| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276001 2001 $XJ_{228}$ | 17.1 | X | 106.31178 | 314.57295 | 53.50479 | 3.86528 | 0.1846952 | 0.25997411 | 2.4313602 | 21 | — | — |
| 276002 2001 $XA_{246}$ | 16.0 | X | 15.56325 | 18.46004 | 309.92421 | 4.69129 | 0.1738207 | 0.24218333 | 2.5490198 | 21 | 10 15.6 | 18.7 |
| 276003 2001 $YE_{7}$ | 16.6 | X | 299.30151 | 55.44053 | 308.24926 | 8.53656 | 0.2238528 | 0.23650835 | 2.5896340 | 21 | 6 28.5 | 19.7 |
| 276004 2001 $YF_{18}$ | 16.2 | X | 15.54928 | 281.69294 | 101.36872 | 5.03875 | 0.1900096 | 0.24674944 | 2.5174756 | 21 | — | — |
| 276005 2001 $YQ_{18}$ | 15.6 | X | 63.44306 | 53.96161 | 102.63513 | 18.61920 | 0.1641469 | 0.21640143 | 2.7476577 | 21 | 5 11.5 | 19.2 |
| 276006 2001 $YC_{39}$ | 16.9 | X | 247.71188 | 199.55148 | 316.61754 | 1.27811 | 0.1439405 | 0.24494720 | 2.5298090 | 21 | 11 24.4 | 20.0 |
| 276007 2001 $YP_{49}$ | 15.8 | X | 287.53270 | 97.07833 | 281.07801 | 9.49551 | 0.1922610 | 0.23515934 | 2.5995284 | 21 | 7 5.9 | 18.8 |
| 276008 2001 $YY_{71}$ | 16.5 | X | 272.87361 | 56.10789 | 72.03810 | 6.54255 | 0.1649813 | 0.24320865 | 2.5418507 | 21 | 11 20.6 | 19.4 |
| 276009 2001 $YL_{77}$ | 16.3 | X | 330.86881 | 309.61099 | 94.85248 | 10.31139 | 0.1533256 | 0.24212817 | 2.5494070 | 21 | 11 13.1 | 18.8 |
| 276010 2001 $YO_{79}$ | 15.8 | X | 4.74523 | 32.50148 | 330.06087 | 3.55094 | 0.2617677 | 0.24297755 | 2.5434622 | 21 | 11 30.1 | 18.2 |
| 276011 2001 $YG_{89}$ | 16.6 | X | 313.52081 | 325.19521 | 100.65906 | 5.02106 | 0.1059357 | 0.24105590 | 2.5569616 | 21 | 11 10.4 | 19.4 |
| 276012 2001 $YS_{89}$ | 16.7 | X | 299.31147 | 51.54949 | 344.24805 | 3.75036 | 0.3019925 | 0.23784412 | 2.5799291 | 21 | 7 31.6 | 19.5 |
| 276013 2001 $YM_{91}$ | 15.9 | X | 172.71279 | 99.18728 | 106.05397 | 11.72059 | 0.1038429 | 0.23745694 | 2.5827328 | 21 | 11 10.3 | 20.0 |
| 276014 2001 $YG_{107}$ | 16.0 | X | 330.46462 | 292.47324 | 122.55203 | 8.26410 | 0.2389148 | 0.24314873 | 2.5422683 | 21 | 11 29.3 | 17.9 |
| 276015 2001 $YW_{120}$ | 17.7 | X | 56.05926 | 200.81660 | 279.29456 | 4.40568 | 0.1826644 | 0.26346438 | 2.4098395 | 21 | 2 15.7 | 19.6 |
| 276016 2001 $YQ_{124}$ | 16.0 | X | 317.85016 | 17.18053 | 64.41321 | 12.23275 | 0.1022590 | 0.24613568 | 2.5216588 | 21 | 12 8.9 | 18.7 |
| 276017 2001 $YX_{130}$ | 16.6 | X | 307.51378 | 349.73958 | 67.37558 | 5.28255 | 0.2592944 | 0.24061042 | 2.5601167 | 21 | 9 30.1 | 18.8 |
| 276018 2002 $AD_{7}$ | 16.4 | X | 348.18573 | 192.19332 | 203.01641 | 7.96136 | 0.1881559 | 0.24195910 | 2.5505944 | 21 | 12 4.6 | 18.8 |
| 276019 2002 $AF_{13}$ | 15.8 | X | 116.10003 | 298.70117 | 305.42667 | 12.12829 | 0.1158929 | 0.23267349 | 2.6180108 | 21 | 10 21.7 | 20.1 |
| 276020 2002 $AX_{13}$ | 16.9 | X | 193.65031 | 142.04646 | 303.32773 | 11.20156 | 0.2449048 | 0.22672670 | 2.6635914 | 21 | 6 24.7 | 21.7 |
| 276021 2002 $AA_{23}$ | 16.4 | X | 323.26815 | 249.79602 | 188.27166 | 5.44253 | 0.1568952 | 0.24461851 | 2.5320747 | 21 | 12 14.6 | 18.8 |
| 276022 2002 $AZ_{27}$ | 16.0 | X | 340.41232 | 15.51183 | 33.94189 | 4.30943 | 0.2339639 | 0.24371913 | 2.5383001 | 21 | 12 13.3 | 17.9 |
| 276023 2002 $AK_{44}$ | 17.3 | X | 285.07235 | 255.01609 | 193.46254 | 1.52831 | 0.1887405 | 0.24030221 | 2.5623053 | 21 | 10 11.2 | 20.2 |
| 276024 2002 $AT_{53}$ | 17.1 | X | 286.85011 | 39.90361 | 147.42717 | 5.08719 | 0.0606769 | 0.30134544 | 2.2033981 | 21 | — | — |
| 276025 2002 $AV_{54}$ | 16.2 | X | 265.26558 | 250.69711 | 123.19222 | 15.26293 | 0.0924340 | 0.22732336 | 2.6589285 | 21 | 6 17.5 | 20.0 |
| 276026 2002 $AX_{61}$ | 15.9 | X | 209.66549 | 25.10004 | 138.48105 | 8.40534 | 0.1397278 | 0.23527090 | 2.5987065 | 21 | 10 23.6 | 19.9 |
| 276027 2002 $AJ_{67}$ | 16.6 | X | 162.45985 | 150.80502 | 105.64053 | 7.63616 | 0.1728093 | 0.24416835 | 2.5351859 | 21 | 12 26.4 | 20.7 |
| 276028 2002 $AC_{73}$ | 16.6 | X | 299.30010 | 1.03079 | 98.89132 | 12.93241 | 0.1440805 | 0.24404900 | 2.5360123 | 21 | 12 1.7 | 19.4 |
| 276029 2002 $AF_{75}$ | 16.9 | X | 253.14610 | 38.79319 | 89.99065 | 8.21134 | 0.1142231 | 0.24047010 | 2.5611125 | 21 | 11 2.9 | 20.3 |
| 276030 2002 $AD_{77}$ | 16.8 | X | 298.91631 | 55.29642 | 7.61138 | 2.74943 | 0.1589737 | 0.23942054 | 2.5685919 | 21 | 10 3.1 | 19.2 |
| 276031 2002 $AJ_{104}$ | 16.7 | X | 335.32400 | 307.37902 | 112.88648 | 3.01352 | 0.0686571 | 0.24277742 | 2.5448598 | 21 | 12 7.8 | 19.6 |
| 276032 2002 $AT_{107}$ | 16.3 | X | 269.07906 | 135.52165 | 306.69209 | 6.50657 | 0.1811122 | 0.23627071 | 2.5913702 | 21 | 9 6.2 | 19.7 |
| 276033 2002 $AJ_{129}$ | 18.7 | X | 68.29292 | 210.99816 | 138.04688 | 15.45819 | 0.9149974 | 0.61432989 | 1.3704661 | 21 | — | — |
| 276034 2002 $AA_{130}$ | 16.2 | X | 165.87150 | 64.83185 | 68.35822 | 30.76743 | 0.2304848 | 0.22731950 | 2.6589587 | 21 | 8 5.9 | 21.4 |
| 276035 2002 $AB_{140}$ | 15.8 | X | 192.42063 | 21.01012 | 83.53090 | 22.88942 | 0.0356757 | 0.23339562 | 2.6126080 | 21 | 7 24.1 | 19.7 |
| 276036 2002 $AJ_{140}$ | 16.3 | X | 60.64480 | 251.70290 | 118.79977 | 6.42449 | 0.2555224 | 0.25363066 | 2.4717329 | 21 | — | — |
| 276037 2002 $AA_{147}$ | 16.8 | X | 207.10251 | 29.95016 | 123.79267 | 5.08866 | 0.1025518 | 0.23677629 | 2.5876801 | 21 | 10 11.1 | 20.6 |
| 276038 2002 $AE_{150}$ | 16.0 | X | 163.46049 | 134.93002 | 109.79057 | 8.85706 | 0.1798144 | 0.24091177 | 2.5579814 | 21 | 12 13.3 | 20.1 |
| 276039 2002 $AT_{153}$ | 16.2 | X | 196.87862 | 29.58512 | 126.90354 | 13.09435 | 0.1060835 | 0.23274178 | 2.6174987 | 21 | 10 5.7 | 20.3 |
| 276040 2002 $AE_{157}$ | 16.5 | X | 241.79443 | 333.78807 | 151.86485 | 4.29204 | 0.2035597 | 0.23661494 | 2.5888563 | 21 | 9 30.5 | 20.3 |
| 276041 2002 $AV_{162}$ | 16.8 | X | 209.65559 | 327.24486 | 152.95220 | 5.62065 | 0.1941063 | 0.23057032 | 2.6339071 | 21 | 8 21.7 | 21.1 |
| 276042 2002 $AQ_{174}$ | 16.9 | X | 310.67702 | 339.53042 | 96.11181 | 2.37528 | 0.1251416 | 0.24098968 | 2.5574300 | 21 | 11 16.8 | 19.5 |
| 276043 2002 $AL_{209}$ | 17.1 | X | 260.75413 | 335.77579 | 133.61617 | 4.52469 | 0.0221353 | 0.23752697 | 2.5822251 | 21 | 10 30.7 | 20.5 |
| 276044 2002 $BD_{5}$ | 16.4 | X | 248.82635 | 40.99317 | 80.83269 | 15.47572 | 0.1331999 | 0.23750204 | 2.5824058 | 21 | 10 20.6 | 20.2 |
| 276045 2002 $BS_{22}$ | 15.2 | X | 37.78109 | 343.78157 | 4.50189 | 11.88256 | 0.2240032 | 0.24610470 | 2.5218705 | 21 | 12 27.2 | 18.8 |
| 276046 2002 $BG_{27}$ | 15.8 | X | 177.44336 | 118.83438 | 79.13705 | 13.23513 | 0.2245914 | 0.23629962 | 2.5911588 | 21 | 11 1.2 | 20.4 |
| 276047 2002 $CX_{5}$ | 16.4 | X | 294.32690 | 297.80904 | 116.18269 | 2.76555 | 0.2018739 | 0.23551344 | 2.5969221 | 21 | 9 5.7 | 19.1 |
| 276048 2002 $CP_{7}$ | 16.4 | X | 158.82905 | 102.84845 | 122.94254 | 9.45834 | 0.2333131 | 0.23494860 | 2.6010826 | 21 | 11 17.5 | 21.0 |
| 276049 2002 $CE_{26}$ | 16.4 | X | 3.76034 | 228.00445 | 161.89912 | 47.29628 | 0.5607913 | 0.29536007 | 2.2330658 | 21 | — | — |
| 276050 2002 $CU_{30}$ | 16.9 | X | 310.14566 | 323.79579 | 97.93664 | 6.27146 | 0.2434616 | 0.23984360 | 2.5655706 | 21 | 10 16.8 | 19.0 |
| 276051 2002 $CZ_{30}$ | 16.3 | X | 227.83358 | 68.57340 | 74.99825 | 5.44238 | 0.2008833 | 0.23632910 | 2.5909433 | 21 | 10 10.1 | 20.3 |
| 276052 2002 $CB_{32}$ | 16.3 | X | 190.67766 | 154.57631 | 42.63702 | 4.94889 | 0.0718133 | 0.23776409 | 2.5805080 | 21 | 11 16.9 | 19.9 |
| 276053 2002 $CS_{32}$ | 16.3 | X | 182.36285 | 105.86431 | 86.97634 | 8.58598 | 0.1328292 | 0.23514104 | 2.5996632 | 21 | 11 1.7 | 20.4 |
| 276054 2002 $CH_{33}$ | 16.5 | X | 186.91388 | 69.78944 | 114.54161 | 14.15516 | 0.1490242 | 0.23433010 | 2.6056575 | 21 | 10 28.9 | 20.9 |
| 276055 2002 $CP_{37}$ | 16.2 | X | 143.72504 | 101.03973 | 333.17695 | 12.17090 | 0.1803962 | 0.21611675 | 2.7500701 | 21 | 4 21.7 | 20.8 |
| 276056 2002 $CL_{48}$ | 16.8 | X | 236.97980 | 91.69231 | 51.09291 | 3.02703 | 0.1165314 | 0.23788047 | 2.5796663 | 21 | 10 27.9 | 20.3 |
| 276057 2002 $CX_{62}$ | 16.4 | X | 342.94926 | 307.93406 | 116.16969 | 18.42417 | 0.1875819 | 0.24350871 | 2.5397622 | 21 | — | — |
| 276058 2002 $CJ_{70}$ | 16.4 | X | 154.28832 | 141.42671 | 118.11149 | 7.02908 | 0.1254428 | 0.24054926 | 2.5605506 | 21 | 12 23.9 | 20.3 |
| 276059 2002 $CP_{74}$ | 16.5 | X | 160.27574 | 102.16648 | 124.44455 | 5.05731 | 0.1189663 | 0.23609455 | 2.5926590 | 21 | 11 20.5 | 20.6 |
| 276060 2002 $CJ_{80}$ | 16.5 | X | 184.44166 | 59.32185 | 128.14642 | 7.84802 | 0.1343081 | 0.23393935 | 2.6085582 | 21 | 10 28.1 | 20.6 |
| 276061 2002 $CD_{99}$ | 16.1 | X | 78.49816 | 148.33799 | 352.31601 | 7.85469 | 0.1651119 | 0.21321581 | 2.7749582 | 21 | 5 2.2 | 19.7 |
| 276062 2002 $CH_{113}$ | 16.0 | X | 283.27660 | 260.94958 | 112.71034 | 17.79907 | 0.0086113 | 0.22676649 | 2.6632798 | 21 | 7 23.2 | 19.5 |
| 276063 2002 $CY_{120}$ | 17.1 | X | 319.84460 | 296.51586 | 148.69826 | 6.84641 | 0.1686671 | 0.24373232 | 2.5382086 | 21 | 12 18.0 | 19.5 |
| 276064 2002 $CO_{124}$ | 15.5 | X | 219.53978 | 205.97868 | 313.85693 | 15.73049 | 0.1362595 | 0.18563319 | 3.0434462 | 21 | 10 12.2 | 20.6 |
| 276065 2002 $CV_{130}$ | 16.4 | X | 173.51472 | 309.95338 | 275.87492 | 4.40336 | 0.1082532 | 0.23844132 | 2.5756195 | 21 | 12 1.7 | 20.4 |
| 276066 2002 $CX_{139}$ | 16.6 | X | 180.75117 | 247.70299 | 270.66333 | 4.19096 | 0.1669578 | 0.23026831 | 2.6362096 | 21 | 9 11.4 | 21.0 |
| 276067 2002 $CT_{145}$ | 15.6 | X | 146.76841 | 255.40999 | 317.11709 | 5.90348 | 0.1352269 | 0.22968919 | 2.6406388 | 21 | 10 16.4 | 19.8 |
| 276068 2002 $CE_{162}$ | 16.5 | X | 171.85861 | 67.88854 | 118.99049 | 12.30173 | 0.1177717 | 0.23303690 | 2.6152884 | 21 | 10 18.0 | 20.8 |
| 276069 2002 $CT_{171}$ | 16.3 | X | 221.89426 | 355.40923 | 124.12925 | 10.63201 | 0.0466291 | 0.23118848 | 2.6292099 | 21 | 9 21.2 | 20.0 |
| 276070 2002 $CX_{179}$ | 16.0 | X | 218.81578 | 221.80075 | 136.74025 | 6.82801 | 0.0452204 | 0.21557226 | 2.7546989 | 21 | 4 9.1 | 20.0 |
| 276071 2002 $CU_{182}$ | 16.8 | X | 199.95147 | 78.80267 | 119.89421 | 8.78856 | 0.0496234 | 0.23986725 | 2.5654019 | 21 | 12 4.0 | 20.4 |
| 276072 2002 $CY_{183}$ | 16.7 | X | 124.83768 | 167.24797 | 328.86348 | 7.03762 | 0.0235948 | 0.22074774 | 2.7114725 | 21 | 6 7.5 | 20.5 |
| 276073 2002 $CQ_{190}$ | 16.8 | X | 140.12158 | 265.53178 | 320.12842 | 3.87257 | 0.1457193 | 0.23327793 | 2.6134866 | 21 | 10 27.9 | 21.0 |
| 276074 2002 $CT_{204}$ | 16.6 | X | 146.91715 | 107.62155 | 121.85340 | 4.16862 | 0.2054212 | 0.23241413 | 2.6199582 | 21 | 11 11.1 | 21.1 |
| 276075 2002 $CK_{216}$ | 16.1 | X | 77.23372 | 165.56417 | 342.40213 | 7.87743 | 0.0526671 | 0.21316952 | 2.7753599 | 21 | 4 22.7 | 19.9 |
| 276076 2002 $CO_{217}$ | 16.2 | X | 279.14997 | 310.47815 | 101.06728 | 3.18437 | 0.0767087 | 0.22840782 | 2.6505057 | 21 | 8 29.3 | 19.5 |
| 276077 2002 $CJ_{221}$ | 16.5 | X | 132.10002 | 17.78150 | 158.98247 | 10.49526 | 0.2583238 | 0.22246667 | 2.6974874 | 21 | 8 27.5 | 21.1 |
| 276078 2002 $CR_{224}$ | 16.2 | X | 260.49213 | 53.27387 | 59.99637 | 7.16609 | 0.1156371 | 0.23540015 | 2.5977552 | 21 | 10 21.3 | 19.6 |
| 276079 2002 $CV_{263}$ | 17.3 | X | 163.42724 | 44.39800 | 144.90853 | 5.36460 | 0.1283425 | 0.23115006 | 2.6295012 | 21 | 10 8.5 | 21.4 |
| 276080 2002 $CZ_{269}$ | 16.8 | X | 192.22354 | 31.69242 | 135.05002 | 4.26117 | 0.0417140 | 0.23311764 | 2.6146845 | 21 | 10 14.9 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276081 2002 $CG_{270}$ | 15.8 | X | 40.86227 | 206.58197 | 142.09023 | 10.43554 | 0.0229059 | 0.18709679 | 3.0275535 | 21 | 11 23.1 | 20.2 |
| 276082 2002 $CR_{271}$ | 17.2 | X | 260.40454 | 326.78292 | 128.55592 | 2.74191 | 0.0642753 | 0.23451797 | 2.6042657 | 21 | 10 4.1 | 20.5 |
| 276083 2002 $CA_{289}$ | 16.1 | X | 136.29674 | 167.72819 | 84.97783 | 14.53570 | 0.0445572 | 0.23961634 | 2.5671925 | 21 | 11 28.7 | 19.8 |
| 276084 2002 $CF_{294}$ | 15.8 | X | 235.01404 | 47.51375 | 96.61848 | 15.51788 | 0.0434060 | 0.23834450 | 2.5763170 | 21 | 11 12.2 | 19.5 |
| 276085 2002 $CX_{296}$ | 16.6 | X | 206.27085 | 135.35641 | 351.78165 | 8.86936 | 0.1436365 | 0.22829659 | 2.6513665 | 21 | 9 1.1 | 20.7 |
| 276086 2002 $CG_{302}$ | 16.6 | X | 204.99372 | 27.77897 | 115.22573 | 7.82676 | 0.1301286 | 0.23153127 | 2.6266142 | 21 | 9 23.3 | 20.7 |
| 276087 2002 $CY_{310}$ | 17.3 | X | 230.34637 | 100.99143 | 3.55003 | 2.03062 | 0.1692253 | 0.23076716 | 2.6324091 | 21 | 8 24.9 | 21.1 |
| 276088 2002 $DG_{9}$ | 16.2 | X | 269.68788 | 19.83158 | 88.29201 | 15.22218 | 0.1219101 | 0.23774217 | 2.5806666 | 21 | 10 31.7 | 19.7 |
| 276089 2002 $DM_{11}$ | 16.7 | X | 141.42757 | 13.37897 | 168.57085 | 12.31619 | 0.2002079 | 0.22577105 | 2.6711025 | 21 | 9 8.1 | 21.1 |
| 276090 2002 $DH_{15}$ | 16.9 | X | 151.19367 | 48.19823 | 174.59143 | 4.74529 | 0.1716983 | 0.23274740 | 2.6174566 | 21 | 11 6.4 | 21.2 |
| 276091 2002 $DQ_{18}$ | 17.0 | X | 138.12591 | 63.70921 | 108.28498 | 2.13359 | 0.1414820 | 0.22446265 | 2.6814724 | 21 | 8 21.7 | 21.2 |
| 276092 2002 $DU_{18}$ | 16.5 | X | 176.09218 | 102.67168 | 55.91978 | 12.36187 | 0.1349961 | 0.23019512 | 2.6367684 | 21 | 9 17.2 | 20.9 |
| 276093 2002 $EK$ | 15.4 | X | 200.46535 | 46.31536 | 81.58835 | 32.66428 | 0.2282043 | 0.22926059 | 2.6439289 | 21 | 9 3.1 | 20.6 |
| 276094 2002 $EQ_{10}$ | 16.2 | X | 299.98551 | 329.89111 | 185.47110 | 16.75111 | 0.0653532 | 0.24342655 | 2.5403336 | 21 | — | — |
| 276095 2002 $ER_{10}$ | 16.2 | X | 125.07416 | 32.75080 | 189.79413 | 14.64167 | 0.2878102 | 0.22509089 | 2.6764806 | 21 | 10 18.8 | 21.0 |
| 276096 2002 $EE_{32}$ | 15.8 | X | 16.89672 | 177.75091 | 160.34896 | 9.84785 | 0.0399162 | 0.17955353 | 3.1117647 | 21 | 10 10.5 | 20.0 |
| 276097 2002 $EZ_{47}$ | 16.9 | X | 118.71012 | 282.04349 | 295.22606 | 1.01881 | 0.1396980 | 0.22565527 | 2.6720160 | 21 | 9 27.3 | 21.0 |
| 276098 2002 $EP_{55}$ | 16.8 | X | 208.06357 | 293.03018 | 169.97950 | 12.22422 | 0.2372549 | 0.22868439 | 2.6483683 | 21 | 7 25.7 | 21.4 |
| 276099 2002 $EO_{68}$ | 16.8 | X | 104.69882 | 29.95629 | 180.88481 | 8.98430 | 0.1075537 | 0.22239016 | 2.6981060 | 21 | 8 30.8 | 20.8 |
| 276100 2002 $EG_{74}$ | 16.1 | X | 144.76327 | 303.26080 | 201.47939 | 9.16378 | 0.2304375 | 0.22046204 | 2.7138145 | 21 | 7 25.9 | 20.8 |
| 276101 2002 $EN_{100}$ | 16.4 | X | 55.59298 | 1.44858 | 165.01285 | 8.28256 | 0.0910653 | 0.21310840 | 2.7758906 | 21 | 4 27.0 | 19.9 |
| 276102 2002 $ET_{105}$ | 16.9 | X | 207.29698 | 71.77265 | 52.71804 | 5.25615 | 0.1990462 | 0.22839390 | 2.6506134 | 21 | 8 27.3 | 21.2 |
| 276103 2002 $EW_{128}$ | 15.7 | X | 134.23899 | 20.87971 | 317.27670 | 3.70100 | 0.1660390 | 0.24671985 | 2.5176768 | 21 | — | — |
| 276104 2002 $ES_{149}$ | 15.9 | X | 24.92816 | 326.69672 | 9.73691 | 11.75933 | 0.0649322 | 0.22986953 | 2.6392576 | 21 | 10 24.3 | 19.2 |
| 276105 2002 $EW_{157}$ | 17.4 | X | 207.33730 | 259.52534 | 178.28216 | 7.96832 | 0.3627194 | 0.22667747 | 2.6639771 | 21 | 6 21.6 | 22.6 |
| 276106 2002 $FQ_{25}$ | 15.8 | X | 148.15080 | 153.54161 | 72.91572 | 15.94576 | 0.1330861 | 0.23134733 | 2.6280062 | 21 | 11 10.4 | 20.1 |
| 276107 2002 $FE_{34}$ | 16.5 | X | 110.53401 | 94.41319 | 137.44428 | 8.47684 | 0.2117360 | 0.22398730 | 2.6852648 | 21 | 10 16.4 | 21.0 |
| 276108 2002 $FN_{35}$ | 16.1 | X | 163.37319 | 173.47323 | 326.84795 | 13.13664 | 0.1103037 | 0.22289548 | 2.6940266 | 21 | 8 6.6 | 20.2 |
| 276109 2002 $GL_{5}$ | 16.4 | X | 56.32118 | 297.54362 | 8.51289 | 3.63171 | 0.2993598 | 0.32649554 | 2.0887408 | 21 | 12 15.1 | 19.4 |
| 276110 2002 $GO_{6}$ | 16.8 | X | 169.52609 | 130.69405 | 212.89128 | 20.38185 | 0.1198100 | 0.34939104 | 1.9964643 | 21 | — | — |
| 276111 2002 $GM_{9}$ | 18.6 | X | 119.64708 | 273.76243 | 44.12450 | 17.31894 | 0.3493307 | 0.38689254 | 1.8652733 | 21 | — | — |
| 276112 2002 $GP_{10}$ | 16.2 | X | 74.60279 | 236.08677 | 66.49208 | 12.71019 | 0.2937734 | 0.22413266 | 2.6841036 | 21 | 12 11.5 | 20.7 |
| 276113 2002 $GB_{37}$ | 17.0 | X | 184.59485 | 108.00362 | 41.38669 | 6.54335 | 0.2121382 | 0.22735967 | 2.6586455 | 21 | 9 7.5 | 21.5 |
| 276114 2002 $GZ_{47}$ | 16.3 | X | 293.32628 | 158.28662 | 201.68973 | 5.85252 | 0.0320573 | 0.21865903 | 2.7287124 | 21 | 7 13.3 | 20.0 |
| 276115 2002 $GA_{50}$ | 16.0 | X | 172.23394 | 172.38961 | 327.98600 | 12.51949 | 0.1010535 | 0.22376575 | 2.6870369 | 21 | 8 15.1 | 19.9 |
| 276116 2002 $GD_{59}$ | 16.4 | X | 105.22677 | 159.47378 | 26.99492 | 15.35984 | 0.0931992 | 0.21767123 | 2.7369615 | 21 | 8 5.4 | 20.6 |
| 276117 2002 $GC_{62}$ | 16.7 | X | 82.92567 | 59.52139 | 196.96259 | 11.63577 | 0.1531668 | 0.22210458 | 2.7004183 | 21 | 10 10.4 | 20.6 |
| 276118 2002 $GC_{65}$ | 16.6 | X | 184.48041 | 339.96073 | 190.75800 | 12.90522 | 0.1264080 | 0.22841821 | 2.6504253 | 21 | 10 3.8 | 20.5 |
| 276119 2002 $GF_{73}$ | 16.2 | X | 226.81018 | 315.50849 | 178.01348 | 13.39648 | 0.0980691 | 0.22920021 | 2.6443933 | 21 | 10 6.0 | 19.9 |
| 276120 2002 $GR_{79}$ | 16.0 | X | 136.76149 | 111.54211 | 77.88129 | 15.55279 | 0.0920782 | 0.22361245 | 2.6882649 | 21 | 9 16.8 | 20.4 |
| 276121 2002 $GK_{80}$ | 16.7 | X | 175.28481 | 86.80983 | 42.83028 | 6.54291 | 0.2348868 | 0.22290385 | 2.6939592 | 21 | 8 5.6 | 21.4 |
| 276122 2002 $GW_{81}$ | 17.1 | X | 64.05752 | 263.97425 | 42.38530 | 12.50160 | 0.1193801 | 0.27841978 | 2.3227510 | 21 | 11 23.7 | 20.1 |
| 276123 2002 $GA_{83}$ | 16.3 | X | 131.29207 | 32.01277 | 156.03183 | 8.43893 | 0.1223918 | 0.22155140 | 2.7049114 | 21 | 9 2.5 | 20.5 |
| 276124 2002 $GG_{85}$ | 16.9 | X | 81.87164 | 177.89525 | 95.60904 | 3.48107 | 0.1565772 | 0.27646445 | 2.3336901 | 21 | 11 8.2 | 20.2 |
| 276125 2002 $GT_{99}$ | 16.2 | X | 196.34085 | 332.08073 | 199.35389 | 12.71511 | 0.0391181 | 0.23042612 | 2.6350058 | 21 | 10 24.8 | 19.7 |
| 276126 2002 $GK_{102}$ | 16.0 | X | 16.83107 | 26.52511 | 164.85539 | 13.28766 | 0.1132026 | 0.20555948 | 2.8434420 | 21 | 3 29.8 | 19.3 |
| 276127 2002 $GL_{102}$ | 16.2 | X | 171.25340 | 137.03372 | 6.15785 | 11.53235 | 0.1224451 | 0.22302180 | 2.6930092 | 21 | 8 21.1 | 20.5 |
| 276128 2002 $GZ_{105}$ | 15.8 | X | 64.23896 | 127.03644 | 125.73350 | 10.01855 | 0.0727554 | 0.22069787 | 2.7118810 | 21 | 9 2.9 | 19.4 |
| 276129 2002 $GM_{119}$ | 15.9 | X | 93.65837 | 150.04806 | 51.00560 | 14.38179 | 0.1365079 | 0.21847112 | 2.7302768 | 21 | 8 16.5 | 20.1 |
| 276130 2002 $GW_{120}$ | 16.7 | X | 309.15867 | 273.11163 | 211.38355 | 5.73398 | 0.0668447 | 0.28901806 | 2.2656147 | 21 | — | — |
| 276131 2002 $GD_{125}$ | 17.2 | X | 261.86923 | 192.23378 | 192.25555 | 21.96549 | 0.0964116 | 0.37353971 | 1.9094643 | 21 | 6 21.5 | 19.9 |
| 276132 2002 $GB_{146}$ | 16.0 | X | 286.00334 | 139.62389 | 221.16881 | 4.87265 | 0.0640064 | 0.21359638 | 2.7716611 | 21 | 6 30.0 | 19.7 |
| 276133 2002 $GV_{149}$ | 16.6 | X | 215.92969 | 260.68468 | 225.95604 | 2.74909 | 0.1196464 | 0.22676462 | 2.6632944 | 21 | 9 9.8 | 20.6 |
| 276134 2002 $GF_{153}$ | 16.1 | X | 83.64732 | 114.63999 | 100.49439 | 9.90491 | 0.0983912 | 0.21791602 | 2.7349115 | 21 | 8 12.8 | 19.9 |
| 276135 2002 $GV_{153}$ | 16.0 | X | 50.38025 | 211.29190 | 79.76471 | 14.44078 | 0.0900873 | 0.22213496 | 2.7001720 | 21 | 10 13.5 | 19.8 |
| 276136 2002 $GJ_{155}$ | 16.4 | X | 128.68726 | 88.21348 | 114.19207 | 5.41770 | 0.0530506 | 0.22455329 | 2.6807507 | 21 | 9 15.4 | 20.2 |
| 276137 2002 $GO_{164}$ | 16.3 | X | 90.18095 | 173.40570 | 50.86751 | 5.67638 | 0.0975971 | 0.21965552 | 2.7204535 | 21 | 9 3.0 | 20.1 |
| 276138 2002 $GG_{180}$ | 16.6 | X | 60.67928 | 112.84823 | 97.20326 | 1.85601 | 0.0105532 | 0.21403216 | 2.7678977 | 21 | 6 19.9 | 20.2 |
| 276139 2002 $HY_{6}$ | 16.6 | X | 222.02652 | 264.04474 | 4.92331 | 12.07418 | 0.2447303 | 0.24191796 | 2.5508836 | 21 | — | — |
| 276140 2002 $HB_{8}$ | 15.7 | X | 214.35544 | 57.84471 | 63.72712 | 22.73580 | 0.0518728 | 0.22667977 | 2.6639590 | 21 | 9 24.2 | 20.0 |
| 276141 2002 $HF_{10}$ | 15.7 | X | 162.37335 | 351.64076 | 201.60901 | 12.58170 | 0.0555751 | 0.22572612 | 2.6714569 | 21 | 10 10.2 | 19.6 |
| 276142 2002 $HR_{13}$ | 16.1 | X | 45.41774 | 52.41539 | 195.12870 | 14.26683 | 0.3190900 | 0.21306611 | 2.7762579 | 21 | 9 2.3 | 19.7 |
| 276143 2002 $JP_{5}$ | 16.0 | X | 33.86433 | 161.69668 | 137.55799 | 13.72246 | 0.1676717 | 0.22049190 | 2.7135696 | 21 | 10 9.2 | 19.4 |
| 276144 2002 $JY_{19}$ | 16.2 | X | 30.58081 | 228.26350 | 69.31835 | 14.32724 | 0.1845737 | 0.21731415 | 2.7399589 | 21 | 10 6.9 | 19.7 |
| 276145 2002 $JO_{38}$ | 16.7 | X | 49.97620 | 30.64589 | 242.57428 | 8.31369 | 0.2472404 | 0.21705497 | 2.7421396 | 21 | 10 1.7 | 20.4 |
| 276146 2002 $JP_{74}$ | 16.7 | X | 81.96501 | 11.40820 | 263.44058 | 1.93138 | 0.2826104 | 0.22224515 | 2.6992795 | 21 | 11 14.2 | 21.0 |
| 276147 2002 $JO_{75}$ | 16.2 | X | 64.34993 | 61.31973 | 201.48967 | 7.45111 | 0.1659754 | 0.21750593 | 2.7383480 | 21 | 9 26.8 | 19.9 |
| 276148 2002 $JQ_{80}$ | 15.9 | X | 51.89878 | 257.26341 | 35.04057 | 13.27307 | 0.1181547 | 0.22237841 | 2.6982010 | 21 | 10 15.6 | 19.4 |
| 276149 2002 $JL_{99}$ | 15.9 | X | 55.37684 | 206.35849 | 86.55140 | 18.03338 | 0.2860143 | 0.22083681 | 2.7107434 | 21 | 11 16.5 | 20.0 |
| 276150 2002 $JP_{99}$ | 15.7 | X | 62.84515 | 145.53291 | 126.72244 | 14.69684 | 0.0588698 | 0.22130989 | 2.7068790 | 21 | 9 28.2 | 19.5 |
| 276151 2002 $JE_{112}$ | 16.1 | X | 94.63504 | 305.09222 | 275.64255 | 8.47077 | 0.1911904 | 0.21764296 | 2.7371986 | 21 | 9 7.4 | 20.4 |
| 276152 2002 $JX_{124}$ | 16.1 | X | 23.58008 | 154.82321 | 148.59468 | 10.03892 | 0.1882441 | 0.21664963 | 2.7455588 | 21 | 9 27.8 | 19.1 |
| 276153 2002 $JY_{140}$ | 16.2 | X | 147.95397 | 120.47608 | 51.98470 | 4.44295 | 0.0168821 | 0.21827006 | 2.7319533 | 21 | 8 27.9 | 19.9 |
| 276154 2002 $JW_{144}$ | 15.9 | X | 52.55727 | 170.91717 | 128.25405 | 14.84308 | 0.1760754 | 0.22099223 | 2.7094723 | 21 | 11 6.8 | 19.9 |
| 276155 2002 $KW_{12}$ | 16.4 | X | 191.53817 | 29.82216 | 199.92788 | 12.03176 | 0.1279691 | 0.23332424 | 2.6131408 | 21 | 12 22.2 | 20.5 |
| 276156 2002 $LL_{1}$ | 16.2 | X | 49.55404 | 155.68008 | 121.55759 | 6.23061 | 0.0827585 | 0.21769368 | 2.7367734 | 21 | 9 16.7 | 19.7 |
| 276157 2002 $LK_{16}$ | 16.8 | X | 58.32879 | 197.93272 | 61.85931 | 6.40120 | 0.1764518 | 0.26724753 | 2.3870431 | 21 | 9 26.4 | 19.8 |
| 276158 2002 $LE_{44}$ | 15.8 | X | 58.87132 | 177.26719 | 81.63686 | 17.29269 | 0.0921809 | 0.21690515 | 2.7434021 | 21 | 9 13.6 | 19.9 |
| 276159 2002 $LU_{46}$ | 15.7 | X | 96.25748 | 85.12037 | 126.58635 | 15.14781 | 0.2161342 | 0.21589729 | 2.7519334 | 21 | 9 8.4 | 20.1 |
| 276160 2002 $LT_{51}$ | 15.8 | X | 336.76150 | 102.89272 | 218.10944 | 10.95843 | 0.2716678 | 0.21014171 | 2.8019553 | 21 | 6 29.2 | 18.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276161 2002 $LA_{53}$ | 17.2 | X | 196.80845 | 47.73230 | 240.22730 | 8.89559 | 0.2603542 | 0.23845371 | 2.5755303 | 21 | — | — |
