.90770 | 2.88156 | 0.2261481 | 0.28330540 | 2.2959697 | 20 | — | — |
| 339660 2005 $QR_{81}$ | 17.5 | X | 97.12562 | 358.45471 | 345.68308 | 3.92465 | 0.1663385 | 0.28618566 | 2.2805388 | 20 | — | — |
| 339661 2005 $QN_{82}$ | 17.7 | X | 207.48389 | 315.82304 | 297.44228 | 3.98842 | 0.1839017 | 0.29281881 | 2.2459672 | 20 | — | — |
| 339662 2005 $QD_{84}$ | 17.4 | X | 339.37763 | 107.86085 | 337.37907 | 3.29769 | 0.0509800 | 0.27943310 | 2.3171322 | 20 | — | — |
| 339663 2005 $QR_{85}$ | 16.8 | X | 65.93968 | 18.92040 | 335.75540 | 4.13635 | 0.1630569 | 0.27734687 | 2.3287375 | 20 | — | — |
| 339664 2005 $QG_{87}$ | 15.5 | X | 242.72714 | 49.58743 | 281.89026 | 10.16727 | 0.1810272 | 0.17748926 | 3.1358456 | 20 | 3 24.2 | 20.7 |
| 339665 2005 $QO_{92}$ | 15.4 | X | 114.54387 | 138.57598 | 158.38448 | 10.29102 | 0.0567175 | 0.14760442 | 3.5459816 | 20 | 12 17.0 | 20.8 |
| 339666 2005 $QT_{98}$ | 16.6 | X | 124.52366 | 320.42441 | 7.37346 | 6.61661 | 0.1332769 | 0.28891371 | 2.2661603 | 20 | — | — |
| 339667 2005 $QZ_{98}$ | 17.2 | X | 147.63567 | 302.29045 | 13.68662 | 5.24213 | 0.1451444 | 0.29156288 | 2.2524123 | 20 | — | — |
| 339668 2005 $QJ_{106}$ | 17.5 | X | 59.81000 | 248.47861 | 57.90932 | 3.14910 | 0.2251839 | 0.27441109 | 2.3453173 | 20 | 12 12.4 | 21.0 |
| 339669 2005 $QB_{114}$ | 17.7 | X | 130.86995 | 165.13618 | 156.62299 | 9.86749 | 0.2804514 | 0.28850931 | 2.2682774 | 20 | — | — |
| 339670 2005 $QR_{119}$ | 17.6 | X | 65.40348 | 74.49216 | 343.04196 | 6.92577 | 0.0583769 | 0.29282949 | 2.2459126 | 20 | — | — |
| 339671 2005 $QC_{124}$ | 18.1 | X | 147.39527 | 145.00151 | 160.88072 | 6.73915 | 0.2009769 | 0.28997687 | 2.2606178 | 20 | — | — |
| 339672 2005 $QM_{129}$ | 17.4 | X | 297.46222 | 30.95894 | 121.01328 | 4.96386 | 0.0696995 | 0.28591523 | 2.2819766 | 20 | — | — |
| 339673 2005 $QC_{136}$ | 18.3 | X | 21.10285 | 273.60022 | 144.40255 | 2.35857 | 0.2107724 | 0.27976591 | 2.3152942 | 20 | — | — |
| 339674 2005 $QT_{140}$ | 17.9 | X | 201.61174 | 105.58003 | 162.97377 | 6.24629 | 0.0896080 | 0.29316655 | 2.2441908 | 20 | — | — |
| 339675 2005 $QF_{143}$ | 16.7 | X | 135.21795 | 352.37142 | 328.56258 | 12.58824 | 0.2392761 | 0.28963027 | 2.2624210 | 20 | — | — |
| 339676 2005 $QX_{143}$ | 18.2 | X | 61.70204 | 307.57443 | 72.95487 | 3.74850 | 0.2179399 | 0.28304114 | 2.2973986 | 20 | — | — |
| 339677 2005 $QB_{146}$ | 17.4 | X | 66.47184 | 13.08153 | 352.35077 | 3.43883 | 0.2058543 | 0.28435343 | 2.2903247 | 20 | — | — |
| 339678 2005 $QR_{146}$ | 17.3 | X | 180.76921 | 296.03240 | 8.54450 | 7.31364 | 0.1744080 | 0.29761585 | 2.2217678 | 20 | — | — |
| 339679 2005 $QY_{150}$ | 17.3 | X | 190.29826 | 94.84137 | 170.02260 | 6.97852 | 0.0959876 | 0.28757535 | 2.2731858 | 20 | — | — |
| 339680 2005 $QC_{155}$ | 17.6 | X | 121.63353 | 288.97403 | 26.88071 | 3.44002 | 0.1823002 | 0.28751213 | 2.2735190 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339681 2005 $QN_{165}$ | 16.3 | $X$ | 121.69685 | 301.17779 | 46.65755 | 7.60047 | 0.1695948 | 0.28904081 | 2.2654958 | 20 | — | — |
| 339682 2005 $QJ_{167}$ | 17.3 | $X$ | 141.39011 | 58.89259 | 267.39510 | 5.04778 | 0.1553271 | 0.29026164 | 2.2591390 | 20 | — | — |
| 339683 2005 $QK_{172}$ | 17.1 | $X$ | 72.38683 | 141.91940 | 226.03698 | 3.85359 | 0.1564116 | 0.28235102 | 2.3011405 | 20 | — | — |
| 339684 2005 $QL_{172}$ | 17.4 | $X$ | 38.38342 | 115.99699 | 314.44923 | 4.38380 | 0.0676714 | 0.28654439 | 2.2786351 | 20 | — | — |
| 339685 2005 $QM_{173}$ | 17.6 | $X$ | 140.56965 | 57.72678 | 266.19816 | 2.26062 | 0.1825922 | 0.28888114 | 2.2663305 | 20 | — | — |
| 339686 2005 $QQ_{174}$ | 17.5 | $X$ | 32.06543 | 223.38699 | 182.83334 | 2.55162 | 0.1502297 | 0.28204666 | 2.3027957 | 20 | — | — |
| 339687 2005 $QH_{177}$ | 17.4 | $X$ | 288.91731 | 151.11711 | 9.80948 | 6.24246 | 0.0875069 | 0.28446377 | 2.2897325 | 20 | — | — |
| 339688 2005 $QS_{177}$ | 17.7 | $X$ | 118.97053 | 303.84300 | 13.18907 | 4.30442 | 0.1365222 | 0.28496355 | 2.2870545 | 20 | — | — |
| 339689 2005 $QH_{179}$ | 18.3 | $X$ | 67.36367 | 45.08217 | 348.82333 | 2.65274 | 0.2334237 | 0.28496097 | 2.2870682 | 20 | — | — |
| 339690 2005 $QT_{179}$ | 17.5 | $X$ | 120.61648 | 216.60282 | 89.81218 | 3.76466 | 0.1925120 | 0.28444755 | 2.2898195 | 20 | — | — |
| 339691 2005 $QQ_{181}$ | 17.3 | $X$ | 65.71657 | 17.76921 | 1.83009 | 7.01562 | 0.1121114 | 0.28081097 | 2.3095463 | 20 | — | — |
| 339692 2005 $QW_{181}$ | 17.6 | $X$ | 5.78124 | 163.04678 | 240.97416 | 1.70370 | 0.1759288 | 0.27653785 | 2.3332771 | 20 | — | — |
| 339693 2005 $QQ_{182}$ | 17.9 | $X$ | 5.25957 | 274.96287 | 180.67525 | 2.16655 | 0.0925121 | 0.28546246 | 2.2843889 | 20 | — | — |
| 339694 2005 $QU_{186}$ | 17.8 | $X$ | 154.91683 | 127.90705 | 172.89524 | 1.89765 | 0.2276597 | 0.29026589 | 2.2591170 | 20 | — | — |
| 339695 2005 $QA_{187}$ | 18.1 | $X$ | 48.93910 | 248.44739 | 165.15772 | 2.71761 | 0.1340414 | 0.28775932 | 2.2722169 | 20 | — | — |
| 339696 2005 $QY_{188}$ | 17.3 | $X$ | 49.18331 | 350.87510 | 82.12864 | 5.51277 | 0.1220189 | 0.28727516 | 2.2747692 | 20 | — | — |
| 339697 2005 $RH$ | 15.3 | $X$ | 82.56142 | 92.27063 | 276.61369 | 14.41568 | 0.1384598 | 0.15405914 | 3.4462312 | 20 | — | — |
| 339698 2005 $RD_{2}$ | 16.4 | $X$ | 117.13469 | 52.50762 | 228.98502 | 23.09302 | 0.1602860 | 0.27707342 | 2.3302695 | 20 | 12 26.5 | 20.5 |
| 339699 2005 $RX_{4}$ | 16.9 | $X$ | 133.70512 | 35.75234 | 255.03258 | 6.42065 | 0.1066157 | 0.28091118 | 2.3089970 | 20 | — | — |
| 339700 2005 $RY_{5}$ | 17.7 | $X$ | 138.94108 | 110.99110 | 176.14776 | 5.62679 | 0.2995636 | 0.28725922 | 2.2748533 | 20 | — | — |
| 339701 2005 $RM_{6}$ | 17.4 | $X$ | 111.63339 | 11.59363 | 353.33953 | 2.92132 | 0.1665008 | 0.28851075 | 2.2682698 | 20 | — | — |