| 276162 2002 $LV_{61}$ | 15.7 | X | 324.27834 | 13.30204 | 163.05249 | 10.63121 | 0.0323766 | 0.19144187 | 2.9815683 | 21 | 1 1.9 | 20.0 |
| 276163 2002 $LV_{62}$ | 15.8 | X | 247.15501 | 251.40243 | 94.27708 | 4.70718 | 0.1995082 | 0.19658620 | 2.9293237 | 21 | 4 13.3 | 20.6 |
| 276164 2002 $NF_{60}$ | 16.1 | X | 283.43831 | 194.73388 | 113.80008 | 10.98456 | 0.0823362 | 0.19736871 | 2.9215760 | 21 | 4 22.4 | 20.4 |
| 276165 2002 $NN_{69}$ | 16.2 | X | 305.43981 | 207.79166 | 87.17560 | 7.10771 | 0.0370062 | 0.19958684 | 2.8998895 | 21 | 5 6.9 | 20.1 |
| 276166 2002 $OW_{4}$ | 15.7 | X | 318.24891 | 142.29499 | 165.11315 | 15.43547 | 0.1462764 | 0.20274872 | 2.8696613 | 21 | 5 27.1 | 19.5 |
| 276167 2002 $ON_{5}$ | 15.7 | X | 276.31124 | 84.43850 | 263.32112 | 6.57917 | 0.2300246 | 0.20120675 | 2.8843039 | 21 | 5 7.1 | 20.0 |
| 276168 2002 $OU_{21}$ | 17.4 | X | 191.01384 | 62.97374 | 270.61569 | 6.04302 | 0.1485538 | 0.29006662 | 2.2601515 | 21 | 1 25.6 | 20.9 |
| 276169 2002 $OZ_{32}$ | 15.3 | X | 309.08821 | 331.44087 | 155.49348 | 11.67622 | 0.0802801 | 0.17575659 | 3.1564214 | 21 | — | — |
| 276170 2002 $ON_{34}$ | 15.6 | X | 312.90318 | 262.07783 | 278.00545 | 10.08588 | 0.0426362 | 0.18023160 | 3.1039551 | 21 | — | — |
| 276171 2002 $PG_{17}$ | 16.4 | X | 326.99502 | 184.82283 | 140.88125 | 9.34871 | 0.1639391 | 0.20565763 | 2.8425373 | 21 | 7 1.3 | 19.7 |
| 276172 2002 $PD_{35}$ | 15.1 | X | 146.87743 | 8.81984 | 314.63041 | 15.43467 | 0.1532180 | 0.17785410 | 3.1315556 | 21 | — | — |
| 276173 2002 $PM_{81}$ | 16.2 | X | 208.39721 | 116.28314 | 186.97108 | 10.31259 | 0.2560084 | 0.18515781 | 3.0486532 | 21 | 1 20.3 | 21.8 |
| 276174 2002 $PE_{102}$ | 17.4 | X | 160.59677 | 98.69499 | 248.74269 | 5.38282 | 0.2022970 | 0.28663257 | 2.2781677 | 21 | 1 18.3 | 20.7 |
| 276175 2002 $PF_{106}$ | 15.6 | X | 109.38577 | 88.11104 | 251.88013 | 8.37580 | 0.0836949 | 0.17394962 | 3.1782427 | 21 | — | — |
| 276176 2002 $PA_{107}$ | 15.3 | X | 13.64440 | 211.70685 | 253.09930 | 9.26616 | 0.0148099 | 0.17819608 | 3.1275477 | 21 | — | — |
| 276177 2002 $PT_{107}$ | 15.7 | X | 177.10503 | 176.24470 | 194.30428 | 10.73011 | 0.0207939 | 0.18932995 | 3.0036997 | 21 | 3 4.4 | 20.1 |
| 276178 2002 $PQ_{109}$ | 16.2 | X | 235.79286 | 133.51251 | 214.42899 | 9.38960 | 0.1201546 | 0.19347061 | 2.9606884 | 21 | 4 8.1 | 20.7 |
| 276179 2002 $PN_{118}$ | 17.8 | X | 146.55450 | 99.22084 | 247.04153 | 4.03389 | 0.2317768 | 0.28378117 | 2.2934028 | 21 | 1 6.9 | 20.8 |
| 276180 2002 $PV_{119}$ | 15.2 | X | 111.53126 | 17.40046 | 319.67345 | 17.87832 | 0.1713480 | 0.17308799 | 3.1887815 | 21 | — | — |
| 276181 2002 $PU_{123}$ | 15.3 | X | 137.86220 | 32.01559 | 293.36913 | 11.64138 | 0.1706202 | 0.17602404 | 3.1532233 | 21 | — | — |
| 276182 2002 $PK_{151}$ | 15.9 | X | 212.55031 | 229.45658 | 124.93215 | 11.83462 | 0.1184948 | 0.19252722 | 2.9703522 | 21 | 3 30.1 | 20.7 |
| 276183 2002 $PX_{160}$ | 15.9 | X | 162.15900 | 118.15684 | 123.99651 | 15.47672 | 0.0944490 | 0.22313091 | 2.6921312 | 21 | 12 11.0 | 20.2 |
| 276184 2002 $PU_{162}$ | 17.1 | X | 40.04586 | 265.36772 | 127.96106 | 4.76185 | 0.2116863 | 0.27383955 | 2.3485795 | 21 | — | — |
| 276185 2002 $PF_{171}$ | 15.5 | X | 113.65129 | 336.43595 | 342.29047 | 8.58383 | 0.2174440 | 0.17191731 | 3.2032412 | 21 | — | — |
| 276186 2002 $PX_{178}$ | 14.8 | X | 137.01469 | 301.21436 | 73.72658 | 16.46738 | 0.2559432 | 0.17901395 | 3.1180145 | 21 | 2 26.9 | 20.2 |
| 276187 2002 $PD_{180}$ | 16.3 | X | 270.68859 | 292.67671 | 317.39367 | 9.66142 | 0.1494773 | 0.18750056 | 3.0232055 | 21 | 1 16.9 | 20.9 |
| 276188 2002 $PK_{186}$ | 16.3 | X | 231.35439 | 215.19458 | 126.80609 | 11.99260 | 0.0693625 | 0.19246790 | 2.9709625 | 21 | 4 5.8 | 20.9 |
| 276189 2002 $PO_{189}$ | 16.1 | X | 262.09599 | 88.12159 | 125.99123 | 6.58056 | 0.0972728 | 0.18102130 | 3.0949212 | 21 | — | — |
| 276190 2002 $PN_{192}$ | 15.9 | X | 270.78126 | 199.14084 | 140.13063 | 12.84297 | 0.1577438 | 0.19991787 | 2.8966875 | 21 | 5 5.4 | 20.4 |
| 276191 2002 $PU_{193}$ | 16.2 | X | 50.14751 | 211.01703 | 324.12671 | 22.69889 | 0.1473623 | 0.29762056 | 2.2217444 | 21 | 4 5.5 | 18.9 |
| 276192 2002 $PT_{195}$ | 16.3 | X | 245.25640 | 73.15732 | 199.27512 | 6.37727 | 0.1280818 | 0.18694823 | 3.0291572 | 21 | 1 18.1 | 21.1 |
| 276193 2002 $QN_{3}$ | 17.6 | X | 278.07663 | 171.10421 | 181.48387 | 4.69388 | 0.1365290 | 0.30397476 | 2.1906737 | 21 | 5 24.9 | 20.3 |
| 276194 2002 $QA_{13}$ | 16.2 | X | 347.11272 | 131.69844 | 169.33176 | 15.00435 | 0.1446042 | 0.20418296 | 2.8562073 | 21 | 7 5.2 | 19.6 |
| 276195 2002 $QT_{19}$ | 15.8 | X | 132.21933 | 31.62498 | 301.65109 | 7.77127 | 0.2626509 | 0.17457515 | 3.1706461 | 21 | 1 1.2 | 20.8 |
| 276196 2002 $QJ_{24}$ | 15.6 | X | 23.70966 | 195.43802 | 161.93455 | 15.18289 | 0.1687540 | 0.21443882 | 2.7643972 | 21 | 12 6.2 | 19.3 |
| 276197 2002 $QF_{28}$ | 17.1 | X | 236.41713 | 214.65006 | 160.34333 | 8.09680 | 0.1256739 | 0.29985881 | 2.2106747 | 21 | 5 8.8 | 20.3 |
| 276198 2002 $QY_{28}$ | 17.5 | X | 98.29997 | 288.45297 | 71.44340 | 3.07005 | 0.2456154 | 0.27870903 | 2.3211437 | 21 | — | — |
| 276199 2002 $QN_{51}$ | 16.3 | X | 148.80965 | 40.68686 | 342.07011 | 5.63824 | 0.1233008 | 0.18429831 | 3.0581244 | 21 | 2 27.4 | 20.9 |
| 276200 2002 $QZ_{52}$ | 16.0 | X | 319.62250 | 109.10820 | 144.93105 | 8.58892 | 0.0498967 | 0.19238484 | 2.9718176 | 21 | 4 2.8 | 20.1 |
| 276201 2002 $QD_{57}$ | 16.2 | X | 229.11697 | 91.37147 | 165.03870 | 6.69017 | 0.0635212 | 0.17984872 | 3.1083589 | 21 | — | — |
| 276202 2002 $QK_{57}$ | 16.1 | X | 158.57063 | 231.54570 | 159.01529 | 12.29280 | 0.0923370 | 0.18733883 | 3.0249452 | 21 | 3 16.8 | 20.7 |
| 276203 2002 $QS_{65}$ | 15.8 | X | 142.32894 | 240.16440 | 146.84808 | 17.24029 | 0.1036672 | 0.18464797 | 3.0542625 | 21 | 2 24.3 | 20.4 |
| 276204 2002 $QT_{66}$ | 18.2 | X | 34.03569 | 142.70327 | 140.68614 | 5.56741 | 0.0593367 | 0.31236511 | 2.1512673 | 21 | 9 6.4 | 20.2 |
| 276205 2002 $QZ_{70}$ | 16.3 | X | 333.68901 | 159.33880 | 151.92837 | 15.91793 | 0.1430759 | 0.20334082 | 2.8640878 | 21 | 6 26.3 | 19.9 |
| 276206 2002 $QF_{71}$ | 15.8 | X | 219.74035 | 298.83363 | 334.25723 | 10.24074 | 0.1470459 | 0.18294248 | 3.0732155 | 21 | — | — |
| 276207 2002 $QN_{73}$ | 15.5 | X | 97.38752 | 284.19707 | 120.54110 | 9.30118 | 0.1310908 | 0.17962333 | 3.1109586 | 21 | 1 28.9 | 19.6 |
| 276208 2002 $QD_{74}$ | 15.6 | X | 162.97557 | 139.73936 | 130.33675 | 13.17535 | 0.0354243 | 0.17177629 | 3.2049941 | 21 | — | — |
| 276209 2002 $QB_{79}$ | 16.1 | X | 36.93725 | 10.43480 | 2.24969 | 4.23946 | 0.0579535 | 0.16850082 | 3.2463950 | 21 | 12 15.1 | 20.6 |
| 276210 2002 $QU_{83}$ | 17.6 | X | 71.71669 | 105.38788 | 298.32048 | 5.57962 | 0.1552915 | 0.27984172 | 2.3148761 | 21 | — | — |
| 276211 2002 $QG_{87}$ | 17.9 | X | 15.43816 | 190.83416 | 73.48633 | 1.33597 | 0.1550399 | 0.30711328 | 2.1757232 | 21 | 7 10.1 | 19.2 |
| 276212 2002 $QA_{93}$ | 17.7 | X | 248.84545 | 281.40554 | 11.35202 | 5.80148 | 0.1704349 | 0.29312948 | 2.2443800 | 21 | 1 31.3 | 21.2 |
| 276213 2002 $QG_{94}$ | 16.2 | X | 170.88857 | 132.61697 | 235.45068 | 9.36391 | 0.1148566 | 0.18604686 | 3.0389332 | 21 | 2 26.7 | 21.1 |
| 276214 2002 $QW_{99}$ | 16.0 | X | 157.64218 | 357.45185 | 354.10554 | 11.02215 | 0.0556598 | 0.18178637 | 3.0862315 | 21 | 1 27.9 | 20.6 |
| 276215 2002 $QG_{110}$ | 16.0 | X | 199.36529 | 188.74922 | 149.67640 | 8.98590 | 0.0872361 | 0.18749666 | 3.0232474 | 21 | 2 22.8 | 20.7 |
| 276216 2002 $QR_{110}$ | 17.4 | X | 305.36493 | 117.74658 | 148.06468 | 8.73768 | 0.1062999 | 0.29852508 | 2.2172543 | 21 | 3 3.7 | 20.0 |
| 276217 2002 $QB_{111}$ | 16.2 | X | 267.49064 | 183.29049 | 156.42675 | 11.48254 | 0.0351423 | 0.19826022 | 2.9128112 | 21 | 5 17.1 | 20.5 |
| 276218 2002 $QX_{112}$ | 17.4 | X | 115.49525 | 252.50195 | 216.67116 | 4.18596 | 0.1070546 | 0.29685360 | 2.2255695 | 21 | 4 26.3 | 19.7 |
| 276219 2002 $QL_{117}$ | 15.9 | X | 136.05006 | 209.06217 | 173.66836 | 9.42709 | 0.1274029 | 0.18343281 | 3.0677364 | 21 | 2 13.2 | 20.6 |
| 276220 2002 $QZ_{121}$ | 15.9 | X | 180.74070 | 135.41416 | 169.15522 | 11.76151 | 0.1709495 | 0.17945756 | 3.1128740 | 21 | 1 1.0 | 21.2 |
| 276221 2002 $QD_{122}$ | 16.1 | X | 120.23442 | 226.54236 | 190.38484 | 8.91118 | 0.0886135 | 0.18509730 | 3.0493176 | 21 | 3 3.5 | 20.5 |
| 276222 2002 $QO_{123}$ | 16.6 | X | 4.77267 | 225.49388 | 120.08935 | 5.34790 | 0.0769177 | 0.21128043 | 2.7918786 | 21 | 10 10.6 | 20.1 |
| 276223 2002 $QD_{126}$ | 15.8 | X | 164.15316 | 266.50176 | 116.08264 | 9.80919 | 0.0858578 | 0.18640888 | 3.0349974 | 21 | 3 15.0 | 20.5 |
| 276224 2002 $QQ_{126}$ | 15.8 | X | 97.64015 | 327.29703 | 101.14905 | 9.46531 | 0.1976259 | 0.18152292 | 3.0892169 | 21 | 3 12.1 | 20.2 |
| 276225 2002 $QB_{130}$ | 17.0 | X | 126.52307 | 127.42744 | 319.80496 | 6.38256 | 0.1122119 | 0.29473017 | 2.2362464 | 21 | 4 7.3 | 19.8 |
| 276226 2002 $QQ_{130}$ | 15.7 | X | 239.82291 | 187.39173 | 136.71901 | 11.10503 | 0.0880109 | 0.19107370 | 2.9853971 | 21 | 3 21.1 | 20.3 |
| 276227 2002 $QG_{131}$ | 16.0 | X | 29.24127 | 322.12826 | 74.75080 | 4.17464 | 0.0704941 | 0.17008248 | 3.2262374 | 21 | — | — |
| 276228 2002 $QW_{135}$ | 16.1 | X | 95.65472 | 313.51030 | 118.69252 | 7.39471 | 0.1171721 | 0.18383237 | 3.0632897 | 21 | 2 28.1 | 20.2 |
| 276229 2002 $QX_{140}$ | 16.4 | X | 201.15850 | 351.07712 | 285.14422 | 8.80617 | 0.1020159 | 0.17806886 | 3.1290372 | 21 | — | — |
| 276230 2002 $QY_{141}$ | 15.9 | X | 209.53818 | 150.51565 | 202.18091 | 10.83676 | 0.0913677 | 0.18926821 | 3.0043528 | 21 | 3 19.7 | 20.5 |
| 276231 2002 $QQ_{143}$ | 17.7 | X | 327.44954 | 251.87486 | 128.84495 | 2.01512 | 0.2028135 | 0.26148901 | 2.4219607 | 21 | 9 29.4 | 19.4 |
| 276232 2002 $QH_{145}$ | 15.8 | X | 155.09335 | 327.54847 | 23.37863 | 12.43248 | 0.1548276 | 0.18080252 | 3.0974174 | 21 | 2 4.2 | 20.9 |
| 276233 2002 $RE_{30}$ | 17.2 | X | 58.15566 | 158.75057 | 234.32752 | 4.44668 | 0.1952959 | 0.27482298 | 2.3429734 | 21 | — | — |
| 276234 2002 $RC_{31}$ | 17.6 | X | 317.28424 | 83.28251 | 215.04405 | 4.20748 | 0.1863828 | 0.30298424 | 2.1954456 | 21 | 4 22.5 | 19.8 |
| 276235 2002 $RP_{38}$ | 17.3 | X | 233.61683 | 176.74788 | 198.07268 | 4.10090 | 0.1819297 | 0.29922070 | 2.2138165 | 21 | 4 29.8 | 20.5 |
| 276236 2002 $RF_{55}$ | 17.1 | X | 239.28808 | 160.82006 | 213.30593 | 5.61903 | 0.1664148 | 0.29894234 | 2.2151906 | 21 | 5 5.4 | 20.4 |
| 276237 2002 $RH_{56}$ | 17.5 | X | 160.50302 | 355.74846 | 328.79351 | 5.48918 | 0.1834055 | 0.28198032 | 2.3031569 | 21 | — | — |
| 276238 2002 $RV_{66}$ | 16.5 | X | 151.09607 | 69.38798 | 282.67113 | 5.90845 | 0.1571427 | 0.28342399 | 2.2953292 | 21 | 1 10.3 | 19.5 |
| 276239 2002 $RZ_{77}$ | 17.3 | X | 49.15194 | 346.44186 | 32.91216 | 0.99177 | 0.2351180 | 0.27174048 | 2.3606585 | 21 | — | — |
| 276240 2002 $RR_{91}$ | 17.6 | X | 321.50434 | 165.18358 | 162.48416 | 3.21632 | 0.1823223 | 0.30558992 | 2.1829479 | 21 | 6 18.6 | 19.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276241 2002 $RV_{95}$ | 16.8 | X | 128.85708 | 173.06420 | 184.98622 | 6.19706 | 0.1589067 | 0.28000584 | 2.3139714 | 21 | — | — |
| 276242 2002 $RM_{112}$ | 16.2 | X | 331.15105 | 146.98450 | 166.83501 | 15.39715 | 0.1531659 | 0.20234823 | 2.8734465 | 21 | 6 23.8 | 19.9 |
| 276243 2002 $RG_{117}$ | 17.7 | X | 247.35432 | 303.36685 | 348.67077 | 2.28361 | 0.1593701 | 0.29174969 | 2.2514507 | 21 | 1 28.2 | 21.0 |
| 276244 2002 $RM_{130}$ | 15.8 | X | 69.37669 | 205.98364 | 201.83813 | 16.79644 | 0.1963378 | 0.17505201 | 3.1648853 | 21 | — | — |
| 276245 2002 $RB_{155}$ | 15.9 | X | 120.86341 | 110.78162 | 292.95965 | 3.26076 | 0.1510379 | 0.18119032 | 3.0929962 | 21 | 2 25.4 | 20.3 |
| 276246 2002 $RJ_{155}$ | 15.7 | X | 231.92927 | 141.85081 | 185.80306 | 9.96636 | 0.1048178 | 0.18840285 | 3.0135454 | 21 | 3 12.4 | 20.4 |
| 276247 2002 $RE_{176}$ | 17.4 | X | 276.96454 | 326.38888 | 315.38460 | 6.65556 | 0.1715644 | 0.29467911 | 2.2365047 | 21 | 2 10.6 | 20.6 |
| 276248 2002 $RX_{191}$ | 17.4 | X | 48.99591 | 260.01775 | 11.31491 | 2.05956 | 0.1368356 | 0.31246297 | 2.1508181 | 21 | 9 24.8 | 19.4 |
| 276249 2002 $RF_{192}$ | 17.2 | X | 324.04712 | 313.62801 | 356.99015 | 5.97153 | 0.1095925 | 0.25241089 | 2.4796896 | 21 | 6 9.0 | 20.0 |
| 276250 2002 $RJ_{195}$ | 17.8 | X | 208.72605 | 300.02445 | 4.24721 | 5.99437 | 0.1298972 | 0.28709966 | 2.2756961 | 21 | 1 8.0 | 21.2 |
| 276251 2002 $RG_{203}$ | 17.3 | X | 151.27205 | 90.74051 | 254.36353 | 4.95596 | 0.2107826 | 0.28292706 | 2.2980161 | 21 | 1 7.9 | 20.4 |
| 276252 2002 $RL_{213}$ | 15.5 | X | 176.33584 | 204.55364 | 192.65049 | 9.21531 | 0.1882551 | 0.18898261 | 3.0073789 | 21 | 4 14.5 | 20.6 |
| 276253 2002 $RO_{214}$ | 17.0 | X | 230.07849 | 352.55643 | 23.42364 | 8.10464 | 0.0746845 | 0.29894367 | 2.2151840 | 21 | 5 2.4 | 19.9 |
| 276254 2002 $RB_{217}$ | 17.9 | X | 181.79423 | 34.38129 | 287.22778 | 1.19208 | 0.2239103 | 0.28641347 | 2.2793294 | 21 | 1 9.2 | 21.4 |
| 276255 2002 $RM_{225}$ | 15.5 | X | 79.40398 | 241.79765 | 184.03969 | 26.45454 | 0.2530108 | 0.17636876 | 3.1491132 | 21 | 2 14.3 | 19.8 |
| 276256 2002 $RU_{225}$ | 17.6 | X | 312.74198 | 25.55697 | 277.68909 | 3.84499 | 0.2191554 | 0.30282234 | 2.1962281 | 21 | 4 14.8 | 20.2 |
| 276257 2002 $RH_{242}$ | 15.7 | X | 146.53140 | 59.53116 | 265.61002 | 4.70990 | 0.1711866 | 0.17634339 | 3.1494153 | 21 | — | — |
| 276258 2002 $RT_{244}$ | 17.8 | X | 59.56973 | 283.17129 | 98.86482 | 2.19606 | 0.1923323 | 0.27400903 | 2.3476110 | 21 | — | — |
| 276259 2002 $RV_{252}$ | 18.3 | X | 252.43985 | 84.79960 | 214.11675 | 2.95676 | 0.1993554 | 0.29349152 | 2.2425338 | 21 | 2 6.8 | 21.8 |
| 276260 2002 $RD_{271}$ | 16.1 | X | 81.40946 | 226.93290 | 178.98051 | 4.28662 | 0.1241607 | 0.17729881 | 3.1380908 | 21 | 1 7.6 | 20.1 |
| 276261 2002 $RH_{274}$ | 16.5 | X | 258.54391 | 200.13690 | 118.75936 | 3.77663 | 0.1053651 | 0.19275451 | 2.9680168 | 21 | 3 31.5 | 20.9 |
| 276262 2002 $RV_{274}$ | 15.6 | X | 261.42353 | 81.07596 | 129.95806 | 6.24148 | 0.1154088 | 0.17826930 | 3.1266914 | 21 | — | — |
| 276263 2002 $RT_{277}$ | 15.7 | X | 246.08278 | 318.37056 | 282.05204 | 8.79319 | 0.0507129 | 0.17817643 | 3.1277777 | 21 | — | — |
| 276264 2002 $RW_{278}$ | 16.7 | X | 165.36890 | 140.16287 | 224.87068 | 8.25190 | 0.0912543 | 0.18355657 | 3.0663573 | 21 | 2 17.2 | 21.5 |
| 276265 2002 $RE_{280}$ | 15.7 | X | 4.89579 | 352.78539 | 179.65656 | 15.60680 | 0.0471287 | 0.18493279 | 3.0511257 | 21 | 2 16.5 | 19.9 |
| 276266 2002 $RQ_{282}$ | 16.1 | X | 80.28265 | 33.68494 | 10.46405 | 9.02483 | 0.0302838 | 0.17742016 | 3.1366597 | 21 | — | — |
| 276267 2002 $SG_{8}$ | 15.5 | X | 105.20806 | 41.93704 | 16.32522 | 9.38217 | 0.0761401 | 0.17906830 | 3.1173836 | 21 | 2 19.7 | 19.9 |
| 276268 2002 $SH_{9}$ | 16.0 | X | 126.14392 | 335.84260 | 32.93719 | 2.10845 | 0.1694851 | 0.17602111 | 3.1532583 | 21 | 1 25.7 | 20.8 |
| 276269 2002 $SU_{18}$ | 17.3 | X | 58.27988 | 349.79378 | 28.11640 | 3.89508 | 0.1904713 | 0.27242209 | 2.3567192 | 21 | — | — |
| 276270 2002 $SZ_{23}$ | 15.2 | X | 152.60727 | 282.83959 | 67.72117 | 14.36997 | 0.2015599 | 0.17880353 | 3.1204603 | 21 | 2 4.7 | 20.4 |
| 276271 2002 $SX_{28}$ | 15.5 | X | 131.33946 | 14.09492 | 23.14990 | 25.21394 | 0.2364830 | 0.18018959 | 3.1044374 | 21 | 3 20.3 | 20.7 |
| 276272 2002 $SG_{33}$ | 15.6 | X | 222.13956 | 116.28404 | 222.99935 | 7.19997 | 0.1154935 | 0.18611176 | 3.0382267 | 21 | 3 14.9 | 20.5 |
| 276273 2002 $SR_{33}$ | 17.3 | X | 241.73215 | 348.75140 | 356.06770 | 2.48526 | 0.1955592 | 0.29517615 | 2.2339934 | 21 | 3 27.9 | 20.6 |
| 276274 2002 $SS_{41}$ | 17.2 | X | 99.27347 | 101.78466 | 190.10581 | 63.68723 | 0.3826308 | 0.32283756 | 2.1044891 | 21 | 12 27.3 | 22.6 |
| 276275 2002 $SA_{58}$ | 16.9 | X | 210.46950 | 247.08416 | 133.57803 | 7.23589 | 0.1621334 | 0.29383284 | 2.2407969 | 21 | 4 19.0 | 20.4 |
| 276276 2002 $SX_{60}$ | 17.2 | X | 224.91023 | 324.32474 | 66.48916 | 4.64612 | 0.2347694 | 0.24580485 | 2.5239209 | 21 | 5 12.5 | 21.5 |
| 276277 2002 $SL_{65}$ | 15.5 | X | 56.95764 | 218.68950 | 231.19457 | 26.64093 | 0.1346843 | 0.17824312 | 3.1269975 | 21 | 1 17.9 | 19.9 |
| 276278 2002 $SF_{66}$ | 17.3 | X | 198.47806 | 308.14720 | 103.21158 | 5.83222 | 0.0093302 | 0.30036521 | 2.2081893 | 21 | 5 17.3 | 19.8 |
| 276279 2002 $SH_{72}$ | 16.3 | X | 89.04313 | 187.47252 | 201.50937 | 5.52112 | 0.0890600 | 0.17540253 | 3.1606675 | 21 | — | — |
| 276280 2002 $TO_{1}$ | 17.2 | X | 348.46494 | 117.72037 | 206.81362 | 5.34918 | 0.1924100 | 0.30797584 | 2.1716589 | 21 | 8 20.1 | 18.4 |
| 276281 2002 $TN_{3}$ | 17.4 | X | 105.65071 | 314.14500 | 26.70887 | 2.94763 | 0.2191018 | 0.27479174 | 2.3431509 | 21 | — | — |
| 276282 2002 $TN_{8}$ | 17.3 | X | 179.84805 | 41.83553 | 356.02239 | 3.04587 | 0.1703850 | 0.29186256 | 2.2508703 | 21 | 4 8.7 | 20.6 |
| 276283 2002 $TQ_{12}$ | 16.2 | X | 257.77071 | 276.18411 | 56.10187 | 3.68403 | 0.2231376 | 0.19260262 | 2.9695770 | 21 | 4 4.2 | 21.1 |
| 276284 2002 $TE_{16}$ | 15.0 | X | 152.76579 | 162.70266 | 183.30585 | 8.81709 | 0.1885930 | 0.12550233 | 3.9509499 | 21 | 1 31.1 | 21.3 |
| 276285 2002 $TB_{19}$ | 17.6 | X | 227.36430 | 298.12409 | 356.26547 | 4.11534 | 0.2307625 | 0.28840512 | 2.2688236 | 21 | 1 13.9 | 21.5 |
| 276286 2002 $TG_{19}$ | 17.2 | X | 30.63691 | 213.73108 | 198.37230 | 2.03962 | 0.1700014 | 0.27160563 | 2.3614397 | 21 | — | — |
| 276287 2002 $TU_{20}$ | 17.2 | X | 139.16221 | 210.08739 | 123.16585 | 2.69428 | 0.2301679 | 0.27922805 | 2.3182665 | 21 | — | — |
| 276288 2002 $TS_{30}$ | 17.3 | X | 342.20553 | 29.77009 | 13.73084 | 2.61365 | 0.2342006 | 0.26197296 | 2.4189770 | 21 | 12 15.8 | 19.0 |
| 276289 2002 $TH_{37}$ | 17.7 | X | 198.88883 | 136.20586 | 229.63236 | 1.06157 | 0.2117869 | 0.29021765 | 2.2593673 | 21 | 3 17.6 | 21.2 |
| 276290 2002 $TW_{45}$ | 17.0 | X | 97.20334 | 317.60731 | 20.95745 | 4.92831 | 0.2583572 | 0.27271333 | 2.3550410 | 21 | — | — |
| 276291 2002 $TL_{59}$ | 17.3 | X | 0.09515 | 159.25466 | 210.30721 | 22.03808 | 0.0281068 | 0.36759295 | 1.9300028 | 21 | 11 28.8 | 19.3 |
| 276292 2002 $TW_{76}$ | 17.2 | X | 224.20587 | 127.44980 | 252.05511 | 2.34682 | 0.1770529 | 0.29593647 | 2.2301653 | 21 | 4 26.2 | 20.4 |
| 276293 2002 $TZ_{90}$ | 17.3 | X | 255.39245 | 84.60291 | 249.33207 | 2.62826 | 0.2120713 | 0.29565407 | 2.2315852 | 21 | 3 24.4 | 20.8 |
| 276294 2002 $TD_{91}$ | 15.3 | X | 179.51812 | 164.85122 | 220.97119 | 8.54841 | 0.1457972 | 0.18454597 | 3.0553878 | 21 | 3 31.4 | 20.3 |
| 276295 2002 $TV_{95}$ | 17.3 | X | 318.63293 | 97.70559 | 230.97078 | 6.79236 | 0.2548887 | 0.30552771 | 2.1832442 | 21 | 5 30.8 | 19.0 |
| 276296 2002 $TA_{96}$ | 16.9 | X | 263.00260 | 54.66650 | 258.06582 | 4.93864 | 0.1813563 | 0.29461299 | 2.2368393 | 21 | 3 5.4 | 20.4 |
| 276297 2002 $TZ_{96}$ | 17.5 | X | 295.18366 | 257.77164 | 84.49296 | 8.27916 | 0.2787230 | 0.30314645 | 2.1946624 | 21 | 5 11.7 | 20.2 |
| 276298 2002 $TR_{102}$ | 17.4 | X | 203.69821 | 98.85904 | 218.40743 | 4.77299 | 0.1909730 | 0.28681624 | 2.2771950 | 21 | 1 19.6 | 21.0 |
| 276299 2002 $TC_{117}$ | 17.3 | X | 199.27078 | 57.19743 | 288.93519 | 5.92943 | 0.0977108 | 0.28840295 | 2.2688350 | 21 | 2 16.1 | 20.4 |
| 276300 2002 $TP_{118}$ | 16.3 | X | 65.61408 | 344.64200 | 324.18835 | 7.42909 | 0.2127264 | 0.21318756 | 2.7752033 | 21 | 11 30.0 | 20.6 |
| 276301 2002 $TQ_{120}$ | 16.9 | X | 176.35058 | 187.86221 | 271.07151 | 5.99996 | 0.2488789 | 0.24335321 | 2.5408440 | 21 | 6 27.2 | 21.2 |
| 276302 2002 $TN_{122}$ | 16.9 | X | 249.91045 | 71.13734 | 293.81361 | 7.92875 | 0.1897004 | 0.24719423 | 2.5144548 | 21 | 5 1.9 | 21.0 |
| 276303 2002 $TU_{122}$ | 15.2 | X | 171.54851 | 168.26736 | 236.38820 | 11.16315 | 0.1114430 | 0.18836043 | 3.0139978 | 21 | 4 13.5 | 20.0 |
| 276304 2002 $TK_{131}$ | 15.5 | X | 237.66588 | 189.68740 | 215.28979 | 11.44945 | 0.0540385 | 0.19687501 | 2.9264581 | 21 | 6 26.9 | 19.9 |
| 276305 2002 $TB_{140}$ | 15.4 | X | 175.48158 | 175.67581 | 207.75706 | 12.72702 | 0.0640186 | 0.18394975 | 3.0619863 | 21 | 3 21.1 | 20.1 |
| 276306 2002 $TG_{145}$ | 16.6 | X | 201.59057 | 208.63397 | 144.20556 | 1.86817 | 0.1715617 | 0.18602973 | 3.0391198 | 21 | 3 14.3 | 21.7 |
| 276307 2002 $TB_{146}$ | 17.2 | X | 136.45176 | 143.60659 | 206.20387 | 6.19490 | 0.1638525 | 0.28049010 | 2.3113073 | 21 | — | — |
| 276308 2002 $TT_{157}$ | 15.6 | X | 116.23302 | 308.92644 | 96.10898 | 12.43591 | 0.0891129 | 0.17791722 | 3.1308150 | 21 | 2 18.9 | 20.2 |
| 276309 2002 $TC_{159}$ | 15.5 | X | 161.29103 | 277.04003 | 94.33121 | 11.94304 | 0.0847997 | 0.18010900 | 3.1053634 | 21 | 2 28.2 | 20.3 |
| 276310 2002 $TG_{160}$ | 15.5 | X | 71.17805 | 262.88617 | 142.52785 | 13.67827 | 0.1468828 | 0.17070064 | 3.2184440 | 21 | — | — |
| 276311 2002 $TK_{160}$ | 15.4 | X | 119.04778 | 275.44091 | 108.57939 | 12.73801 | 0.0827872 | 0.17507940 | 3.1645553 | 21 | 1 24.8 | 20.0 |
| 276312 2002 $TP_{165}$ | 14.6 | X | 149.08778 | 10.81089 | 295.51085 | 15.88769 | 0.1678398 | 0.17394686 | 3.1782764 | 21 | — | — |
| 276313 2002 $TZ_{166}$ | 16.6 | X | 130.93417 | 81.36568 | 294.39852 | 10.33145 | 0.1476539 | 0.28280319 | 2.2986870 | 21 | 1 15.6 | 19.4 |
| 276314 2002 $TG_{169}$ | 15.7 | X | 302.70881 | 78.53946 | 234.95823 | 13.59790 | 0.1741505 | 0.19625738 | 2.9325947 | 21 | 5 4.3 | 19.7 |
| 276315 2002 $TJ_{171}$ | 15.5 | X | 205.96945 | 114.45723 | 231.61543 | 14.95739 | 0.2585526 | 0.18577784 | 3.0418662 | 21 | 3 3.7 | 21.2 |
| 276316 2002 $TQ_{174}$ | 17.1 | X | 231.48275 | 228.07772 | 143.78887 | 7.89117 | 0.1413128 | 0.29668136 | 2.2264309 | 21 | 4 28.9 | 20.4 |
| 276317 2002 $TV_{178}$ | 14.6 | X | 235.89885 | 88.89336 | 258.79154 | 11.75431 | 0.2832420 | 0.18795115 | 3.0183718 | 21 | 3 25.9 | 20.2 |
| 276318 2002 $TN_{180}$ | 15.7 | X | 140.49701 | 156.65621 | 213.10644 | 17.05185 | 0.1883865 | 0.17806143 | 3.1291242 | 21 | 2 5.8 | 20.9 |
| 276319 2002 $TJ_{187}$ | 15.7 | X | 121.42846 | 182.60607 | 201.73024 | 17.31978 | 0.1983123 | 0.17736757 | 3.1372797 | 21 | 2 6.1 | 20.7 |
| 276320 2002 $TY_{195}$ | 16.9 | X | 170.58694 | 9.23685 | 38.40303 | 6.07469 | 0.1815830 | 0.28908973 | 2.2652403 | 21 | 4 14.9 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276321 2002 $TN_{197}$ | 17.2 | X | 255.38525 | 46.52856 | 275.26217 | 3.66979 | 0.1813250 | 0.29443885 | 2.2377212 | 21 | 3 10.4 | 20.6 |
| 276322 2002 $TC_{205}$ | 16.9 | X | 227.18708 | 196.70905 | 89.13618 | 7.43712 | 0.1943601 | 0.28578462 | 2.2826718 | 21 | 1 2.8 | 20.6 |
| 276323 2002 $TR_{205}$ | 15.5 | X | 68.30172 | 100.50065 | 224.91791 | 13.83710 | 0.2970448 | 0.21562653 | 2.7542366 | 21 | 12 30.7 | 20.2 |
| 276324 2002 $TL_{208}$ | 16.8 | X | 201.79904 | 139.29237 | 271.73554 | 2.81464 | 0.2492063 | 0.24190543 | 2.5509717 | 21 | 5 18.0 | 21.2 |
| 276325 2002 $TJ_{212}$ | 15.6 | X | 253.58518 | 246.65260 | 87.30294 | 11.19581 | 0.1101608 | 0.19146203 | 2.9813590 | 21 | 4 16.9 | 20.2 |
| 276326 2002 $TH_{217}$ | 16.9 | X | 42.59719 | 203.21253 | 355.29549 | 3.63151 | 0.1034402 | 0.24398883 | 2.5364293 | 21 | 5 15.6 | 19.8 |
| 276327 2002 $TE_{242}$ | 16.6 | X | 316.43353 | 278.80138 | 125.59890 | 9.24915 | 0.0859140 | 0.25849940 | 2.4405986 | 21 | 10 23.4 | 19.4 |
| 276328 2002 $TY_{249}$ | 15.6 | X | 266.52836 | 240.04875 | 24.92890 | 10.57427 | 0.1148647 | 0.18238889 | 3.0794309 | 21 | 2 6.3 | 20.4 |
| 276329 2002 $TM_{251}$ | 15.7 | X | 164.95648 | 217.83583 | 158.93322 | 6.04439 | 0.1653005 | 0.18166939 | 3.0875563 | 21 | 3 11.3 | 20.6 |
| 276330 2002 $TH_{253}$ | 17.0 | X | 218.74015 | 188.50495 | 198.45656 | 14.95622 | 0.1235676 | 0.24361838 | 2.5389999 | 21 | 5 8.4 | 20.9 |
| 276331 2002 $TL_{255}$ | 16.6 | X | 35.35185 | 245.94448 | 208.70613 | 21.09018 | 0.3853422 | 0.27313119 | 2.3526384 | 21 | — | — |
| 276332 2002 $TD_{259}$ | 15.2 | X | 136.82681 | 9.13109 | 54.74643 | 25.57998 | 0.1510604 | 0.18032537 | 3.1028789 | 21 | 4 18.2 | 20.3 |
| 276333 2002 $TJ_{265}$ | 17.6 | X | 135.37824 | 33.50569 | 17.16395 | 4.87188 | 0.1001979 | 0.28698134 | 2.2763215 | 21 | 3 3.6 | 20.4 |
| 276334 2002 $TS_{271}$ | 15.0 | X | 351.79646 | 285.60902 | 212.69756 | 15.10914 | 0.0188154 | 0.17367355 | 3.1816099 | 21 | — | — |
| 276335 2002 $TP_{298}$ | 17.0 | X | 223.52645 | 30.57815 | 338.36297 | 4.31455 | 0.1688416 | 0.24083971 | 2.5584915 | 21 | 4 15.1 | 21.3 |
| 276336 2002 $TY_{305}$ | 16.0 | X | 323.23392 | 98.11583 | 127.12524 | 7.02599 | 0.1455353 | 0.18365293 | 3.0652847 | 21 | 2 16.7 | 19.9 |
| 276337 2002 $TK_{309}$ | 15.8 | X | 171.18417 | 131.62619 | 174.76245 | 16.18246 | 0.0624932 | 0.17264834 | 3.1941926 | 21 | — | — |
| 276338 2002 $TJ_{314}$ | 15.2 | X | 140.55941 | 274.17744 | 101.36239 | 10.50954 | 0.1148956 | 0.17700879 | 3.1415176 | 21 | 2 12.8 | 20.0 |
| 276339 2002 $TN_{326}$ | 15.8 | X | 99.16026 | 325.69195 | 181.69106 | 9.87928 | 0.1608647 | 0.19082256 | 2.9880159 | 21 | 6 11.4 | 20.3 |
| 276340 2002 $TF_{328}$ | 15.5 | X | 126.37496 | 24.51719 | 16.14898 | 15.55283 | 0.1078678 | 0.18047337 | 3.1011823 | 21 | 3 1.9 | 20.2 |
| 276341 2002 $TY_{346}$ | 15.6 | X | 137.17457 | 306.50728 | 66.34333 | 10.27701 | 0.1723410 | 0.17726479 | 3.1384923 | 21 | 2 13.8 | 20.6 |
| 276342 2002 $TM_{350}$ | 15.7 | X | 109.01754 | 142.05253 | 222.55346 | 8.79375 | 0.0825918 | 0.17610377 | 3.1522714 | 21 | — | — |
| 276343 2002 $TY_{353}$ | 16.3 | X | 98.61267 | 216.90432 | 192.96997 | 13.00694 | 0.0377104 | 0.17960357 | 3.1111867 | 21 | 1 20.8 | 20.9 |
| 276344 2002 $TM_{360}$ | 17.4 | X | 144.24806 | 277.34282 | 176.23778 | 4.92210 | 0.0839034 | 0.29486512 | 2.2355640 | 21 | 5 10.2 | 20.2 |
| 276345 2002 $TM_{368}$ | 17.2 | X | 148.90821 | 307.83069 | 105.91459 | 7.08029 | 0.0941251 | 0.28836204 | 2.2690496 | 21 | 3 25.9 | 20.3 |
| 276346 2002 $TP_{376}$ | 15.0 | X | 99.37441 | 331.15692 | 62.30704 | 28.70526 | 0.1753411 | 0.17302111 | 3.1896032 | 21 | 1 30.7 | 19.9 |
| 276347 2002 $TB_{378}$ | 15.9 | X | 198.40686 | 174.14692 | 182.56730 | 9.76974 | 0.0867402 | 0.18273721 | 3.0755164 | 21 | 3 15.2 | 20.7 |
| 276348 2002 $TW_{380}$ | 16.2 | X | 176.81015 | 21.30944 | 7.92392 | 1.93123 | 0.0354643 | 0.18659554 | 3.0329730 | 21 | 3 30.1 | 20.5 |
| 276349 2002 $TL_{385}$ | 17.7 | X | 322.39965 | 245.71659 | 77.41819 | 7.58533 | 0.2171240 | 0.30354277 | 2.1927517 | 21 | 6 5.9 | 19.1 |
| 276350 2002 $US_{3}$ | 16.7 | X | 223.36446 | 343.14004 | 36.16147 | 14.40186 | 0.1915700 | 0.24308893 | 2.5426852 | 21 | 4 28.2 | 20.7 |
| 276351 2002 $UT_{14}$ | 15.5 | X | 137.52349 | 232.11122 | 137.16499 | 18.10346 | 0.2365964 | 0.17654978 | 3.1469603 | 21 | 2 12.9 | 20.6 |
| 276352 2002 $UX_{17}$ | 15.6 | X | 177.95052 | 315.78501 | 31.33280 | 9.18192 | 0.1121826 | 0.17924902 | 3.1152879 | 21 | 2 17.7 | 20.6 |
| 276353 2002 $UY_{20}$ | 17.3 | X | 63.30520 | 36.71136 | 23.30578 | 4.24626 | 0.1558395 | 0.27568386 | 2.3380932 | 21 | — | — |
| 276354 2002 $UV_{38}$ | 15.5 | X | 197.32233 | 298.52203 | 42.89593 | 14.27273 | 0.2551156 | 0.18177243 | 3.0863893 | 21 | 3 5.3 | 21.2 |
| 276355 2002 $UV_{51}$ | 15.7 | X | 63.03595 | 205.36324 | 212.43987 | 14.63971 | 0.1959776 | 0.17568333 | 3.1572988 | 21 | 1 1.4 | 19.6 |
| 276356 2002 $UQ_{52}$ | 15.8 | X | 201.09002 | 184.52718 | 176.35992 | 12.24987 | 0.1144220 | 0.18519802 | 3.0482119 | 21 | 3 23.6 | 20.6 |
| 276357 2002 $UK_{55}$ | 16.3 | X | 325.70153 | 99.70136 | 130.59479 | 8.40822 | 0.1192466 | 0.18364629 | 3.0653586 | 21 | 3 2.9 | 20.3 |
| 276358 2002 $UT_{69}$ | 15.6 | X | 191.33965 | 287.02301 | 69.46279 | 14.76725 | 0.0561640 | 0.18191627 | 3.0847621 | 21 | 3 15.9 | 20.5 |
| 276359 2002 $UW_{72}$ | 17.3 | X | 302.03727 | 108.52412 | 219.79610 | 4.67604 | 0.1257255 | 0.30100985 | 2.2050355 | 21 | 5 25.6 | 19.7 |
| 276360 2002 $VB_{4}$ | 17.5 | X | 108.86434 | 303.85454 | 35.45650 | 5.45322 | 0.2766207 | 0.27410734 | 2.3470496 | 21 | — | — |
| 276361 2002 $VG_{5}$ | 17.3 | X | 129.44810 | 338.49562 | 55.19878 | 3.24268 | 0.1387954 | 0.28179232 | 2.3041811 | 21 | 2 7.2 | 20.1 |
| 276362 2002 $VD_{18}$ | 16.0 | X | 176.16557 | 278.13867 | 83.30015 | 2.02216 | 0.2044807 | 0.18086060 | 3.0967542 | 21 | 3 5.4 | 21.3 |
| 276363 2002 $VD_{20}$ | 17.3 | X | 122.92537 | 140.27809 | 212.09769 | 5.43790 | 0.2196970 | 0.27658951 | 2.3329866 | 21 | — | — |
| 276364 2002 $VN_{20}$ | 16.8 | X | 210.49317 | 113.62948 | 246.57484 | 4.74371 | 0.1734554 | 0.28867599 | 2.2674042 | 21 | 3 18.5 | 20.4 |
| 276365 2002 $VJ_{24}$ | 17.2 | X | 47.05672 | 25.41540 | 58.00167 | 6.09918 | 0.2042972 | 0.27406299 | 2.3473028 | 21 | — | — |
| 276366 2002 $VC_{37}$ | 17.5 | X | 40.69120 | 219.11216 | 161.39813 | 3.52725 | 0.2069745 | 0.26792459 | 2.3830199 | 21 | — | — |
| 276367 2002 $VG_{38}$ | 17.1 | X | 110.92886 | 26.59049 | 18.83482 | 9.53143 | 0.1185221 | 0.28069415 | 2.3101870 | 21 | 1 27.7 | 19.9 |
| 276368 2002 $VA_{45}$ | 16.9 | X | 51.72599 | 346.49826 | 33.96569 | 6.39528 | 0.1223230 | 0.26898799 | 2.3767351 | 21 | — | — |
| 276369 2002 $VB_{45}$ | 15.3 | X | 135.81992 | 202.85254 | 243.86139 | 8.50141 | 0.0649055 | 0.18388161 | 3.0627428 | 21 | 4 24.4 | 19.9 |
| 276370 2002 $VO_{45}$ | 16.7 | X | 299.94846 | 33.02146 | 230.23545 | 10.58117 | 0.0431733 | 0.28796736 | 2.2711224 | 21 | 2 26.3 | 19.7 |
| 276371 2002 $VQ_{59}$ | 17.1 | X | 332.77263 | 297.10066 | 118.73182 | 3.83287 | 0.2007459 | 0.26086144 | 2.4258436 | 21 | 12 9.4 | 18.9 |
| 276372 2002 $VD_{73}$ | 17.0 | X | 111.95083 | 344.79451 | 71.01055 | 5.91179 | 0.1555846 | 0.28131113 | 2.3068079 | 21 | 2 17.7 | 19.7 |
| 276373 2002 $VR_{83}$ | 17.1 | X | 134.02928 | 312.06817 | 89.99935 | 6.34434 | 0.1861207 | 0.28198440 | 2.3031347 | 21 | 3 4.5 | 20.2 |
| 276374 2002 $VY_{87}$ | 16.5 | X | 39.07517 | 49.63707 | 47.38189 | 23.57387 | 0.1974578 | 0.27399195 | 2.3477085 | 21 | — | — |
| 276375 2002 $VU_{92}$ | 17.3 | X | 123.56208 | 163.63514 | 184.23716 | 3.95760 | 0.1615605 | 0.27513036 | 2.3412280 | 21 | — | — |
| 276376 2002 $VN_{101}$ | 17.0 | X | 69.73387 | 326.69726 | 98.29679 | 4.27131 | 0.2195509 | 0.27485590 | 2.3427863 | 21 | — | — |
| 276377 2002 $VV_{102}$ | 16.6 | X | 225.50572 | 98.61994 | 250.55834 | 5.37115 | 0.1524021 | 0.29075884 | 2.2565628 | 21 | 3 18.0 | 20.0 |
| 276378 2002 $VV_{115}$ | 16.8 | X | 140.90756 | 39.43197 | 308.24392 | 5.77243 | 0.1536781 | 0.27869993 | 2.3211942 | 21 | — | — |
| 276379 2002 $VB_{126}$ | 16.6 | X | 102.33431 | 252.63199 | 196.14476 | 22.78330 | 0.2653520 | 0.28282277 | 2.2985810 | 21 | 4 6.0 | 19.0 |
| 276380 2002 $VS_{127}$ | 15.2 | X | 162.24691 | 281.74616 | 76.36879 | 22.64137 | 0.2017013 | 0.17750733 | 3.1356328 | 21 | 2 26.7 | 20.8 |
| 276381 2002 $VM_{142}$ | 17.7 | X | 62.91575 | 21.26771 | 91.14062 | 3.59155 | 0.1106445 | 0.28133375 | 2.3066843 | 21 | 2 9.5 | 19.8 |
| 276382 2002 $VN_{143}$ | 15.6 | X | 175.04007 | 161.25802 | 207.54225 | 11.40497 | 0.0735078 | 0.17911044 | 3.1168946 | 21 | 3 3.3 | 20.5 |
| 276383 2002 $VO_{145}$ | 17.7 | X | 133.96080 | 143.97258 | 200.67869 | 6.05449 | 0.1723681 | 0.27708804 | 2.3301875 | 21 | — | — |
| 276384 2002 $WJ_{2}$ | 17.4 | X | 98.78975 | 183.92086 | 237.70273 | 6.98495 | 0.0805325 | 0.27937721 | 2.3174412 | 21 | 1 20.6 | 20.1 |
| 276385 2002 $WG_{4}$ | 15.6 | X | 165.26408 | 122.57497 | 248.64926 | 11.61059 | 0.2525069 | 0.17883433 | 3.1201020 | 21 | 3 4.2 | 21.2 |
| 276386 2002 $WD_{22}$ | 15.6 | X | 18.78234 | 156.29023 | 226.15603 | 9.53674 | 0.1082422 | 0.15748102 | 3.3961269 | 21 | 12 7.5 | 20.1 |
| 276387 2002 $WO_{25}$ | 17.7 | X | 93.35897 | 173.38277 | 176.42694 | 2.75711 | 0.1913022 | 0.27084151 | 2.3658792 | 21 | — | — |
| 276388 2002 $WX_{27}$ | 15.2 | X | 159.99687 | 272.42723 | 78.34170 | 11.69155 | 0.0533612 | 0.17248503 | 3.1962085 | 21 | 1 30.0 | 20.0 |
| 276389 2002 $WV_{28}$ | 17.6 | X | 197.05753 | 166.66889 | 215.55742 | 5.73941 | 0.1078085 | 0.29001904 | 2.2603987 | 21 | 4 3.3 | 20.9 |
| 276390 2002 $WJ_{31}$ | 17.4 | X | 72.76162 | 258.03808 | 181.53843 | 6.42763 | 0.0932289 | 0.27681116 | 2.3317411 | 21 | 1 7.3 | 19.8 |
| 276391 2002 $XK$ | 17.4 | X | 218.63792 | 140.03545 | 221.05130 | 4.15262 | 0.1862182 | 0.29089072 | 2.2558808 | 21 | 3 27.8 | 20.9 |
| 276392 2002 $XH_{4}$ | 19.4 | X | 134.75106 | 213.71644 | 93.46602 | 14.52109 | 0.2706431 | 0.48319283 | 1.6083815 | 21 | — | — |
| 276393 2002 $XZ_{5}$ | 16.4 | X | 105.45826 | 349.73878 | 126.03537 | 8.82152 | 0.1398338 | 0.23380442 | 2.6095617 | 21 | 5 6.4 | 20.1 |
| 276394 2002 $XF_{8}$ | 16.9 | X | 157.09144 | 21.00346 | 67.99004 | 14.75021 | 0.2175816 | 0.23758603 | 2.5817972 | 21 | 5 29.4 | 21.1 |
| 276395 2002 $XK_{17}$ | 16.0 | X | 233.69131 | 54.49243 | 289.10031 | 10.42101 | 0.2055214 | 0.23825815 | 2.5769394 | 21 | 3 18.6 | 20.5 |
| 276396 2002 $XG_{18}$ | 17.0 | X | 86.39802 | 344.03626 | 80.78222 | 8.69900 | 0.1973224 | 0.27691199 | 2.3311750 | 21 | 1 26.6 | 19.1 |
| 276397 2002 $XA_{40}$ | 17.1 | X | 202.28096 | 66.88624 | 300.56058 | 4.44827 | 0.4801248 | 0.28922863 | 2.2645150 | 21 | 3 23.3 | 21.9 |
| 276398 2002 $XM_{41}$ | 16.8 | X | 293.90312 | 66.31079 | 267.22270 | 5.29753 | 0.2078907 | 0.29796923 | 2.2200109 | 21 | 5 5.3 | 19.7 |
| 276399 2002 $XR_{44}$ | 15.6 | X | 81.56069 | 340.58061 | 83.81921 | 6.61283 | 0.1510057 | 0.17249171 | 3.1961261 | 21 | 2 6.5 | 19.8 |
| 276400 2002 $XS_{45}$ | 16.4 | X | 320.56104 | 300.98232 | 44.29270 | 5.63386 | 0.2798474 | 0.30336248 | 2.1936204 | 21 | 6 28.0 | 17.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276401 2002 $XQ_{51}$ | 17.0 | X | 2.43122 | 290.95374 | 91.91607 | 3.38517 | 0.1873711 | 0.25994542 | 2.4315392 | 21 | 12 18.7 | 19.4 |
| 276402 2002 $XA_{72}$ | 17.1 | X | 120.71165 | 22.88609 | 29.06748 | 5.42444 | 0.2015979 | 0.28121673 | 2.3073241 | 21 | 3 3.1 | 20.0 |
| 276403 2002 $XF_{87}$ | 16.3 | X | 251.37555 | 350.62420 | 17.20639 | 4.51925 | 0.1847285 | 0.29356232 | 2.2421733 | 21 | 5 6.8 | 19.4 |
| 276404 2002 $XL_{88}$ | 15.9 | X | 299.16966 | 55.67256 | 325.07510 | 5.74453 | 0.2056013 | 0.25111718 | 2.4881989 | 21 | 7 27.1 | 18.4 |
| 276405 2002 $XJ_{95}$ | 17.7 | X | 41.01366 | 11.37535 | 63.65596 | 2.29947 | 0.1548146 | 0.27248073 | 2.3563810 | 21 | — | — |
| 276406 2002 $XB_{96}$ | 16.9 | X | 115.78221 | 225.77772 | 229.79460 | 5.48102 | 0.0717436 | 0.28601036 | 2.2814706 | 21 | 3 31.9 | 19.7 |
| 276407 2002 $XP_{100}$ | 17.6 | X | 11.56301 | 29.15263 | 354.25412 | 1.40769 | 0.1999188 | 0.26189728 | 2.4194430 | 21 | — | — |
| 276408 2002 $XG_{116}$ | 16.6 | X | 310.54661 | 66.61879 | 132.03898 | 7.30183 | 0.0591071 | 0.26684874 | 2.3894206 | 21 | — | — |
| 276409 2002 $YN_{2}$ | 18.5 | X | 189.11139 | 38.46238 | 290.69648 | 50.26564 | 0.5872784 | 0.71147513 | 1.2426903 | 21 | 1 3.6 | 18.3 |
| 276410 2002 $YU_{16}$ | 17.0 | X | 111.00381 | 320.59682 | 70.26202 | 3.38803 | 0.2264088 | 0.27742786 | 2.3282843 | 21 | 1 23.2 | 19.5 |
| 276411 2002 $YV_{27}$ | 16.8 | X | 83.86349 | 122.00443 | 278.38230 | 5.66409 | 0.1729058 | 0.27137441 | 2.3627809 | 21 | — | — |
| 276412 2002 $YR_{30}$ | 16.0 | X | 211.01515 | 193.69937 | 281.25149 | 4.78554 | 0.1704291 | 0.24514784 | 2.5284285 | 21 | 8 17.1 | 19.9 |
| 276413 2003 $AS_{12}$ | 16.9 | X | 152.42864 | 241.96094 | 163.23407 | 7.84520 | 0.1403967 | 0.28235134 | 2.3011388 | 21 | 3 21.7 | 20.0 |
| 276414 2003 $AY_{20}$ | 17.0 | X | 158.01319 | 18.91196 | 1.91215 | 2.49678 | 0.2271916 | 0.28102096 | 2.3083956 | 21 | 3 3.7 | 20.5 |
| 276415 2003 $AU_{24}$ | 15.5 | X | 231.20670 | 327.83717 | 90.77333 | 11.46146 | 0.0949797 | 0.18945377 | 3.0023907 | 21 | 7 3.7 | 20.1 |
| 276416 2003 $AV_{43}$ | 16.2 | X | 138.73130 | 349.56364 | 87.08806 | 15.18723 | 0.2230037 | 0.23159342 | 2.6261442 | 21 | 5 4.1 | 20.6 |
| 276417 2003 $AY_{46}$ | 16.3 | X | 159.15361 | 321.51987 | 83.05157 | 7.70909 | 0.1800525 | 0.23022577 | 2.6365343 | 21 | 4 8.0 | 20.6 |
| 276418 2003 $AS_{53}$ | 16.6 | X | 354.88456 | 55.82676 | 83.88631 | 7.48057 | 0.0886443 | 0.26881808 | 2.3777365 | 21 | — | — |
| 276419 2003 $AA_{59}$ | 16.9 | X | 213.04720 | 343.81729 | 104.50376 | 7.23017 | 0.2549276 | 0.24123008 | 2.5557306 | 21 | 7 12.6 | 21.3 |
| 276420 2003 $AV_{79}$ | 15.2 | X | 165.38371 | 123.25148 | 59.01646 | 15.71907 | 0.1000709 | 0.24531669 | 2.5272681 | 21 | 10 9.1 | 19.2 |
| 276421 2003 $AE_{80}$ | 16.2 | X | 44.92137 | 46.17967 | 84.91473 | 7.93818 | 0.2472862 | 0.21844536 | 2.7304915 | 21 | 3 5.9 | 18.6 |
| 276422 2003 $AM_{94}$ | 16.2 | X | 32.06091 | 72.43957 | 48.45195 | 10.36190 | 0.1050311 | 0.21771124 | 2.7366262 | 21 | 1 16.6 | 19.5 |
| 276423 2003 $BA_{3}$ | 17.0 | X | 243.89920 | 203.90945 | 343.03861 | 18.93845 | 0.0551756 | 0.36434414 | 1.9414588 | 21 | — | — |
| 276424 2003 $BQ_{13}$ | 16.8 | X | 192.44865 | 220.65092 | 288.36791 | 3.31894 | 0.1412519 | 0.24523925 | 2.5278001 | 21 | 9 13.3 | 20.6 |
| 276425 2003 $BQ_{26}$ | 16.8 | X | 166.05210 | 165.53685 | 322.26129 | 22.64485 | 0.1597530 | 0.29023725 | 2.2592656 | 21 | 7 29.2 | 20.3 |
| 276426 2003 $BF_{29}$ | 16.6 | X | 165.49931 | 248.10776 | 124.60442 | 9.96726 | 0.2425494 | 0.27913689 | 2.3187712 | 21 | 3 3.7 | 20.4 |
| 276427 2003 $BG_{33}$ | 17.2 | X | 333.84326 | 26.58404 | 112.58791 | 3.45964 | 0.1227754 | 0.26493698 | 2.4009014 | 21 | — | — |
| 276428 2003 $BX_{39}$ | 16.7 | X | 124.78743 | 73.34242 | 312.48036 | 6.16465 | 0.1923377 | 0.27412321 | 2.3469590 | 21 | 1 29.9 | 19.5 |
| 276429 2003 $BQ_{49}$ | 17.2 | X | 294.70251 | 49.00327 | 63.47772 | 3.06937 | 0.1619450 | 0.25639534 | 2.4539326 | 21 | 12 10.4 | 19.5 |
| 276430 2003 $BL_{62}$ | 15.8 | X | 347.95232 | 63.91392 | 83.94939 | 8.78564 | 0.1648460 | 0.21380539 | 2.7698545 | 21 | — | — |
| 276431 2003 $BR_{65}$ | 16.7 | X | 251.05597 | 284.40218 | 284.19011 | 4.28975 | 0.1481154 | 0.25978917 | 2.4325140 | 21 | — | — |
| 276432 2003 $BH_{67}$ | 17.1 | X | 192.02051 | 147.16821 | 343.77540 | 11.87439 | 0.2358935 | 0.24147368 | 2.5540115 | 21 | 8 20.7 | 21.5 |
| 276433 2003 $BZ_{77}$ | 16.9 | X | 273.85457 | 60.94611 | 104.88042 | 7.31720 | 0.1044776 | 0.25806279 | 2.4433506 | 21 | — | — |
| 276434 2003 $BT_{89}$ | 16.8 | X | 309.60920 | 337.18561 | 176.01106 | 11.77356 | 0.1180646 | 0.26151703 | 2.4217877 | 21 | — | — |
| 276435 2003 $CF_{1}$ | 16.5 | X | 153.96239 | 35.11107 | 103.72237 | 6.35504 | 0.1699398 | 0.23516436 | 2.5994914 | 21 | 7 27.3 | 20.6 |
| 276436 2003 $CR_{16}$ | 16.1 | X | 115.69719 | 220.42956 | 339.07021 | 16.95140 | 0.1804948 | 0.23561965 | 2.5961416 | 21 | 9 5.4 | 20.1 |
| 276437 2003 $CD_{19}$ | 17.1 | X | 69.86913 | 301.78411 | 143.92317 | 7.64094 | 0.0850227 | 0.27127109 | 2.3633808 | 21 | 1 12.6 | 19.6 |
| 276438 2003 $CG_{19}$ | 17.3 | X | 1.14378 | 328.30470 | 146.40621 | 11.99715 | 0.1839342 | 0.26545949 | 2.3977499 | 21 | — | — |
| 276439 2003 $CB_{21}$ | 17.4 | X | 296.79036 | 357.13156 | 166.06547 | 5.35827 | 0.1427533 | 0.25983598 | 2.4322219 | 21 | — | — |
| 276440 2003 $DJ_{16}$ | 17.5 | X | 164.12248 | 162.97817 | 150.58952 | 23.54152 | 0.0537556 | 0.37195222 | 1.9148935 | 21 | — | — |
| 276441 2003 $EL_{11}$ | 17.1 | X | 217.32078 | 293.94958 | 204.70729 | 4.94361 | 0.1939708 | 0.24503334 | 2.5292161 | 21 | 9 21.2 | 21.1 |
| 276442 2003 $EF_{17}$ | 16.8 | X | 141.62975 | 121.79983 | 105.58760 | 5.74034 | 0.1890311 | 0.24336437 | 2.5407663 | 21 | 11 5.9 | 21.0 |
| 276443 2003 $EJ_{22}$ | 17.0 | X | 241.98960 | 48.64987 | 158.71576 | 10.81149 | 0.2305917 | 0.25500395 | 2.4628508 | 21 | — | — |
| 276444 2003 $EV_{32}$ | 17.0 | X | 248.02276 | 24.75114 | 166.22777 | 12.21156 | 0.1247153 | 0.25469174 | 2.4648632 | 21 | — | — |
| 276445 2003 $EF_{39}$ | 15.9 | X | 12.34932 | 45.82251 | 80.20001 | 13.63229 | 0.1344144 | 0.21161325 | 2.7889505 | 21 | — | — |
| 276446 2003 $EO_{40}$ | 15.0 | X | 79.23054 | 124.80971 | 109.34228 | 23.01290 | 0.2962470 | 0.17778051 | 3.1324197 | 21 | 10 1.9 | 20.3 |
| 276447 2003 $FZ_{2}$ | 16.7 | X | 136.18292 | 233.58694 | 43.58987 | 21.91981 | 0.0548482 | 0.35889512 | 1.9610606 | 21 | — | — |
| 276448 2003 $FP_{8}$ | 17.7 | X | 339.41898 | 358.20816 | 193.49817 | 21.89992 | 0.0315638 | 0.37578053 | 1.9018658 | 21 | — | — |
| 276449 2003 $FD_{10}$ | 17.0 | X | 219.05767 | 90.22921 | 161.92752 | 4.78048 | 0.1559328 | 0.25702255 | 2.4499388 | 21 | — | — |
| 276450 2003 $FX_{19}$ | 16.1 | X | 58.19017 | 42.03374 | 67.80776 | 15.60056 | 0.2430637 | 0.21779583 | 2.7359175 | 21 | 3 9.8 | 19.2 |
| 276451 2003 $FH_{24}$ | 15.3 | X | 29.69392 | 158.46166 | 202.79085 | 3.90118 | 0.2055989 | 0.24650237 | 2.5191575 | 21 | 12 30.0 | 18.5 |
| 276452 2003 $FG_{53}$ | 15.3 | X | 114.47253 | 18.46040 | 219.20406 | 13.86856 | 0.1435511 | 0.18404588 | 3.0609201 | 21 | 10 13.5 | 20.1 |
| 276453 2003 $FF_{80}$ | 17.7 | X | 99.60923 | 102.05671 | 68.09942 | 3.80964 | 0.1718441 | 0.28309306 | 2.2971176 | 21 | 7 12.9 | 20.8 |
| 276454 2003 $FM_{92}$ | 16.2 | X | 49.15382 | 226.90942 | 40.31024 | 6.78750 | 0.3202999 | 0.22893572 | 2.6464295 | 21 | 10 10.4 | 19.7 |
| 276455 2003 $FV_{105}$ | 16.4 | X | 161.85333 | 338.71919 | 146.16094 | 4.95332 | 0.2085521 | 0.23302060 | 2.6154104 | 21 | 7 16.8 | 20.7 |
| 276456 2003 $FF_{109}$ | 16.7 | X | 133.53222 | 15.63793 | 144.79979 | 4.90472 | 0.1750618 | 0.23170811 | 2.6252776 | 21 | 8 3.9 | 21.0 |
| 276457 2003 $FM_{109}$ | 16.1 | X | 37.58081 | 162.52581 | 90.89386 | 14.77719 | 0.2320023 | 0.22561209 | 2.6723569 | 21 | 8 22.7 | 19.2 |
| 276458 2003 $GY_{2}$ | 16.8 | X | 143.20664 | 24.49241 | 188.36860 | 7.57553 | 0.1294882 | 0.24090744 | 2.5580120 | 21 | 10 18.1 | 20.7 |
| 276459 2003 $GV_{10}$ | 16.1 | X | 154.00148 | 86.39421 | 44.48822 | 27.85550 | 0.2575912 | 0.23290026 | 2.6163112 | 21 | 7 25.5 | 21.3 |
| 276460 2003 $GC_{24}$ | 16.3 | X | 130.10699 | 226.36629 | 27.87895 | 17.19271 | 0.1050864 | 0.24339165 | 2.5405765 | 21 | 11 20.0 | 20.4 |
| 276461 2003 $GJ_{26}$ | 17.0 | X | 49.10298 | 72.77371 | 213.98607 | 3.15599 | 0.2033913 | 0.23391213 | 2.6087605 | 21 | 10 16.8 | 20.2 |
| 276462 2003 $GO_{34}$ | 16.8 | X | 189.40806 | 85.38882 | 117.19945 | 6.20308 | 0.1069267 | 0.24520899 | 2.5280081 | 21 | 11 22.4 | 20.5 |
| 276463 2003 $GR_{47}$ | 16.4 | X | 272.47125 | 285.52472 | 174.82662 | 14.51519 | 0.0711669 | 0.23835242 | 2.5762599 | 21 | 10 28.9 | 19.8 |
| 276464 2003 $GE_{56}$ | 17.8 | X | 141.58990 | 74.66360 | 195.45106 | 6.64651 | 0.1919909 | 0.24476627 | 2.5310555 | 21 | 12 24.4 | 22.1 |
| 276465 2003 $HO_{4}$ | 16.7 | X | 126.49320 | 117.27782 | 148.84281 | 6.18827 | 0.2400532 | 0.23954919 | 2.5676722 | 21 | 12 8.9 | 21.2 |
| 276466 2003 $HY_{5}$ | 15.9 | X | 193.36649 | 97.55458 | 116.00088 | 10.80162 | 0.1402794 | 0.24544037 | 2.5264190 | 21 | 12 7.3 | 19.8 |
| 276467 2003 $HX_{18}$ | 17.3 | X | 132.29845 | 59.61760 | 188.32485 | 12.52547 | 0.1447259 | 0.24136723 | 2.5547623 | 21 | 11 21.1 | 21.5 |
| 276468 2003 $HQ_{32}$ | 18.0 | X | 220.42623 | 291.32686 | 217.58230 | 35.87512 | 0.3453449 | 0.35411508 | 1.9786688 | 21 | 9 29.4 | 21.6 |
| 276469 2003 $HN_{50}$ | 17.1 | X | 345.52541 | 48.07739 | 185.02587 | 2.46149 | 0.1824361 | 0.26994829 | 2.3710952 | 21 | 3 9.8 | 19.2 |
| 276470 2003 $JT_{7}$ | 17.0 | X | 175.36513 | 134.78987 | 70.12727 | 8.82412 | 0.2620388 | 0.24215561 | 2.5492144 | 21 | 11 4.4 | 21.5 |
| 276471 2003 $KL_{3}$ | 16.4 | X | 154.07216 | 73.80000 | 94.01131 | 15.16217 | 0.0419874 | 0.23352235 | 2.6116627 | 21 | 9 4.7 | 20.4 |
| 276472 2003 $KL_{8}$ | 17.4 | X | 95.33650 | 93.48316 | 198.17383 | 11.75470 | 0.0954991 | 0.23832547 | 2.5764541 | 21 | 12 3.7 | 21.3 |
| 276473 2003 $KG_{12}$ | 15.2 | X | 92.38400 | 16.48294 | 222.95115 | 27.10695 | 0.0969788 | 0.17814527 | 3.1281424 | 21 | 9 11.7 | 20.3 |
| 276474 2003 $KO_{13}$ | 16.2 | X | 127.38800 | 194.36088 | 113.72816 | 13.37619 | 0.2761421 | 0.24335377 | 2.5408401 | 21 | — | — |
| 276475 2003 $KV_{13}$ | 16.5 | X | 156.54791 | 30.20603 | 242.50773 | 11.68406 | 0.2360706 | 0.24449971 | 2.5328948 | 21 | — | — |
| 276476 2003 $MU_{3}$ | 15.9 | X | 47.24695 | 198.99186 | 103.06830 | 21.14524 | 0.2707023 | 0.22631330 | 2.6668341 | 21 | 11 19.8 | 19.9 |
| 276477 2003 $MT_{4}$ | 16.4 | X | 144.61597 | 76.84980 | 190.50447 | 4.39938 | 0.2501871 | 0.23920333 | 2.5701467 | 21 | 12 22.6 | 20.9 |
| 276478 2003 $MK_{10}$ | 16.5 | X | 88.86425 | 75.68800 | 246.09801 | 11.89209 | 0.2970456 | 0.23636218 | 2.5907016 | 21 | — | — |
| 276479 2003 $MQ_{12}$ | 16.1 | X | 59.72171 | 44.31375 | 246.12248 | 10.85397 | 0.1460973 | 0.22640206 | 2.6661370 | 21 | 10 23.6 | 19.8 |
| 276480 2003 $NO_{1}$ | 16.7 | X | 72.37654 | 67.41943 | 272.65845 | 11.64385 | 0.2971173 | 0.23336005 | 2.6128734 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276481 2003 $NK_{13}$ | 16.3 | X | 105.58724 | 159.25319 | 108.66157 | 6.45537 | 0.2414065 | 0.23193240 | 2.6235848 | 21 | 11 24.8 | 20.7 |
| 276482 2003 $ON_{2}$ | 15.5 | X | 305.67822 | 0.83514 | 355.70287 | 8.80076 | 0.2123765 | 0.21612795 | 2.7499751 | 21 | 7 1.2 | 18.9 |
| 276483 2003 $OH_{9}$ | 16.3 | X | 93.11939 | 60.71752 | 229.61947 | 11.11147 | 0.1846155 | 0.23178149 | 2.6247234 | 21 | 12 5.7 | 20.4 |
| 276484 2003 $OC_{13}$ | 16.4 | X | 110.24407 | 342.28962 | 304.52608 | 5.60234 | 0.2575266 | 0.23420403 | 2.6065925 | 21 | 12 20.1 | 21.0 |
| 276485 2003 $OR_{20}$ | 17.1 | X | 101.42096 | 342.56178 | 343.91727 | 6.79727 | 0.2007775 | 0.29256398 | 2.2472712 | 21 | — | — |