| 339702 2005 $RZ_{9}$ | 16.2 | $X$ | 59.88109 | 213.77435 | 209.28965 | 22.98372 | 0.1758541 | 0.28642025 | 2.2792934 | 20 | — | — |
| 339703 2005 $RU_{10}$ | 16.8 | $X$ | 104.05389 | 312.07738 | 49.32757 | 8.07811 | 0.2464425 | 0.28966609 | 2.2622344 | 20 | — | — |
| 339704 2005 $RH_{11}$ | 17.0 | $X$ | 98.80695 | 7.86839 | 313.73926 | 5.06824 | 0.1849226 | 0.28120465 | 2.3073902 | 20 | — | — |
| 339705 2005 $RB_{22}$ | 17.2 | $X$ | 106.92473 | 320.15105 | 45.51632 | 10.09086 | 0.3123008 | 0.29041385 | 2.2583495 | 20 | 1 9.3 | 19.8 |
| 339706 2005 $RZ_{25}$ | 16.7 | $X$ | 87.16478 | 112.79293 | 217.70749 | 6.35986 | 0.1405683 | 0.27956027 | 2.3164295 | 20 | — | — |
| 339707 2005 $RK_{27}$ | 16.4 | $X$ | 102.35998 | 158.22309 | 205.64456 | 22.98481 | 0.2637306 | 0.28626877 | 2.2800974 | 20 | — | — |
| 339708 2005 $RH_{29}$ | 17.8 | $X$ | 129.35537 | 88.37046 | 242.61966 | 3.95561 | 0.2191240 | 0.28845100 | 2.2685830 | 20 | — | — |
| 339709 2005 $RZ_{32}$ | 17.4 | $X$ | 114.50753 | 15.88716 | 317.71358 | 3.06367 | 0.1882784 | 0.28608436 | 2.2810772 | 20 | — | — |
| 339710 2005 $RH_{41}$ | 17.3 | $X$ | 58.16406 | 45.69016 | 39.85312 | 3.09936 | 0.0546016 | 0.29456411 | 2.2370868 | 20 | 1 2.8 | 19.5 |
| 339711 2005 $RA_{43}$ | 17.6 | $X$ | 130.89661 | 76.06879 | 265.84074 | 4.45542 | 0.2103255 | 0.29179936 | 2.2511952 | 20 | — | — |
| 339712 2005 $SE$ | 17.0 | $X$ | 58.84807 | 109.98895 | 280.19906 | 5.70671 | 0.1006889 | 0.28314876 | 2.2968164 | 20 | — | — |
| 339713 2005 $SG_{1}$ | 17.2 | $X$ | 99.24247 | 326.23020 | 15.79610 | 6.66152 | 0.2993610 | 0.28587674 | 2.2821814 | 20 | — | — |
| 339714 2005 $ST_{1}$ | 20.4 | $X$ | 97.17633 | 80.65795 | 7.58168 | 20.22871 | 0.3711260 | 0.56380395 | 1.4511667 | 20 | 4 4.5 | 19.8 |
| 339715 2005 $SS_{4}$ | 19.1 | $X$ | 170.32928 | 192.25685 | 28.67058 | 14.57995 | 0.7514942 | 0.55880504 | 1.4598083 | 20 | 11 21.9 | 21.7 |
| 339716 2005 $SL_{5}$ | 17.7 | $X$ | 77.86383 | 171.23347 | 190.30425 | 2.70162 | 0.1638691 | 0.28238405 | 2.3009611 | 20 | — | — |
| 339717 2005 $SG_{7}$ | 18.0 | $X$ | 88.45252 | 29.74592 | 359.75186 | 4.97240 | 0.1418137 | 0.28812018 | 2.2703193 | 20 | — | — |
| 339718 2005 $SP_{8}$ | 17.5 | $X$ | 354.43646 | 282.05862 | 199.20294 | 4.87671 | 0.1050756 | 0.28485765 | 2.2876213 | 20 | — | — |
| 339719 2005 $SJ_{9}$ | 16.8 | $X$ | 159.77952 | 321.06255 | 335.86515 | 24.08132 | 0.1245670 | 0.28908427 | 2.2652688 | 20 | — | — |
| 339720 2005 $SF_{12}$ | 17.5 | $X$ | 73.44779 | 76.92183 | 331.88836 | 2.93948 | 0.1673437 | 0.28756769 | 2.2732262 | 20 | — | — |
| 339721 2005 $SO_{13}$ | 17.6 | $X$ | 98.16616 | 192.41268 | 156.70345 | 0.66570 | 0.2113798 | 0.28444539 | 2.2898311 | 20 | — | — |
| 339722 2005 $SB_{14}$ | 16.9 | $X$ | 0.16731 | 18.42314 | 15.59011 | 8.63249 | 0.1485017 | 0.27198655 | 2.3592344 | 20 | — | — |
| 339723 2005 $SA_{23}$ | 17.8 | $X$ | 157.03499 | 256.83491 | 50.05201 | 2.93285 | 0.1772392 | 0.29011983 | 2.2598751 | 20 | — | — |
| 339724 2005 $SO_{28}$ | 17.4 | $X$ | 151.30345 | 4.09526 | 269.69811 | 3.44173 | 0.1881453 | 0.28229951 | 2.3014205 | 20 | — | — |
| 339725 2005 $SK_{33}$ | 17.1 | $X$ | 70.46619 | 185.00299 | 174.56627 | 7.08879 | 0.1375349 | 0.27913198 | 2.3187984 | 20 | — | — |
| 339726 2005 $SL_{34}$ | 17.9 | $X$ | 50.30400 | 325.13960 | 92.46620 | 3.39986 | 0.1824720 | 0.28350355 | 2.2948997 | 20 | — | — |
| 339727 2005 $SF_{37}$ | 15.1 | $X$ | 83.39231 | 359.75038 | 12.15759 | 9.93370 | 0.1031243 | 0.15046359 | 3.5009166 | 20 | — | — |
| 339728 2005 $SE_{39}$ | 18.2 | $X$ | 48.05443 | 359.81379 | 13.45588 | 1.27998 | 0.2023818 | 0.27802754 | 2.3249351 | 20 | — | — |
| 339729 2005 $SJ_{39}$ | 17.5 | $X$ | 35.30310 | 71.74028 | 14.52880 | 4.55338 | 0.1005346 | 0.28731157 | 2.2745770 | 20 | — | — |
| 339730 2005 $SS_{41}$ | 17.8 | $X$ | 190.48997 | 25.98690 | 226.27552 | 6.44207 | 0.1508800 | 0.28402297 | 2.2921010 | 20 | — | — |
| 339731 2005 $SG_{43}$ | 17.8 | $X$ | 62.90831 | 68.37170 | 344.31774 | 4.86594 | 0.1861067 | 0.28535823 | 2.2849452 | 20 | — | — |
| 339732 2005 $SK_{44}$ | 17.3 | $X$ | 77.79267 | 346.76154 | 4.84453 | 9.19465 | 0.2785883 | 0.28079925 | 2.3096105 | 20 | — | — |
| 339733 2005 $SL_{44}$ | 17.8 | $X$ | 126.71063 | 34.36649 | 289.52982 | 2.00198 | 0.0969364 | 0.28395726 | 2.2924545 | 20 | — | — |
| 339734 2005 $SR_{44}$ | 17.8 | $X$ | 0.27159 | 69.58255 | 317.64248 | 1.50078 | 0.2252678 | 0.27008023 | 2.3703229 | 20 | — | — |
| 339735 2005 $SE_{46}$ | 17.2 | $X$ | 31.78276 | 36.90291 | 8.62064 | 6.49552 | 0.1057926 | 0.27905513 | 2.3192241 | 20 | — | — |
| 339736 2005 $SS_{47}$ | 17.2 | $X$ | 89.04382 | 117.18572 | 208.45670 | 6.39347 | 0.1281369 | 0.27821511 | 2.3238900 | 20 | — | — |
| 339737 2005 $SP_{48}$ | 17.3 | $X$ | 153.55205 | 326.92845 | 354.37851 | 3.87917 | 0.0277441 | 0.28711896 | 2.2755941 | 20 | — | — |
| 339738 2005 $SF_{49}$ | 17.6 | $X$ | 344.17296 | 246.51954 | 177.95952 | 2.10766 | 0.1853530 | 0.27179927 | 2.3603180 | 20 | — | — |
| 339739 2005 $SU_{50}$ | 18.1 | $X$ | 99.16036 | 139.84478 | 196.57039 | 5.91752 | 0.3007580 | 0.28329108 | 2.2960470 | 20 | — | — |
| 339740 2005 $SZ_{50}$ | 17.3 | $X$ | 6.60142 | 232.04542 | 200.47317 | 7.99342 | 0.1170542 | 0.27813279 | 2.3243486 | 20 | — | — |
| 339741 2005 $SE_{51}$ | 16.6 | $X$ | 321.42036 | 101.74129 | 6.52093 | 6.72215 | 0.0705232 | 0.27687579 | 2.3313782 | 20 | — | — |
| 339742 2005 $SU_{52}$ | 17.5 | $X$ | 52.86809 | 273.32451 | 108.59745 | 1.77649 | 0.1614078 | 0.28002626 | 2.3138589 | 20 | — | — |
| 339743 2005 $SS_{55}$ | 17.5 | $X$ | 11.70292 | 239.19327 | 184.91548 | 2.23622 | 0.1693812 | 0.27722980 | 2.3293930 | 20 | — | — |
| 339744 2005 $SF_{56}$ | 17.1 | $X$ | 37.14424 | 352.70830 | 59.32460 | 3.09972 | 0.1993602 | 0.28000755 | 2.3139620 | 20 | — | — |