| 276486 2003 $OG_{29}$ | 16.6 | X | 261.63524 | 289.12509 | 2.94933 | 2.46470 | 0.1796848 | 0.20097957 | 2.8864770 | 21 | 2 21.3 | 21.2 |
| 276487 2003 $OJ_{33}$ | 16.9 | X | 55.75719 | 165.96685 | 145.30461 | 2.89432 | 0.2000430 | 0.22781755 | 2.6550820 | 21 | 11 25.1 | 20.5 |
| 276488 2003 $PO$ | 16.0 | X | 27.39976 | 177.85600 | 151.40979 | 14.82139 | 0.2604747 | 0.22489567 | 2.6780293 | 21 | 11 23.2 | 19.5 |
| 276489 2003 $PA_{2}$ | 16.4 | X | 40.83389 | 180.60637 | 163.24956 | 7.20187 | 0.2375430 | 0.22838631 | 2.6506721 | 21 | 12 22.9 | 20.1 |
| 276490 2003 $PK_{11}$ | 15.6 | X | 110.19265 | 9.59329 | 340.52644 | 12.59678 | 0.2154389 | 0.18499259 | 3.0504681 | 21 | — | — |
| 276491 2003 $QK_{4}$ | 16.8 | X | 59.05380 | 125.38265 | 171.55813 | 2.30538 | 0.1908528 | 0.22656665 | 2.6648457 | 21 | 11 9.4 | 20.5 |
| 276492 2003 $QV_{16}$ | 16.3 | X | 263.12120 | 208.24876 | 159.36156 | 6.46716 | 0.1120400 | 0.20983331 | 2.8047001 | 21 | 6 3.7 | 20.4 |
| 276493 2003 $QZ_{16}$ | 16.9 | X | 13.51906 | 37.54779 | 335.32588 | 5.66524 | 0.3461445 | 0.16931762 | 3.2359461 | 21 | 12 24.0 | 20.5 |
| 276494 2003 $QG_{17}$ | 16.2 | X | 58.35106 | 153.25241 | 171.17598 | 13.90113 | 0.1835273 | 0.22831717 | 2.6512072 | 21 | 12 12.7 | 20.3 |
| 276495 2003 $QJ_{25}$ | 16.1 | X | 74.25633 | 322.82189 | 317.66373 | 9.11431 | 0.1694932 | 0.22582297 | 2.6706930 | 21 | 10 29.3 | 20.2 |
| 276496 2003 $QU_{27}$ | 15.7 | X | 147.26855 | 83.04072 | 274.68286 | 9.51876 | 0.1400931 | 0.19017465 | 2.9947987 | 21 | 1 26.1 | 20.3 |
| 276497 2003 $QQ_{28}$ | 16.4 | X | 292.81257 | 31.08980 | 319.72073 | 5.24700 | 0.0678441 | 0.21355983 | 2.7719773 | 21 | 6 26.2 | 20.0 |
| 276498 2003 $QC_{47}$ | 16.1 | X | 271.10861 | 139.15771 | 236.32203 | 2.98487 | 0.2207103 | 0.21051521 | 2.7986402 | 21 | 6 7.8 | 20.1 |
| 276499 2003 $QT_{51}$ | 16.2 | X | 75.07357 | 152.68334 | 138.46493 | 12.39707 | 0.1839496 | 0.22834644 | 2.6509806 | 21 | 11 22.1 | 20.4 |
| 276500 2003 $QV_{55}$ | 15.9 | X | 3.33160 | 227.82352 | 137.41299 | 12.28995 | 0.1970223 | 0.22373762 | 2.6872622 | 21 | 11 20.8 | 18.9 |
| 276501 2003 $QD_{58}$ | 15.9 | X | 44.34988 | 153.96628 | 145.72520 | 14.08642 | 0.1931521 | 0.22356476 | 2.6886472 | 21 | 10 29.7 | 19.6 |
| 276502 2003 $QW_{60}$ | 16.2 | X | 10.85203 | 180.54954 | 149.32827 | 9.82120 | 0.1688363 | 0.21997584 | 2.7178119 | 21 | 10 10.5 | 19.2 |
| 276503 2003 $QR_{63}$ | 15.2 | X | 121.91377 | 352.68502 | 27.33848 | 13.89080 | 0.3076886 | 0.18589374 | 3.0406017 | 21 | 2 23.2 | 20.2 |
| 276504 2003 $QW_{67}$ | 16.4 | X | 54.38837 | 97.83442 | 197.25161 | 8.41639 | 0.2421479 | 0.22638318 | 2.6662852 | 21 | 11 9.2 | 20.1 |
| 276505 2003 $QZ_{67}$ | 15.9 | X | 35.86841 | 309.50843 | 310.03161 | 5.42226 | 0.0757604 | 0.21636298 | 2.7479832 | 21 | 7 30.4 | 19.2 |
| 276506 2003 $QH_{72}$ | 16.1 | X | 346.67016 | 215.12599 | 123.36205 | 9.48921 | 0.1437159 | 0.21952811 | 2.7215060 | 21 | 9 2.5 | 19.0 |
| 276507 2003 $QT_{73}$ | 16.1 | X | 349.45627 | 174.32514 | 179.05870 | 6.25423 | 0.0386229 | 0.22222782 | 2.6994198 | 21 | 9 24.9 | 19.3 |
| 276508 2003 $QY_{74}$ | 15.8 | X | 320.83654 | 210.67703 | 174.22414 | 14.89028 | 0.1948737 | 0.21963102 | 2.7206558 | 21 | 9 11.7 | 18.5 |
| 276509 2003 $QD_{88}$ | 16.3 | X | 344.06811 | 64.72570 | 266.35224 | 1.70686 | 0.1904657 | 0.21737673 | 2.7394330 | 21 | 8 11.9 | 18.9 |
| 276510 2003 $QX_{89}$ | 15.3 | X | 354.86276 | 71.83288 | 272.94636 | 8.05334 | 0.2144433 | 0.21928698 | 2.7235007 | 21 | 9 24.4 | 17.9 |
| 276511 2003 $QA_{99}$ | 16.7 | X | 282.87312 | 353.70609 | 19.07566 | 1.20124 | 0.0604353 | 0.21404800 | 2.7677611 | 21 | 7 13.3 | 20.4 |
| 276512 2003 $QJ_{99}$ | 16.7 | X | 97.86449 | 324.85014 | 198.68700 | 11.79983 | 0.0171373 | 0.20733292 | 2.8272044 | 21 | 6 9.3 | 20.7 |
| 276513 2003 $QS_{100}$ | 16.2 | X | 336.41382 | 189.54427 | 165.95717 | 10.40109 | 0.1990874 | 0.22004703 | 2.7172256 | 21 | 9 1.3 | 18.7 |
| 276514 2003 $QL_{103}$ | 16.1 | X | 294.13000 | 277.84603 | 75.57667 | 5.06519 | 0.2158974 | 0.21167207 | 2.7884338 | 21 | 6 7.8 | 19.6 |
| 276515 2003 $QZ_{104}$ | 15.5 | X | 10.79906 | 168.81243 | 159.20617 | 17.11055 | 0.3167896 | 0.21961155 | 2.7208166 | 21 | 11 1.4 | 18.3 |
| 276516 2003 $QS_{106}$ | 16.1 | X | 40.11527 | 172.76627 | 169.12663 | 10.92083 | 0.2683252 | 0.22537111 | 2.6742616 | 21 | 12 23.4 | 20.0 |
| 276517 2003 $QO_{107}$ | 16.0 | X | 29.20710 | 183.64819 | 123.03260 | 13.01106 | 0.1862175 | 0.22149455 | 2.7053742 | 21 | 10 16.2 | 19.4 |
| 276518 2003 $QK_{115}$ | 16.0 | X | 52.24965 | 234.66198 | 118.79040 | 13.02895 | 0.3132034 | 0.22922115 | 2.6442322 | 21 | — | — |
| 276519 2003 $RU_{12}$ | 15.9 | X | 297.85255 | 327.08689 | 37.37860 | 8.68973 | 0.2315896 | 0.21377426 | 2.7701233 | 21 | 6 25.5 | 19.4 |
| 276520 2003 $RX_{13}$ | 15.7 | X | 50.29912 | 36.60713 | 270.24453 | 12.75064 | 0.2515228 | 0.22497524 | 2.6773978 | 21 | 11 17.7 | 19.5 |
| 276521 2003 $RM_{14}$ | 16.0 | X | 296.63664 | 162.51095 | 195.56471 | 8.58321 | 0.3133783 | 0.21260464 | 2.7802738 | 21 | 6 2.9 | 19.9 |
| 276522 2003 $RL_{17}$ | 15.5 | X | 351.68934 | 5.58070 | 276.82620 | 8.73613 | 0.2403239 | 0.21210781 | 2.7846136 | 21 | 6 11.1 | 17.8 |
| 276523 2003 $RC_{19}$ | 15.6 | X | 160.29567 | 343.74142 | 346.03552 | 9.74320 | 0.0929870 | 0.18737222 | 3.0245859 | 21 | 1 6.1 | 20.2 |
| 276524 2003 $RT_{20}$ | 16.5 | X | 10.77702 | 195.71652 | 155.82618 | 6.56072 | 0.2165983 | 0.22299862 | 2.6931958 | 21 | 11 16.1 | 19.4 |
| 276525 2003 $RX_{25}$ | 15.9 | X | 318.53583 | 138.99818 | 221.34274 | 12.55187 | 0.2323643 | 0.21528181 | 2.7571761 | 21 | 7 21.8 | 19.1 |
| 276526 2003 $RY_{25}$ | 15.9 | X | 44.90401 | 346.71636 | 321.45246 | 12.93644 | 0.2648755 | 0.22368425 | 2.6876896 | 21 | 11 11.3 | 19.8 |
| 276527 2003 $RZ_{25}$ | 15.6 | X | 10.13830 | 78.05944 | 258.93159 | 11.12296 | 0.2220260 | 0.22075530 | 2.7114106 | 21 | 10 19.1 | 18.5 |
| 276528 2003 $RA_{26}$ | 17.0 | X | 45.77290 | 81.21499 | 226.67794 | 10.90892 | 0.3228824 | 0.22455881 | 2.6807068 | 21 | 11 25.3 | 20.7 |
| 276529 2003 $SU_{2}$ | 16.7 | X | 143.02779 | 138.78791 | 298.01915 | 1.00057 | 0.0801671 | 0.19923756 | 2.9032777 | 21 | 4 21.6 | 21.0 |
| 276530 2003 $SU_{11}$ | 16.5 | X | 329.76441 | 170.34404 | 176.82242 | 2.75300 | 0.2090685 | 0.21651091 | 2.7467314 | 21 | 8 2.2 | 19.2 |
| 276531 2003 $SK_{30}$ | 16.0 | X | 115.30259 | 318.26245 | 19.44646 | 3.56554 | 0.2091726 | 0.17997067 | 3.1069545 | 21 | — | — |
| 276532 2003 $SV_{49}$ | 15.9 | X | 295.34657 | 182.06034 | 179.72259 | 24.93396 | 0.1360984 | 0.21347702 | 2.7726941 | 21 | 7 2.6 | 20.1 |
| 276533 2003 $SZ_{58}$ | 15.4 | X | 112.12075 | 91.25200 | 274.90394 | 7.89814 | 0.1571940 | 0.18537264 | 3.0462973 | 21 | 1 2.7 | 19.6 |
| 276534 2003 $SJ_{60}$ | 16.1 | X | 264.45547 | 215.81324 | 159.91438 | 14.47115 | 0.1838215 | 0.21113483 | 2.7931620 | 21 | 6 7.5 | 20.5 |
| 276535 2003 $SB_{61}$ | 15.8 | X | 279.66189 | 231.06600 | 132.69678 | 7.07734 | 0.1254884 | 0.21113703 | 2.7931426 | 21 | 6 16.8 | 19.6 |
| 276536 2003 $SN_{62}$ | 15.8 | X | 95.60704 | 235.47856 | 148.19116 | 9.68136 | 0.1404919 | 0.18411609 | 3.0601418 | 21 | — | — |
| 276537 2003 $SS_{69}$ | 15.9 | X | 70.38569 | 239.67052 | 192.91631 | 10.54201 | 0.1305790 | 0.18574324 | 3.0422440 | 21 | 1 21.5 | 19.9 |
| 276538 2003 $SO_{77}$ | 15.8 | X | 34.37039 | 142.00103 | 206.70108 | 10.67209 | 0.3127751 | 0.22634426 | 2.6665909 | 21 | 12 30.3 | 19.6 |
| 276539 2003 $SF_{78}$ | 17.9 | X | 357.68490 | 78.19503 | 326.60590 | 6.04749 | 0.1809556 | 0.28166480 | 2.3048765 | 21 | — | — |
| 276540 2003 $ST_{80}$ | 16.1 | X | 17.28006 | 52.66562 | 256.32438 | 8.08851 | 0.1816655 | 0.21914620 | 2.7246669 | 21 | 9 15.7 | 19.1 |
| 276541 2003 $SC_{81}$ | 16.2 | X | 118.77565 | 165.48393 | 188.38572 | 10.88473 | 0.1213407 | 0.18152560 | 3.0891865 | 21 | — | — |
| 276542 2003 $SQ_{82}$ | 15.7 | X | 169.64559 | 16.25598 | 19.28959 | 11.34869 | 0.0747816 | 0.19705610 | 2.9246649 | 21 | 4 1.0 | 20.0 |
| 276543 2003 $SA_{88}$ | 16.2 | X | 324.22611 | 64.32204 | 268.21607 | 2.57288 | 0.0994272 | 0.21420714 | 2.7663901 | 21 | 7 13.9 | 19.6 |
| 276544 2003 $SU_{88}$ | 15.8 | X | 7.51719 | 262.18982 | 46.81003 | 6.10386 | 0.0550832 | 0.21609829 | 2.7502267 | 21 | 8 25.4 | 19.3 |
| 276545 2003 $SF_{89}$ | 16.2 | X | 299.92574 | 189.01295 | 197.26300 | 9.95659 | 0.1707217 | 0.21686817 | 2.7437140 | 21 | 8 5.7 | 19.6 |
| 276546 2003 $ST_{100}$ | 15.9 | X | 236.38248 | 186.83860 | 193.18511 | 15.22029 | 0.1432636 | 0.20435155 | 2.8546361 | 21 | 5 18.6 | 20.5 |
| 276547 2003 $ST_{101}$ | 15.4 | X | 41.07664 | 16.63881 | 265.39899 | 12.08440 | 0.1298386 | 0.21931108 | 2.7233011 | 21 | 9 8.3 | 19.1 |
| 276548 2003 $SR_{105}$ | 16.8 | X | 168.74096 | 32.21175 | 8.34183 | 2.08987 | 0.0848010 | 0.19673752 | 2.9278215 | 21 | 4 5.6 | 21.3 |
| 276549 2003 $SX_{116}$ | 16.0 | X | 352.44901 | 66.73465 | 256.15040 | 8.41097 | 0.1989689 | 0.21687161 | 2.7436850 | 21 | 8 14.9 | 18.6 |
| 276550 2003 $SH_{132}$ | 16.7 | X | 47.09952 | 335.08432 | 37.02243 | 1.16007 | 0.2076941 | 0.17244215 | 3.1967384 | 21 | — | — |
| 276551 2003 $SN_{133}$ | 16.6 | X | 129.86241 | 14.15411 | 257.26052 | 6.61366 | 0.3296933 | 0.23407062 | 2.6075828 | 21 | 12 17.3 | 21.5 |
| 276552 2003 $SR_{135}$ | 16.1 | X | 197.36484 | 236.38519 | 160.17132 | 5.39428 | 0.1099781 | 0.20133211 | 2.8831065 | 21 | 5 2.1 | 20.6 |
| 276553 2003 $SG_{136}$ | 16.5 | X | 317.61543 | 173.95733 | 148.48871 | 4.85940 | 0.1016691 | 0.21020309 | 2.8014099 | 21 | 6 19.1 | 20.0 |
| 276554 2003 $SF_{137}$ | 15.6 | X | 216.83464 | 99.62855 | 212.74040 | 10.68820 | 0.0909882 | 0.19026287 | 2.9938729 | 21 | 2 5.3 | 20.4 |
| 276555 2003 $SV_{152}$ | 15.5 | X | 80.16002 | 78.15370 | 149.78088 | 13.23203 | 0.1141909 | 0.21431188 | 2.7654886 | 21 | 8 25.5 | 19.1 |
| 276556 2003 $SC_{168}$ | 16.0 | X | 48.36581 | 167.41004 | 147.74004 | 13.03531 | 0.1282182 | 0.22534402 | 2.6744759 | 21 | 11 13.7 | 19.8 |
| 276557 2003 $SN_{179}$ | 15.9 | X | 60.42932 | 267.90955 | 110.08581 | 6.60770 | 0.1320888 | 0.17705563 | 3.1409635 | 21 | — | — |
| 276558 2003 $SO_{180}$ | 16.2 | X | 207.39072 | 24.18998 | 202.61053 | 17.96259 | 0.0603069 | 0.23292877 | 2.6160977 | 21 | — | — |
| 276559 2003 $SR_{185}$ | 16.5 | X | 16.26862 | 46.65636 | 258.82491 | 4.50891 | 0.1054030 | 0.21809450 | 2.7334192 | 21 | 9 1.9 | 19.8 |
| 276560 2003 $SA_{192}$ | 15.2 | X | 1.28577 | 70.14262 | 242.55051 | 12.68113 | 0.0945105 | 0.21236056 | 2.7824037 | 21 | 8 12.5 | 18.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276561 2003 $SL_{194}$ | 17.5 | X | 28.00684 | 61.62515 | 314.50259 | 6.70701 | 0.1180412 | 0.28319317 | 2.2965762 | 21 | — | — |
| 276562 2003 $SP_{194}$ | 16.9 | X | 93.61831 | 323.16406 | 316.44797 | 4.40825 | 0.1842622 | 0.28035480 | 2.3120509 | 21 | 11 28.9 | 20.5 |
| 276563 2003 $SO_{198}$ | 15.8 | X | 117.35113 | 140.53901 | 229.57075 | 11.28482 | 0.2586834 | 0.18406802 | 3.0606746 | 21 | 1 23.5 | 20.6 |
| 276564 2003 $SF_{202}$ | 16.7 | X | 89.20364 | 134.38773 | 246.87300 | 1.73202 | 0.1954205 | 0.18247304 | 3.0784840 | 21 | — | — |
| 276565 2003 $SS_{202}$ | 16.2 | X | 331.24445 | 173.68688 | 166.98101 | 5.27485 | 0.1091071 | 0.21481087 | 2.7612043 | 21 | 8 4.9 | 19.3 |
| 276566 2003 $SG_{210}$ | 15.9 | X | 195.46362 | 184.88883 | 177.43597 | 5.74476 | 0.1398959 | 0.19585147 | 2.9366453 | 21 | 3 18.6 | 20.5 |
| 276567 2003 $SS_{212}$ | 16.2 | X | 324.44353 | 313.21063 | 45.27706 | 7.49451 | 0.1939777 | 0.21705274 | 2.7421584 | 21 | 8 14.6 | 19.0 |
| 276568 Joestübler | 15.9 | X | 98.34916 | 153.93090 | 238.04717 | 7.07660 | 0.1480843 | 0.18279581 | 3.0748592 | 21 | 1 14.6 | 20.2 |
| 276569 2003 $SL_{218}$ | 15.9 | X | 161.05364 | 8.90750 | 27.03073 | 11.29337 | 0.1226732 | 0.19318402 | 2.9636159 | 21 | 3 28.6 | 20.5 |
| 276570 2003 $SO_{221}$ | 15.7 | X | 321.96852 | 78.00685 | 221.39779 | 11.17593 | 0.0664338 | 0.20508926 | 2.8477865 | 21 | 5 30.1 | 19.4 |
| 276571 2003 $SF_{237}$ | 16.1 | X | 317.62380 | 177.03349 | 165.14132 | 2.60744 | 0.0852787 | 0.21222482 | 2.7835900 | 21 | 7 18.2 | 19.4 |
| 276572 2003 $SK_{237}$ | 15.7 | X | 88.45733 | 116.33796 | 353.74887 | 12.09355 | 0.1275731 | 0.19491469 | 2.9460470 | 21 | 4 2.2 | 19.7 |
| 276573 2003 $SY_{244}$ | 16.2 | X | 311.11765 | 129.14466 | 189.42899 | 4.18395 | 0.1049677 | 0.20890402 | 2.8130116 | 21 | 6 3.6 | 19.8 |
| 276574 2003 $SD_{245}$ | 15.6 | X | 101.53820 | 348.77614 | 11.52949 | 9.35504 | 0.0855053 | 0.18162693 | 3.0880374 | 21 | — | — |
| 276575 2003 $SR_{270}$ | 16.3 | X | 54.34372 | 221.94842 | 77.13080 | 12.58842 | 0.1774937 | 0.22339770 | 2.6899874 | 21 | 11 7.1 | 20.0 |
| 276576 2003 $SL_{279}$ | 15.8 | X | 58.65452 | 107.32179 | 324.56761 | 16.34241 | 0.1477523 | 0.18494523 | 3.0509889 | 21 | 1 9.7 | 19.5 |
| 276577 2003 $ST_{281}$ | 16.7 | X | 282.57792 | 39.79053 | 311.66600 | 4.95826 | 0.1113702 | 0.20909610 | 2.8112886 | 21 | 6 5.4 | 20.5 |
| 276578 2003 $SV_{282}$ | 16.2 | X | 357.77658 | 70.99732 | 9.04557 | 25.07956 | 0.2823351 | 0.17325958 | 3.1866758 | 21 | — | — |
| 276579 2003 $SM_{288}$ | 16.2 | X | 23.25198 | 126.25695 | 173.37761 | 12.07861 | 0.0898073 | 0.21577989 | 2.7529315 | 21 | 9 4.9 | 19.4 |
| 276580 2003 $SU_{289}$ | 15.9 | X | 202.47464 | 302.55542 | 169.22072 | 9.04736 | 0.1111307 | 0.21079364 | 2.7961752 | 21 | 8 7.0 | 20.2 |
| 276581 2003 $ST_{300}$ | 16.1 | X | 330.52507 | 68.28254 | 271.13234 | 5.87956 | 0.0422014 | 0.21413442 | 2.7670164 | 21 | 8 6.0 | 19.6 |
| 276582 2003 $SS_{309}$ | 16.4 | X | 24.80103 | 51.29135 | 329.77409 | 5.28742 | 0.2002847 | 0.17153559 | 3.2079916 | 21 | 12 30.1 | 20.5 |
| 276583 2003 $SD_{312}$ | 15.9 | X | 106.58274 | 213.76046 | 170.34475 | 10.21729 | 0.0567505 | 0.18505700 | 3.0497603 | 21 | 1 3.1 | 20.3 |
| 276584 2003 $SG_{318}$ | 16.6 | X | 349.90293 | 24.13471 | 289.31322 | 2.61939 | 0.0886694 | 0.21457518 | 2.7632259 | 21 | 7 31.1 | 19.8 |
| 276585 2003 $SB_{320}$ | 15.9 | X | 269.92976 | 198.03877 | 348.38775 | 11.04837 | 0.0443943 | 0.18188089 | 3.0851622 | 21 | — | — |
| 276586 2003 $SN_{325}$ | 16.4 | X | 117.34336 | 38.83115 | 57.14591 | 2.50921 | 0.0167400 | 0.19812413 | 2.9141448 | 21 | 4 8.4 | 20.3 |
| 276587 2003 $SX_{325}$ | 18.0 | X | 203.78720 | 24.10913 | 346.47734 | 4.26059 | 0.1463987 | 0.30919585 | 2.1659426 | 21 | 3 24.8 | 21.2 |
| 276588 2003 $SB_{328}$ | 16.2 | X | 162.29742 | 165.27344 | 181.08087 | 7.86969 | 0.1793678 | 0.18868493 | 3.0105412 | 21 | 1 30.8 | 21.1 |
| 276589 2003 $SR_{331}$ | 16.3 | X | 58.62646 | 282.06061 | 185.35956 | 10.51763 | 0.2436837 | 0.18681772 | 3.0305678 | 21 | 3 3.3 | 19.6 |
| 276590 2003 $SK_{336}$ | 15.7 | X | 184.02676 | 249.07193 | 96.42270 | 17.36595 | 0.0689107 | 0.18753144 | 3.0228737 | 21 | 2 19.3 | 20.5 |
| 276591 2003 $ST_{384}$ | 17.0 | X | 325.15212 | 176.19255 | 138.05874 | 4.37152 | 0.0866669 | 0.20951818 | 2.8075117 | 21 | 6 21.5 | 20.5 |
| 276592 2003 $SA_{386}$ | 16.0 | X | 108.24129 | 295.14812 | 63.34460 | 4.07042 | 0.0685784 | 0.18166445 | 3.0876122 | 21 | — | — |
| 276593 2003 $SN_{387}$ | 16.3 | X | 96.80835 | 357.63581 | 98.29381 | 3.32952 | 0.0561538 | 0.19368951 | 2.9584574 | 21 | 3 20.6 | 20.3 |
| 276594 2003 $SU_{387}$ | 16.8 | X | 11.31348 | 171.76515 | 143.13315 | 4.42795 | 0.1001140 | 0.21631553 | 2.7483851 | 21 | 9 9.7 | 20.0 |
| 276595 2003 $SZ_{399}$ | 16.4 | X | 292.99423 | 248.10560 | 119.31866 | 9.67371 | 0.0951055 | 0.20923597 | 2.8100356 | 21 | 7 14.5 | 20.1 |
| 276596 2003 $SX_{404}$ | 15.6 | X | 339.92007 | 87.76922 | 49.81297 | 17.05529 | 0.0790105 | 0.18025747 | 3.1036581 | 21 | — | — |
| 276597 2003 $SH_{430}$ | 16.0 | X | 260.62067 | 235.99635 | 330.43004 | 8.48765 | 0.0307682 | 0.17892287 | 3.1190725 | 21 | — | — |
| 276598 2003 $TK_{18}$ | 16.0 | X | 314.58979 | 278.32873 | 73.12497 | 12.30633 | 0.2427482 | 0.21220086 | 2.7837995 | 21 | 7 3.1 | 19.2 |
| 276599 2003 $TZ_{34}$ | 15.8 | X | 294.90192 | 166.66803 | 11.70507 | 28.19521 | 0.1258850 | 0.17902369 | 3.1179014 | 21 | — | — |
| 276600 2003 $TG_{48}$ | 16.8 | X | 209.96088 | 70.29208 | 244.58601 | 4.15072 | 0.0650115 | 0.19271215 | 2.9684517 | 21 | 2 3.2 | 21.4 |
| 276601 2003 $TH_{54}$ | 16.3 | X | 221.36480 | 180.64068 | 174.51939 | 12.21433 | 0.0654830 | 0.19772387 | 2.9180763 | 21 | 4 7.5 | 20.6 |
| 276602 2003 $TZ_{55}$ | 16.4 | X | 310.06265 | 230.83822 | 129.66818 | 6.26540 | 0.1216074 | 0.21238681 | 2.7821744 | 21 | 7 27.3 | 19.6 |
| 276603 2003 $TG_{59}$ | 16.8 | X | 339.90915 | 240.39891 | 141.78697 | 6.50675 | 0.1044729 | 0.27467997 | 2.3437866 | 21 | 11 2.9 | 19.1 |
| 276604 2003 $UH_{21}$ | 16.2 | X | 49.85646 | 242.69177 | 79.25168 | 7.41361 | 0.2843814 | 0.22361490 | 2.6882453 | 21 | 12 11.3 | 20.1 |
| 276605 2003 $UN_{30}$ | 16.0 | X | 356.30336 | 297.91516 | 309.17545 | 5.18634 | 0.0104981 | 0.20281719 | 2.8690154 | 21 | 5 11.4 | 20.0 |
| 276606 2003 $UR_{41}$ | 16.8 | X | 155.39809 | 147.30213 | 176.98833 | 0.56928 | 0.1759108 | 0.18491484 | 3.0513232 | 21 | 1 1.3 | 21.6 |
| 276607 2003 $UG_{54}$ | 15.4 | X | 71.65435 | 88.77231 | 357.82115 | 9.41293 | 0.1249250 | 0.18380013 | 3.0636479 | 21 | 2 14.9 | 19.4 |
| 276608 2003 $UA_{68}$ | 16.6 | X | 268.49964 | 183.31686 | 147.71469 | 2.54991 | 0.0694738 | 0.20107196 | 2.8855928 | 21 | 4 29.9 | 20.6 |
| 276609 2003 $UF_{69}$ | 16.8 | X | 195.54492 | 213.32936 | 157.96350 | 2.32378 | 0.0859784 | 0.19727735 | 2.9224778 | 21 | 3 29.4 | 21.1 |
| 276610 2003 $UO_{70}$ | 16.1 | X | 302.83875 | 121.75159 | 178.63184 | 5.60762 | 0.0456084 | 0.20169277 | 2.8796685 | 21 | 5 8.4 | 19.9 |
| 276611 2003 $UF_{82}$ | 16.1 | X | 18.64775 | 261.10525 | 193.76489 | 24.92161 | 0.2991970 | 0.17750987 | 3.1356028 | 21 | — | — |
| 276612 2003 $UK_{83}$ | 15.4 | X | 103.26634 | 219.63035 | 253.09930 | 10.86680 | 0.0294537 | 0.19481300 | 2.9470721 | 21 | 4 9.5 | 19.7 |
| 276613 2003 $UU_{83}$ | 15.3 | X | 49.51471 | 45.76751 | 318.14797 | 16.43189 | 0.1647718 | 0.17281101 | 3.1921878 | 21 | — | — |
| 276614 2003 $UF_{91}$ | 15.6 | X | 180.88952 | 309.63182 | 54.99506 | 11.24307 | 0.1064037 | 0.19198779 | 2.9759135 | 21 | 3 13.1 | 20.4 |
| 276615 2003 $UG_{92}$ | 16.1 | X | 112.42905 | 44.38198 | 12.17468 | 9.53197 | 0.1257996 | 0.18762469 | 3.0218720 | 21 | 3 3.2 | 20.4 |
| 276616 2003 $UK_{99}$ | 15.9 | X | 23.40375 | 268.66263 | 84.57512 | 11.75870 | 0.2973491 | 0.22191811 | 2.7019308 | 21 | 12 19.9 | 19.2 |
| 276617 2003 $UN_{102}$ | 16.5 | X | 323.63436 | 63.54731 | 276.43814 | 6.26908 | 0.2393693 | 0.21317314 | 2.7753285 | 21 | 7 4.6 | 19.4 |
| 276618 2003 $UC_{113}$ | 16.8 | X | 350.46838 | 231.80711 | 138.70349 | 6.69899 | 0.1207553 | 0.27448612 | 2.3448899 | 21 | 11 6.3 | 19.1 |
| 276619 2003 $UT_{113}$ | 15.7 | X | 84.45696 | 254.93919 | 88.37258 | 9.99223 | 0.2640103 | 0.17468033 | 3.1693732 | 21 | — | — |
| 276620 2003 $UV_{116}$ | 18.1 | X | 219.94143 | 182.07118 | 179.74670 | 5.02743 | 0.2462354 | 0.30976362 | 2.1632952 | 21 | 3 28.8 | 21.5 |
| 276621 2003 $UO_{125}$ | 15.5 | X | 96.10593 | 3.26054 | 61.78990 | 15.85495 | 0.1910704 | 0.18608267 | 3.0385434 | 21 | 3 9.0 | 20.0 |
| 276622 2003 $UA_{135}$ | 16.3 | X | 34.78492 | 90.80691 | 211.20282 | 12.71168 | 0.2778219 | 0.21967684 | 2.7202775 | 21 | 10 27.1 | 19.4 |
| 276623 2003 $UG_{136}$ | 17.7 | X | 319.84157 | 251.62143 | 193.98528 | 5.93859 | 0.1666353 | 0.27912556 | 2.3188339 | 21 | 12 30.8 | 19.7 |
| 276624 2003 $UW_{139}$ | 16.0 | X | 326.46683 | 226.07219 | 106.96574 | 7.11748 | 0.0787392 | 0.21124153 | 2.7922214 | 21 | 7 20.9 | 19.4 |
| 276625 2003 $UA_{146}$ | 15.9 | X | 11.78473 | 282.91672 | 67.09538 | 8.88418 | 0.3033229 | 0.22019911 | 2.7159744 | 21 | 11 27.5 | 18.5 |
| 276626 2003 $UO_{148}$ | 15.0 | X | 87.92485 | 299.31369 | 72.18740 | 17.32003 | 0.0521820 | 0.17645255 | 3.1481162 | 21 | — | — |
| 276627 2003 $UL_{149}$ | 16.0 | X | 306.62351 | 309.43919 | 55.11043 | 7.19626 | 0.1272588 | 0.21205033 | 2.7851168 | 21 | 7 28.9 | 19.4 |
| 276628 2003 $UQ_{151}$ | 15.8 | X | 350.79302 | 243.66473 | 88.88320 | 6.21825 | 0.2386489 | 0.21457778 | 2.7632036 | 21 | 9 3.9 | 18.1 |
| 276629 2003 $UT_{154}$ | 16.4 | X | 287.47243 | 235.07948 | 113.61710 | 3.69356 | 0.0786582 | 0.20695986 | 2.8306008 | 21 | 6 14.2 | 20.3 |
| 276630 2003 $UT_{156}$ | 15.9 | X | 118.77519 | 227.64366 | 164.84122 | 8.19320 | 0.2029541 | 0.18577833 | 3.0418608 | 21 | 2 15.8 | 20.3 |
| 276631 2003 $UO_{157}$ | 15.3 | X | 172.84045 | 207.72759 | 91.70898 | 5.39112 | 0.0735324 | 0.18128497 | 3.0919195 | 21 | — | — |
| 276632 2003 $UX_{160}$ | 15.6 | X | 339.65925 | 303.29067 | 221.24585 | 8.99128 | 0.0466329 | 0.18339203 | 3.0681911 | 21 | 1 5.9 | 20.0 |
| 276633 2003 $UD_{163}$ | 17.0 | X | 23.98950 | 143.92061 | 173.23371 | 4.77285 | 0.1686867 | 0.27276348 | 2.3547523 | 21 | 10 23.2 | 19.3 |
| 276634 2003 $UL_{166}$ | 15.3 | X | 5.32695 | 261.10222 | 217.32909 | 25.15504 | 0.3022776 | 0.17555636 | 3.1588209 | 21 | — | — |
| 276635 2003 $UM_{180}$ | 16.9 | X | 16.16571 | 148.70135 | 183.07848 | 4.68841 | 0.1625662 | 0.27318011 | 2.3523575 | 21 | 10 30.1 | 19.2 |
| 276636 2003 $UC_{201}$ | 17.2 | X | 303.37880 | 280.39465 | 154.31865 | 2.40630 | 0.0767123 | 0.27571951 | 2.3378917 | 21 | 11 14.3 | 19.5 |
| 276637 2003 $UA_{208}$ | 15.5 | X | 36.38082 | 44.88611 | 25.00095 | 7.49314 | 0.1426228 | 0.17684730 | 3.1434297 | 21 | — | — |
| 276638 2003 $UU_{208}$ | 16.5 | X | 54.71821 | 241.97478 | 140.42002 | 1.93958 | 0.1855572 | 0.17381297 | 3.1799083 | 21 | — | — |
| 276639 2003 $UK_{210}$ | 17.6 | X | 129.42161 | 15.48698 | 59.03895 | 5.32625 | 0.1127537 | 0.30356159 | 2.1926611 | 21 | 3 29.3 | 20.2 |
| 276640 2003 $UP_{210}$ | 16.3 | X | 111.03143 | 44.79224 | 20.05934 | 3.05977 | 0.1682156 | 0.18807186 | 3.0170800 | 21 | 3 15.0 | 20.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276641 2003 $UM_{213}$ | 16.5 | X | 166.12338 | 102.23672 | 227.93264 | 4.61707 | 0.1538844 | 0.18562335 | 3.0435538 | 21 | 1 14.9 | 21.4 |
| 276642 2003 $UW_{220}$ | 15.5 | X | 250.41488 | 80.28436 | 218.09877 | 10.41238 | 0.0743598 | 0.19479562 | 2.9472474 | 21 | 2 23.0 | 20.1 |
| 276643 2003 $UD_{226}$ | 16.1 | X | 31.12833 | 271.62153 | 69.81399 | 8.98007 | 0.2879886 | 0.22196273 | 2.7015687 | 21 | 12 13.6 | 19.4 |
| 276644 2003 $UW_{227}$ | 15.9 | X | 153.68618 | 355.18821 | 23.43925 | 10.43655 | 0.1152484 | 0.18862504 | 3.0111784 | 21 | 3 2.2 | 20.6 |
| 276645 2003 $UH_{243}$ | 17.0 | X | 355.30715 | 126.52711 | 230.60218 | 5.52160 | 0.1440588 | 0.27193296 | 2.3595444 | 21 | 10 23.9 | 19.0 |
| 276646 2003 $UF_{253}$ | 14.7 | X | 132.28378 | 283.79190 | 50.61568 | 22.89506 | 0.1073532 | 0.17770781 | 3.1332739 | 21 | — | — |