| 339745 2005 $SG_{56}$ | 17.8 | $X$ | 73.85262 | 215.62966 | 178.52763 | 5.37788 | 0.2779047 | 0.28438612 | 2.2901492 | 20 | — | — |
| 339746 2005 $SA_{57}$ | 17.8 | $X$ | 46.52628 | 129.30220 | 277.02668 | 1.59600 | 0.1982498 | 0.28246125 | 2.3005418 | 20 | — | — |
| 339747 2005 $SO_{58}$ | 17.7 | $X$ | 43.40260 | 6.70188 | 4.21289 | 7.26694 | 0.1312889 | 0.27637086 | 2.3342169 | 20 | — | — |
| 339748 2005 $SA_{60}$ | 16.7 | $X$ | 131.62030 | 253.22925 | 21.08607 | 7.80090 | 0.2132816 | 0.27865787 | 2.3214278 | 20 | — | — |
| 339749 2005 $SH_{62}$ | 17.6 | $X$ | 89.32245 | 321.55290 | 15.84062 | 2.95013 | 0.2449064 | 0.28128328 | 2.3069602 | 20 | — | — |
| 339750 2005 $SH_{64}$ | 17.4 | $X$ | 258.25893 | 134.84267 | 25.56310 | 2.08934 | 0.1706942 | 0.27461257 | 2.3441700 | 20 | — | — |
| 339751 2005 $SB_{66}$ | 17.8 | $X$ | 347.07024 | 253.21486 | 191.67809 | 5.09003 | 0.1507217 | 0.27679400 | 2.3318374 | 20 | — | — |
| 339752 2005 $SK_{66}$ | 17.6 | $X$ | 54.22495 | 65.09751 | 329.02998 | 4.81114 | 0.1738841 | 0.28191168 | 2.3035307 | 20 | — | — |
| 339753 2005 $SC_{68}$ | 17.9 | $X$ | 167.95470 | 348.98050 | 313.34741 | 2.15810 | 0.2141627 | 0.29124383 | 2.2540570 | 20 | — | — |
| 339754 2005 $SQ_{68}$ | 17.5 | $X$ | 75.86252 | 164.65097 | 206.13533 | 4.01064 | 0.1816163 | 0.28266987 | 2.2994098 | 20 | — | — |
| 339755 2005 $SH_{73}$ | 17.4 | $X$ | 71.99663 | 199.49075 | 183.22818 | 5.74053 | 0.1360847 | 0.28234484 | 2.3011741 | 20 | — | — |
| 339756 2005 $SQ_{73}$ | 17.5 | $X$ | 63.62945 | 323.55499 | 57.45822 | 3.40914 | 0.2297924 | 0.28086762 | 2.3092357 | 20 | — | — |
| 339757 2005 $SP_{76}$ | 17.7 | $X$ | 11.73492 | 65.82622 | 8.98964 | 5.61145 | 0.1254353 | 0.28116803 | 2.3075906 | 20 | — | — |
| 339758 2005 $SJ_{78}$ | 17.7 | $X$ | 293.36832 | 158.36808 | 25.56509 | 4.87522 | 0.0675446 | 0.28913982 | 2.2649787 | 20 | — | — |
| 339759 2005 $SU_{78}$ | 17.8 | $X$ | 229.66456 | 137.40467 | 97.84954 | 1.64198 | 0.0600714 | 0.28775519 | 2.2722386 | 20 | — | — |
| 339760 2005 $SD_{81}$ | 17.4 | $X$ | 149.42293 | 234.91938 | 28.14818 | 2.93110 | 0.1942251 | 0.28128825 | 2.3069330 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339761 2005 $SB_{82}$ | 18.6 | X | 69.23691 | 207.51803 | 167.20931 | 3.23948 | 0.1522342 | 0.28281254 | 2.2986364 | 20 | — | — |
| 339762 2005 $SO_{85}$ | 17.5 | X | 41.53108 | 252.28570 | 181.01947 | 4.51147 | 0.1000816 | 0.28613470 | 2.2808096 | 20 | — | — |
| 339763 2005 $SF_{95}$ | 15.4 | X | 9.48694 | 259.99582 | 182.25329 | 10.38197 | 0.0641448 | 0.14791050 | 3.5410880 | 20 | — | — |
| 339764 2005 $SU_{96}$ | 17.1 | X | 52.45008 | 270.26252 | 183.02487 | 7.86317 | 0.1240500 | 0.29243280 | 2.2479432 | 20 | 1 6.4 | 19.2 |
| 339765 2005 $SO_{97}$ | 17.2 | X | 63.46291 | 321.84832 | 35.58070 | 5.18763 | 0.1314999 | 0.27908949 | 2.3190337 | 20 | — | — |
| 339766 2005 $SZ_{98}$ | 17.1 | X | 136.69207 | 48.46049 | 261.90567 | 3.85484 | 0.1743082 | 0.28514443 | 2.2860872 | 20 | — | — |
| 339767 2005 $SE_{99}$ | 17.3 | X | 58.16235 | 199.36542 | 230.28618 | 6.28007 | 0.1209772 | 0.28762064 | 2.2729472 | 20 | — | — |
| 339768 2005 $SA_{105}$ | 17.4 | X | 42.39911 | 22.09603 | 34.60039 | 4.75532 | 0.1970523 | 0.28125178 | 2.3071324 | 20 | — | — |
| 339769 2005 $SP_{106}$ | 17.6 | X | 336.82361 | 274.61336 | 191.95918 | 5.21482 | 0.1137745 | 0.28035317 | 2.3120598 | 20 | — | — |
| 339770 2005 $SQ_{111}$ | 17.4 | X | 65.74634 | 133.34858 | 237.94523 | 3.88620 | 0.2337200 | 0.28028335 | 2.3124438 | 20 | — | — |
| 339771 2005 $SL_{112}$ | 17.0 | X | 141.60489 | 0.20742 | 308.90721 | 6.40079 | 0.1357182 | 0.28629525 | 2.2799568 | 20 | — | — |
| 339772 2005 $SS_{114}$ | 16.7 | X | 87.99811 | 333.86083 | 2.23383 | 6.33072 | 0.1587112 | 0.28019931 | 2.3129061 | 20 | — | — |
| 339773 2005 $SB_{115}$ | 18.0 | X | 345.79451 | 263.49466 | 209.22113 | 3.54572 | 0.1872991 | 0.28054443 | 2.3110089 | 20 | — | — |
| 339774 2005 $SS_{115}$ | 17.6 | X | 214.62449 | 17.47723 | 199.79666 | 5.90122 | 0.1007899 | 0.28044165 | 2.3115735 | 20 | — | — |
| 339775 2005 $SR_{118}$ | 17.0 | X | 99.14350 | 251.01958 | 68.79956 | 7.47683 | 0.1590855 | 0.28064100 | 2.3104787 | 20 | — | — |
| 339776 2005 $SX_{119}$ | 17.9 | X | 343.67259 | 135.52200 | 354.60690 | 2.55844 | 0.1620968 | 0.28558485 | 2.2837362 | 20 | — | — |
| 339777 2005 $SH_{121}$ | 17.3 | X | 118.28827 | 10.23756 | 316.05328 | 2.21942 | 0.1902457 | 0.28526700 | 2.2854323 | 20 | — | — |
| 339778 2005 $SH_{123}$ | 17.1 | X | 4.26503 | 52.93476 | 4.97942 | 6.94084 | 0.0527478 | 0.27746297 | 2.3280879 | 20 | — | — |
| 339779 2005 $SK_{129}$ | 17.3 | X | 89.52935 | 126.75324 | 197.09556 | 2.37794 | 0.1672547 | 0.27789698 | 2.3256632 | 20 | — | — |
| 339780 2005 $SH_{133}$ | 16.8 | X | 8.59423 | 17.16536 | 18.73232 | 4.25804 | 0.0993884 | 0.27231347 | 2.3573458 | 20 | — | — |
| 339781 2005 $SY_{133}$ | 16.8 | X | 106.36108 | 75.23078 | 203.27603 | 22.62637 | 0.2669581 | 0.27509110 | 2.3414507 | 20 | 12 17.9 | 21.3 |
| 339782 2005 $SV_{135}$ | 17.3 | X | 327.15026 | 162.15998 | 19.13673 | 6.18215 | 0.0922999 | 0.29453006 | 2.2372592 | 20 | — | — |
| 339783 2005 $SV_{137}$ | 17.2 | X | 62.72937 | 319.07175 | 34.83559 | 7.19396 | 0.1325604 | 0.27605739 | 2.3359837 | 20 | — | — |
| 339784 2005 $SQ_{147}$ | 17.2 | X | 209.99092 | 235.02719 | 27.82620 | 7.41452 | 0.1029349 | 0.28793771 | 2.2712783 | 20 | — | — |
| 339785 2005 $SY_{147}$ | 17.1 | X | 158.20369 | 262.30219 | 23.07230 | 22.98326 | 0.2071817 | 0.28494809 | 2.2871372 | 20 | — | — |
| 339786 2005 $SR_{148}$ | 17.0 | X | 339.33834 | 43.94120 | 35.59694 | 5.77059 | 0.1529244 | 0.27342057 | 2.3509782 | 20 | — | — |
| 339787 2005 $SH_{152}$ | 17.1 | X | 139.94908 | 289.40125 | 45.68821 | 7.79515 | 0.1986595 | 0.28898139 | 2.2658064 | 20 | — | — |
| 339788 2005 $SJ_{153}$ | 17.9 | X | 16.25782 | 223.90750 | 192.08726 | 4.97897 | 0.1485657 | 0.27673902 | 2.3321463 | 20 | — | — |
| 339789 2005 $SZ_{154}$ | 18.0 | X | 136.20544 | 302.92615 | 344.75571 | 3.38520 | 0.1674256 | 0.28235944 | 2.3010948 | 20 | — | — |
| 339790 2005 $SE_{163}$ | 17.6 | X | 112.32038 | 283.41265 | 37.28676 | 2.94898 | 0.2426023 | 0.28348896 | 2.2949785 | 20 | — | — |
| 339791 2005 $SX_{168}$ | 16.9 | X | 173.21884 | 295.64728 | 342.50752 | 7.81156 | 0.0120342 | 0.28429036 | 2.2906635 | 20 | — | — |
| 339792 2005 $SK_{178}$ | 17.0 | X | 68.47190 | 301.05767 | 11.35030 | 9.02218 | 0.1563589 | 0.27426737 | 2.3461366 | 20 | 12 21.8 | 20.6 |
| 339793 2005 $SF_{179}$ | 17.9 | X | 58.88127 | 49.19245 | 348.70379 | 2.48899 | 0.1862187 | 0.28363474 | 2.2941920 | 20 | — | — |
| 339794 2005 $SE_{184}$ | 17.7 | X | 55.25375 | 104.14290 | 282.28710 | 1.11411 | 0.1823900 | 0.28058315 | 2.3107963 | 20 | — | — |
| 339795 2005 $SS_{184}$ | 17.5 | X | 224.83449 | 215.44224 | 347.99333 | 4.10123 | 0.1143445 | 0.27883344 | 2.3204532 | 20 | — | — |
| 339796 2005 $SJ_{186}$ | 17.6 | X | 137.53058 | 246.40541 | 24.39786 | 2.91476 | 0.0541704 | 0.27638721 | 2.3341249 | 20 | — | — |
| 339797 2005 $SZ_{188}$ | 17.8 | X | 117.16114 | 154.11859 | 176.95524 | 0.24054 | 0.1754353 | 0.28445171 | 2.2897972 | 20 | — | — |
| 339798 2005 $SB_{190}$ | 17.2 | X | 62.57721 | 329.13852 | 47.30045 | 5.41389 | 0.1512479 | 0.28046362 | 2.3114528 | 20 | — | — |
| 339799 2005 $SF_{192}$ | 16.7 | X | 101.28407 | 298.23895 | 29.15095 | 6.85554 | 0.1427128 | 0.27954465 | 2.3165158 | 20 | — | — |
| 339800 2005 $SY_{192}$ | 17.6 | X | 154.87129 | 23.91433 | 220.91526 | 6.11241 | 0.0607387 | 0.27240928 | 2.3567931 | 20 | 12 24.1 | 20.9 |
| 339801 2005 $SP_{193}$ | 17.7 | X | 54.95888 | 134.00487 | 266.52094 | 0.76863 | 0.1612598 | 0.28142008 | 2.3062125 | 20 | — | — |
| 339802 2005 $SF_{201}$ | 17.8 | X | 93.26726 | 322.42633 | 16.25270 | 7.12924 | 0.1451750 | 0.28159067 | 2.3052810 | 20 | — | — |
| 339803 2005 $SV_{201}$ | 17.4 | X | 167.64905 | 122.77543 | 166.00128 | 6.36219 | 0.1789536 | 0.28968965 | 2.2621118 | 20 | — | — |
| 339804 2005 $SM_{203}$ | 16.9 | X | 57.14856 | 328.70421 | 31.30765 | 7.23947 | 0.1293807 | 0.27767034 | 2.3269286 | 20 | — | — |
| 339805 2005 $SH_{205}$ | 17.4 | X | 102.34589 | 23.51339 | 312.57284 | 6.39743 | 0.1308091 | 0.28394199 | 2.2925367 | 20 | — | — |
| 339806 2005 $SR_{205}$ | 17.2 | X | 146.64200 | 58.23561 | 276.94545 | 4.59999 | 0.1658664 | 0.29228008 | 2.2487261 | 20 | — | — |
| 339807 2005 $SW_{205}$ | 17.1 | X | 55.94592 | 329.31951 | 31.23243 | 4.11956 | 0.2339018 | 0.27865853 | 2.3214241 | 20 | — | — |
| 339808 2005 $SQ_{207}$ | 17.2 | X | 4.51325 | 169.86943 | 267.65691 | 3.97579 | 0.1912883 | 0.27784394 | 2.3259592 | 20 | — | — |
| 339809 2005 $SJ_{209}$ | 16.7 | X | 76.36630 | 270.87351 | 120.47625 | 6.72304 | 0.1389700 | 0.28477528 | 2.2880624 | 20 | — | — |
| 339810 2005 $SJ_{215}$ | 17.2 | X | 82.30766 | 80.70755 | 290.72831 | 3.87822 | 0.1815298 | 0.28321487 | 2.2964589 | 20 | — | — |
| 339811 2005 $SN_{215}$ | 16.8 | X | 84.90252 | 53.53406 | 294.95125 | 3.49175 | 0.0953456 | 0.27949356 | 2.3167981 | 20 | — | — |
| 339812 2005 $SC_{216}$ | 17.1 | X | 24.19984 | 85.25347 | 335.62136 | 6.63958 | 0.0824307 | 0.28096666 | 2.3086930 | 20 | — | — |
| 339813 2005 $SF_{219}$ | 16.7 | X | 68.07972 | 210.50943 | 136.96030 | 5.94584 | 0.2509467 | 0.27651194 | 2.3334229 | 20 | — | — |
| 339814 2005 $SA_{224}$ | 17.8 | X | 117.80055 | 55.99742 | 198.50883 | 1.31018 | 0.1575477 | 0.27218226 | 2.3581034 | 20 | 11 27.0 | 21.3 |
| 339815 2005 $SX_{224}$ | 17.8 | X | 144.06914 | 268.45426 | 57.88512 | 4.00468 | 0.1817839 | 0.28897990 | 2.2658142 | 20 | — | — |
| 339816 2005 $SD_{227}$ | 17.7 | X | 329.94909 | 349.85410 | 175.76289 | 5.02448 | 0.0767056 | 0.29084386 | 2.2561231 | 20 | — | — |
| 339817 2005 $SW_{231}$ | 17.8 | X | 76.59409 | 145.86835 | 203.50483 | 2.03723 | 0.2244278 | 0.27887138 | 2.3202427 | 20 | — | — |
| 339818 2005 $SK_{232}$ | 17.6 | X | 33.55135 | 3.61389 | 8.20182 | 1.42737 | 0.1902288 | 0.27326132 | 2.3518914 | 20 | — | — |
| 339819 2005 $SW_{232}$ | 17.5 | X | 50.71468 | 14.27533 | 21.05792 | 2.48221 | 0.2136588 | 0.27943840 | 2.3171029 | 20 | — | — |
| 339820 2005 $SM_{233}$ | 18.0 | X | 62.46940 | 132.99571 | 200.66696 | 0.60586 | 0.2133422 | 0.27371048 | 2.3493178 | 20 | — | — |
| 339821 2005 $SU_{236}$ | 17.6 | X | 145.60372 | 43.08670 | 262.24378 | 2.46299 | 0.1503285 | 0.28429878 | 2.2906182 | 20 | — | — |
| 339822 2005 $SM_{238}$ | 18.0 | X | 44.43917 | 0.68762 | 6.70760 | 1.98531 | 0.2237715 | 0.27539946 | 2.3397026 | 20 | — | — |
| 339823 2005 $SV_{241}$ | 17.8 | X | 264.54415 | 311.95705 | 236.99142 | 5.52385 | 0.0358654 | 0.28295009 | 2.2978914 | 20 | — | — |
| 339824 2005 $SV_{244}$ | 17.4 | X | 98.65139 | 279.47471 | 353.17455 | 0.93323 | 0.1706645 | 0.27170323 | 2.3608742 | 20 | 12 1.9 | 21.0 |
| 339825 2005 $SF_{248}$ | 17.5 | X | 13.55817 | 355.05993 | 40.76119 | 2.30458 | 0.1837753 | 0.27392999 | 2.3480625 | 20 | — | — |
| 339826 2005 $SN_{249}$ | 18.0 | X | 67.37585 | 246.92022 | 163.85502 | 4.35721 | 0.2518223 | 0.28659279 | 2.2783785 | 20 | — | — |
| 339827 2005 $SA_{254}$ | 18.1 | X | 94.73646 | 47.20645 | 302.03669 | 3.26992 | 0.1709831 | 0.28621912 | 2.2803611 | 20 | — | — |
| 339828 2005 $SC_{254}$ | 17.8 | X | 109.37596 | 38.78501 | 295.34410 | 1.79957 | 0.1851597 | 0.28693879 | 2.2765466 | 20 | — | — |
| 339829 2005 $SB_{257}$ | 17.3 | X | 70.13413 | 37.84484 | 28.33774 | 7.15903 | 0.1394914 | 0.29072021 | 2.2567627 | 20 | 1 3.3 | 19.3 |