| 276647 2003 $UW_{253}$ | 16.2 | X | 179.60365 | 278.74475 | 36.49650 | 3.93213 | 0.2160898 | 0.18634413 | 3.0357004 | 21 | 1 14.5 | 21.4 |
| 276648 2003 $UJ_{254}$ | 16.4 | X | 183.74700 | 11.80116 | 33.15566 | 11.74793 | 0.1011347 | 0.19757750 | 2.9195174 | 21 | 4 26.8 | 20.8 |
| 276649 2003 $UL_{264}$ | 17.0 | X | 286.34212 | 347.17972 | 83.79608 | 7.17833 | 0.0855061 | 0.27048630 | 2.3679500 | 21 | 10 12.9 | 19.7 |
| 276650 2003 $UT_{271}$ | 16.4 | X | 301.73234 | 125.93416 | 222.79371 | 2.49535 | 0.2184452 | 0.20930813 | 2.8093897 | 21 | 6 12.1 | 20.0 |
| 276651 2003 $UA_{272}$ | 15.1 | X | 150.34776 | 284.86076 | 49.25679 | 16.81938 | 0.1322928 | 0.18257063 | 3.0773870 | 21 | 1 4.5 | 20.0 |
| 276652 2003 $UW_{273}$ | 15.6 | X | 161.89270 | 328.75655 | 77.10416 | 11.91861 | 0.0655156 | 0.19275492 | 2.9680125 | 21 | 4 9.9 | 20.2 |
| 276653 2003 $US_{308}$ | 15.9 | X | 242.05966 | 116.34478 | 204.20283 | 1.68729 | 0.0599409 | 0.19460576 | 2.9491640 | 21 | 3 17.4 | 20.0 |
| 276654 2003 $UP_{324}$ | 16.0 | X | 60.05647 | 73.93883 | 235.34242 | 13.85682 | 0.1122475 | 0.22843561 | 2.6502907 | 21 | 11 14.8 | 19.5 |
| 276655 2003 $UN_{368}$ | 16.7 | X | 18.03618 | 129.01755 | 72.93060 | 10.80810 | 0.0454098 | 0.19663621 | 2.9288270 | 21 | 4 18.8 | 20.6 |
| 276656 2003 $VF_{5}$ | 16.5 | X | 64.96200 | 59.83707 | 60.15569 | 11.88598 | 0.0459246 | 0.18776230 | 3.0203953 | 21 | 3 13.4 | 20.7 |
| 276657 2003 $VM_{7}$ | 17.5 | X | 351.63651 | 48.36514 | 310.07012 | 0.69004 | 0.1964743 | 0.27212082 | 2.3584583 | 21 | 10 24.4 | 19.0 |
| 276658 2003 $VQ_{11}$ | 15.8 | X | 219.00594 | 200.45488 | 200.84923 | 10.32940 | 0.1392951 | 0.20061100 | 2.8900114 | 21 | 5 27.6 | 20.4 |
| 276659 2003 $WZ_{8}$ | 16.1 | X | 152.19743 | 1.30077 | 17.06356 | 9.26167 | 0.1470487 | 0.18757777 | 3.0223759 | 21 | 3 2.2 | 20.8 |
| 276660 2003 $WB_{25}$ | 18.3 | X | 116.54122 | 210.96360 | 259.97633 | 29.79380 | 0.2888012 | 0.41333762 | 1.7848406 | 21 | 5 19.5 | 20.5 |
| 276661 2003 $WB_{40}$ | 17.8 | X | 234.00338 | 323.37754 | 21.69830 | 5.73011 | 0.1256029 | 0.30764464 | 2.1732173 | 21 | 3 24.3 | 20.9 |
| 276662 2003 $WD_{55}$ | 15.7 | X | 348.36488 | 50.83515 | 25.28014 | 7.45393 | 0.0330910 | 0.17035471 | 3.2227995 | 21 | 12 27.7 | 20.2 |
| 276663 2003 $WQ_{58}$ | 16.9 | X | 270.01340 | 121.94454 | 248.06594 | 1.10739 | 0.1846545 | 0.26076118 | 2.4264654 | 21 | 6 2.3 | 20.3 |
| 276664 2003 $WC_{59}$ | 15.3 | X | 357.03322 | 280.24518 | 237.45746 | 11.78302 | 0.1343152 | 0.18037041 | 3.1023623 | 21 | 1 11.4 | 19.3 |
| 276665 2003 $WF_{61}$ | 15.5 | X | 53.44302 | 37.41070 | 59.68381 | 28.33672 | 0.1642056 | 0.18047992 | 3.1011073 | 21 | 2 13.0 | 19.8 |
| 276666 2003 $WO_{71}$ | 15.6 | X | 30.68006 | 44.92182 | 254.69680 | 14.33472 | 0.2031116 | 0.21367923 | 2.7709446 | 21 | 9 26.8 | 19.1 |
| 276667 2003 $WH_{76}$ | 15.6 | X | 88.01482 | 70.37185 | 290.13943 | 8.09342 | 0.0766640 | 0.17488610 | 3.1668866 | 21 | — | — |
| 276668 2003 $WC_{110}$ | 15.6 | X | 74.10053 | 68.39366 | 27.33043 | 10.62769 | 0.0866314 | 0.18445406 | 3.0564026 | 21 | 2 26.9 | 19.7 |
| 276669 2003 $WL_{151}$ | 15.7 | X | 59.62028 | 22.56286 | 98.58921 | 11.42117 | 0.0458128 | 0.18581116 | 3.0415026 | 21 | 3 6.1 | 19.9 |
| 276670 2003 $WG_{156}$ | 15.2 | X | 330.84798 | 281.62128 | 95.83227 | 24.75736 | 0.3631236 | 0.21571805 | 2.7534576 | 21 | 9 23.8 | 17.7 |
| 276671 2003 $WP_{157}$ | 16.1 | X | 313.96939 | 321.44683 | 70.03550 | 24.32746 | 0.2396276 | 0.26933877 | 2.3746711 | 21 | 9 29.9 | 18.7 |
| 276672 2003 $WS_{179}$ | 16.3 | X | 107.19103 | 6.03461 | 53.36459 | 14.87510 | 0.1238758 | 0.18453143 | 3.0555483 | 21 | 3 5.7 | 20.9 |
| 276673 2003 $WC_{187}$ | 16.7 | X | 54.82811 | 258.87558 | 203.66856 | 4.44119 | 0.1038308 | 0.18516278 | 3.0485987 | 21 | 2 2.9 | 20.6 |
| 276674 2003 $WQ_{189}$ | 15.3 | X | 85.01010 | 257.25639 | 166.28908 | 16.80989 | 0.2459479 | 0.18135435 | 3.0911309 | 21 | 2 19.4 | 19.3 |
| 276675 2003 $WX_{190}$ | 17.1 | X | 26.64250 | 79.78344 | 262.62342 | 5.98301 | 0.2216724 | 0.27898166 | 2.3196312 | 21 | 12 11.1 | 19.8 |
| 276676 2003 $WV_{192}$ | 15.8 | X | 77.95032 | 357.13551 | 92.59014 | 10.40126 | 0.1138850 | 0.18398151 | 3.0616339 | 21 | 2 27.9 | 19.9 |
| 276677 2003 $WW_{192}$ | 17.2 | X | 51.56416 | 345.41291 | 53.28717 | 4.76686 | 0.2528776 | 0.28391572 | 2.2926782 | 21 | — | — |
| 276678 2003 $XB_{2}$ | 15.2 | X | 190.09401 | 280.59277 | 78.28023 | 10.89317 | 0.1161795 | 0.18954363 | 3.0014418 | 21 | 3 15.5 | 20.1 |
| 276679 2003 $XL_{18}$ | 15.7 | X | 23.86273 | 77.62820 | 331.22878 | 12.30950 | 0.2833699 | 0.17137976 | 3.2099360 | 21 | — | — |
| 276680 2003 $XR_{24}$ | 16.3 | X | 354.87734 | 110.15615 | 25.01913 | 11.11871 | 0.1425017 | 0.17644069 | 3.1482573 | 21 | — | — |
| 276681 Loremaes | 16.7 | X | 329.52016 | 41.94373 | 317.86769 | 4.33876 | 0.1167133 | 0.26555712 | 2.3971622 | 21 | 9 3.3 | 18.8 |
| 276682 2003 $YE_{25}$ | 16.8 | X | 252.41040 | 9.29065 | 83.44011 | 3.13656 | 0.1375180 | 0.26439487 | 2.4041821 | 21 | 9 11.9 | 19.9 |
| 276683 2003 $YQ_{34}$ | 15.5 | X | 184.23560 | 294.55137 | 74.27016 | 12.32504 | 0.2642108 | 0.19038779 | 2.9925631 | 21 | 3 26.0 | 21.0 |
| 276684 2003 $YS_{36}$ | 17.5 | X | 63.06366 | 118.62130 | 309.85068 | 4.72455 | 0.1283989 | 0.28650497 | 2.2788441 | 21 | — | — |
| 276685 2003 $YX_{40}$ | 15.5 | X | 117.88071 | 308.80125 | 107.17139 | 16.70135 | 0.0355652 | 0.17893888 | 3.1188865 | 21 | 2 27.6 | 20.1 |
| 276686 2003 $YY_{41}$ | 17.8 | X | 51.08266 | 132.72513 | 104.38717 | 5.48798 | 0.0920994 | 0.30766368 | 2.1731276 | 21 | 7 28.5 | 19.8 |
| 276687 2003 $YX_{45}$ | 14.9 | X | 353.20340 | 78.19094 | 60.89430 | 24.80711 | 0.1897477 | 0.17401251 | 3.1774769 | 21 | — | — |
| 276688 2003 $YD_{58}$ | 16.6 | X | 216.00323 | 23.64799 | 98.11160 | 6.28305 | 0.1482444 | 0.26187205 | 2.4195983 | 21 | 9 7.5 | 20.2 |
| 276689 2003 $YD_{90}$ | 17.3 | X | 131.22100 | 281.42953 | 93.31989 | 5.15736 | 0.2149297 | 0.29070314 | 2.2568511 | 21 | 1 23.9 | 20.1 |
| 276690 2003 $YW_{91}$ | 15.1 | X | 155.57414 | 202.47463 | 76.34900 | 20.57522 | 0.0017033 | 0.17073910 | 3.2179606 | 21 | — | — |
| 276691 2003 $YU_{107}$ | 15.9 | X | 122.02922 | 358.05947 | 42.62810 | 12.19546 | 0.0871873 | 0.18046457 | 3.1012832 | 21 | 2 22.1 | 20.5 |
| 276692 2003 $YC_{113}$ | 15.1 | X | 173.66470 | 286.12278 | 79.17549 | 15.91532 | 0.2437750 | 0.18501340 | 3.0502394 | 21 | 3 16.0 | 20.6 |
| 276693 2003 $YZ_{116}$ | 15.4 | X | 24.59899 | 28.04301 | 92.90442 | 28.95977 | 0.1711952 | 0.17373414 | 3.1808702 | 21 | 1 12.5 | 19.1 |
| 276694 2003 $YE_{125}$ | 14.7 | X | 77.44612 | 71.19922 | 284.60937 | 12.04215 | 0.2949844 | 0.17318074 | 3.1876429 | 21 | — | — |
| 276695 2003 $YE_{127}$ | 15.4 | X | 78.48969 | 15.55165 | 79.26746 | 20.05185 | 0.0769892 | 0.17976376 | 3.1093381 | 21 | 3 8.7 | 20.0 |
| 276696 2003 $YA_{131}$ | 15.1 | X | 351.78774 | 54.77602 | 82.38100 | 21.72034 | 0.0752746 | 0.17248440 | 3.1962163 | 21 | — | — |
| 276697 2003 $YX_{149}$ | 15.2 | X | 128.35526 | 9.74305 | 19.89452 | 10.74823 | 0.0739784 | 0.18025278 | 3.1037119 | 21 | 2 12.9 | 19.8 |
| 276698 2004 $AA_{7}$ | 17.4 | X | 1.99665 | 213.77604 | 304.47546 | 7.42865 | 0.0531225 | 0.28836052 | 2.2690576 | 21 | 1 3.7 | 20.0 |
| 276699 2004 $AJ_{14}$ | 15.7 | X | 51.53709 | 46.75172 | 151.97196 | 5.64232 | 0.1373792 | 0.24507423 | 2.5289347 | 21 | 6 7.5 | 18.5 |
| 276700 2004 $AJ_{15}$ | 16.2 | X | 52.27350 | 354.49998 | 107.12700 | 11.81702 | 0.0295345 | 0.17532487 | 3.1616008 | 21 | 1 28.5 | 20.5 |
| 276701 2004 $BH_{1}$ | 15.4 | X | 209.54475 | 227.44684 | 132.36561 | 13.21773 | 0.1029212 | 0.18461701 | 3.0546039 | 21 | 4 3.9 | 20.3 |
| 276702 2004 $BZ_{9}$ | 15.4 | X | 151.76697 | 279.41759 | 108.32952 | 14.39082 | 0.0825166 | 0.17853669 | 3.1235687 | 21 | 3 10.4 | 20.3 |
| 276703 2004 $BL_{11}$ | 19.1 | X | 218.06698 | 176.94225 | 142.42670 | 9.81431 | 0.7500013 | 0.69668648 | 1.2602145 | 21 | 1 20.7 | 20.8 |
| 276704 2004 $BS_{13}$ | 16.8 | X | 218.98172 | 262.76686 | 323.34978 | 7.19060 | 0.0355103 | 0.27566913 | 2.3381765 | 21 | — | — |
| 276705 2004 $BR_{27}$ | 15.7 | X | 132.98097 | 301.88744 | 97.03409 | 10.62588 | 0.0845319 | 0.17939282 | 3.1136228 | 21 | 3 2.4 | 20.4 |
| 276706 2004 $BV_{27}$ | 15.2 | X | 169.59827 | 246.06700 | 117.22955 | 10.79717 | 0.0521432 | 0.17633608 | 3.1495022 | 21 | 2 23.5 | 19.9 |
| 276707 2004 $BN_{32}$ | 15.8 | X | 153.00663 | 27.62518 | 342.21948 | 5.39359 | 0.1309537 | 0.17778164 | 3.1324064 | 21 | 2 18.4 | 20.6 |
| 276708 2004 $BW_{32}$ | 15.5 | X | 341.70237 | 55.11803 | 118.11910 | 13.50791 | 0.0521881 | 0.17331329 | 3.1860174 | 21 | 1 22.2 | 19.8 |
| 276709 2004 $BA_{33}$ | 15.8 | X | 192.49365 | 239.83103 | 104.47058 | 4.99426 | 0.0298742 | 0.17782030 | 3.1319525 | 21 | 2 24.3 | 20.4 |
| 276710 2004 $BZ_{34}$ | 17.7 | X | 145.05684 | 119.13727 | 322.39426 | 6.20049 | 0.1251962 | 0.29988211 | 2.2105602 | 21 | 4 23.9 | 20.8 |
| 276711 2004 $BS_{49}$ | 16.9 | X | 196.47685 | 344.95197 | 126.27753 | 7.25501 | 0.0883650 | 0.25502586 | 2.4627098 | 21 | 8 4.3 | 20.2 |
| 276712 2004 $BG_{70}$ | 17.0 | X | 289.75519 | 61.56910 | 98.63349 | 5.72890 | 0.1953049 | 0.27560546 | 2.3385366 | 21 | — | — |
| 276713 2004 $BH_{74}$ | 17.6 | X | 226.02915 | 305.57313 | 142.69566 | 2.71211 | 0.1912026 | 0.25642885 | 2.4537188 | 21 | 7 28.4 | 21.3 |
| 276714 2004 $BW_{106}$ | 17.2 | X | 90.01405 | 53.26882 | 100.47217 | 6.33842 | 0.0774755 | 0.30005642 | 2.2097040 | 21 | 5 21.4 | 19.6 |
| 276715 2004 $BC_{148}$ | 15.8 | X | 93.43806 | 351.01337 | 95.91977 | 10.30846 | 0.0459017 | 0.18015649 | 3.1048178 | 21 | 3 8.5 | 20.2 |
| 276716 2004 $BH_{152}$ | 16.1 | X | 79.42556 | 94.13564 | 8.39161 | 14.74091 | 0.2082076 | 0.17954899 | 3.1118171 | 21 | 3 28.4 | 20.0 |
| 276717 2004 $CW_{6}$ | 16.9 | X | 16.44499 | 259.69078 | 329.00672 | 8.01574 | 0.0646219 | 0.29801968 | 2.2197603 | 21 | 5 4.5 | 19.4 |
| 276718 2004 $CZ_{7}$ | 17.4 | X | 104.62348 | 84.89147 | 42.90777 | 7.09408 | 0.0757916 | 0.29797962 | 2.2199593 | 21 | 5 2.8 | 19.9 |
| 276719 2004 $CL_{15}$ | 15.4 | X | 175.06047 | 237.64586 | 143.51517 | 11.07984 | 0.1853204 | 0.18117125 | 3.0932132 | 21 | 3 28.5 | 20.6 |
| 276720 2004 $CV_{19}$ | 15.3 | X | 200.33521 | 214.50527 | 119.89029 | 11.40050 | 0.0894775 | 0.17690726 | 3.1427195 | 21 | 2 22.3 | 20.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276721 2004 $CF_{21}$ | 17.5 | X | 52.72855 | 130.92884 | 61.33480 | 5.38877 | 0.0938581 | 0.29808770 | 2.2194226 | 21 | 5 19.8 | 19.4 |
| 276722 2004 $CB_{44}$ | 18.1 | X | 134.83324 | 55.27631 | 19.84797 | 2.28924 | 0.1821017 | 0.29640984 | 2.2277903 | 21 | 4 13.2 | 21.1 |
| 276723 2004 $CO_{45}$ | 17.0 | X | 77.51145 | 135.46986 | 58.67174 | 4.70299 | 0.0598020 | 0.30300730 | 2.1953343 | 21 | 6 28.1 | 19.3 |
| 276724 2004 $CO_{47}$ | 16.5 | X | 202.53706 | 126.20883 | 107.09177 | 7.88620 | 0.1932474 | 0.26973817 | 2.3723264 | 21 | — | — |
| 276725 2004 $CT_{95}$ | 16.7 | X | 59.99179 | 26.48011 | 145.17314 | 6.46031 | 0.0874965 | 0.29420280 | 2.2389180 | 21 | 5 2.6 | 19.0 |
| 276726 2004 $CD_{100}$ | 16.6 | X | 277.34656 | 149.54413 | 2.84266 | 9.97254 | 0.0760073 | 0.26967918 | 2.3726723 | 21 | — | — |
| 276727 2004 $CX_{104}$ | 16.8 | X | 70.51220 | 218.21996 | 289.91173 | 1.71889 | 0.1003355 | 0.29290201 | 2.2455418 | 21 | 4 12.5 | 19.0 |
| 276728 2004 $CO_{110}$ | 17.3 | X | 160.91266 | 85.99287 | 339.81998 | 6.33958 | 0.1119347 | 0.29790795 | 2.2203153 | 21 | 4 19.8 | 20.4 |
| 276729 2004 $DN_{37}$ | 17.5 | X | 345.31902 | 78.84806 | 137.09955 | 4.86041 | 0.1443734 | 0.28821134 | 2.2698405 | 21 | 2 14.9 | 19.9 |
| 276730 2004 $DE_{49}$ | 17.1 | X | 21.63211 | 205.44458 | 350.56581 | 4.51127 | 0.1651366 | 0.29026673 | 2.2591126 | 21 | 3 24.9 | 18.7 |
| 276731 2004 $ET_{7}$ | 17.7 | X | 328.29944 | 176.29119 | 39.06760 | 2.88395 | 0.1674931 | 0.28341641 | 2.2953701 | 21 | 1 17.3 | 20.3 |
| 276732 2004 $EV_{9}$ | 17.7 | X | 291.29492 | 226.70472 | 172.42127 | 40.83237 | 0.7807012 | 0.55247649 | 1.4709351 | 21 | 5 22.2 | 21.4 |
| 276733 2004 $EP_{12}$ | 16.8 | X | 85.74529 | 21.34774 | 348.77324 | 4.88281 | 0.0272514 | 0.27293252 | 2.3537800 | 21 | — | — |
| 276734 2004 $EL_{13}$ | 17.0 | X | 88.48901 | 53.15743 | 46.15773 | 6.16781 | 0.0956676 | 0.28888925 | 2.2662881 | 21 | 3 5.1 | 19.4 |
| 276735 2004 $EE_{14}$ | 16.9 | X | 3.33074 | 160.22504 | 66.80425 | 5.83522 | 0.1174004 | 0.29171849 | 2.2516112 | 21 | 4 12.1 | 18.9 |
| 276736 2004 $EU_{34}$ | 17.5 | X | 58.49325 | 88.85038 | 26.47793 | 8.55140 | 0.1864111 | 0.28637877 | 2.2795135 | 21 | 2 13.5 | 19.3 |
| 276737 2004 $ET_{37}$ | 17.0 | X | 3.45484 | 288.79680 | 263.18635 | 2.32145 | 0.0942180 | 0.28808773 | 2.2704897 | 21 | 2 16.4 | 19.1 |
| 276738 2004 $ET_{42}$ | 17.1 | X | 58.43834 | 129.72441 | 7.96226 | 1.87749 | 0.1402394 | 0.28901629 | 2.2656240 | 21 | 3 11.8 | 18.9 |
| 276739 2004 $EB_{46}$ | 17.8 | X | 345.48546 | 55.92747 | 187.92558 | 4.21166 | 0.1227996 | 0.29357040 | 2.2421321 | 21 | 3 31.5 | 19.8 |
| 276740 2004 $EA_{66}$ | 17.1 | X | 286.14171 | 187.19183 | 318.96759 | 2.89454 | 0.1455254 | 0.27026380 | 2.3692495 | 21 | — | — |
| 276741 2004 $EM_{66}$ | 16.5 | X | 327.13701 | 200.49659 | 40.68663 | 12.76989 | 0.4020043 | 0.28392270 | 2.2926406 | 21 | 1 18.6 | 20.0 |
| 276742 2004 $ED_{90}$ | 17.3 | X | 114.54036 | 322.88501 | 156.29920 | 6.05959 | 0.1018156 | 0.29417940 | 2.2390367 | 21 | 5 11.1 | 20.1 |
| 276743 2004 $EZ_{99}$ | 17.7 | X | 289.58115 | 315.13886 | 346.59730 | 6.41429 | 0.1326169 | 0.29190098 | 2.2506727 | 21 | 3 27.4 | 20.4 |
| 276744 2004 $FK_{18}$ | 17.5 | X | 51.10907 | 38.78280 | 115.38847 | 6.40924 | 0.0772653 | 0.28690212 | 2.2767406 | 21 | 3 21.5 | 19.8 |
| 276745 2004 $FE_{23}$ | 17.3 | X | 354.76459 | 283.47600 | 177.59009 | 6.72242 | 0.0684421 | 0.27311924 | 2.3527070 | 21 | — | — |
| 276746 2004 $FG_{27}$ | 17.0 | X | 328.90881 | 247.08858 | 0.18122 | 6.74230 | 0.0557870 | 0.28950786 | 2.2630587 | 21 | 3 20.1 | 19.4 |
| 276747 2004 $FX_{30}$ | 16.7 | X | 290.89325 | 232.86882 | 54.83112 | 25.30359 | 0.1549990 | 0.28705663 | 2.2759235 | 21 | 3 26.1 | 20.3 |
| 276748 2004 $FT_{32}$ | 17.0 | X | 342.59455 | 52.42994 | 183.78502 | 23.31472 | 0.1763964 | 0.28916212 | 2.2648622 | 21 | 3 4.0 | 19.5 |
| 276749 2004 $FE_{67}$ | 17.4 | X | 279.04380 | 226.67380 | 32.64275 | 7.71106 | 0.0880205 | 0.28243895 | 2.3006629 | 21 | 1 28.2 | 20.6 |
| 276750 2004 $FR_{85}$ | 17.8 | X | 354.03307 | 114.97018 | 108.59189 | 6.05032 | 0.1448497 | 0.29115251 | 2.2545283 | 21 | 3 16.5 | 19.9 |
| 276751 2004 $FG_{90}$ | 18.0 | X | 331.55503 | 92.70192 | 140.08514 | 4.45009 | 0.1544854 | 0.28624390 | 2.2802295 | 21 | 2 16.1 | 20.3 |
| 276752 2004 $FG_{108}$ | 17.0 | X | 240.59196 | 290.22076 | 10.13057 | 6.33592 | 0.1389291 | 0.28184058 | 2.3039181 | 21 | 2 5.1 | 20.5 |
| 276753 2004 $FE_{122}$ | 17.2 | X | 307.95547 | 188.46611 | 37.64705 | 7.17986 | 0.1819088 | 0.27959704 | 2.3162264 | 21 | 1 5.6 | 20.6 |
| 276754 2004 $FV_{129}$ | 16.0 | X | 359.72862 | 123.47153 | 73.52481 | 13.62191 | 0.1160241 | 0.22939757 | 2.6428764 | 21 | 3 9.3 | 19.3 |
| 276755 2004 $FZ_{135}$ | 17.5 | X | 296.00419 | 74.79890 | 179.46662 | 3.00179 | 0.1703615 | 0.28233277 | 2.3012397 | 21 | 1 28.0 | 20.6 |
| 276756 2004 $FS_{138}$ | 17.3 | X | 0.54877 | 192.35722 | 337.90282 | 4.94833 | 0.1788099 | 0.28248351 | 2.3004209 | 21 | 1 1.2 | 19.6 |
| 276757 2004 $FK_{145}$ | 15.4 | X | 298.10213 | 282.16394 | 359.13306 | 23.80905 | 0.1869864 | 0.17527488 | 3.1622019 | 21 | 3 19.8 | 19.8 |
| 276758 2004 $FK_{147}$ | 16.4 | X | 301.25675 | 121.82104 | 167.08830 | 23.02992 | 0.2128710 | 0.28329285 | 2.2960375 | 21 | 3 16.6 | 19.5 |
| 276759 2004 $FZ_{159}$ | 17.5 | X | 175.26833 | 21.28151 | 61.05818 | 4.34380 | 0.1060347 | 0.29967536 | 2.2115768 | 21 | 5 31.5 | 20.5 |
| 276760 2004 $GA_{19}$ | 17.1 | X | 332.82402 | 96.77054 | 117.11102 | 11.47095 | 0.1073756 | 0.28321332 | 2.2964673 | 21 | 1 31.3 | 19.7 |
| 276761 2004 $GU_{21}$ | 16.6 | X | 350.63184 | 318.06993 | 240.16264 | 7.58653 | 0.1601643 | 0.28617121 | 2.2806156 | 21 | 1 23.8 | 19.2 |
| 276762 2004 $GP_{40}$ | 17.2 | X | 302.45405 | 63.91156 | 61.47920 | 3.25055 | 0.1610289 | 0.26734115 | 2.3864857 | 21 | — | — |
| 276763 2004 $GD_{42}$ | 16.5 | X | 244.72053 | 98.14499 | 93.32779 | 6.89831 | 0.0865640 | 0.26605456 | 2.3941733 | 21 | — | — |
| 276764 2004 $GN_{42}$ | 17.3 | X | 239.33281 | 55.83685 | 171.54532 | 4.25182 | 0.1014844 | 0.26958055 | 2.3732510 | 21 | — | — |
| 276765 2004 $GB_{45}$ | 17.7 | X | 30.37781 | 221.03182 | 292.68000 | 2.28448 | 0.1137802 | 0.28594392 | 2.2818240 | 21 | 2 7.2 | 19.6 |
| 276766 2004 $GM_{60}$ | 17.3 | X | 226.45650 | 52.44440 | 179.60099 | 6.58709 | 0.1238512 | 0.26798977 | 2.3826335 | 21 | — | — |
| 276767 2004 $GM_{64}$ | 16.6 | X | 155.08073 | 23.21711 | 2.10995 | 7.14372 | 0.1191591 | 0.28301184 | 2.2975571 | 21 | 2 24.9 | 19.8 |
| 276768 2004 $GR_{71}$ | 16.0 | X | 29.90690 | 155.63905 | 100.04430 | 5.15645 | 0.2701132 | 0.18233765 | 3.0800078 | 21 | 8 10.1 | 19.2 |
| 276769 2004 $GO_{87}$ | 16.7 | X | 262.19503 | 244.50983 | 72.12655 | 23.80539 | 0.2488122 | 0.28215403 | 2.3022115 | 21 | 3 23.1 | 21.0 |
| 276770 2004 $HC$ | 19.9 | X | 79.80943 | 159.35986 | 202.98613 | 28.98231 | 0.5986895 | 1.40589376 | 0.7891648 | 21 | — | — |
| 276771 2004 $HN_{18}$ | 16.6 | X | 348.39140 | 320.55835 | 284.94065 | 3.45506 | 0.0564532 | 0.28926956 | 2.2643014 | 21 | 4 15.4 | 19.2 |
| 276772 2004 $HG_{28}$ | 16.9 | X | 294.25837 | 199.95157 | 82.92582 | 5.20572 | 0.1327571 | 0.28409159 | 2.2917318 | 21 | 3 13.1 | 19.9 |
| 276773 2004 $HT_{34}$ | 17.7 | X | 324.61553 | 13.08669 | 210.08935 | 6.02019 | 0.1266628 | 0.28411666 | 2.2915970 | 21 | 1 26.5 | 20.5 |
| 276774 2004 $HG_{38}$ | 17.3 | X | 216.01136 | 111.73241 | 147.05118 | 5.87286 | 0.2195533 | 0.26845035 | 2.3799075 | 21 | — | — |
| 276775 2004 $HS_{48}$ | 16.9 | X | 334.91892 | 322.31957 | 273.05221 | 6.99774 | 0.1712266 | 0.28469645 | 2.2884847 | 21 | 2 18.7 | 19.5 |
| 276776 2004 $HU_{49}$ | 17.1 | X | 304.17390 | 138.48684 | 74.02858 | 8.00686 | 0.1548513 | 0.27798860 | 2.3251522 | 21 | — | — |
| 276777 2004 $HW_{59}$ | 17.1 | X | 314.06351 | 145.38378 | 101.82470 | 3.23012 | 0.1817300 | 0.28182469 | 2.3040047 | 21 | 2 8.9 | 19.9 |
| 276778 2004 $HD_{65}$ | 17.6 | X | 197.86556 | 270.38222 | 327.35615 | 1.68439 | 0.1383405 | 0.26429883 | 2.4047645 | 21 | — | — |
| 276779 2004 $JO_{13}$ | 17.2 | X | 185.60171 | 351.58168 | 261.93756 | 4.09983 | 0.1469686 | 0.26295790 | 2.4129329 | 21 | — | — |
| 276780 2004 $JR_{13}$ | 17.4 | X | 283.44845 | 217.46153 | 66.63343 | 6.41940 | 0.1649215 | 0.28198355 | 2.3031393 | 21 | 2 26.7 | 20.7 |
| 276781 Montchaibeux | 17.0 | X | 237.95609 | 235.05428 | 56.11802 | 7.67937 | 0.1064363 | 0.27544801 | 2.3394277 | 21 | 1 23.5 | 20.5 |
| 276782 2004 $JP_{28}$ | 17.3 | X | 224.00509 | 24.57969 | 206.10280 | 4.84442 | 0.1847436 | 0.26586845 | 2.3952904 | 21 | — | — |
| 276783 2004 $JE_{33}$ | 17.1 | X | 285.87079 | 81.18942 | 193.14750 | 6.63143 | 0.1060127 | 0.28148755 | 2.3058440 | 21 | 2 18.4 | 20.2 |
| 276784 2004 $JC_{43}$ | 16.8 | X | 244.88986 | 185.57552 | 88.13481 | 7.20750 | 0.1529720 | 0.27281410 | 2.3544610 | 21 | 1 6.0 | 20.3 |
| 276785 2004 $KA_{1}$ | 18.2 | X | 48.25590 | 258.08177 | 85.30460 | 14.49488 | 0.1527563 | 0.42519008 | 1.7515154 | 21 | — | — |
| 276786 2004 $KD_{1}$ | 17.7 | X | 210.54218 | 9.92124 | 271.49635 | 10.12391 | 0.3302206 | 0.43697521 | 1.7198801 | 21 | — | — |
| 276787 2004 $KV_{5}$ | 17.0 | X | 247.98292 | 60.24543 | 227.91318 | 12.59456 | 0.2026739 | 0.27523013 | 2.3406622 | 21 | 1 20.5 | 21.1 |
| 276788 2004 $KR_{18}$ | 15.6 | X | 92.15770 | 212.86514 | 65.64184 | 10.09132 | 0.2345979 | 0.18771316 | 3.0209224 | 21 | 11 19.9 | 20.5 |
| 276789 2004 $LA_{26}$ | 16.7 | X | 4.65872 | 155.69681 | 165.50607 | 4.40345 | 0.2724975 | 0.23332682 | 2.6131216 | 21 | 9 27.6 | 18.5 |
| 276790 2004 $NQ_{5}$ | 17.0 | X | 163.73777 | 304.33437 | 3.38457 | 3.49789 | 0.1721392 | 0.25964348 | 2.4334239 | 21 | — | — |
| 276791 2004 $NT_{6}$ | 16.6 | X | 332.50831 | 193.11184 | 119.68019 | 9.88431 | 0.3114024 | 0.22695751 | 2.6617852 | 21 | 6 1.1 | 19.1 |
| 276792 2004 $NO_{14}$ | 17.3 | X | 144.25904 | 135.18389 | 183.52539 | 2.18563 | 0.1826968 | 0.25793575 | 2.4441528 | 21 | — | — |
| 276793 2004 $NS_{15}$ | 16.9 | X | 202.13245 | 131.72545 | 168.13717 | 2.79892 | 0.1901559 | 0.26468666 | 2.4024149 | 21 | 1 1.5 | 20.8 |
| 276794 2004 $NC_{23}$ | 16.1 | X | 283.40656 | 39.64083 | 322.90432 | 23.85949 | 0.1256568 | 0.28241942 | 2.3007690 | 21 | 6 21.7 | 19.4 |
| 276795 2004 $NT_{30}$ | 17.1 | X | 219.73777 | 150.05254 | 130.31514 | 9.16576 | 0.2058221 | 0.26535927 | 2.3983535 | 21 | — | — |
| 276796 2004 $NB_{31}$ | 16.3 | X | 72.46032 | 279.06253 | 98.22055 | 10.17695 | 0.2283517 | 0.25176334 | 2.4839398 | 21 | — | — |
| 276797 2004 $OW_{5}$ | 16.4 | X | 112.24678 | 9.15968 | 351.13908 | 6.07819 | 0.2636979 | 0.25687074 | 2.4509039 | 21 | — | — |
| 276798 2004 $OA_{12}$ | 17.7 | X | 181.42178 | 313.59608 | 359.39946 | 2.40532 | 0.2024395 | 0.26356238 | 2.4092420 | 21 | — | — |
| 276799 2004 $OD_{12}$ | 16.7 | X | 50.65837 | 242.24118 | 50.21818 | 4.32656 | 0.1965913 | 0.23948923 | 2.5681008 | 21 | 10 27.1 | 19.9 |
| 276800 2004 $OJ_{12}$ | 17.4 | X | 115.76687 | 291.46366 | 330.36703 | 2.88232 | 0.2142857 | 0.30409584 | 2.1900922 | 21 | 12 1.1 | 21.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276801 2004 $PM$ | 16.6 | X | 281.63199 | 154.95684 | 184.75880 | 9.14125 | 0.2094091 | 0.22240083 | 2.6980196 | 21 | 5 7.1 | 20.5 |
| 276802 2004 $PZ_{2}$ | 17.6 | X | 174.15165 | 275.12404 | 44.03087 | 2.07267 | 0.2033132 | 0.26186336 | 2.4196519 | 21 | 1 1.9 | 21.3 |
| 276803 2004 $PJ_{10}$ | 17.2 | X | 206.39360 | 159.22921 | 123.73668 | 2.28084 | 0.1694112 | 0.26255938 | 2.4153738 | 21 | — | — |
| 276804 2004 $PU_{10}$ | 17.4 | X | 226.61083 | 72.10809 | 210.84204 | 2.83003 | 0.2009448 | 0.26647917 | 2.3916293 | 21 | 1 1.5 | 21.4 |
| 276805 2004 $PT_{18}$ | 17.3 | X | 139.86517 | 128.75728 | 181.48239 | 2.23182 | 0.1740005 | 0.25425079 | 2.4677122 | 21 | — | — |
| 276806 2004 $PQ_{19}$ | 16.9 | X | 73.21169 | 278.17246 | 4.59743 | 4.32527 | 0.2659682 | 0.24043164 | 2.5613856 | 21 | 11 15.7 | 20.9 |
| 276807 2004 $PP_{21}$ | 16.6 | X | 30.94098 | 144.58138 | 134.23927 | 4.30656 | 0.1031678 | 0.23336424 | 2.6128422 | 21 | 8 23.8 | 19.7 |
| 276808 2004 $PD_{24}$ | 16.8 | X | 158.66349 | 154.44210 | 155.82147 | 2.92958 | 0.2008921 | 0.25801937 | 2.4436247 | 21 | — | — |
| 276809 2004 $PE_{28}$ | 16.0 | X | 177.95533 | 129.89827 | 251.46184 | 6.80955 | 0.2458082 | 0.20974809 | 2.8054598 | 21 | 3 24.8 | 21.1 |