| 339830 2005 $SS_{259}$ | 17.0 | X | 149.10530 | 4.03459 | 291.68956 | 4.73078 | 0.1671482 | 0.28625563 | 2.2801672 | 20 | — | — |
| 339831 2005 $SN_{266}$ | 17.4 | X | 66.35370 | 245.05261 | 139.50013 | 3.60450 | 0.1639520 | 0.28439301 | 2.2901123 | 20 | — | — |
| 339832 2005 $SA_{279}$ | 17.0 | X | 300.59905 | 321.35028 | 146.10878 | 6.67778 | 0.1119766 | 0.26832551 | 2.3806456 | 20 | — | — |
| 339833 2005 $SH_{280}$ | 17.3 | X | 65.12028 | 197.52509 | 144.52081 | 4.11097 | 0.1582377 | 0.27489715 | 2.3425519 | 20 | — | — |
| 339834 2005 $SQ_{282}$ | 15.5 | X | 339.03683 | 271.71383 | 181.33562 | 10.02144 | 0.0521061 | 0.14646532 | 3.5643431 | 20 | — | — |
| 339835 2005 $SK_{289}$ | 17.3 | X | 57.35986 | 188.23017 | 159.33019 | 5.49889 | 0.1351571 | 0.27449473 | 2.3448409 | 20 | — | — |
| 339836 2005 $SL_{289}$ | 17.6 | X | 15.98118 | 317.98464 | 124.29830 | 3.23977 | 0.1463110 | 0.28053175 | 2.3110785 | 20 | — | — |
| 339837 2005 $SO_{289}$ | 17.4 | X | 7.16698 | 189.10446 | 282.17146 | 1.61734 | 0.1262428 | 0.28572226 | 2.2830040 | 20 | — | — |
| 339838 2005 $SL_{290}$ | 17.3 | X | 286.36710 | 153.57041 | 347.75257 | 2.12225 | 0.1242523 | 0.27551761 | 2.3390337 | 20 | — | — |
| 339839 2005 $TU$ | 17.6 | X | 104.39432 | 131.97927 | 233.21541 | 1.26021 | 0.0518871 | 0.28765294 | 2.2727770 | 20 | — | — |
| 339840 2005 $TQ_{1}$ | 17.0 | X | 15.69841 | 197.59422 | 144.72237 | 7.74462 | 0.1586651 | 0.26949242 | 2.3737684 | 20 | 11 27.9 | 19.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339841 2005 $TR_{1}$ | 17.4 | X | 81.16077 | 154.70460 | 221.30085 | 7.55444 | 0.2063666 | 0.28524229 | 2.2855643 | 20 | — | — |
| 339842 2005 $TG_{12}$ | 17.1 | X | 127.55501 | 250.20472 | 59.32337 | 2.92430 | 0.1761542 | 0.28250307 | 2.3003147 | 20 | — | — |
| 339843 2005 $TR_{12}$ | 17.2 | X | 89.11260 | 152.36379 | 180.11976 | 3.33074 | 0.1729226 | 0.27872601 | 2.3210494 | 20 | — | — |
| 339844 2005 $TN_{13}$ | 16.5 | X | 74.24250 | 330.28416 | 9.81815 | 11.51938 | 0.2620056 | 0.27643844 | 2.3338365 | 20 | — | — |
| 339845 2005 $TH_{17}$ | 17.8 | X | 100.57971 | 283.57280 | 46.71688 | 3.16824 | 0.1867222 | 0.28260566 | 2.2997580 | 20 | — | — |
| 339846 2005 $TL_{18}$ | 17.3 | X | 84.59515 | 267.06277 | 63.39936 | 2.99658 | 0.2352131 | 0.27902648 | 2.3193828 | 20 | — | — |
| 339847 2005 $TK_{23}$ | 17.1 | X | 26.09439 | 20.45607 | 51.41596 | 4.78300 | 0.2931878 | 0.27784847 | 2.3259339 | 20 | — | — |
| 339848 2005 $TP_{25}$ | 17.7 | X | 164.22919 | 251.21277 | 42.28893 | 3.29172 | 0.0561900 | 0.28262374 | 2.2996600 | 20 | — | — |
| 339849 2005 $TU_{26}$ | 17.1 | X | 31.77317 | 61.58462 | 40.53026 | 6.45278 | 0.0804442 | 0.28661441 | 2.2782640 | 20 | — | — |
| 339850 2005 $TA_{28}$ | 16.6 | X | 8.72043 | 340.55777 | 37.94212 | 7.39997 | 0.1184042 | 0.27000492 | 2.3707637 | 20 | 12 29.4 | 19.4 |
| 339851 2005 $TX_{33}$ | 17.1 | X | 21.33425 | 108.54092 | 29.72826 | 7.21943 | 0.0481100 | 0.29594243 | 2.2301354 | 20 | 1 21.8 | 19.6 |
| 339852 2005 $TN_{41}$ | 17.4 | X | 66.24691 | 169.51637 | 225.07133 | 2.44931 | 0.0648502 | 0.28501238 | 2.2867932 | 20 | — | — |
| 339853 2005 $TL_{46}$ | 17.4 | X | 41.90148 | 72.18503 | 314.92327 | 7.83680 | 0.1862547 | 0.27938950 | 2.3173733 | 20 | — | — |
| 339854 2005 $TW_{46}$ | 17.3 | X | 72.44100 | 355.19567 | 2.76954 | 5.51718 | 0.1330643 | 0.27952348 | 2.3166327 | 20 | — | — |
| 339855 2005 $TC_{49}$ | 17.0 | X | 3.86172 | 281.52417 | 216.75896 | 7.29471 | 0.0795250 | 0.29034809 | 2.2586905 | 20 | — | — |
| 339856 2005 $TW_{55}$ | 17.9 | X | 117.52530 | 69.77067 | 225.26924 | 4.63008 | 0.2483504 | 0.28238597 | 2.3009506 | 20 | — | — |
| 339857 2005 $TL_{59}$ | 17.2 | X | 3.66893 | 354.47520 | 61.04508 | 3.07778 | 0.1829121 | 0.27383817 | 2.3485874 | 20 | — | — |
| 339858 2005 $TW_{61}$ | 17.5 | X | 223.23062 | 151.71447 | 40.25005 | 7.41665 | 0.0518809 | 0.27400785 | 2.3476177 | 20 | — | — |
| 339859 2005 $TJ_{62}$ | 17.6 | X | 319.78359 | 74.63010 | 73.09175 | 2.31355 | 0.1081765 | 0.28214291 | 2.3022720 | 20 | — | — |
| 339860 2005 $TX_{65}$ | 18.0 | X | 7.17234 | 195.72319 | 242.93451 | 5.35531 | 0.1957992 | 0.27822113 | 2.3238565 | 20 | — | — |
| 339861 2005 $TJ_{68}$ | 17.5 | X | 203.49858 | 217.02320 | 35.40836 | 6.41927 | 0.1221010 | 0.28260564 | 2.2997581 | 20 | — | — |
| 339862 2005 $TX_{70}$ | 17.2 | X | 37.12154 | 226.84500 | 199.09401 | 6.35001 | 0.0855069 | 0.28140540 | 2.3062927 | 20 | — | — |
| 339863 2005 $TB_{74}$ | 17.2 | X | 85.38499 | 207.32592 | 136.12972 | 5.93743 | 0.2285677 | 0.27982113 | 2.3149896 | 20 | — | — |
| 339864 2005 $TG_{80}$ | 17.0 | X | 194.42785 | 275.55639 | 337.92179 | 7.13135 | 0.0979582 | 0.28484287 | 2.2877004 | 20 | — | — |
| 339865 2005 $TV_{94}$ | 17.4 | X | 103.10599 | 13.66123 | 293.18581 | 1.27834 | 0.2302231 | 0.27916838 | 2.3185968 | 20 | — | — |
| 339866 2005 $TH_{96}$ | 17.9 | X | 31.54978 | 123.72925 | 313.63758 | 1.98831 | 0.1907603 | 0.28197528 | 2.3031843 | 20 | — | — |
| 339867 2005 $TG_{98}$ | 17.9 | X | 340.29650 | 322.70774 | 134.19332 | 1.63701 | 0.1469850 | 0.27680379 | 2.3317824 | 20 | — | — |
| 339868 2005 $TN_{98}$ | 16.6 | X | 87.39746 | 130.58018 | 225.99765 | 22.70812 | 0.1869559 | 0.28022521 | 2.3127636 | 20 | — | — |
| 339869 2005 $TQ_{100}$ | 17.6 | X | 35.25533 | 18.61879 | 26.44305 | 0.22778 | 0.2382557 | 0.27806969 | 2.3247001 | 20 | — | — |
| 339870 2005 $TR_{100}$ | 17.5 | X | 40.39654 | 93.86639 | 5.03675 | 4.08420 | 0.0900463 | 0.28991759 | 2.2609259 | 20 | — | — |
| 339871 2005 $TJ_{101}$ | 17.6 | X | 31.48244 | 242.06751 | 174.08879 | 4.78239 | 0.1431683 | 0.27995467 | 2.3142534 | 20 | — | — |
| 339872 2005 $TG_{102}$ | 17.5 | X | 66.15655 | 115.38405 | 258.38563 | 2.89520 | 0.1090805 | 0.28000286 | 2.3139878 | 20 | — | — |