| 276810 2004 $PL_{29}$ | 17.0 | X | 164.96548 | 140.85444 | 150.40328 | 0.48495 | 0.1187458 | 0.25574692 | 2.4580787 | 21 | — | — |
| 276811 2004 $PF_{31}$ | 16.5 | X | 52.03834 | 310.51719 | 319.61323 | 12.89273 | 0.1462583 | 0.23502080 | 2.6005498 | 21 | 9 14.4 | 19.9 |
| 276812 2004 $PN_{33}$ | 17.0 | X | 344.60277 | 165.93813 | 141.85364 | 2.84966 | 0.1918383 | 0.22898110 | 2.6460800 | 21 | 7 7.9 | 19.2 |
| 276813 2004 $PZ_{39}$ | 15.8 | X | 272.40438 | 352.37442 | 321.46762 | 8.59225 | 0.1382991 | 0.21680853 | 2.7442172 | 21 | 3 28.5 | 19.9 |
| 276814 2004 $PK_{53}$ | 16.8 | X | 26.19226 | 16.33148 | 3.08622 | 3.29929 | 0.1369316 | 0.24543613 | 2.5264481 | 21 | — | — |
| 276815 2004 $PY_{57}$ | 16.8 | X | 108.01512 | 55.14772 | 242.94136 | 2.34429 | 0.1541155 | 0.24799113 | 2.5090652 | 21 | 12 28.8 | 20.8 |
| 276816 2004 $PQ_{58}$ | 16.9 | X | 65.90173 | 25.12250 | 269.33876 | 3.52645 | 0.1885965 | 0.24064707 | 2.5598567 | 21 | 11 14.5 | 20.5 |
| 276817 2004 $PX_{60}$ | 16.7 | X | 295.22962 | 41.79060 | 291.55357 | 3.86241 | 0.1929282 | 0.22273475 | 2.6953225 | 21 | 5 15.2 | 20.4 |
| 276818 2004 $PU_{69}$ | 16.2 | X | 321.36904 | 324.66907 | 350.61796 | 13.25546 | 0.1227118 | 0.22424228 | 2.6832288 | 21 | 6 9.9 | 19.7 |
| 276819 2004 $PZ_{75}$ | 16.3 | X | 288.27143 | 107.70166 | 143.22740 | 23.65289 | 0.2292171 | 0.27338190 | 2.3511999 | 21 | 1 12.5 | 20.3 |
| 276820 2004 $PR_{81}$ | 17.3 | X | 186.35265 | 197.96951 | 123.53514 | 2.16592 | 0.1959201 | 0.26262129 | 2.4149942 | 21 | 1 14.7 | 21.2 |
| 276821 2004 $PJ_{82}$ | 16.2 | X | 86.41886 | 174.20099 | 140.90019 | 6.22872 | 0.0209989 | 0.24519325 | 2.5281163 | 21 | 12 16.1 | 19.6 |
| 276822 2004 $PL_{91}$ | 16.3 | X | 327.21692 | 323.62692 | 71.98111 | 6.45950 | 0.2752701 | 0.23037048 | 2.6354300 | 21 | 10 14.0 | 18.1 |
| 276823 2004 $PN_{98}$ | 17.1 | X | 207.57975 | 214.76221 | 100.65377 | 6.36022 | 0.2362486 | 0.26609210 | 2.3939481 | 21 | 1 26.5 | 21.1 |
| 276824 2004 $PV_{98}$ | 16.0 | X | 245.62198 | 230.69303 | 121.69744 | 13.26342 | 0.1646546 | 0.21773169 | 2.7364549 | 21 | 4 24.9 | 20.5 |
| 276825 2004 $PM_{101}$ | 17.1 | X | 79.37931 | 323.67518 | 335.62750 | 9.33667 | 0.2815311 | 0.29957667 | 2.2120625 | 21 | 12 21.3 | 20.9 |
| 276826 2004 $PT_{101}$ | 16.0 | X | 54.06328 | 351.18797 | 359.16234 | 12.59004 | 0.2483674 | 0.24043498 | 2.5613619 | 21 | — | — |
| 276827 2004 $PD_{103}$ | 16.3 | X | 3.50540 | 136.76803 | 179.27706 | 11.94397 | 0.2615315 | 0.23157841 | 2.6262577 | 21 | 9 11.8 | 18.3 |
| 276828 2004 $PN_{103}$ | 16.4 | X | 345.98530 | 105.23382 | 279.08364 | 3.63086 | 0.2941399 | 0.23309670 | 2.6148411 | 21 | 11 20.3 | 18.1 |
| 276829 2004 $PQ_{108}$ | 16.7 | X | 322.83777 | 316.83830 | 3.15497 | 3.04887 | 0.2105027 | 0.22591280 | 2.6699850 | 21 | 6 6.9 | 19.4 |
| 276830 2004 $PF_{113}$ | 17.3 | X | 195.59948 | 317.40578 | 320.84052 | 6.23814 | 0.2708080 | 0.26163564 | 2.4210557 | 21 | — | — |
| 276831 2004 $QW_{2}$ | 17.4 | X | 212.62505 | 207.90633 | 50.06823 | 1.40756 | 0.1878249 | 0.26002711 | 2.4310299 | 21 | — | — |
| 276832 2004 $QC_{5}$ | 16.9 | X | 184.68983 | 258.73143 | 38.67658 | 4.99656 | 0.2213583 | 0.26063412 | 2.4272539 | 21 | — | — |
| 276833 2004 $QW_{14}$ | 17.2 | X | 174.01106 | 100.31375 | 213.06160 | 5.56847 | 0.1757550 | 0.25948611 | 2.4344076 | 21 | — | — |
| 276834 2004 $QW_{26}$ | 15.3 | X | 43.05065 | 34.06139 | 281.34324 | 9.20464 | 0.0368330 | 0.17863176 | 3.1224603 | 21 | 10 8.9 | 19.8 |
| 276835 2004 $RK_{2}$ | 17.3 | X | 129.11419 | 224.49284 | 225.02503 | 20.05797 | 0.0742996 | 0.38706511 | 1.8647189 | 21 | 3 24.6 | 19.5 |
| 276836 2004 $RL_{2}$ | 17.3 | X | 14.77563 | 299.06698 | 231.93559 | 19.04715 | 0.0683143 | 0.38299714 | 1.8778996 | 21 | 1 7.6 | 19.3 |
| 276837 2004 $RC_{5}$ | 17.3 | X | 194.04916 | 230.14647 | 64.97514 | 4.49173 | 0.1952748 | 0.25976148 | 2.4326869 | 21 | — | — |
| 276838 2004 $RP_{13}$ | 16.7 | X | 39.57972 | 117.64206 | 167.40244 | 14.33177 | 0.1696433 | 0.23284660 | 2.6167131 | 21 | 9 26.9 | 19.7 |
| 276839 2004 $RN_{14}$ | 17.0 | X | 204.09604 | 33.69157 | 245.14991 | 2.87314 | 0.1478671 | 0.25978228 | 2.4325571 | 21 | — | — |
| 276840 2004 $RL_{15}$ | 16.6 | X | 191.73841 | 156.13690 | 162.06479 | 14.05713 | 0.2616420 | 0.26519416 | 2.3993489 | 21 | 1 16.9 | 20.9 |
| 276841 2004 $RR_{18}$ | 16.2 | X | 324.79480 | 324.72009 | 339.55399 | 5.29596 | 0.1791916 | 0.22403655 | 2.6848712 | 21 | 5 22.4 | 19.3 |
| 276842 2004 $RZ_{20}$ | 16.4 | X | 173.40347 | 53.72010 | 333.23072 | 4.10072 | 0.1063563 | 0.20953248 | 2.8073840 | 21 | 3 23.6 | 20.8 |
| 276843 2004 $RY_{22}$ | 17.1 | X | 48.45680 | 335.58204 | 13.84741 | 1.82838 | 0.0595450 | 0.24285539 | 2.5443150 | 21 | 12 16.7 | 20.4 |
| 276844 2004 $RB_{35}$ | 15.9 | X | 283.53390 | 312.60231 | 17.28198 | 6.20482 | 0.0436418 | 0.21953230 | 2.7214714 | 21 | 5 17.7 | 19.5 |
| 276845 2004 $RS_{44}$ | 16.8 | X | 2.07247 | 130.62307 | 171.82936 | 15.22748 | 0.1576403 | 0.22948622 | 2.6421957 | 21 | 8 6.5 | 19.6 |
| 276846 2004 $RJ_{48}$ | 17.2 | X | 175.81674 | 234.62891 | 65.74234 | 2.07098 | 0.1649356 | 0.25743331 | 2.4473320 | 21 | — | — |
| 276847 2004 $RW_{51}$ | 16.3 | X | 166.31819 | 177.62552 | 159.60437 | 12.65666 | 0.2155206 | 0.26003535 | 2.4309785 | 21 | 1 16.7 | 20.2 |
| 276848 2004 $RK_{64}$ | 16.5 | X | 274.26304 | 198.74734 | 195.33342 | 3.53827 | 0.1815402 | 0.22500133 | 2.6771908 | 21 | 7 10.8 | 20.2 |
| 276849 2004 $RW_{78}$ | 16.6 | X | 26.69904 | 14.38917 | 358.09899 | 10.10970 | 0.1674200 | 0.23970866 | 2.5665333 | 21 | — | — |
| 276850 2004 $RE_{79}$ | 16.5 | X | 181.78245 | 318.11710 | 53.52028 | 2.80620 | 0.0961103 | 0.20537137 | 2.8451780 | 21 | 3 15.9 | 20.9 |
| 276851 2004 $RU_{86}$ | 16.5 | X | 254.88947 | 29.41727 | 10.79425 | 14.30614 | 0.2478053 | 0.22267602 | 2.6957963 | 21 | 6 18.2 | 21.0 |
| 276852 2004 $RK_{91}$ | 16.9 | X | 71.01341 | 73.26787 | 210.03068 | 4.03056 | 0.1904553 | 0.23932386 | 2.5692837 | 21 | 11 7.1 | 20.6 |
| 276853 2004 $RA_{93}$ | 16.3 | X | 43.30149 | 130.59253 | 219.94348 | 8.50691 | 0.0464509 | 0.24307804 | 2.5427612 | 21 | 12 9.9 | 19.7 |
| 276854 2004 $RJ_{107}$ | 15.9 | X | 313.70476 | 60.01350 | 323.93373 | 9.69824 | 0.0929685 | 0.17233853 | 3.1980196 | 21 | 9 2.1 | 20.1 |
| 276855 2004 $RB_{126}$ | 16.3 | X | 23.44273 | 8.38622 | 280.55074 | 1.17876 | 0.0427214 | 0.17006677 | 3.2264362 | 21 | 8 14.4 | 20.5 |
| 276856 2004 $RK_{130}$ | 17.0 | X | 295.27813 | 332.41408 | 351.04690 | 3.09071 | 0.0765621 | 0.22078344 | 2.7111802 | 21 | 5 20.5 | 20.6 |
| 276857 2004 $RX_{137}$ | 16.8 | X | 185.60962 | 50.62372 | 226.59922 | 12.19496 | 0.2119032 | 0.25772774 | 2.4454677 | 21 | — | — |
| 276858 2004 $RN_{145}$ | 17.2 | X | 47.02211 | 342.30491 | 22.46813 | 3.04332 | 0.1873872 | 0.24411230 | 2.5355739 | 21 | — | — |
| 276859 2004 $RG_{147}$ | 17.0 | X | 212.64888 | 205.43159 | 157.79001 | 2.99671 | 0.1997116 | 0.21165310 | 2.7886005 | 21 | 4 2.5 | 21.7 |
| 276860 2004 $RD_{148}$ | 16.0 | X | 198.86097 | 247.85150 | 128.59629 | 6.70014 | 0.0521003 | 0.21146170 | 2.7902829 | 21 | 4 9.3 | 20.1 |
| 276861 2004 $RX_{149}$ | 16.8 | X | 203.60551 | 309.88083 | 46.54816 | 3.27892 | 0.1966035 | 0.20991777 | 2.8039477 | 21 | 3 18.9 | 21.5 |
| 276862 2004 $RN_{153}$ | 16.5 | X | 141.19099 | 115.01516 | 299.45984 | 6.48575 | 0.2908713 | 0.20517703 | 2.8469744 | 21 | 4 7.4 | 21.4 |
| 276863 2004 $RW_{154}$ | 17.4 | X | 56.69005 | 146.96576 | 186.43463 | 15.04229 | 0.1529065 | 0.24195716 | 2.5506081 | 21 | 12 19.3 | 21.3 |
| 276864 2004 $RZ_{158}$ | 16.4 | X | 244.26943 | 203.52071 | 210.89933 | 4.60914 | 0.2671606 | 0.22112624 | 2.7083775 | 21 | 6 25.2 | 20.8 |
| 276865 2004 $RC_{168}$ | 16.6 | X | 204.85775 | 88.65025 | 224.99243 | 5.83991 | 0.1418230 | 0.26572155 | 2.3961732 | 21 | 1 17.4 | 20.3 |
| 276866 2004 $RH_{169}$ | 16.7 | X | 133.74104 | 109.23948 | 153.73196 | 3.10693 | 0.0582633 | 0.24321822 | 2.5417841 | 21 | 12 8.1 | 20.3 |
| 276867 2004 $RG_{171}$ | 16.7 | X | 199.29129 | 197.11675 | 187.23940 | 3.97976 | 0.1506102 | 0.21353783 | 2.7721677 | 21 | 4 16.6 | 21.0 |
| 276868 2004 $RQ_{182}$ | 16.6 | X | 89.17574 | 340.64798 | 332.52669 | 10.19088 | 0.1225494 | 0.24347733 | 2.5399804 | 21 | 12 27.0 | 20.5 |
| 276869 2004 $RP_{188}$ | 16.6 | X | 215.51537 | 54.60596 | 309.07639 | 7.17927 | 0.2438692 | 0.21145500 | 2.7903418 | 21 | 3 31.1 | 21.6 |
| 276870 2004 $RO_{190}$ | 16.2 | X | 6.21586 | 144.25878 | 208.50036 | 14.17138 | 0.1498912 | 0.23377117 | 2.6098091 | 21 | 11 1.2 | 19.0 |
| 276871 2004 $RT_{201}$ | 17.4 | X | 57.92059 | 290.19892 | 14.54334 | 3.44473 | 0.1567079 | 0.23580996 | 2.5947446 | 21 | 11 13.2 | 20.8 |
| 276872 2004 $RA_{207}$ | 17.1 | X | 194.95844 | 102.92224 | 216.08716 | 13.05296 | 0.2742017 | 0.26420126 | 2.4053565 | 21 | 1 18.8 | 21.6 |
| 276873 2004 $RV_{222}$ | 15.3 | X | 345.37174 | 117.95335 | 341.19455 | 24.26354 | 0.4673969 | 0.17716422 | 3.1396799 | 21 | — | — |
| 276874 2004 $RU_{228}$ | 17.0 | X | 109.22577 | 283.12150 | 344.20397 | 3.58273 | 0.0837146 | 0.23627252 | 2.5913570 | 21 | 11 15.2 | 20.7 |
| 276875 2004 $RR_{235}$ | 17.1 | X | 243.07503 | 128.21852 | 127.20448 | 3.32177 | 0.1897568 | 0.26417798 | 2.4054978 | 21 | — | — |
| 276876 2004 $RU_{236}$ | 16.8 | X | 244.49213 | 165.67638 | 198.32072 | 5.97421 | 0.0366145 | 0.21746948 | 2.7386540 | 21 | 5 15.9 | 20.7 |
| 276877 2004 $RY_{238}$ | 17.0 | X | 182.45743 | 32.77837 | 345.07803 | 4.08947 | 0.1220680 | 0.20893252 | 2.8127557 | 21 | 3 22.7 | 21.4 |
| 276878 2004 $RW_{240}$ | 17.0 | X | 175.60614 | 35.09944 | 351.87680 | 4.01245 | 0.1187500 | 0.20909844 | 2.8112676 | 21 | 3 27.1 | 21.2 |
| 276879 2004 $RJ_{243}$ | 16.5 | X | 198.85884 | 288.30763 | 166.45871 | 14.69398 | 0.2394953 | 0.22037998 | 2.7144882 | 21 | 7 8.8 | 21.4 |
| 276880 2004 $RV_{252}$ | 16.9 | X | 115.97190 | 146.54007 | 279.86744 | 18.54722 | 0.0844605 | 0.38246008 | 1.8796572 | 21 | 1 25.9 | 18.6 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276881 2004 $RS_{253}$ | 16.2 | X | 272.12399 | 281.64728 | 135.95314 | 11.48228 | 0.1217693 | 0.22893915 | 2.6464032 | 21 | 8 19.9 | 19.6 |
| 276882 2004 $RZ_{273}$ | 17.1 | X | 1.17705 | 281.06160 | 91.38167 | 1.94367 | 0.0708150 | 0.23794590 | 2.5791933 | 21 | 11 12.1 | 20.0 |
| 276883 2004 $RH_{277}$ | 16.6 | X | 96.26970 | 46.69447 | 274.21626 | 5.63820 | 0.1713592 | 0.24533399 | 2.5271493 | 21 | — | — |
| 276884 2004 $RC_{286}$ | 17.1 | X | 348.74323 | 326.35806 | 39.69281 | 2.68266 | 0.1236033 | 0.23428494 | 2.6059923 | 21 | 10 16.6 | 19.7 |
| 276885 2004 $RS_{306}$ | 16.0 | X | 329.71236 | 319.94040 | 55.94721 | 14.41213 | 0.2579365 | 0.22827487 | 2.6515347 | 21 | 9 25.3 | 18.3 |
| 276886 2004 $RP_{307}$ | 16.8 | X | 327.07143 | 199.76961 | 188.28240 | 8.46453 | 0.1580614 | 0.23249711 | 2.6193348 | 21 | 10 5.8 | 19.1 |
| 276887 2004 $RF_{313}$ | 16.4 | X | 241.55845 | 276.76800 | 185.84794 | 12.60206 | 0.1221406 | 0.22962181 | 2.6411555 | 21 | 9 7.3 | 20.2 |
| 276888 2004 $RM_{323}$ | 17.3 | X | 86.03089 | 49.90358 | 255.34580 | 5.56442 | 0.3899580 | 0.24432224 | 2.5341212 | 21 | 12 31.9 | 22.1 |
| 276889 2004 $RK_{333}$ | 16.9 | X | 25.66857 | 242.90770 | 133.17266 | 7.53105 | 0.1992275 | 0.24090005 | 2.5580643 | 21 | — | — |
| 276890 2004 $RU_{333}$ | 17.1 | X | 57.36553 | 234.52160 | 122.38086 | 7.01001 | 0.2287533 | 0.24401791 | 2.5362278 | 21 | — | — |
| 276891 2004 $RH_{340}$ | 19.4 | X | 155.92940 | 335.42480 | 51.55150 | 26.10928 | 0.3813115 | 0.66908999 | 1.2946321 | 21 | — | — |
| 276892 2004 $RD_{341}$ | 15.5 | X | 27.77773 | 73.46556 | 227.28665 | 15.24209 | 0.2334820 | 0.17686192 | 3.1432566 | 21 | 9 25.1 | 19.4 |
| 276893 2004 $RS_{343}$ | 16.1 | X | 335.45633 | 289.30834 | 77.86783 | 14.43687 | 0.0605728 | 0.22997548 | 2.6384469 | 21 | 10 2.6 | 19.6 |
| 276894 2004 $RR_{345}$ | 16.3 | X | 67.13098 | 282.11268 | 51.65038 | 13.88680 | 0.1619320 | 0.24279002 | 2.5447717 | 21 | — | — |
| 276895 2004 $RH_{346}$ | 17.2 | X | 153.76877 | 237.37400 | 67.84512 | 2.15832 | 0.1778426 | 0.25449464 | 2.4661356 | 21 | — | — |
| 276896 2004 $RX_{346}$ | 15.9 | X | 66.22843 | 110.50741 | 221.40802 | 13.93696 | 0.0700299 | 0.23915012 | 2.5705278 | 21 | 12 16.6 | 19.6 |
| 276897 2004 $RH_{351}$ | 17.5 | X | 186.32905 | 91.63416 | 195.56018 | 0.93385 | 0.1727058 | 0.25714550 | 2.4491577 | 21 | — | — |
| 276898 2004 $RF_{356}$ | 17.0 | X | 124.79128 | 251.61895 | 185.34467 | 4.23408 | 0.0463318 | 0.20583435 | 2.8409100 | 21 | 3 27.0 | 20.7 |
| 276899 2004 $SL_{4}$ | 16.8 | X | 266.94724 | 102.53697 | 262.43463 | 2.91928 | 0.0892696 | 0.22203438 | 2.7009874 | 21 | 6 6.5 | 20.3 |
| 276900 2004 $SB_{8}$ | 15.4 | X | 169.51025 | 356.87327 | 173.22758 | 17.24176 | 0.0705420 | 0.17249613 | 3.1960715 | 21 | 9 14.5 | 20.1 |
| 276901 2004 $SF_{11}$ | 17.7 | X | 202.30074 | 290.33791 | 12.32161 | 14.80159 | 0.2885525 | 0.26371135 | 2.4083346 | 21 | 1 11.8 | 22.3 |
| 276902 2004 $SE_{12}$ | 16.1 | X | 356.44502 | 292.18757 | 98.49099 | 14.40713 | 0.1055853 | 0.23807802 | 2.5782391 | 21 | 12 4.7 | 19.1 |
| 276903 2004 $SC_{26}$ | 16.5 | X | 3.86275 | 312.97418 | 56.01421 | 14.33805 | 0.1221607 | 0.23502243 | 2.6005378 | 21 | 11 16.3 | 19.3 |
| 276904 2004 $SO_{27}$ | 17.8 | X | 231.56173 | 102.79714 | 171.74582 | 10.89861 | 0.2482965 | 0.26407490 | 2.4061238 | 21 | — | — |
| 276905 2004 $SM_{31}$ | 16.4 | X | 341.48566 | 358.15811 | 9.24247 | 13.70354 | 0.1694615 | 0.23155616 | 2.6264259 | 21 | 10 4.2 | 18.6 |
| 276906 2004 $SD_{36}$ | 15.6 | X | 40.36343 | 304.48408 | 328.39038 | 14.20437 | 0.0598227 | 0.17067700 | 3.2187411 | 21 | 8 19.7 | 19.9 |
| 276907 2004 $SE_{37}$ | 16.3 | X | 92.78337 | 175.82221 | 314.49317 | 7.75247 | 0.1483461 | 0.21255038 | 2.7807469 | 21 | 5 5.5 | 20.3 |
| 276908 2004 $SU_{60}$ | 14.7 | X | 345.77944 | 314.35483 | 96.20005 | 16.73329 | 0.1171271 | 0.17417739 | 3.1754713 | 21 | 11 30.1 | 18.7 |
| 276909 2004 $TZ_{4}$ | 16.8 | X | 271.32312 | 25.88374 | 337.86184 | 1.57614 | 0.1077645 | 0.21701968 | 2.7424368 | 21 | 6 7.8 | 20.5 |
| 276910 2004 $TP_{10}$ | 17.9 | X | 27.90941 | 249.38151 | 197.82474 | 21.09361 | 0.1023864 | 0.36762413 | 1.9298937 | 21 | — | — |
| 276911 2004 $TZ_{10}$ | 17.6 | X | 33.93891 | 65.37054 | 18.86839 | 21.54241 | 0.1210089 | 0.36890502 | 1.9254238 | 21 | — | — |
| 276912 2004 $TC_{12}$ | 17.0 | X | 37.34816 | 226.55362 | 147.40014 | 3.95638 | 0.1662080 | 0.24139449 | 2.5545701 | 21 | — | — |
| 276913 2004 $TS_{22}$ | 16.2 | X | 336.41898 | 342.99900 | 4.75975 | 19.06692 | 0.0705388 | 0.22783770 | 2.6549254 | 21 | 9 4.3 | 19.5 |
| 276914 2004 $TC_{32}$ | 16.7 | X | 317.90729 | 41.41760 | 276.67106 | 2.88760 | 0.2485739 | 0.22202539 | 2.7010603 | 21 | 5 19.6 | 19.7 |
| 276915 2004 $TU_{37}$ | 16.5 | X | 355.99544 | 94.01800 | 198.33161 | 3.21632 | 0.1415407 | 0.22268245 | 2.6957444 | 21 | 7 10.5 | 19.3 |
| 276916 2004 $TS_{41}$ | 16.2 | X | 200.76009 | 78.13022 | 352.42726 | 4.38274 | 0.1434328 | 0.21478462 | 2.7614293 | 21 | 6 13.7 | 20.7 |
| 276917 2004 $TJ_{59}$ | 17.0 | X | 163.21428 | 77.70906 | 21.28283 | 7.93942 | 0.1790458 | 0.21422772 | 2.7662129 | 21 | 6 14.5 | 21.7 |
| 276918 2004 $TB_{72}$ | 17.4 | X | 210.45142 | 22.87530 | 45.66593 | 0.96836 | 0.0571268 | 0.21862396 | 2.7290042 | 21 | 6 25.7 | 21.1 |
| 276919 2004 $TC_{80}$ | 16.9 | X | 34.78505 | 93.03925 | 265.39515 | 2.23296 | 0.0846265 | 0.23901035 | 2.5715299 | 21 | 12 13.4 | 20.0 |
| 276920 2004 $TR_{91}$ | 17.2 | X | 52.78076 | 349.58151 | 358.08968 | 3.72649 | 0.1564196 | 0.23994727 | 2.5648315 | 21 | — | — |
| 276921 2004 $TM_{98}$ | 17.0 | X | 68.19679 | 116.59913 | 186.38147 | 5.26249 | 0.0870542 | 0.23531103 | 2.5984111 | 21 | 11 15.5 | 20.5 |
| 276922 2004 $TQ_{109}$ | 16.4 | X | 193.39464 | 344.74748 | 60.69229 | 5.49935 | 0.2046737 | 0.21084650 | 2.7957078 | 21 | 5 7.2 | 21.0 |
| 276923 2004 $TS_{112}$ | 16.3 | X | 7.61857 | 152.15081 | 204.72252 | 13.47881 | 0.3045580 | 0.23266052 | 2.6181082 | 21 | 12 3.7 | 19.0 |
| 276924 2004 $TL_{125}$ | 16.4 | X | 152.16518 | 311.91560 | 76.40230 | 2.15063 | 0.1035636 | 0.20396315 | 2.8582589 | 21 | 3 6.1 | 20.7 |
| 276925 2004 $TM_{131}$ | 15.7 | X | 275.30503 | 212.88291 | 205.27609 | 12.19634 | 0.1595863 | 0.22375867 | 2.6870937 | 21 | 8 13.8 | 19.6 |
| 276926 2004 $TL_{133}$ | 15.9 | X | 189.10582 | 212.44167 | 214.51750 | 12.61548 | 0.1587442 | 0.21107784 | 2.7936647 | 21 | 5 30.0 | 20.5 |
| 276927 2004 $TQ_{138}$ | 15.9 | X | 247.69115 | 197.15461 | 222.25665 | 16.33973 | 0.1510502 | 0.22285938 | 2.6943175 | 21 | 7 13.2 | 20.3 |
| 276928 2004 $TN_{144}$ | 16.5 | X | 54.89371 | 318.34685 | 47.95685 | 5.19940 | 0.1304247 | 0.24183348 | 2.5514777 | 21 | — | — |
| 276929 2004 $TH_{146}$ | 16.9 | X | 356.03978 | 168.67008 | 184.52152 | 4.25691 | 0.1622432 | 0.23125823 | 2.6286812 | 21 | 10 14.1 | 19.3 |
| 276930 2004 $TY_{156}$ | 16.3 | X | 170.84258 | 194.78187 | 26.75277 | 9.38501 | 0.1058960 | 0.23847920 | 2.5753467 | 21 | 11 22.3 | 20.2 |
| 276931 2004 $TN_{161}$ | 16.4 | X | 56.82244 | 130.84633 | 226.78843 | 2.10527 | 0.1081309 | 0.24010823 | 2.5636851 | 21 | — | — |
| 276932 2004 $TU_{161}$ | 16.7 | X | 317.17439 | 105.49099 | 221.85215 | 2.68016 | 0.3248880 | 0.22298621 | 2.6932958 | 21 | 5 18.6 | 19.5 |
| 276933 2004 $TX_{176}$ | 17.7 | X | 172.37485 | 98.88547 | 199.65012 | 1.94378 | 0.1739944 | 0.25388120 | 2.4701065 | 21 | — | — |
| 276934 2004 $TT_{188}$ | 16.3 | X | 195.99699 | 280.67287 | 202.67732 | 8.51806 | 0.1596169 | 0.22240847 | 2.6979579 | 21 | 8 11.9 | 20.8 |
| 276935 2004 $TY_{200}$ | 16.3 | X | 125.44102 | 276.29922 | 194.22695 | 7.21402 | 0.0966494 | 0.20914300 | 2.8108682 | 21 | 5 17.1 | 20.4 |
| 276936 2004 $TJ_{206}$ | 16.3 | X | 281.34869 | 185.82622 | 217.59970 | 4.96140 | 0.0542995 | 0.22235166 | 2.6984174 | 21 | 8 20.7 | 19.9 |
| 276937 2004 $TY_{210}$ | 16.8 | X | 172.66520 | 70.76944 | 28.30330 | 3.63450 | 0.0675926 | 0.21630802 | 2.7484487 | 21 | 6 21.5 | 20.9 |
| 276938 2004 $TK_{211}$ | 16.5 | X | 170.02152 | 25.34750 | 218.09846 | 14.86607 | 0.1945006 | 0.24159338 | 2.5531678 | 21 | 12 15.6 | 20.9 |
| 276939 2004 $TL_{214}$ | 16.3 | X | 165.09044 | 301.11005 | 202.12531 | 8.88139 | 0.1830828 | 0.21926403 | 2.7236907 | 21 | 8 8.5 | 21.0 |
| 276940 2004 $TR_{228}$ | 17.3 | X | 264.47850 | 92.54938 | 333.56097 | 1.45739 | 0.0631237 | 0.22586557 | 2.6703572 | 21 | 8 29.2 | 20.8 |
| 276941 2004 $TR_{230}$ | 16.3 | X | 239.04140 | 75.02447 | 333.41345 | 4.49973 | 0.1235142 | 0.21908234 | 2.7251963 | 21 | 6 26.7 | 20.3 |
| 276942 2004 $TE_{239}$ | 16.7 | X | 23.27014 | 131.12437 | 210.95895 | 13.16393 | 0.1406524 | 0.23337262 | 2.6127797 | 21 | 11 13.6 | 19.7 |
| 276943 2004 $TK_{241}$ | 16.0 | X | 3.99697 | 320.39827 | 16.22287 | 14.66068 | 0.1059678 | 0.22862853 | 2.6487996 | 21 | 10 1.0 | 19.0 |
| 276944 2004 $TX_{251}$ | 16.1 | X | 280.25124 | 81.48516 | 286.55613 | 1.39992 | 0.2074266 | 0.16269898 | 3.3231210 | 21 | 6 11.9 | 20.9 |
| 276945 2004 $TJ_{255}$ | 16.7 | X | 218.97308 | 52.92602 | 52.48565 | 3.69880 | 0.1230576 | 0.22438161 | 2.6821180 | 21 | 8 19.3 | 20.7 |
| 276946 2004 $TU_{266}$ | 16.9 | X | 356.61564 | 283.23659 | 52.59226 | 0.98649 | 0.1360088 | 0.22777904 | 2.6553812 | 21 | 9 16.9 | 19.5 |
| 276947 2004 $TL_{272}$ | 16.6 | X | 292.23280 | 110.03645 | 260.57406 | 2.95771 | 0.1027331 | 0.22054831 | 2.7131069 | 21 | 7 16.4 | 19.9 |
| 276948 2004 $TL_{279}$ | 16.4 | X | 281.18015 | 175.51284 | 222.98977 | 4.77888 | 0.0761433 | 0.22539933 | 2.6740383 | 21 | 8 10.7 | 20.0 |
| 276949 2004 $TC_{284}$ | 17.2 | X | 195.63095 | 313.15751 | 342.44403 | 3.67958 | 0.2309834 | 0.25757348 | 2.4464441 | 21 | — | — |
| 276950 2004 $TM_{284}$ | 17.1 | X | 156.94252 | 315.06622 | 301.32584 | 1.22034 | 0.1323988 | 0.24279640 | 2.5447271 | 21 | 12 22.6 | 20.9 |
| 276951 2004 $TB_{286}$ | 17.0 | X | 324.52469 | 343.75119 | 10.30360 | 2.94214 | 0.0417961 | 0.22301249 | 2.6930841 | 21 | 8 20.8 | 20.4 |
| 276952 2004 $TU_{286}$ | 15.9 | X | 318.06497 | 336.41515 | 47.23903 | 5.91643 | 0.0557169 | 0.22779877 | 2.6552278 | 21 | 9 22.2 | 19.2 |
| 276953 2004 $TT_{295}$ | 16.2 | X | 200.28196 | 182.78095 | 234.92343 | 4.22939 | 0.1529211 | 0.21168274 | 2.7883402 | 21 | 5 28.4 | 20.6 |
| 276954 2004 $TD_{297}$ | 16.2 | X | 180.07199 | 74.05993 | 28.45578 | 9.47031 | 0.1288178 | 0.21618673 | 2.7494766 | 21 | 7 5.5 | 20.7 |
| 276955 2004 $TB_{300}$ | 16.6 | X | 357.97887 | 318.09792 | 15.32389 | 5.17469 | 0.0465491 | 0.22661812 | 2.6644422 | 21 | 9 12.4 | 19.9 |
| 276956 2004 $TY_{314}$ | 16.9 | X | 229.44766 | 81.12608 | 1.10434 | 5.31530 | 0.0383516 | 0.22357907 | 2.6885325 | 21 | 8 10.2 | 20.6 |
| 276957 2004 $TF_{328}$ | 16.3 | X | 114.71114 | 167.23901 | 163.37960 | 13.87294 | 0.0595994 | 0.24704445 | 2.5154710 | 21 | — | — |
| 276958 2004 $TY_{328}$ | 16.1 | X | 229.32776 | 15.03649 | 59.95991 | 15.65505 | 0.1549836 | 0.22183057 | 2.7026415 | 21 | 7 19.2 | 20.5 |
| 276959 2004 $TE_{329}$ | 17.3 | X | 128.56331 | 252.07870 | 29.50097 | 7.60828 | 0.1254144 | 0.24236612 | 2.5477381 | 21 | 12 26.3 | 21.3 |
| 276960 2004 $TO_{339}$ | 16.2 | X | 203.03413 | 255.51937 | 213.38440 | 5.09997 | 0.0902015 | 0.22150657 | 2.7052764 | 21 | 8 5.2 | 20.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 276961 2004 $TX_{342}$ | 16.4 | X | 231.10639 | 210.13506 | 214.23525 | 2.81406 | 0.1854555 | 0.21740672 | 2.7391811 | 21 | 7 2.5 | 20.8 |
| 276962 2004 $TJ_{343}$ | 15.8 | X | 332.67675 | 279.23735 | 36.93148 | 27.71138 | 0.1818518 | 0.22216574 | 2.6999226 | 21 | 6 20.6 | 19.3 |
| 276963 2004 $TB_{369}$ | 16.9 | X | 129.46771 | 116.05407 | 277.71894 | 0.90496 | 0.1329096 | 0.19674794 | 2.9277181 | 21 | 2 19.1 | 21.1 |
| 276964 2004 $TQ_{369}$ | 16.2 | X | 59.66843 | 250.91393 | 52.22550 | 12.22897 | 0.0531464 | 0.22970738 | 2.6404995 | 21 | 10 31.0 | 19.7 |
| 276965 2004 $UU_{2}$ | 16.3 | X | 283.10732 | 265.42720 | 164.66869 | 14.85445 | 0.1514490 | 0.22884188 | 2.6471530 | 21 | 9 17.6 | 19.4 |
| 276966 2004 $UE_{3}$ | 16.7 | X | 315.99720 | 212.92295 | 163.81499 | 12.34985 | 0.2104049 | 0.22691722 | 2.6621003 | 21 | 8 17.7 | 19.3 |
| 276967 2004 $UH_{4}$ | 15.9 | X | 339.87811 | 100.83046 | 319.20921 | 15.05811 | 0.2248365 | 0.17644348 | 3.1482241 | 21 | 11 30.6 | 19.4 |
| 276968 2004 $UZ_{10}$ | 16.0 | X | 306.71180 | 180.45169 | 227.59651 | 12.52459 | 0.2568713 | 0.22563595 | 2.6721685 | 21 | 9 2.5 | 19.1 |
| 276969 2004 $VQ_{19}$ | 15.8 | X | 88.23674 | 265.30639 | 53.73460 | 15.40351 | 0.1201687 | 0.23786645 | 2.5797677 | 21 | 12 30.7 | 19.9 |
| 276970 2004 $VG_{21}$ | 16.3 | X | 72.75089 | 283.53835 | 61.80511 | 14.79113 | 0.1570344 | 0.24015096 | 2.5633810 | 21 | — | — |
| 276971 2004 $VL_{21}$ | 16.2 | X | 355.55472 | 310.51526 | 58.22540 | 13.76761 | 0.1852630 | 0.23126503 | 2.6286297 | 21 | 11 8.6 | 18.7 |
| 276972 2004 $VE_{30}$ | 16.8 | X | 2.24159 | 277.55881 | 84.68878 | 3.60816 | 0.1340353 | 0.23111364 | 2.6297775 | 21 | 11 5.5 | 19.5 |
| 276973 2004 $VT_{41}$ | 16.6 | X | 109.27602 | 220.01721 | 65.17318 | 4.38591 | 0.1263806 | 0.23614168 | 2.5923141 | 21 | 12 11.0 | 20.6 |
| 276974 2004 $VY_{53}$ | 15.8 | X | 292.76257 | 292.99669 | 76.61062 | 9.82332 | 0.2055674 | 0.21996398 | 2.7179095 | 21 | 6 29.4 | 19.2 |
| 276975 Heller | 16.3 | X | 112.05512 | 273.46189 | 266.17715 | 9.61223 | 0.0828701 | 0.21345620 | 2.7728744 | 21 | 7 25.4 | 20.3 |
| 276976 2004 $VR_{70}$ | 16.5 | X | 268.54041 | 135.75795 | 233.87932 | 2.43383 | 0.2088920 | 0.21705271 | 2.7421587 | 21 | 5 29.8 | 20.5 |
| 276977 2004 $VM_{74}$ | 16.3 | X | 18.33441 | 267.49059 | 76.98713 | 10.88114 | 0.2342152 | 0.23241638 | 2.6199413 | 21 | 11 23.9 | 19.1 |
| 276978 2004 $VJ_{77}$ | 16.1 | X | 313.60769 | 331.84764 | 61.70762 | 5.35760 | 0.1107393 | 0.22653585 | 2.6650872 | 21 | 9 24.1 | 19.1 |
| 276979 2004 $VE_{90}$ | 16.1 | X | 22.88492 | 74.23378 | 265.89281 | 7.35318 | 0.1915243 | 0.23091955 | 2.6312508 | 21 | 11 15.7 | 19.1 |
| 276980 2004 $VJ_{94}$ | 16.8 | X | 345.78089 | 91.78094 | 85.03192 | 1.10054 | 0.1270821 | 0.19294736 | 2.9660388 | 21 | 1 18.9 | 20.4 |
| 276981 2004 $WK$ | 16.0 | X | 181.33995 | 6.41940 | 68.90418 | 11.23418 | 0.2079537 | 0.21080310 | 2.7960916 | 21 | 6 2.0 | 20.8 |
| 276982 2004 $WD_{1}$ | 16.3 | X | 308.66714 | 130.96650 | 247.20480 | 4.82802 | 0.0668562 | 0.22246520 | 2.6974992 | 21 | 8 24.1 | 19.6 |
| 276983 2004 $WM_{7}$ | 16.1 | X | 12.93120 | 301.02761 | 42.18280 | 8.94802 | 0.1181028 | 0.22909650 | 2.6451913 | 21 | 10 25.7 | 19.0 |
| 276984 2004 $WG_{11}$ | 16.5 | X | 283.01058 | 316.26362 | 67.69474 | 3.91206 | 0.1095100 | 0.21841738 | 2.7307247 | 21 | 7 21.6 | 20.1 |
| 276985 2004 $XO_{19}$ | 15.2 | X | 348.49216 | 14.81738 | 82.10630 | 22.90639 | 0.1009970 | 0.17970555 | 3.1100095 | 21 | — | — |
| 276986 2004 $XW_{21}$ | 15.8 | X | 231.70885 | 312.26337 | 96.30217 | 6.67778 | 0.0435881 | 0.21207196 | 2.7849274 | 21 | 6 26.5 | 19.5 |
| 276987 2004 $XH_{26}$ | 15.5 | X | 152.99725 | 28.55481 | 77.09431 | 11.60452 | 0.0951948 | 0.20535565 | 2.8453232 | 21 | 6 9.6 | 19.7 |
| 276988 2004 $XQ_{26}$ | 16.5 | X | 38.53067 | 304.83109 | 60.19594 | 5.69275 | 0.2656476 | 0.23721757 | 2.5844699 | 21 | — | — |
| 276989 2004 $XB_{27}$ | 15.8 | X | 270.78571 | 330.65354 | 83.24067 | 9.75034 | 0.0973961 | 0.21964063 | 2.7205765 | 21 | 8 19.2 | 19.5 |
| 276990 2004 $XD_{30}$ | 16.4 | X | 266.75650 | 324.40799 | 71.59110 | 5.96282 | 0.1177243 | 0.21884654 | 2.7271536 | 21 | 7 14.5 | 20.3 |
| 276991 2004 $XE_{32}$ | 15.9 | X | 114.35823 | 71.95668 | 249.14244 | 6.13621 | 0.2701403 | 0.24319130 | 2.5419716 | 21 | — | — |
| 276992 2004 $XF_{38}$ | 15.2 | X | 312.19451 | 331.38149 | 126.24352 | 15.91417 | 0.2871537 | 0.17530606 | 3.1618270 | 21 | 11 21.9 | 18.6 |
| 276993 2004 $XR_{40}$ | 15.9 | X | 302.73287 | 331.39998 | 53.04941 | 7.09112 | 0.0393648 | 0.22010172 | 2.7167756 | 21 | 9 2.5 | 19.5 |
| 276994 2004 $XN_{43}$ | 15.9 | X | 89.07658 | 254.55736 | 76.92704 | 9.64382 | 0.1797972 | 0.23809602 | 2.5781091 | 21 | — | — |
| 276995 2004 $XQ_{46}$ | 16.2 | X | 88.62757 | 15.97846 | 96.07131 | 3.27298 | 0.0765712 | 0.19653854 | 2.9297972 | 21 | 4 1.9 | 20.1 |
| 276996 2004 $XA_{47}$ | 15.9 | X | 323.17837 | 253.05059 | 103.75557 | 6.07891 | 0.0847328 | 0.21846006 | 2.7303690 | 21 | 8 19.4 | 19.1 |
| 276997 2004 $XA_{51}$ | 16.0 | X | 50.57614 | 221.40700 | 120.14829 | 16.52189 | 0.1809453 | 0.22832241 | 2.6511666 | 21 | 12 24.6 | 19.8 |
| 276998 2004 $XE_{52}$ | 15.2 | X | 252.78675 | 298.76663 | 97.05232 | 13.80650 | 0.1492378 | 0.21502627 | 2.7593600 | 21 | 6 22.7 | 19.3 |
| 276999 2004 $XA_{55}$ | 16.0 | X | 55.06947 | 280.32223 | 86.56649 | 15.96872 | 0.2599491 | 0.23912255 | 2.5707255 | 21 | — | — |
| 277000 2004 $XM_{72}$ | 16.6 | X | 179.55278 | 256.38424 | 168.80972 | 4.52577 | 0.0539897 | 0.20837910 | 2.8177337 | 21 | 5 17.6 | 20.7 |
| 277001 2004 $XW_{72}$ | 15.8 | X | 99.03128 | 226.66647 | 105.72520 | 7.90706 | 0.1764493 | 0.24183903 | 2.5514386 | 21 | — | — |
| 277002 2004 $XX_{72}$ | 15.6 | X | 260.58689 | 286.05929 | 97.10947 | 7.67037 | 0.0643263 | 0.21500715 | 2.7595236 | 21 | 6 26.5 | 19.2 |
| 277003 2004 $XY_{75}$ | 15.8 | X | 315.77379 | 277.29517 | 71.16681 | 14.81425 | 0.2740563 | 0.22142923 | 2.7059062 | 21 | 6 24.5 | 18.8 |
| 277004 2004 $XK_{79}$ | 16.1 | X | 10.86996 | 19.76085 | 56.63415 | 3.64179 | 0.1613462 | 0.18094201 | 3.0958253 | 21 | — | — |
| 277005 2004 $XC_{106}$ | 15.6 | X | 106.80611 | 99.66374 | 279.67446 | 9.34839 | 0.2110015 | 0.19000326 | 2.9965994 | 21 | 1 17.8 | 19.7 |
| 277006 2004 $XP_{117}$ | 15.9 | X | 125.61880 | 38.24799 | 86.57414 | 16.09472 | 0.0960379 | 0.20372099 | 2.8605235 | 21 | 6 4.9 | 20.2 |
| 277007 2004 $XP_{120}$ | 15.9 | X | 34.04356 | 262.78160 | 70.97109 | 15.60488 | 0.1064857 | 0.22871884 | 2.6481023 | 21 | 11 14.3 | 19.3 |
| 277008 2004 $XV_{130}$ | 17.4 | X | 291.93167 | 85.90813 | 75.37330 | 22.99541 | 0.0896180 | 0.35873859 | 1.9616310 | 21 | — | — |
| 277009 2004 $XA_{134}$ | 16.2 | X | 30.27442 | 309.07850 | 44.81299 | 10.83020 | 0.2920069 | 0.23480115 | 2.6021714 | 21 | — | — |
| 277010 2004 $XJ_{135}$ | 16.2 | X | 59.36070 | 333.44005 | 40.12405 | 6.85412 | 0.2881022 | 0.24094280 | 2.5577617 | 21 | — | — |
| 277011 2004 $YZ_{21}$ | 16.4 | X | 44.23617 | 345.95441 | 105.55648 | 2.39537 | 0.1950704 | 0.18354624 | 3.0664724 | 21 | 1 9.8 | 19.5 |
| 277012 2004 $YH_{35}$ | 16.8 | X | 213.27991 | 315.15322 | 91.97061 | 3.22351 | 0.0744442 | 0.20560954 | 2.8429805 | 21 | 5 31.6 | 21.0 |
| 277013 2005 $AW_{16}$ | 15.6 | X | 316.17508 | 263.07042 | 115.86585 | 13.92805 | 0.1786934 | 0.21991896 | 2.7182805 | 21 | 8 30.7 | 18.6 |
| 277014 2005 $AG_{17}$ | 15.5 | X | 269.68864 | 260.93553 | 110.75086 | 17.95990 | 0.1777311 | 0.21089541 | 2.7952756 | 21 | 6 9.7 | 19.7 |
| 277015 2005 $AN_{32}$ | 15.7 | X | 327.80720 | 341.11294 | 108.82837 | 6.35806 | 0.1617356 | 0.17222212 | 3.1994605 | 21 | 12 16.9 | 19.3 |
| 277016 2005 $AK_{33}$ | 15.7 | X | 338.15342 | 33.30681 | 116.30352 | 23.94665 | 0.2667099 | 0.17953392 | 3.1119913 | 21 | — | — |
| 277017 2005 $AL_{37}$ | 16.6 | X | 209.41226 | 108.95567 | 74.14758 | 5.28591 | 0.1675850 | 0.22218172 | 2.6997932 | 21 | 11 9.8 | 20.8 |
| 277018 2005 $AC_{44}$ | 16.2 | X | 46.31514 | 29.44365 | 79.80175 | 2.92687 | 0.1019653 | 0.18503797 | 3.0499694 | 21 | 1 31.6 | 19.9 |
| 277019 2005 $AS_{56}$ | 16.1 | X | 308.86463 | 302.38528 | 74.35494 | 16.84177 | 0.3227264 | 0.22045959 | 2.7138347 | 21 | 7 15.9 | 19.2 |
| 277020 2005 $AV_{57}$ | 15.8 | X | 87.03237 | 41.94016 | 7.27807 | 12.27540 | 0.3360996 | 0.18820116 | 3.0156980 | 21 | 2 22.5 | 19.8 |
| 277021 2005 $AR_{68}$ | 17.6 | X | 296.61657 | 56.40703 | 83.71366 | 3.31453 | 0.1051660 | 0.29019289 | 2.2594958 | 21 | — | — |
| 277022 2005 $AO_{75}$ | 16.2 | X | 348.70848 | 164.93431 | 121.68679 | 10.31831 | 0.1031222 | 0.20430956 | 2.8550273 | 21 | 6 21.1 | 19.6 |
| 277023 2005 $AA_{81}$ | 16.0 | X | 201.06049 | 290.94537 | 117.97619 | 13.19204 | 0.0445592 | 0.20061322 | 2.8899901 | 21 | 5 24.8 | 20.4 |
| 277024 2005 $AG_{82}$ | 15.8 | X | 78.67619 | 356.18674 | 106.77892 | 10.47777 | 0.1224325 | 0.18883791 | 3.0089150 | 21 | 3 18.6 | 19.9 |
| 277025 2005 $BD_{4}$ | 16.1 | X | 263.39474 | 233.14981 | 159.67771 | 4.81212 | 0.0799547 | 0.21061298 | 2.7977740 | 21 | 7 10.3 | 20.0 |
| 277026 2005 $BA_{8}$ | 15.7 | X | 18.44053 | 130.95186 | 103.10302 | 10.64609 | 0.0698678 | 0.20004315 | 2.8954779 | 21 | 5 29.9 | 19.4 |
| 277027 2005 $CW_{1}$ | 15.8 | X | 351.32361 | 52.30489 | 128.03626 | 10.11500 | 0.1120309 | 0.18499027 | 3.0504937 | 21 | 2 4.4 | 19.7 |
| 277028 2005 $CO_{5}$ | 15.6 | X | 355.28958 | 152.09704 | 335.26280 | 12.73058 | 0.1305951 | 0.17785861 | 3.1315027 | 21 | — | — |
| 277029 2005 $CG_{7}$ | 15.7 | X | 93.56322 | 74.57310 | 315.87386 | 16.95557 | 0.0934828 | 0.17999695 | 3.1066521 | 21 | 1 3.6 | 20.0 |
| 277030 2005 $CM_{10}$ | 16.5 | X | 64.22291 | 73.39172 | 16.93458 | 5.20926 | 0.1173132 | 0.18318421 | 3.0705113 | 21 | 2 7.0 | 20.3 |
| 277031 2005 $CQ_{13}$ | 15.7 | X | 95.40239 | 336.85450 | 115.59605 | 10.84353 | 0.0876004 | 0.18903978 | 3.0067726 | 21 | 3 22.5 | 20.0 |
| 277032 2005 $CK_{21}$ | 15.2 | X | 330.36874 | 28.44893 | 138.59389 | 14.53639 | 0.1417004 | 0.17685821 | 3.1433005 | 21 | — | — |
| 277033 2005 $CR_{24}$ | 16.4 | X | 357.09537 | 289.26019 | 184.16683 | 9.16825 | 0.2547601 | 0.17796097 | 3.1303018 | 21 | — | — |
| 277034 2005 $CA_{29}$ | 16.1 | X | 47.54843 | 334.73543 | 131.45797 | 10.87277 | 0.0681266 | 0.18246749 | 3.0785465 | 21 | 1 27.4 | 19.9 |
| 277035 2005 $CK_{30}$ | 17.2 | X | 93.68773 | 191.21132 | 96.31106 | 2.99285 | 0.0486928 | 0.27918660 | 2.3184959 | 21 | 11 28.6 | 20.2 |
| 277036 2005 $CO_{33}$ | 17.0 | X | 174.10034 | 127.31838 | 40.36844 | 2.60141 | 0.1304495 | 0.21288966 | 2.7777917 | 21 | 9 19.6 | 21.4 |
| 277037 2005 $CT_{37}$ | 15.7 | X | 11.32055 | 31.56090 | 90.97943 | 9.21451 | 0.2211888 | 0.17911998 | 3.1167840 | 21 | — | — |
| 277038 2005 $CK_{39}$ | 15.8 | X | 38.32401 | 65.03096 | 112.94416 | 11.34868 | 0.0552554 | 0.19290882 | 2.9664338 | 21 | 4 18.6 | 19.9 |
| 277039 2005 $CF_{41}$ | 18.5 | X | 39.42696 | 208.73857 | 132.19582 | 15.87958 | 0.5860938 | 0.46569827 | 1.6484140 | 21 | — | — |
| 277040 2005 $CQ_{48}$ | 15.2 | X | 343.84252 | 34.80413 | 154.96169 | 28.19235 | 0.1178120 | 0.18152526 | 3.0891904 | 21 | 2 4.1 | 19.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277041 2005 $CT_{57}$ | 16.4 | X | 244.98288 | 211.69099 | 242.10960 | 5.10104 | 0.1752079 | 0.21472035 | 2.7619803 | 21 | 8 22.3 | 20.7 |
| 277042 2005 $CK_{60}$ | 17.1 | X | 358.45493 | 11.73447 | 87.54644 | 5.03986 | 0.0846774 | 0.29500993 | 2.2348324 | 21 | — | — |
| 277043 2005 $CB_{62}$ | 15.3 | X | 307.07412 | 81.06406 | 122.71834 | 25.95980 | 0.2914442 | 0.17534541 | 3.1613539 | 21 | — | — |
| 277044 2005 $CB_{66}$ | 15.8 | X | 345.45029 | 178.68384 | 355.34799 | 7.47365 | 0.1022623 | 0.18034714 | 3.1026292 | 21 | 1 22.9 | 19.9 |
| 277045 2005 $CC_{81}$ | 15.6 | X | 27.83526 | 109.70376 | 71.68974 | 11.56062 | 0.0755906 | 0.19011371 | 2.9954386 | 21 | 4 9.0 | 19.5 |
| 277046 2005 $DO_{3}$ | 16.2 | X | 280.76918 | 170.62838 | 160.43620 | 13.93367 | 0.0974609 | 0.19571885 | 2.9379717 | 21 | 5 14.4 | 20.6 |
| 277047 2005 $ES_{18}$ | 15.8 | X | 88.27842 | 44.92248 | 2.06227 | 9.92238 | 0.0874243 | 0.17536756 | 3.1610877 | 21 | 1 16.9 | 20.2 |
| 277048 2005 $EM_{22}$ | 15.5 | X | 92.33898 | 234.72123 | 160.23959 | 26.95976 | 0.1129620 | 0.17736999 | 3.1372511 | 21 | 1 8.5 | 20.2 |
| 277049 2005 $EP_{25}$ | 15.6 | X | 75.15723 | 78.95673 | 355.98529 | 11.18340 | 0.0580307 | 0.17929312 | 3.1147770 | 21 | 1 30.2 | 19.9 |
| 277050 2005 $EZ_{27}$ | 15.0 | X | 306.37141 | 223.36612 | 348.53682 | 24.37519 | 0.0668906 | 0.17849384 | 3.1240686 | 21 | 1 30.5 | 19.7 |
| 277051 2005 $EU_{31}$ | 16.4 | X | 181.97182 | 229.81787 | 162.01651 | 11.33493 | 0.0813124 | 0.19071047 | 2.9891866 | 21 | 4 12.1 | 21.0 |
| 277052 2005 $EE_{33}$ | 16.6 | X | 258.09565 | 321.70938 | 229.49085 | 20.82124 | 0.0333320 | 0.35040776 | 1.9926005 | 21 | — | — |
| 277053 2005 $EO_{37}$ | 16.2 | X | 350.33929 | 42.19254 | 185.50500 | 10.95915 | 0.0174366 | 0.19074909 | 2.9887831 | 21 | 4 12.0 | 20.2 |
| 277054 2005 $EB_{48}$ | 16.0 | X | 52.70420 | 79.69132 | 359.03828 | 14.20428 | 0.2165292 | 0.17983973 | 3.1084624 | 21 | 1 16.8 | 19.6 |
| 277055 2005 $ET_{55}$ | 16.2 | X | 187.85779 | 206.41966 | 169.79439 | 10.63027 | 0.0575063 | 0.18761022 | 3.0220273 | 21 | 3 28.5 | 20.6 |
| 277056 2005 $ES_{62}$ | 16.4 | X | 309.14537 | 69.33554 | 152.13959 | 1.97613 | 0.1233408 | 0.18084068 | 3.0969816 | 21 | 1 27.6 | 20.6 |
| 277057 2005 $EN_{65}$ | 15.8 | X | 184.29110 | 3.12902 | 344.63330 | 9.09109 | 0.0639026 | 0.18214092 | 3.0822252 | 21 | 2 19.5 | 20.4 |
| 277058 2005 $EO_{74}$ | 16.3 | X | 43.81951 | 299.03054 | 166.11033 | 9.60353 | 0.2518629 | 0.18300642 | 3.0724996 | 21 | 1 30.0 | 19.3 |
| 277059 2005 $EP_{75}$ | 16.4 | X | 312.85938 | 144.85759 | 12.00067 | 0.33419 | 0.0774327 | 0.17023758 | 3.2242775 | 21 | — | — |
| 277060 2005 $EB_{79}$ | 15.5 | X | 319.83557 | 63.85170 | 112.53725 | 6.96697 | 0.0975728 | 0.17450387 | 3.1715094 | 21 | — | — |
| 277061 2005 $ED_{81}$ | 16.0 | X | 33.32893 | 178.09956 | 340.72033 | 8.27935 | 0.0708807 | 0.18527262 | 3.0473936 | 21 | 3 12.6 | 19.9 |
| 277062 2005 $EE_{83}$ | 15.5 | X | 37.10695 | 100.93839 | 353.86620 | 10.71316 | 0.0481352 | 0.17440063 | 3.1727610 | 21 | 1 1.9 | 19.9 |
| 277063 2005 $EZ_{84}$ | 15.0 | X | 331.47717 | 164.55492 | 24.54911 | 17.71224 | 0.1480564 | 0.17779467 | 3.1322535 | 21 | 1 19.2 | 19.5 |
| 277064 2005 $ET_{85}$ | 16.2 | X | 5.58019 | 107.16960 | 23.96992 | 6.41662 | 0.2214994 | 0.17832165 | 3.1260794 | 21 | — | — |
| 277065 2005 $EX_{88}$ | 15.8 | X | 264.65057 | 114.76716 | 183.91592 | 12.83271 | 0.0433654 | 0.18584007 | 3.0411871 | 21 | 3 19.2 | 20.1 |
| 277066 2005 $EC_{93}$ | 15.6 | X | 350.50820 | 108.65825 | 102.55331 | 17.43659 | 0.1650659 | 0.18533531 | 3.0467064 | 21 | 3 16.7 | 19.5 |
| 277067 2005 $EM_{108}$ | 15.2 | X | 316.95824 | 290.89209 | 288.26693 | 7.52358 | 0.0971335 | 0.18136708 | 3.0909862 | 21 | 2 5.7 | 19.4 |
| 277068 2005 $EG_{112}$ | 15.3 | X | 345.11563 | 2.55620 | 161.61258 | 17.59563 | 0.1526331 | 0.17643299 | 3.1483489 | 21 | 1 2.6 | 19.6 |
| 277069 2005 $EK_{112}$ | 15.9 | X | 40.11896 | 344.56729 | 160.58081 | 9.91576 | 0.0534569 | 0.18291387 | 3.0735359 | 21 | 3 6.1 | 20.0 |
| 277070 2005 $EU_{115}$ | 16.0 | X | 347.70208 | 298.40686 | 169.82025 | 5.38840 | 0.1475863 | 0.17046411 | 3.2214205 | 21 | — | — |
| 277071 2005 $EZ_{117}$ | 15.0 | X | 301.84278 | 289.83343 | 304.12688 | 18.88998 | 0.1357384 | 0.18073380 | 3.0982025 | 21 | 1 31.1 | 19.4 |
| 277072 2005 $EF_{127}$ | 15.8 | X | 296.66841 | 104.43661 | 139.17125 | 11.05208 | 0.0628094 | 0.18573090 | 3.0423788 | 21 | 2 16.6 | 19.9 |
| 277073 2005 $EC_{133}$ | 15.5 | X | 44.58048 | 17.18269 | 94.42832 | 12.60757 | 0.2191152 | 0.18327596 | 3.0694864 | 21 | 2 11.8 | 18.8 |
| 277074 2005 $EZ_{139}$ | 15.2 | X | 28.79750 | 34.75765 | 106.31189 | 11.62264 | 0.0512955 | 0.17919430 | 3.1159221 | 21 | 2 16.3 | 19.4 |
| 277075 2005 $EB_{143}$ | 15.0 | X | 341.71950 | 16.90798 | 178.99587 | 23.98656 | 0.1558076 | 0.17915805 | 3.1163423 | 21 | 2 2.2 | 19.3 |
| 277076 2005 $EB_{153}$ | 15.4 | X | 333.60157 | 57.39375 | 98.63718 | 20.12102 | 0.2236461 | 0.17401760 | 3.1774150 | 21 | — | — |
| 277077 2005 $EU_{153}$ | 15.4 | X | 294.75659 | 114.63257 | 123.47978 | 26.62929 | 0.2504662 | 0.17561339 | 3.1581370 | 21 | 1 16.6 | 20.2 |
| 277078 2005 $EV_{153}$ | 14.9 | X | 256.19220 | 209.58659 | 58.52266 | 28.71660 | 0.1507971 | 0.17522584 | 3.1627919 | 21 | 1 30.8 | 20.4 |
| 277079 2005 $EY_{156}$ | 16.1 | X | 171.70460 | 345.53283 | 353.48825 | 9.45161 | 0.0842736 | 0.17619080 | 3.1512333 | 21 | 1 30.8 | 20.9 |
| 277080 2005 $EU_{164}$ | 16.1 | X | 27.29855 | 290.03429 | 169.02319 | 10.03826 | 0.2112596 | 0.17609395 | 3.1523887 | 21 | — | — |
| 277081 2005 $EK_{169}$ | 17.3 | X | 21.93887 | 252.64674 | 161.07245 | 23.57849 | 0.0887958 | 0.35071150 | 1.9914499 | 21 | — | — |
| 277082 2005 $EH_{173}$ | 15.7 | X | 341.23678 | 166.18420 | 325.67724 | 5.66865 | 0.1418942 | 0.17242127 | 3.1969965 | 21 | — | — |
| 277083 2005 $EK_{176}$ | 16.1 | X | 178.89517 | 343.92069 | 352.60097 | 8.86516 | 0.0888357 | 0.17737708 | 3.1371676 | 21 | 2 3.9 | 21.0 |
| 277084 2005 $EV_{177}$ | 15.9 | X | 350.59360 | 114.75421 | 329.77851 | 13.90620 | 0.0349751 | 0.17038460 | 3.2224225 | 21 | — | — |
| 277085 2005 $ES_{185}$ | 16.0 | X | 321.51016 | 338.57280 | 207.26360 | 9.95393 | 0.1648843 | 0.17640415 | 3.1486920 | 21 | — | — |
| 277086 2005 $ET_{201}$ | 15.7 | X | 59.85950 | 30.75402 | 86.69188 | 17.80903 | 0.1607879 | 0.18616028 | 3.0376988 | 21 | 3 19.4 | 19.8 |
| 277087 2005 $EK_{204}$ | 15.9 | X | 270.77413 | 180.87479 | 58.94545 | 2.18931 | 0.1799570 | 0.17276240 | 3.1927866 | 21 | 1 4.0 | 21.0 |
| 277088 2005 $EF_{211}$ | 15.9 | X | 11.30032 | 300.56441 | 209.07634 | 7.20181 | 0.0074246 | 0.17941649 | 3.1133490 | 21 | 1 30.9 | 20.4 |
| 277089 2005 $EN_{215}$ | 16.2 | X | 106.13199 | 60.85345 | 206.31830 | 6.85985 | 0.2335922 | 0.20995842 | 2.8035858 | 21 | 11 20.9 | 21.0 |
| 277090 2005 $EG_{223}$ | 15.5 | X | 21.04974 | 24.37306 | 97.46876 | 13.15591 | 0.1525064 | 0.17619581 | 3.1511736 | 21 | 1 8.1 | 19.0 |
| 277091 2005 $EB_{235}$ | 16.4 | X | 343.46872 | 47.03548 | 164.23140 | 11.91737 | 0.0989823 | 0.18370625 | 3.0646915 | 21 | 3 5.2 | 20.4 |
| 277092 2005 $EA_{242}$ | 15.9 | X | 79.63917 | 240.71063 | 39.93608 | 9.73536 | 0.1741489 | 0.21112665 | 2.7932341 | 21 | 11 6.6 | 20.0 |
| 277093 2005 $EY_{260}$ | 15.6 | X | 36.33907 | 310.04292 | 154.56118 | 11.16008 | 0.1488594 | 0.17828457 | 3.1265128 | 21 | 1 11.4 | 19.3 |
| 277094 2005 $EN_{261}$ | 16.6 | X | 349.92856 | 323.38024 | 181.45437 | 13.11149 | 0.1836611 | 0.17660863 | 3.1462611 | 21 | — | — |
| 277095 2005 $EV_{267}$ | 15.3 | X | 239.60951 | 121.73617 | 194.34315 | 9.31245 | 0.0383527 | 0.18266262 | 3.0763536 | 21 | 3 11.3 | 19.8 |
| 277096 2005 $EF_{269}$ | 15.5 | X | 14.49617 | 89.65972 | 81.20472 | 11.38788 | 0.0630852 | 0.18203013 | 3.0834757 | 21 | 3 8.0 | 19.7 |
| 277097 2005 $EF_{273}$ | 15.4 | X | 231.68369 | 153.72050 | 173.48072 | 8.43805 | 0.0501510 | 0.18427171 | 3.0584187 | 21 | 3 16.5 | 20.0 |
| 277098 2005 $EZ_{281}$ | 15.4 | X | 340.24098 | 37.29789 | 173.41267 | 15.25563 | 0.0485314 | 0.18055155 | 3.1002870 | 21 | 3 5.1 | 19.7 |
| 277099 2005 $EX_{293}$ | 15.5 | X | 52.28694 | 10.10207 | 120.66170 | 10.66404 | 0.1074011 | 0.18506521 | 3.0496701 | 21 | 3 12.7 | 19.4 |
| 277100 2005 $EW_{295}$ | 15.9 | X | 13.88477 | 323.66053 | 193.42719 | 16.87453 | 0.2804789 | 0.18379670 | 3.0636860 | 21 | 1 25.8 | 19.2 |
| 277101 2005 $EB_{331}$ | 16.2 | X | 316.74091 | 111.28909 | 62.48591 | 14.57083 | 0.2519896 | 0.17525950 | 3.1623870 | 21 | — | — |
| 277102 2005 $FG_{1}$ | 15.5 | X | 97.90430 | 68.60106 | 41.85398 | 11.50482 | 0.0918549 | 0.18901187 | 3.0070686 | 21 | 4 15.5 | 19.7 |
| 277103 2005 $FA_{7}$ | 15.3 | X | 314.94575 | 70.11744 | 141.12150 | 11.85887 | 0.1303287 | 0.17612845 | 3.1519770 | 21 | 1 22.1 | 19.7 |
| 277104 2005 $FA_{13}$ | 15.2 | X | 65.03723 | 336.67537 | 149.41956 | 13.82193 | 0.0500119 | 0.18292412 | 3.0734211 | 21 | 3 18.1 | 19.4 |
| 277105 2005 $FR_{14}$ | 15.3 | X | 329.51405 | 54.30162 | 122.04525 | 10.50959 | 0.0447950 | 0.17484666 | 3.1673628 | 21 | 1 10.8 | 19.7 |
| 277106 Forgó | 16.0 | X | 249.95762 | 158.22303 | 80.61761 | 3.06255 | 0.1033030 | 0.17048016 | 3.2212183 | 21 | — | — |
| 277107 2005 $GA_{1}$ | 15.4 | X | 112.38548 | 245.15966 | 180.13424 | 18.11424 | 0.0793967 | 0.18140288 | 3.0905796 | 21 | 3 3.8 | 19.9 |
| 277108 2005 $GQ_{1}$ | 15.3 | X | 277.50891 | 117.33410 | 88.60298 | 13.87816 | 0.1477179 | 0.17228191 | 3.1987202 | 21 | — | — |
| 277109 2005 $GS_{6}$ | 15.4 | X | 22.97055 | 299.53624 | 189.62937 | 14.67082 | 0.0920644 | 0.17457384 | 3.1706620 | 21 | 1 19.7 | 19.7 |
| 277110 2005 $GG_{8}$ | 15.4 | X | 356.76350 | 73.57240 | 66.05738 | 26.37749 | 0.2607290 | 0.17867071 | 3.1220065 | 21 | — | — |
| 277111 2005 $GW_{14}$ | 15.6 | X | 53.84707 | 315.07295 | 181.92147 | 10.28072 | 0.0355412 | 0.18343719 | 3.0676876 | 21 | 3 12.1 | 19.7 |
| 277112 2005 $GE_{22}$ | 15.6 | X | 280.44447 | 166.76934 | 75.61695 | 10.58302 | 0.0446804 | 0.17476184 | 3.1683876 | 21 | 2 2.4 | 20.3 |
| 277113 2005 $GY_{25}$ | 17.9 | X | 328.55096 | 256.47414 | 18.53104 | 3.34571 | 0.1774756 | 0.30738183 | 2.1744558 | 21 | 4 6.8 | 19.6 |
| 277114 2005 $GT_{28}$ | 15.1 | X | 256.86416 | 73.39358 | 205.29922 | 26.38769 | 0.0387993 | 0.17671445 | 3.1450050 | 21 | 2 10.3 | 20.2 |
| 277115 2005 $GC_{29}$ | 15.2 | X | 288.44121 | 35.40761 | 207.62075 | 16.71388 | 0.0974269 | 0.17507267 | 3.1646364 | 21 | 1 29.4 | 20.1 |
| 277116 2005 $GJ_{30}$ | 15.2 | X | 306.63534 | 37.70953 | 181.50884 | 17.14540 | 0.1696021 | 0.17584471 | 3.1553668 | 21 | 1 14.7 | 20.1 |
| 277117 2005 $GW_{46}$ | 15.7 | X | 156.79255 | 205.40574 | 191.60998 | 17.71132 | 0.1873537 | 0.18474314 | 3.0532134 | 21 | 3 27.9 | 20.6 |
| 277118 2005 $GS_{59}$ | 15.8 | X | 343.92660 | 18.37310 | 145.02082 | 10.80765 | 0.1316761 | 0.17528726 | 3.1620530 | 21 | 1 3.0 | 20.0 |
| 277119 2005 $GH_{62}$ | 16.1 | X | 215.53870 | 330.85318 | 341.58734 | 9.82939 | 0.0227772 | 0.18187337 | 3.0852473 | 21 | 2 11.7 | 20.6 |
| 277120 2005 $GU_{68}$ | 14.9 | X | 228.07132 | 204.76043 | 94.67121 | 17.51049 | 0.2041227 | 0.17238612 | 3.1974310 | 21 | 2 5.7 | 20.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277121 2005 $GF_{69}$ | 15.2 | X | 354.06739 | 68.08959 | 103.03902 | 18.35395 | 0.1407517 | 0.17704217 | 3.1411227 | 21 | 1 27.5 | 19.1 |
| 277122 2005 $GM_{80}$ | 15.4 | X | 14.92957 | 285.15716 | 186.85197 | 13.42156 | 0.1103749 | 0.16969435 | 3.2311550 | 21 | — | — |
| 277123 2005 $GO_{85}$ | 16.6 | X | 298.50739 | 64.73844 | 145.52554 | 2.05377 | 0.1226587 | 0.17506899 | 3.1646807 | 21 | 1 3.4 | 21.2 |
| 277124 2005 $GX_{97}$ | 17.7 | X | 216.45659 | 163.22707 | 182.07024 | 8.92074 | 0.1616224 | 0.29974016 | 2.2112581 | 21 | 3 4.9 | 21.2 |
| 277125 2005 $GU_{104}$ | 15.6 | X | 208.01788 | 261.41955 | 34.28223 | 11.74717 | 0.1136800 | 0.16944949 | 3.2342670 | 21 | 1 17.6 | 20.9 |
| 277126 2005 $GO_{119}$ | 15.3 | X | 34.40842 | 315.07871 | 279.92715 | 15.01532 | 0.1475324 | 0.19126888 | 2.9833658 | 21 | 7 1.7 | 18.8 |
| 277127 2005 $GW_{119}$ | 18.7 | X | 41.14272 | 242.92743 | 171.06224 | 2.88261 | 0.2330466 | 0.46902484 | 1.6406105 | 21 | — | — |
| 277128 2005 $GJ_{127}$ | 15.3 | X | 328.34519 | 180.80693 | 86.53609 | 13.53620 | 0.1762623 | 0.18330102 | 3.0692066 | 21 | 4 20.4 | 19.3 |
| 277129 2005 $GT_{135}$ | 16.1 | X | 353.85934 | 177.80995 | 108.26383 | 7.91751 | 0.2645575 | 0.18945210 | 3.0024084 | 21 | 6 22.7 | 18.7 |
| 277130 2005 $GJ_{161}$ | 15.6 | X | 250.54932 | 228.20164 | 45.92027 | 16.46070 | 0.2243946 | 0.17139105 | 3.2097950 | 21 | 1 26.7 | 21.2 |
| 277131 2005 $GR_{196}$ | 15.8 | X | 145.66277 | 340.42449 | 10.31757 | 8.88955 | 0.0333756 | 0.17443275 | 3.1723715 | 21 | 1 11.1 | 20.5 |
| 277132 2005 $GU_{206}$ | 15.2 | X | 30.58552 | 50.79871 | 91.92211 | 25.91624 | 0.1182735 | 0.17939839 | 3.1135585 | 21 | 2 28.5 | 19.5 |
| 277133 2005 $GG_{227}$ | 17.4 | X | 288.82728 | 15.16727 | 38.63006 | 3.34123 | 0.1661698 | 0.26505278 | 2.4002021 | 21 | 9 5.8 | 19.8 |