| 339873 2005 $TZ_{103}$ | 17.5 | X | 93.33161 | 322.00238 | 359.27444 | 8.92999 | 0.2590787 | 0.27939597 | 2.3173375 | 20 | — | — |
| 339874 2005 $TS_{106}$ | 17.7 | X | 335.38334 | 351.26430 | 100.15474 | 1.85140 | 0.1607292 | 0.27383983 | 2.3485779 | 20 | — | — |
| 339875 2005 $TE_{107}$ | 17.4 | X | 119.76470 | 250.27203 | 38.16292 | 5.25760 | 0.2234713 | 0.27809873 | 2.3245383 | 20 | — | — |
| 339876 2005 $TU_{112}$ | 17.8 | X | 28.06865 | 106.28051 | 331.91390 | 1.83587 | 0.1297449 | 0.28380989 | 2.2932480 | 20 | — | — |
| 339877 2005 $TT_{114}$ | 17.6 | X | 353.01221 | 128.11948 | 349.71015 | 3.81430 | 0.1745807 | 0.28362875 | 2.2942243 | 20 | — | — |
| 339878 2005 $TL_{121}$ | 17.2 | X | 37.68673 | 316.55288 | 3.03459 | 7.11390 | 0.1294846 | 0.26825350 | 2.3810716 | 20 | 11 18.8 | 20.2 |
| 339879 2005 $TP_{122}$ | 17.8 | X | 349.69221 | 267.93696 | 189.86711 | 3.84869 | 0.1201853 | 0.27979676 | 2.3151241 | 20 | — | — |
| 339880 2005 $TA_{124}$ | 18.7 | X | 83.82706 | 76.71653 | 254.72160 | 1.31330 | 0.2314349 | 0.27900363 | 2.3195094 | 20 | — | — |
| 339881 2005 $TR_{127}$ | 18.3 | X | 357.00204 | 132.36833 | 328.44517 | 0.63276 | 0.1487061 | 0.28067580 | 2.3102877 | 20 | — | — |
| 339882 2005 $TE_{128}$ | 18.0 | X | 105.16712 | 3.33790 | 280.08537 | 0.22504 | 0.2050481 | 0.27501660 | 2.3418736 | 20 | 12 22.8 | 21.8 |
| 339883 2005 $TM_{129}$ | 17.2 | X | 255.01602 | 161.95160 | 32.13604 | 2.96468 | 0.0968109 | 0.28022115 | 2.3127860 | 20 | — | — |
| 339884 2005 $TJ_{130}$ | 17.5 | X | 97.34251 | 270.60368 | 44.05108 | 2.09121 | 0.2038256 | 0.27782303 | 2.3260759 | 20 | — | — |
| 339885 2005 $TA_{133}$ | 14.8 | X | 309.07955 | 31.63792 | 62.53712 | 3.86527 | 0.1932449 | 0.12430427 | 3.9762958 | 20 | 11 12.3 | 19.5 |
| 339886 2005 $TL_{134}$ | 17.7 | X | 144.59934 | 281.77960 | 20.27187 | 3.23374 | 0.1672591 | 0.28482997 | 2.2877695 | 20 | — | — |
| 339887 2005 $TR_{134}$ | 17.1 | X | 55.11569 | 146.67928 | 246.07327 | 6.48681 | 0.0902354 | 0.28048601 | 2.3113298 | 20 | — | — |
| 339888 2005 $TT_{135}$ | 17.5 | X | 108.79075 | 277.19761 | 21.20917 | 9.02598 | 0.1022589 | 0.27804544 | 2.3248353 | 20 | — | — |
| 339889 2005 $TR_{137}$ | 17.5 | X | 145.47482 | 188.83112 | 66.97020 | 5.04694 | 0.2077988 | 0.27515142 | 2.3411085 | 20 | 12 22.2 | 21.3 |
| 339890 2005 $TG_{146}$ | 17.3 | X | 299.80385 | 157.39517 | 30.32542 | 24.42411 | 0.1834448 | 0.28808845 | 2.2704859 | 20 | — | — |
| 339891 2005 $TB_{150}$ | 17.7 | X | 53.29551 | 129.98868 | 174.27504 | 6.48268 | 0.1315493 | 0.26793351 | 2.3829670 | 20 | 11 21.9 | 20.9 |
| 339892 2005 $TZ_{151}$ | 17.7 | X | 0.34695 | 12.92599 | 51.54936 | 3.06395 | 0.1891424 | 0.27476812 | 2.3432853 | 20 | — | — |
| 339893 2005 $TW_{157}$ | 18.0 | X | 134.13855 | 286.68633 | 359.65113 | 3.22609 | 0.1945572 | 0.28099995 | 2.3085107 | 20 | — | — |
| 339894 2005 $TH_{165}$ | 17.6 | X | 12.76301 | 188.25075 | 219.63837 | 3.99258 | 0.1472802 | 0.27453734 | 2.3445983 | 20 | — | — |
| 339895 2005 $TP_{165}$ | 18.3 | X | 75.54705 | 20.06507 | 355.15644 | 2.02188 | 0.1437764 | 0.28164090 | 2.3050069 | 20 | — | — |
| 339896 2005 $TL_{169}$ | 17.6 | X | 94.48671 | 37.98712 | 242.79956 | 1.90600 | 0.1925338 | 0.27115725 | 2.3640422 | 20 | 12 9.4 | 21.2 |
| 339897 2005 $TZ_{172}$ | 17.2 | X | 37.04897 | 85.45394 | 311.79138 | 2.32540 | 0.2193023 | 0.27684891 | 2.3315291 | 20 | — | — |
| 339898 2005 $TY_{175}$ | 18.1 | X | 72.77993 | 136.69614 | 163.75472 | 5.29469 | 0.2321829 | 0.27423619 | 2.3463144 | 20 | 12 17.8 | 21.8 |
| 339899 2005 $TX_{182}$ | 17.2 | X | 90.00319 | 346.56142 | 326.11432 | 5.66127 | 0.1419264 | 0.27758399 | 2.3274111 | 20 | — | — |
| 339900 2005 $TW_{183}$ | 16.9 | X | 4.44745 | 253.93901 | 149.43888 | 6.50302 | 0.1006948 | 0.27515653 | 2.3410796 | 20 | — | — |
| 339901 2005 $TB_{192}$ | 17.7 | X | 320.53545 | 312.50549 | 211.03125 | 4.93252 | 0.1093487 | 0.28436301 | 2.2902733 | 20 | — | — |
| 339902 2005 $UT_{4}$ | 17.9 | X | 162.39707 | 265.62027 | 18.31006 | 0.90946 | 0.2081375 | 0.28442433 | 2.2899441 | 20 | — | — |
| 339903 2005 $UD_{5}$ | 17.8 | X | 18.87249 | 112.10423 | 326.14508 | 4.09850 | 0.1854196 | 0.28004006 | 2.3137829 | 20 | — | — |
| 339904 2005 $UO_{11}$ | 17.2 | X | 88.95447 | 287.77265 | 74.45913 | 5.92602 | 0.1641034 | 0.28138193 | 2.3064210 | 20 | — | — |
| 339905 2005 $UC_{13}$ | 17.6 | X | 108.53779 | 39.81289 | 255.12525 | 1.43567 | 0.2251771 | 0.27761171 | 2.3272562 | 20 | — | — |
| 339906 2005 $UQ_{19}$ | 17.2 | X | 42.99893 | 140.51781 | 247.10337 | 5.47716 | 0.1161047 | 0.27497827 | 2.3420912 | 20 | — | — |
| 339907 2005 $UJ_{20}$ | 16.8 | X | 326.56391 | 36.38197 | 44.29526 | 7.06318 | 0.0895358 | 0.27045310 | 2.3681438 | 20 | — | — |
| 339908 2005 $UL_{20}$ | 17.0 | X | 90.01694 | 329.09048 | 45.29885 | 5.83604 | 0.1226955 | 0.28333659 | 2.2958012 | 20 | — | — |
| 339909 2005 $UJ_{26}$ | 17.3 | X | 279.39789 | 93.28480 | 37.33738 | 5.62294 | 0.1406555 | 0.26936287 | 2.3745294 | 20 | — | — |
| 339910 2005 $UV_{29}$ | 17.5 | X | 62.58195 | 351.37532 | 26.74936 | 2.71414 | 0.2249478 | 0.27912294 | 2.3188485 | 20 | — | — |
| 339911 2005 $UU_{31}$ | 17.6 | X | 213.95217 | 25.01832 | 212.92485 | 4.51817 | 0.0374962 | 0.28019026 | 2.3129559 | 20 | — | — |
| 339912 2005 $UC_{34}$ | 17.1 | X | 354.13509 | 213.38246 | 223.17154 | 7.93208 | 0.1098847 | 0.27385192 | 2.3485088 | 20 | — | — |
| 339913 2005 $UF_{34}$ | 17.5 | X | 248.96506 | 122.35076 | 51.61471 | 4.80780 | 0.0843847 | 0.27169430 | 2.3609259 | 20 | — | — |
| 339914 2005 $UF_{36}$ | 17.9 | X | 79.42172 | 235.99745 | 52.72733 | 2.51647 | 0.1722308 | 0.26647342 | 2.3916637 | 20 | 12 2.9 | 21.5 |
| 339915 2005 $UX_{36}$ | 17.6 | X | 147.57725 | 33.85544 | 226.11394 | 3.02524 | 0.1214258 | 0.27245610 | 2.3565230 | 20 | — | — |
| 339916 2005 $UB_{38}$ | 17.0 | X | 68.11206 | 311.90340 | 64.27510 | 5.83012 | 0.1303587 | 0.27796455 | 2.3252863 | 20 | — | — |
| 339917 2005 $UB_{42}$ | 17.2 | X | 43.43634 | 359.80183 | 46.37451 | 7.13875 | 0.0970367 | 0.28153905 | 2.3055628 | 20 | — | — |
| 339918 2005 $UQ_{42}$ | 17.3 | X | 55.30390 | 310.00307 | 43.01533 | 3.11286 | 0.2267718 | 0.27531957 | 2.3401552 | 20 | — | — |
| 339919 2005 $UN_{44}$ | 17.7 | X | 149.91465 | 87.34697 | 209.05184 | 10.73327 | 0.1883292 | 0.28242116 | 2.3007595 | 20 | — | — |
| 339920 2005 $UR_{45}$ | 16.7 | X | 334.65577 | 72.45315 | 38.61646 | 10.27716 | 0.1517435 | 0.27703477 | 2.3304862 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 339921 2005 $UZ_{45}$ | 17.8 | X | 31.20458 | 68.04307 | 3.07161 | 2.94726 | 0.1678588 | 0.28108903 | 2.3080229 | 20 | — | — |
| 339922 2005 $UF_{46}$ | 18.2 | X | 356.13179 | 21.08505 | 59.50501 | 3.24401 | 0.1917845 | 0.27417789 | 2.3466470 | 20 | — | — |
| 339923 2005 $US_{47}$ | 17.5 | X | 75.27090 | 285.53866 | 69.31089 | 3.72536 | 0.1642692 | 0.27822034 | 2.3238609 | 20 | — | — |
| 339924 2005 $UA_{49}$ | 17.5 | X | 22.03261 | 29.29333 | 9.47805 | 7.46418 | 0.1157281 | 0.27497161 | 2.3421290 | 20 | — | — |
| 339925 2005 $UK_{49}$ | 16.7 | X | 75.98026 | 62.09693 | 268.67721 | 5.72316 | 0.2014752 | 0.27603320 | 2.3361201 | 20 | — | — |
| 339926 2005 $US_{49}$ | 16.8 | X | 10.13673 | 28.66945 | 53.27764 | 7.44065 | 0.0753069 | 0.27740200 | 2.3284290 | 20 | — | — |
| 339927 2005 $UF_{50}$ | 17.5 | X | 17.00735 | 61.66493 | 308.54372 | 1.49898 | 0.1906722 | 0.26990370 | 2.3713564 | 20 | — | — |
| 339928 2005 $UT_{51}$ | 17.4 | X | 19.12075 | 98.36151 | 329.42445 | 2.64490 | 0.1567914 | 0.27801538 | 2.3250029 | 20 | — | — |
| 339929 2005 $UC_{52}$ | 16.6 | X | 64.87057 | 97.51676 | 265.84682 | 5.88738 | 0.1397824 | 0.27743751 | 2.3282303 | 20 | — | — |
| 339930 2005 $UZ_{55}$ | 17.7 | X | 44.12908 | 335.39641 | 44.50556 | 2.60166 | 0.2232724 | 0.27595373 | 2.3365686 | 20 | — | — |
| 339931 2005 $UA_{62}$ | 17.7 | X | 0.01920 | 57.63199 | 54.38419 | 6.14808 | 0.1120824 | 0.28015264 | 2.3131630 | 20 | — | — |
| 339932 2005 $UY_{63}$ | 17.7 | X | 46.96497 | 265.18005 | 77.72221 | 2.50636 | 0.2079399 | 0.27043597 | 2.3682438 | 20 | — | — |
| 339933 2005 $UK_{66}$ | 17.2 | X | 68.53303 | 319.46277 | 56.77710 | 7.43979 | 0.1248775 | 0.27866538 | 2.3213860 | 20 | — | — |
| 339934 2005 $UV_{67}$ | 17.4 | X | 64.27105 | 301.74648 | 104.60004 | 2.80611 | 0.2163904 | 0.28344304 | 2.2952263 | 20 | — | — |
| 339935 2005 $UU_{71}$ | 17.5 | X | 49.25035 | 79.49072 | 327.40892 | 6.32130 | 0.1260375 | 0.28145118 | 2.3060427 | 20 | — | — |
| 339936 2005 $UY_{85}$ | 18.0 | X | 340.03711 | 269.51931 | 171.97693 | 1.79331 | 0.1399544 | 0.27299909 | 2.3533973 | 20 | — | — |
| 339937 2005 $US_{88}$ | 18.0 | X | 347.71008 | 265.89661 | 186.38744 | 1.70319 | 0.1869662 | 0.27564865 | 2.3382923 | 20 | — | — |
| 339938 2005 $UJ_{93}$ | 16.9 | X | 326.93712 | 96.70585 | 17.54687 | 6.88654 | 0.0530335 | 0.27627100 | 2.3347794 | 20 | — | — |
| 339939 2005 $UY_{94}$ | 16.7 | X | 92.10316 | 58.31799 | 251.18133 | 6.16569 | 0.2723029 | 0.27626115 | 2.3348349 | 20 | — | — |
| 339940 2005 $UM_{99}$ | 17.1 | X | 287.96200 | 34.14458 | 86.53299 | 7.11279 | 0.0731338 | 0.26943207 | 2.3741229 | 20 | — | — |
| 339941 2005 $UH_{105}$ | 17.4 | X | 0.27752 | 340.66741 | 73.01942 | 6.78602 | 0.1041905 | 0.27118482 | 2.3638820 | 20 | — | — |
| 339942 2005 $UD_{106}$ | 17.1 | X | 90.78540 | 192.97244 | 136.24175 | 2.64125 | 0.2515546 | 0.27763626 | 2.3271190 | 20 | — | — |
| 339943 2005 $UX_{110}$ | 17.3 | X | 289.72422 | 101.23470 | 39.65939 | 5.24956 | 0.1697085 | 0.26969931 | 2.3725543 | 20 | — | — |
| 339944 2005 $UV_{116}$ | 16.7 | X | 348.61796 | 223.52150 | 236.61102 | 9.15089 | 0.0777270 | 0.27749797 | 2.3278921 | 20 | — | — |
| 339945 2005 $UE_{118}$ | 17.2 | X | 31.21678 | 237.57164 | 226.21768 | 5.91827 | 0.0490650 | 0.28749429 | 2.2736131 | 20 | — | — |
| 339946 2005 $UZ_{122}$ | 17.9 | X | 77.91126 | 274.49209 | 25.01832 | 0.97943 | 0.2170107 | 0.27056031 | 2.3675182 | 20 | 12 19.1 | 21.5 |
| 339947 2005 $UZ_{124}$ | 18.1 | X | 0.50371 | 65.61878 | 11.95437 | 1.37517 | 0.1522665 | 0.27505898 | 2.3416330 | 20 | — | — |
| 339948 2005 $UO_{125}$ | 17.0 | X | 162.93922 | 6.97513 | 240.58409 | 4.25669 | 0.1536917 | 0.27206915 | 2.3587569 | 20 | 12 29.7 | 20.5 |
| 339949 2005 $UB_{131}$ | 17.5 | X | 110.16377 | 94.63724 | 256.68037 | 2.10410 | 0.1808871 | 0.28297161 | 2.2977749 | 20 | — | — |
| 339950 2005 $UH_{140}$ | 15.3 | X | 60.82482 | 212.03396 | 59.32827 | 4.76501 | 0.0671863 | 0.12408618 | 3.9809535 | 20 | 9 18.1 | 20.8 |
| 339951 2005 $UF_{141}$ | 17.1 | X | 96.35621 | 231.32582 | 112.12986 | 4.20772 | 0.1842635 | 0.27996694 | 2.3141858 | 20 | — | — |
| 339952 2005 $UP_{141}$ | 17.0 | X | 331.12465 | 343.46688 | 64.73670 | 5.75315 | 0.1866307 | 0.26563996 | 2.3966638 | 20 | 12 14.1 | 18.9 |
| 339953 2005 $UA_{145}$ | 17.3 | X | 90.50563 | 350.59633 | 16.18437 | 4.42310 | 0.1742817 | 0.28274284 | 2.2990141 | 20 | — | — |
| 339954 2005 $UX_{151}$ | 17.1 | X | 202.47393 | 225.09837 | 42.53961 | 5.96051 | 0.1238749 | 0.28353327 | 2.2947394 | 20 | — | — |
| 339955 2005 $UF_{157}$ | 17.5 | X | 21.04665 | 194.56929 | 185.59442 | 5.53492 | 0.2163280 | 0.27119402 | 2.3638286 | 20 | — | — |
| 339956 2005 $UX_{160}$ | 17.5 | X | 55.02361 | 291.02260 | 69.84415 | 4.55005 | 0.2636270 | 0.27634776 | 2.3343470 | 20 | — | — |
| 339957 2005 $UH_{162}$ | 16.8 | X | 18.67106 | 8.72562 | 109.58045 | 7.16758 | 0.0614631 | 0.28711758 | 2.2756014 | 20 | — | — |
| 339958 2005 $UY_{162}$ | 17.1 | X | 131.86609 | 5.09171 | 237.62226 | 4.59032 | 0.1445318 | 0.26765054 | 2.3846463 | 20 | 11 24.4 | 20.8 |
| 339959 2005 $UP_{170}$ | 17.6 | X | 311.32455 | 127.44256 | 241.98900 | 3.39873 | 0.0703043 | 0.25513754 | 2.4619911 | 20 | 9 2.0 | 20.4 |
| 339960 2005 $UB_{173}$ | 17.5 | X | 67.48715 | 149.75217 | 225.70151 | 4.24845 | 0.1472256 | 0.27895250 | 2.3197929 | 20 | — | — |
| 339961 2005 $UO_{177}$ | 18.1 | X | 79.63603 | 123.94126 | 272.55224 | 1.63488 | 0.2010688 | 0.28403913 | 2.2920140 | 20 | — | — |
| 339962 2005 $UN_{178}$ | 17.3 | X | 285.70271 | 99.64350 | 33.20054 | 7.65917 | 0.0578951 | 0.27098234 | 2.3650594 | 20 | — | — |
| 339963 2005 $UP_{178}$ | 17.8 | X | 14.84611 | 28.03153 | 73.25357 | 4.36818 | 0.0969248 | 0.28120783 | 2.3073728 | 20 | — | — |
| 339964 2005 $UA_{184}$ | 17.8 | X | 347.61434 | 46.76344 | 48.77485 | 4.35938 | 0.1928802 | 0.27471480 | 2.3435884 | 20 | — | — |
| 339965 2005 $UO_{187}$ | 17.9 | X | 165.42414 | 87.96125 | 206.78858 | 5.41246 | 0.2462794 | 0.28996324 | 2.2606887 | 20 | — | — |
| 339966 2005 $UF_{188}$ | 17.6 | X | 203.19623 | 206.79396 | 1.77903 | 1.33895 | 0.1299637 | 0.27279657 | 2.3545619 | 20 | 12 26.4 | 20.8 |
| 339967 2005 $UW_{194}$ | 16.8 | X | 264.31931 | 159.34904 | 55.53092 | 8.00478 | 0.0487379 | 0.28337155 | 2.2956124 | 20 | — | — |
| 339968 2005 $UZ_{199}$ | 16.9 | X | 320.22071 | 77.49862 | 51.10326 | 7.50214 | 0.0370982 | 0.27764300 | 2.3270814 | 20 | — | — |
| 339969 2005 $US_{208}$ | 18.6 | X | 23.95195 | 346.89980 | 119.04540 | 1.36722 | 0.2330395 | 0.28366228 | 2.2940436 | 20 | — | — |
| 339970 2005 $UM_{210}$ | 17.6 | X | 76.14455 | 28.39896 | 307.05529 | 1.41167 | 0.0175736 | 0.27411335 | 2.3470153 | 20 | — | — |
| 339971 2005 $UD_{214}$ | 17.3 | X | 30.76934 | 254.85935 | 146.26804 | 8.86593 | 0.1679199 | 0.27633519 | 2.3344178 | 20 | — | — |
| 339972 2005 $UU_{214}$ | 17.6 | X | 44.50919 | 250.35878 | 154.66299 | 5.24379 | 0.1982193 | 0.28046213 | 2.3114610 | 20 | — | — |
| 339973 2005 $UC_{217}$ | 16.9 | X | 104.84557 | 317.39216 | 45.30176 | 7.55443 | 0.1689875 | 0.28733645 | 2.2744457 | 20 | — | — |
| 339974 2005 $UK_{218}$ | 17.5 | X | 108.08539 | 32.33698 | 271.94515 | 4.02266 | 0.0232456 | 0.27351456 | 2.3504395 | 20 | — | — |
| 339975 2005 $UM_{218}$ | 17.6 | X | 94.61187 | 312.57369 | 346.53461 | 4.57508 | 0.1993103 | 0.27375010 | 2.3490911 | 20 | — | — |
| 339976 2005 $UD_{224}$ | 17.6 | X | 136.81879 | 351.32205 | 318.70703 | 2.19038 | 0.2129913 | 0.28387443 | 2.2929004 | 20 | — | — |
| 339977 2005 $UR_{226}$ | 17.3 | X | 200.76745 | 345.99226 | 211.57818 | 3.94001 | 0.0575846 | 0.26860670 | 2.3789838 | 20 | 12 17.9 | 20.3 |
| 339978 2005 $UC_{229}$ | 17.2 | X | 41.99891 | 215.62270 | 201.40710 | 4.85589 | 0.1629786 | 0.27992375 | 2.3144238 | 20 | — | — |
| 339979 2005 $UY_{229}$ | 17.2 | X | 83.20039 | 250.51751 | 55.68225 | 7.52494 | 0.1117012 | 0.26983939 | 2.3717331 | 20 | 12 24.4 | 20.7 |
| 339980 2005 $UY_{230}$ | 17.1 | X | 91.51414 | 93.65746 | 222.76097 | 6.32396 | 0.1368330 | 0.27402747 | 2.3475056 | 20 | — | — |
| 339981 2005 $UH_{243}$ | 17.8 | X | 357.11159 | 120.11354 | 346.26399 | 3.36061 | 0.0920369 | 0.27788696 | 2.3257191 | 20 | — | — |
| 339982 2005 $US_{244}$ | 17.2 | X | 19.87085 | 96.29202 | 292.39160 | 5.55118 | 0.0951469 | 0.26971907 | 2.3724384 | 20 | — | — |
| 339983 2005 $UY_{244}$ | 17.5 | X | 35.06351 | 138.16067 | 278.30055 | 6.27698 | 0.0865791 | 0.27731824 | 2.3288978 | 20 | — | — |
| 339984 2005 $UR_{248}$ | 17.0 | X | 11.42509 | 352.32850 | 50.69689 | 9.57836 | 0.0697163 | 0.27206081 | 2.3588051 | 20 | — | — |
| 339985 2005 $UQ_{249}$ | 17.8 | X | 69.69885 | 217.84381 | 81.37176 | 2.45117 | 0.1875463 | 0.26723727 | 2.3871041 | 20 | 12 8.2 | 21.2 |
| 339986 2005 $UE_{251}$ | 17.2 | X | 66.18197 | 353.87103 | 18.07334 | 3.26782 | 0.1925571 | 0.27912751 | 2.3188231 | 20 | — | — |
| 339987 2005 $UT_{256}$ | 17.8 | X | 37.77715 | 228.24092 | 179.03936 | 5.56957 | 0.2354833 | 0.28271590 | 2.2991602 | 20 | — | — |
| 339988 2005 $UD_{259}$ | 18.0 | X | 109.79954 | 113.07899 | 180.81220 | 2.59099 | 0.1807277 | 0.27453381 | 2.3446183 | 20 | — | — |
| 339989 2005 $UF_{259}$ | 17.2 | X | 214.13462 | 35.08596 | 204.31648 | 6.14699 | 0.0566783 | 0.28036013 | 2.3120216 | 20 | — | — |
| 339990 2005 $UR_{261}$ | 17.8 | X | 175.72247 | 105.47515 | 185.36408 | 5.13166 | 0.1343088 | 0.28815978 | 2.2701113 | 20 | — | — |
| 339991 2005 $UG_{262}$ | 17.6 | X | 97.17239 | 201.45379 | 85.62364 | 2.65982 | 0.1892325 | 0.27220973 | 2.3579447 | 20 | 12 19.4 | 21.2 |
| 339992 2005 $UN_{262}$ | 18.0 | X | 350.74892 | 260.26765 | 167.24211 | 2.15253 | 0.1735242 | 0.27288057 | 2.3540787 | 20 | — | — |
| 339993 2005 $UQ_{275}$ | 16.9 | X | 95.00870 | 30.81077 | 291.82153 | 5.25794 | 0.1604770 | 0.27651569 | 2.3334018 | 20 | — | — |
| 339994 2005 $UT_{278}$ | 17.9 | X | 76.91433 | 103.51929 | 208.04614 | 4.04585 | 0.2691890 | 0.27353666 | 2.3503129 | 20 | — | — |
| 339995 2005 $UX_{278}$ | 17.6 | X | 289.38616 | 300.73078 | 169.47692 | 1.58476 | 0.0943155 | 0.26811581 | 2.3818867 | 20 | 12 23.4 | 20.0 |
| 339996 2005 $UT_{282}$ | 18.0 | X | 354.40942 | 35.60488 | 61.04034 | 4.46007 | 0.1671602 | 0.27778889 | 2.3262665 | 20 | — | — |
| 339997 2005 $UD_{286}$ | 17.6 | X | 300.43573 | 330.16075 | 180.35675 | 6.53509 | 0.0414649 | 0.27950468 | 2.3167366 | 20 | — | — |
| 339998 2005 $UT_{292}$ | 17.9 | X | 333.86561 | 133.58707 | 322.02078 | 1.96615 | 0.1531568 | 0.27273717 | 2.3549038 | 20 | — | — |
| 339999 2005 $UW_{292}$ | 17.6 | X | 5.48562 | 69.56772 | 15.22576 | 4.54428 | 0.1533083 | 0.27701361 | 2.3306049 | 20 | — | — |
| 340000 2005 $UV_{297}$ | 18.2 | X | 326.28512 | 59.78706 | 60.46711 | 2.06995 | 0.1672345 | 0.27396482 | 2.3478635 | 20 | — | — |