| 277134 2005 $JE_{5}$ | 15.1 | X | 71.85430 | 212.08441 | 170.01786 | 15.47696 | 0.1030091 | 0.15687167 | 3.4049158 | 21 | — | — |
| 277135 2005 $JW_{14}$ | 15.7 | X | 296.72292 | 55.42476 | 197.47578 | 16.45646 | 0.1636144 | 0.17853127 | 3.1236320 | 21 | 2 10.9 | 20.5 |
| 277136 2005 $JV_{76}$ | 15.6 | X | 20.10033 | 11.40245 | 232.83755 | 21.77434 | 0.1545522 | 0.18829209 | 3.0147271 | 21 | 6 16.8 | 19.2 |
| 277137 2005 $JG_{118}$ | 16.8 | X | 164.03632 | 256.33652 | 84.38791 | 13.48161 | 0.2813029 | 0.22266862 | 2.6958561 | 21 | 2 1.3 | 21.6 |
| 277138 2005 $JO_{128}$ | 15.7 | X | 297.26369 | 101.89423 | 120.28564 | 5.56530 | 0.1377307 | 0.17337812 | 3.1852231 | 21 | 1 14.4 | 20.4 |
| 277139 2005 $KN_{9}$ | 16.2 | X | 264.24990 | 216.90771 | 66.83277 | 14.19876 | 0.1380620 | 0.23316633 | 2.6143205 | 21 | 2 18.6 | 20.4 |
| 277140 2005 $KP_{13}$ | 17.5 | X | 293.70357 | 41.35128 | 270.86485 | 5.02814 | 0.0974292 | 0.29745199 | 2.2225837 | 21 | 4 21.2 | 20.2 |
| 277141 2005 $LF_{6}$ | 15.4 | X | 347.96541 | 325.14526 | 245.70786 | 14.21465 | 0.2078007 | 0.17712258 | 3.1401719 | 21 | 2 20.9 | 19.4 |
| 277142 2005 $LG_{8}$ | 16.7 | X | 271.24439 | 193.80312 | 211.29889 | 26.56308 | 0.8272161 | 0.42385309 | 1.7551968 | 21 | 5 19.3 | 20.9 |
| 277143 2005 $LU_{30}$ | 16.8 | X | 208.73475 | 202.77220 | 173.34374 | 9.79252 | 0.2361709 | 0.28821720 | 2.2698097 | 21 | 4 9.9 | 20.6 |
| 277144 2005 $LQ_{32}$ | 15.4 | X | 73.07197 | 249.36468 | 217.37151 | 12.85695 | 0.0501546 | 0.17347075 | 3.1840891 | 21 | 2 27.4 | 19.9 |
| 277145 2005 $LN_{38}$ | 17.7 | X | 327.94075 | 154.59829 | 183.20220 | 4.63636 | 0.1774844 | 0.31241216 | 2.1510513 | 21 | 7 21.6 | 19.2 |
| 277146 2005 $LW_{43}$ | 17.7 | X | 327.87283 | 84.65225 | 253.65831 | 2.95740 | 0.2033916 | 0.31320403 | 2.1474241 | 21 | 7 19.1 | 18.8 |
| 277147 2005 $MV$ | 17.2 | X | 235.82875 | 43.49642 | 306.50037 | 6.12823 | 0.1800228 | 0.29099499 | 2.2553418 | 21 | 3 27.4 | 20.7 |
| 277148 2005 $MZ_{2}$ | 16.9 | X | 274.92580 | 8.90436 | 282.48985 | 8.65483 | 0.1300404 | 0.29217856 | 2.2492470 | 21 | 2 21.8 | 20.2 |
| 277149 2005 $MM_{9}$ | 17.0 | X | 116.11127 | 69.15380 | 276.91599 | 7.05386 | 0.1397997 | 0.27263375 | 2.3554993 | 21 | — | — |
| 277150 2005 $MB_{14}$ | 16.7 | X | 160.77484 | 17.62239 | 115.93042 | 7.34814 | 0.0605280 | 0.25377240 | 2.4708125 | 21 | 7 23.7 | 20.2 |
| 277151 2005 $MM_{18}$ | 17.8 | X | 294.50135 | 110.72424 | 232.11186 | 1.96601 | 0.2136272 | 0.30207768 | 2.1998360 | 21 | 5 20.1 | 20.2 |
| 277152 2005 $MD_{20}$ | 17.5 | X | 203.31990 | 137.86171 | 166.08631 | 6.02473 | 0.2045008 | 0.28200838 | 2.3030041 | 21 | 1 5.1 | 21.4 |
| 277153 2005 $ML_{26}$ | 17.1 | X | 99.71953 | 208.39785 | 127.52004 | 7.11753 | 0.1253607 | 0.26951357 | 2.3736442 | 21 | — | — |
| 277154 2005 $MM_{26}$ | 18.0 | X | 1.40925 | 120.64612 | 171.17619 | 4.69645 | 0.1944825 | 0.30774905 | 2.1727257 | 21 | 7 26.0 | 19.0 |
| 277155 2005 $MO_{26}$ | 17.2 | X | 206.72755 | 53.03213 | 253.62912 | 6.05600 | 0.1283879 | 0.28281007 | 2.2986498 | 21 | 1 7.9 | 20.5 |
| 277156 2005 $MC_{33}$ | 17.1 | X | 241.43426 | 205.33643 | 127.44786 | 8.36941 | 0.1527596 | 0.29261318 | 2.2470192 | 21 | 3 17.9 | 20.5 |
| 277157 2005 $MH_{38}$ | 17.2 | X | 8.57526 | 93.21317 | 124.33040 | 7.61297 | 0.0456165 | 0.29581962 | 2.2307526 | 21 | 4 12.8 | 19.6 |
| 277158 2005 $MH_{39}$ | 17.4 | X | 100.35139 | 29.11746 | 313.98712 | 4.47903 | 0.2402203 | 0.26830001 | 2.3807964 | 21 | — | — |
| 277159 2005 $ME_{40}$ | 16.9 | X | 145.77467 | 290.28694 | 150.55304 | 7.58814 | 0.0671388 | 0.29527764 | 2.2334814 | 21 | 4 23.8 | 19.8 |
| 277160 2005 $MC_{48}$ | 17.8 | X | 99.99872 | 182.11797 | 168.14203 | 6.67968 | 0.1549825 | 0.26989915 | 2.3713830 | 21 | — | — |
| 277161 2005 $NM_{13}$ | 16.2 | X | 265.25673 | 140.46272 | 133.57828 | 6.59813 | 0.0799032 | 0.22757687 | 2.6569536 | 21 | 2 8.1 | 19.9 |
| 277162 2005 $NM_{20}$ | 16.1 | X | 300.91615 | 47.29134 | 320.40976 | 25.79371 | 0.3641834 | 0.23821860 | 2.5772247 | 21 | 6 13.6 | 20.0 |
| 277163 2005 $NN_{47}$ | 17.5 | X | 169.38518 | 195.21294 | 107.64379 | 5.58135 | 0.1919414 | 0.21430466 | 2.7655508 | 21 | — | — |
| 277164 2005 $NQ_{54}$ | 17.3 | X | 191.39730 | 251.97402 | 141.94188 | 7.62339 | 0.1131492 | 0.29306691 | 2.2446994 | 21 | 4 16.9 | 20.6 |
| 277165 2005 $NU_{58}$ | 17.0 | X | 281.90187 | 309.41734 | 295.19880 | 6.06276 | 0.0833042 | 0.28691926 | 2.2766499 | 21 | 1 9.3 | 19.9 |
| 277166 2005 $NQ_{60}$ | 16.6 | X | 230.77253 | 216.25602 | 123.10497 | 8.08947 | 0.1586159 | 0.28869002 | 2.2673307 | 21 | 3 16.3 | 20.2 |
| 277167 2005 $NQ_{70}$ | 17.7 | X | 136.41225 | 192.31543 | 119.53229 | 2.27006 | 0.1950168 | 0.27025569 | 2.3692969 | 21 | — | — |
| 277168 2005 $NB_{72}$ | 17.2 | X | 26.34526 | 115.13197 | 260.19556 | 5.49739 | 0.1808062 | 0.26040242 | 2.4286935 | 21 | — | — |
| 277169 2005 $NF_{84}$ | 17.1 | X | 298.62424 | 298.75067 | 298.84455 | 6.80401 | 0.0765815 | 0.28897882 | 2.2658198 | 21 | 1 20.5 | 19.9 |
| 277170 2005 $NJ_{101}$ | 17.5 | X | 62.58230 | 89.48376 | 145.51441 | 5.16266 | 0.1008715 | 0.30949412 | 2.1645508 | 21 | 8 14.3 | 19.5 |
| 277171 2005 $NX_{101}$ | 16.7 | X | 124.47379 | 203.05335 | 161.21924 | 4.14828 | 0.1104747 | 0.21470849 | 2.7620820 | 21 | 1 2.2 | 20.5 |
| 277172 2005 $OB$ | 17.4 | X | 33.68269 | 13.76690 | 297.83895 | 6.61264 | 0.3584301 | 0.31343518 | 2.1463682 | 21 | 12 5.0 | 20.2 |
| 277173 2005 $OY_{1}$ | 17.3 | X | 273.89479 | 269.99777 | 73.68217 | 8.28549 | 0.1695239 | 0.29968198 | 2.2115442 | 21 | 5 3.5 | 20.3 |
| 277174 2005 $OT_{10}$ | 16.9 | X | 160.81610 | 1.72682 | 25.01374 | 7.14465 | 0.2241131 | 0.28280133 | 2.2986971 | 21 | 3 15.1 | 20.5 |
| 277175 2005 $OS_{14}$ | 17.4 | X | 305.25108 | 354.08318 | 330.83308 | 5.33319 | 0.2593903 | 0.29935439 | 2.2131574 | 21 | 4 28.7 | 20.0 |
| 277176 2005 $OX_{18}$ | 17.5 | X | 260.08486 | 192.74218 | 143.08729 | 5.91908 | 0.1949854 | 0.29289036 | 2.2456014 | 21 | 4 5.5 | 20.9 |
| 277177 2005 $OU_{22}$ | 17.1 | X | 217.43241 | 311.48896 | 40.75664 | 6.94707 | 0.1498159 | 0.29021928 | 2.2593588 | 21 | 3 19.9 | 20.5 |
| 277178 2005 $OE_{25}$ | 17.7 | X | 60.70268 | 160.34128 | 187.69768 | 2.17472 | 0.2100499 | 0.26121287 | 2.4236673 | 21 | — | — |
| 277179 2005 $OB_{26}$ | 15.0 | X | 7.33944 | 141.01794 | 195.45585 | 1.89517 | 0.2821543 | 0.12611390 | 3.9381665 | 21 | 10 3.8 | 18.9 |
| 277180 2005 $OB_{27}$ | 17.4 | X | 214.86658 | 153.67580 | 180.94683 | 6.62493 | 0.1334887 | 0.28560002 | 2.2836553 | 21 | 2 19.3 | 20.8 |
| 277181 2005 $PT$ | 16.2 | X | 90.51556 | 11.54878 | 328.14567 | 15.25470 | 0.3053437 | 0.26524460 | 2.3990448 | 21 | — | — |
| 277182 2005 $PF_{1}$ | 17.0 | X | 135.44787 | 259.09952 | 115.27581 | 7.03743 | 0.1340293 | 0.27804295 | 2.3248492 | 21 | 1 18.8 | 19.7 |
| 277183 2005 $PL_{10}$ | 17.2 | X | 31.79491 | 356.52497 | 357.80508 | 5.40125 | 0.1744649 | 0.25710737 | 2.4493999 | 21 | 12 21.8 | 20.4 |
| 277184 2005 $PU_{19}$ | 17.2 | X | 288.12777 | 333.91930 | 266.30270 | 1.77110 | 0.1252522 | 0.28618311 | 2.2805524 | 21 | 1 6.3 | 20.1 |
| 277185 2005 $QZ_{6}$ | 17.6 | X | 278.46391 | 153.12074 | 157.39931 | 4.15423 | 0.1747603 | 0.29320168 | 2.2440115 | 21 | 3 22.9 | 20.7 |
| 277186 2005 $QZ_{13}$ | 17.5 | X | 171.59208 | 214.93889 | 175.53211 | 4.07558 | 0.1800592 | 0.28442307 | 2.2899509 | 21 | 3 24.4 | 21.0 |
| 277187 2005 $QM_{21}$ | 17.1 | X | 169.97749 | 358.36716 | 20.83248 | 4.80428 | 0.1817989 | 0.28250139 | 2.3003239 | 21 | 3 10.1 | 20.5 |
| 277188 2005 $QF_{23}$ | 17.1 | X | 286.54016 | 224.76993 | 133.09391 | 4.56130 | 0.2142654 | 0.29918332 | 2.2140009 | 21 | 6 1.1 | 19.8 |
| 277189 2005 $QE_{31}$ | 16.8 | X | 39.42266 | 313.21523 | 32.58308 | 5.43067 | 0.1402613 | 0.25793081 | 2.4441840 | 21 | 12 15.1 | 19.9 |
| 277190 2005 $QT_{31}$ | 17.3 | X | 281.32302 | 75.11599 | 248.53511 | 5.64325 | 0.1585883 | 0.29654395 | 2.2271186 | 21 | 4 11.9 | 20.3 |
| 277191 2005 $QA_{32}$ | 17.7 | X | 240.09670 | 164.00836 | 170.02537 | 3.94751 | 0.2251442 | 0.28992399 | 2.2608927 | 21 | 3 12.3 | 21.4 |
| 277192 2005 $QS_{35}$ | 17.1 | X | 136.29867 | 242.13956 | 145.29892 | 6.28764 | 0.1505879 | 0.27753954 | 2.3276596 | 21 | 2 8.3 | 20.0 |
| 277193 2005 $QQ_{36}$ | 17.5 | X | 240.01122 | 21.10203 | 313.84808 | 4.60553 | 0.1914149 | 0.28865476 | 2.2675153 | 21 | 3 13.2 | 21.1 |
| 277194 2005 $QP_{46}$ | 17.0 | X | 160.82538 | 344.62530 | 332.95991 | 6.14218 | 0.1760956 | 0.27453708 | 2.3445997 | 21 | — | — |
| 277195 2005 $QN_{49}$ | 17.5 | X | 292.22115 | 206.98296 | 127.81764 | 7.20934 | 0.2084427 | 0.29810572 | 2.2193332 | 21 | 5 9.2 | 20.3 |
| 277196 2005 $QV_{49}$ | 17.1 | X | 107.86196 | 201.47917 | 114.74631 | 5.95687 | 0.2346154 | 0.26425123 | 2.4050533 | 21 | — | — |
| 277197 2005 $QZ_{49}$ | 17.1 | X | 267.40729 | 260.30419 | 59.17141 | 6.29816 | 0.1143649 | 0.29092567 | 2.2557001 | 21 | 3 31.7 | 20.1 |
| 277198 2005 $QQ_{55}$ | 17.5 | X | 164.39574 | 5.25919 | 358.94062 | 2.07999 | 0.2096717 | 0.27895228 | 2.3197941 | 21 | 2 15.6 | 20.9 |
| 277199 2005 $QN_{56}$ | 17.5 | X | 341.10529 | 294.07396 | 2.21207 | 4.56544 | 0.2059326 | 0.30386486 | 2.1912019 | 21 | 6 3.6 | 19.0 |
| 277200 2005 $QP_{70}$ | 17.1 | X | 243.30371 | 197.76964 | 170.64555 | 5.27683 | 0.1826960 | 0.29366957 | 2.2416274 | 21 | 5 2.1 | 20.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277201 2005 $QE_{73}$ | 17.2 | X | 213.83357 | 126.26636 | 223.87115 | 3.09820 | 0.1591344 | 0.28597246 | 2.2816722 | 21 | 3 10.1 | 20.7 |
| 277202 2005 $QP_{78}$ | 17.0 | X | 48.95373 | 222.61342 | 180.85119 | 6.16887 | 0.1177870 | 0.26432765 | 2.4045897 | 21 | — | — |
| 277203 2005 $QV_{85}$ | 16.4 | X | 98.58815 | 350.71314 | 46.67820 | 12.19759 | 0.2024105 | 0.26940368 | 2.3742897 | 21 | 1 11.5 | 19.0 |
| 277204 2005 $QV_{88}$ | 16.9 | X | 251.42368 | 114.78360 | 349.72708 | 2.08633 | 0.0800447 | 0.24708762 | 2.5151780 | 21 | 10 1.6 | 20.2 |
| 277205 2005 $QH_{92}$ | 17.3 | X | 332.12477 | 319.45664 | 347.48435 | 5.17118 | 0.1541844 | 0.30110346 | 2.2045784 | 21 | 6 10.0 | 19.1 |
| 277206 2005 $QU_{92}$ | 17.1 | X | 98.51931 | 285.94812 | 100.02585 | 3.41141 | 0.1938912 | 0.27095103 | 2.3652416 | 21 | — | — |
| 277207 2005 $QA_{106}$ | 17.5 | X | 4.95407 | 222.12319 | 106.71154 | 4.46406 | 0.2039336 | 0.31064147 | 2.1592177 | 21 | 10 19.9 | 18.9 |
| 277208 2005 $QR_{106}$ | 17.7 | X | 267.60505 | 231.99824 | 74.23624 | 4.88850 | 0.1730349 | 0.29086705 | 2.2560031 | 21 | 3 8.1 | 21.0 |
| 277209 2005 $QS_{109}$ | 17.2 | X | 189.71374 | 92.91480 | 284.08815 | 1.92737 | 0.1629493 | 0.28548428 | 2.2842725 | 21 | 3 22.0 | 20.7 |
| 277210 2005 $QC_{117}$ | 17.8 | X | 100.97094 | 327.58269 | 347.26067 | 4.84321 | 0.2380724 | 0.26369730 | 2.4084202 | 21 | — | — |
| 277211 2005 $QN_{130}$ | 17.3 | X | 193.92261 | 234.10487 | 15.04934 | 7.00753 | 0.0863168 | 0.26733980 | 2.3864938 | 21 | — | — |
| 277212 2005 $QT_{130}$ | 16.4 | X | 25.88056 | 298.73001 | 126.70592 | 6.82073 | 0.0773872 | 0.20309254 | 2.8664216 | 21 | — | — |
| 277213 2005 $QC_{133}$ | 17.1 | X | 279.90378 | 42.94418 | 16.80861 | 5.14618 | 0.1239182 | 0.24529986 | 2.5273837 | 21 | 9 5.3 | 20.0 |
| 277214 2005 $QC_{135}$ | 17.5 | X | 46.69109 | 329.22898 | 141.94270 | 3.03449 | 0.0903070 | 0.27579937 | 2.3374404 | 21 | 1 8.7 | 19.7 |
| 277215 2005 $QJ_{135}$ | 17.5 | X | 204.24306 | 333.97415 | 26.42092 | 2.23090 | 0.1241161 | 0.28545353 | 2.2844366 | 21 | 3 15.7 | 20.9 |
| 277216 2005 $QS_{139}$ | 17.5 | X | 355.46823 | 343.91667 | 114.75100 | 2.04926 | 0.1426248 | 0.26394117 | 2.4069365 | 21 | — | — |
| 277217 2005 $QH_{143}$ | 17.5 | X | 195.61427 | 148.99686 | 209.94312 | 9.44863 | 0.2433101 | 0.28399562 | 2.2922481 | 21 | 3 5.4 | 21.6 |
| 277218 2005 $QF_{147}$ | 16.7 | X | 121.23138 | 290.76780 | 117.43379 | 10.09806 | 0.1888732 | 0.27943833 | 2.3171033 | 21 | 2 25.4 | 19.7 |
| 277219 2005 $QD_{151}$ | 17.9 | X | 47.85854 | 308.32484 | 25.96475 | 1.80669 | 0.1951965 | 0.25506094 | 2.4624839 | 21 | 12 18.3 | 21.2 |
| 277220 2005 $QX_{156}$ | 14.4 | X | 12.58717 | 67.22363 | 251.22713 | 10.22619 | 0.2598424 | 0.12304947 | 4.0032824 | 21 | 9 13.7 | 18.9 |
| 277221 2005 $QE_{159}$ | 16.6 | X | 189.82802 | 245.99644 | 38.43559 | 5.48334 | 0.2217351 | 0.27318395 | 2.3523355 | 21 | — | — |
| 277222 2005 $QC_{160}$ | 16.6 | X | 154.57371 | 312.37029 | 55.85294 | 6.81101 | 0.1601249 | 0.27861199 | 2.3216826 | 21 | 2 8.3 | 19.9 |
| 277223 2005 $QN_{162}$ | 17.1 | X | 155.17697 | 276.46698 | 103.84869 | 4.70740 | 0.1678707 | 0.28110771 | 2.3079207 | 21 | 2 23.9 | 20.4 |
| 277224 2005 $QN_{164}$ | 17.2 | X | 14.37097 | 330.73508 | 102.04375 | 2.45173 | 0.1765544 | 0.26191376 | 2.4193415 | 21 | — | — |
| 277225 2005 $QH_{165}$ | 17.1 | X | 287.58392 | 268.48165 | 67.34249 | 5.50615 | 0.1986877 | 0.29667446 | 2.2264653 | 21 | 5 4.3 | 20.0 |
| 277226 2005 $QK_{167}$ | 16.8 | X | 92.61767 | 168.71574 | 220.27289 | 11.63683 | 0.2585331 | 0.27015409 | 2.3698909 | 21 | — | — |
| 277227 2005 $QR_{169}$ | 16.8 | X | 212.01527 | 85.48851 | 224.98988 | 6.29869 | 0.1274654 | 0.27968432 | 2.3157445 | 21 | 1 17.6 | 20.3 |
| 277228 2005 $QW_{171}$ | 17.4 | X | 347.89305 | 342.54799 | 313.84429 | 3.92294 | 0.1525580 | 0.30142668 | 2.2030022 | 21 | 6 29.6 | 18.8 |
| 277229 2005 $QK_{173}$ | 17.1 | X | 191.87135 | 4.89270 | 347.64771 | 6.02531 | 0.1970426 | 0.28139527 | 2.3063481 | 21 | 2 24.7 | 20.9 |
| 277230 2005 $QX_{176}$ | 17.0 | X | 27.63229 | 268.31225 | 83.84678 | 4.73495 | 0.1516716 | 0.25416456 | 2.4682703 | 21 | 12 9.0 | 19.9 |
| 277231 2005 $QE_{181}$ | 16.9 | X | 328.73531 | 0.95513 | 282.41973 | 4.42270 | 0.1354676 | 0.29418805 | 2.2389928 | 21 | 4 27.6 | 19.0 |
| 277232 2005 $QM_{181}$ | 17.1 | X | 59.94242 | 264.80560 | 168.40398 | 4.20314 | 0.0942321 | 0.27053115 | 2.3676883 | 21 | — | — |
| 277233 2005 $QE_{182}$ | 17.2 | X | 257.89891 | 196.93075 | 148.04596 | 7.33127 | 0.1448950 | 0.29155609 | 2.2524473 | 21 | 4 20.9 | 20.4 |
| 277234 2005 $QM_{182}$ | 17.5 | X | 11.49754 | 207.55801 | 216.65951 | 1.88953 | 0.1929967 | 0.25959604 | 2.4337204 | 21 | — | — |
| 277235 2005 $QR_{189}$ | 17.6 | X | 151.77099 | 170.83786 | 260.57660 | 1.58760 | 0.0847474 | 0.28927075 | 2.2642951 | 21 | 4 16.9 | 20.4 |
| 277236 2005 $RS_{1}$ | 16.9 | X | 137.21661 | 1.35429 | 30.20711 | 3.35295 | 0.1791446 | 0.28069861 | 2.3101626 | 21 | 2 19.9 | 19.9 |
| 277237 2005 $RZ_{5}$ | 17.0 | X | 246.36490 | 325.52212 | 7.93985 | 3.88662 | 0.1447493 | 0.28996546 | 2.2606771 | 21 | 3 21.8 | 20.2 |
| 277238 2005 $RD_{8}$ | 16.8 | X | 188.36662 | 231.99572 | 174.25698 | 9.18462 | 0.3849759 | 0.22344494 | 2.6896083 | 21 | 5 6.2 | 22.1 |
| 277239 2005 $RT_{10}$ | 17.2 | X | 311.15727 | 233.09303 | 81.97698 | 7.39059 | 0.1592459 | 0.30038401 | 2.2080971 | 21 | 5 15.3 | 19.5 |
| 277240 2005 $RL_{14}$ | 17.6 | X | 356.40802 | 111.65581 | 341.72873 | 6.11260 | 0.0799732 | 0.26572692 | 2.3961408 | 21 | — | — |
| 277241 2005 $RT_{14}$ | 17.4 | X | 62.82003 | 126.47456 | 344.37032 | 7.31638 | 0.0618102 | 0.28058472 | 2.3107877 | 21 | 2 4.3 | 19.9 |
| 277242 2005 $RF_{19}$ | 17.6 | X | 171.42271 | 254.50462 | 28.88477 | 1.66484 | 0.1701511 | 0.26956040 | 2.3733693 | 21 | — | — |
| 277243 2005 $RN_{22}$ | 17.1 | X | 188.89316 | 99.51261 | 223.58539 | 6.06827 | 0.1434160 | 0.27723339 | 2.3293729 | 21 | 1 12.2 | 20.7 |
| 277244 2005 $RZ_{23}$ | 15.7 | X | 81.09790 | 195.37805 | 206.83393 | 25.89378 | 0.2654210 | 0.26609150 | 2.3939517 | 21 | — | — |
| 277245 2005 $RX_{24}$ | 16.4 | X | 161.17800 | 317.38776 | 35.46088 | 8.99290 | 0.2808878 | 0.27469146 | 2.3437212 | 21 | 2 8.5 | 20.3 |
| 277246 2005 $RT_{25}$ | 16.6 | X | 253.43290 | 49.15836 | 280.57213 | 5.67795 | 0.1945286 | 0.28917632 | 2.2647881 | 21 | 3 17.2 | 20.1 |
| 277247 2005 $RG_{30}$ | 16.7 | X | 273.37089 | 299.43179 | 46.13824 | 7.21314 | 0.1510104 | 0.29412257 | 2.2393251 | 21 | 5 6.1 | 19.3 |
| 277248 2005 $RK_{30}$ | 15.5 | X | 207.07743 | 236.30457 | 183.43449 | 28.88030 | 0.2475033 | 0.22727669 | 2.6592926 | 21 | 6 3.9 | 20.7 |
| 277249 2005 $RT_{30}$ | 16.6 | X | 242.73571 | 98.16823 | 296.83587 | 12.13907 | 0.2779538 | 0.23165805 | 2.6256558 | 21 | 5 28.7 | 21.2 |
| 277250 2005 $RL_{41}$ | 17.8 | X | 55.65923 | 238.22803 | 99.66995 | 2.53390 | 0.1851790 | 0.25717687 | 2.4489586 | 21 | 12 30.8 | 21.3 |
| 277251 2005 $RW_{44}$ | 14.5 | X | 20.13855 | 177.08105 | 141.50877 | 9.59673 | 0.2719030 | 0.12434965 | 3.9753284 | 21 | 10 9.3 | 19.0 |
| 277252 2005 $RX_{44}$ | 16.9 | X | 120.81811 | 335.45593 | 56.86862 | 6.76595 | 0.1138351 | 0.27538481 | 2.3397856 | 21 | 1 22.5 | 19.7 |
| 277253 2005 $RX_{45}$ | 17.5 | X | 213.53782 | 190.80949 | 144.91639 | 7.38607 | 0.1360690 | 0.28202235 | 2.3029280 | 21 | 2 21.6 | 21.0 |
| 277254 2005 $RC_{46}$ | 17.4 | X | 314.26880 | 47.96483 | 111.04884 | 7.31934 | 0.0910615 | 0.26538512 | 2.3981978 | 21 | — | — |
| 277255 2005 $SR_{2}$ | 16.6 | X | 183.59819 | 355.21131 | 3.38530 | 4.85228 | 0.0353801 | 0.28072489 | 2.3100184 | 21 | 2 15.2 | 19.5 |
| 277256 2005 $SW_{2}$ | 17.0 | X | 206.84913 | 323.84815 | 24.24427 | 6.82779 | 0.1351735 | 0.28326004 | 2.2962148 | 21 | 3 4.9 | 20.5 |
| 277257 2005 $SV_{3}$ | 15.9 | X | 285.74111 | 62.38252 | 43.45430 | 7.49787 | 0.1145726 | 0.18708688 | 3.0276604 | 21 | 11 6.2 | 19.7 |
| 277258 2005 $SD_{5}$ | 17.2 | X | 306.03026 | 293.60400 | 22.57465 | 4.67503 | 0.2202689 | 0.29944860 | 2.2126931 | 21 | 4 25.6 | 19.8 |
| 277259 2005 $SS_{9}$ | 17.3 | X | 190.28484 | 142.02168 | 211.61384 | 2.77333 | 0.2428528 | 0.28080855 | 2.3095595 | 21 | 2 24.8 | 21.3 |
| 277260 2005 $SD_{17}$ | 17.9 | X | 239.98883 | 335.67275 | 325.24926 | 1.97070 | 0.0831280 | 0.28129754 | 2.3068823 | 21 | 2 5.1 | 20.8 |
| 277261 2005 $SS_{20}$ | 17.0 | X | 174.82067 | 320.29491 | 33.99578 | 7.31130 | 0.1450963 | 0.27735608 | 2.3286860 | 21 | 2 10.9 | 20.5 |
| 277262 2005 $SB_{26}$ | 16.8 | X | 44.90098 | 142.11153 | 234.92938 | 7.65483 | 0.0671444 | 0.25892490 | 2.4379240 | 21 | — | — |
| 277263 2005 $SO_{26}$ | 17.5 | X | 135.47159 | 149.18274 | 171.30719 | 4.93094 | 0.2071329 | 0.27050029 | 2.3678684 | 21 | — | — |
| 277264 2005 $SE_{28}$ | 17.2 | X | 317.67843 | 34.16064 | 238.64326 | 4.12392 | 0.1441715 | 0.29074251 | 2.2566473 | 21 | 3 23.2 | 19.8 |
| 277265 2005 $SW_{31}$ | 17.0 | X | 55.38373 | 343.30810 | 72.43204 | 3.45187 | 0.0710736 | 0.26548319 | 2.3976072 | 21 | — | — |
| 277266 2005 $SB_{42}$ | 17.8 | X | 322.59138 | 72.30498 | 221.88004 | 4.96842 | 0.1776266 | 0.29556257 | 2.2320458 | 21 | 4 27.7 | 19.7 |
| 277267 2005 $SU_{49}$ | 17.6 | X | 299.95139 | 213.06599 | 152.05615 | 1.08847 | 0.1724935 | 0.23777875 | 2.5804019 | 21 | 7 9.7 | 20.5 |
| 277268 2005 $SR_{50}$ | 17.4 | X | 187.81007 | 323.86827 | 21.98366 | 4.93310 | 0.1528919 | 0.27844654 | 2.3226022 | 21 | 2 12.2 | 20.9 |
| 277269 2005 $SC_{53}$ | 17.7 | X | 263.66513 | 138.19011 | 183.36535 | 4.45322 | 0.1616035 | 0.29061593 | 2.2573026 | 21 | 3 22.3 | 20.9 |
| 277270 2005 $SB_{55}$ | 17.5 | X | 34.50272 | 234.05106 | 183.00894 | 1.69308 | 0.1591890 | 0.26104439 | 2.4247100 | 21 | — | — |
| 277271 2005 $SL_{58}$ | 17.1 | X | 289.30196 | 52.67172 | 312.76578 | 3.08841 | 0.2182729 | 0.23726071 | 2.5841566 | 21 | 6 16.3 | 20.3 |
| 277272 2005 $SQ_{60}$ | 17.5 | X | 267.78696 | 121.02100 | 184.78982 | 2.63083 | 0.1745219 | 0.28766994 | 2.2726875 | 21 | 3 4.9 | 20.9 |
| 277273 2005 $SU_{61}$ | 16.0 | X | 313.65949 | 161.64620 | 196.21232 | 17.66182 | 0.1501691 | 0.17661723 | 3.1461591 | 21 | 7 20.6 | 20.3 |
| 277274 2005 $SD_{63}$ | 17.0 | X | 62.06486 | 232.76180 | 186.50020 | 8.13878 | 0.0952425 | 0.26887248 | 2.3774158 | 21 | — | — |
| 277275 2005 $SQ_{67}$ | 17.7 | X | 121.89250 | 318.12667 | 348.34983 | 1.88190 | 0.2084707 | 0.26404773 | 2.4062889 | 21 | — | — |
| 277276 2005 $SR_{67}$ | 17.2 | X | 199.97920 | 345.48752 | 357.05279 | 4.62412 | 0.1471242 | 0.28158443 | 2.3053151 | 21 | 2 18.2 | 20.6 |
| 277277 2005 $SK_{68}$ | 17.2 | X | 155.96395 | 122.22964 | 244.43677 | 1.89758 | 0.1899466 | 0.27654481 | 2.3332380 | 21 | 2 7.7 | 20.5 |
| 277278 2005 $SV_{68}$ | 17.3 | X | 8.96026 | 104.36067 | 191.71995 | 7.23208 | 0.2337159 | 0.30518872 | 2.1848606 | 21 | 8 29.7 | 18.5 |
| 277279 2005 $SA_{71}$ | 18.8 | X | 261.63977 | 283.73114 | 44.28355 | 20.20792 | 0.3677196 | 0.47887999 | 1.6180239 | 21 | 3 11.3 | 21.9 |
| 277280 2005 $SA_{77}$ | 17.1 | X | 338.63117 | 69.35476 | 15.18309 | 6.63787 | 0.1024171 | 0.25785821 | 2.4446428 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277281 2005 $SQ_{77}$ | 17.1 | X | 166.18521 | 109.89052 | 175.32704 | 6.20090 | 0.1367992 | 0.26701498 | 2.3884288 | 21 | — | — |
| 277282 2005 $SW_{77}$ | 17.4 | X | 345.85560 | 58.82215 | 21.79598 | 6.47641 | 0.1277428 | 0.25782174 | 2.4448733 | 21 | — | — |
| 277283 2005 $SZ_{78}$ | 17.8 | X | 17.74243 | 24.72269 | 44.20668 | 3.16511 | 0.1768030 | 0.26094639 | 2.4253171 | 21 | — | — |
| 277284 2005 $SD_{86}$ | 17.5 | X | 133.02766 | 262.07693 | 26.67160 | 6.05597 | 0.1401679 | 0.26144542 | 2.4222299 | 21 | — | — |
| 277285 2005 $SG_{86}$ | 17.2 | X | 210.82692 | 142.79333 | 180.94093 | 5.53425 | 0.1253425 | 0.27997418 | 2.3141458 | 21 | 2 2.2 | 20.7 |
| 277286 2005 $SK_{88}$ | 16.3 | X | 350.58403 | 214.99820 | 208.99612 | 12.74665 | 0.1095473 | 0.19211729 | 2.9745761 | 21 | 12 24.6 | 20.1 |
| 277287 2005 $SN_{88}$ | 16.8 | X | 191.90898 | 281.94598 | 59.29204 | 6.28333 | 0.1936061 | 0.28026888 | 2.3125233 | 21 | 2 12.7 | 20.6 |
| 277288 2005 $SA_{89}$ | 17.7 | X | 202.86344 | 84.29840 | 212.49584 | 4.29773 | 0.2382632 | 0.27549419 | 2.3391662 | 21 | — | — |
| 277289 2005 $SZ_{95}$ | 17.7 | X | 258.62867 | 183.02107 | 137.20444 | 2.30320 | 0.2157777 | 0.28933514 | 2.2639592 | 21 | 3 12.2 | 21.2 |
| 277290 2005 $SN_{104}$ | 17.0 | X | 57.06186 | 236.59038 | 166.15654 | 2.07716 | 0.2107453 | 0.26255159 | 2.4154216 | 21 | — | — |
| 277291 2005 $SH_{105}$ | 15.2 | X | 39.43124 | 289.43670 | 44.59142 | 15.51497 | 0.1151362 | 0.18662433 | 3.0326611 | 21 | 11 12.1 | 19.1 |
| 277292 2005 $SD_{106}$ | 16.6 | X | 239.31042 | 211.26102 | 142.29409 | 8.92943 | 0.2040447 | 0.28770287 | 2.2725141 | 21 | 4 9.8 | 20.3 |
| 277293 2005 $SN_{106}$ | 17.5 | X | 14.37516 | 101.11918 | 8.39038 | 1.39040 | 0.1361929 | 0.26716338 | 2.3875443 | 21 | — | — |
| 277294 2005 $SE_{107}$ | 17.0 | X | 210.51695 | 154.75047 | 199.83690 | 25.32388 | 0.1237539 | 0.28590367 | 2.2820381 | 21 | 3 10.4 | 20.7 |
| 277295 2005 $SR_{123}$ | 16.7 | X | 37.41492 | 253.82449 | 219.81708 | 6.12562 | 0.0666728 | 0.27384233 | 2.3485636 | 21 | — | — |
| 277296 2005 $SA_{125}$ | 17.5 | X | 251.82588 | 228.49228 | 116.09466 | 2.37882 | 0.1973205 | 0.29096956 | 2.2554732 | 21 | 4 7.8 | 20.8 |
| 277297 2005 $SY_{128}$ | 17.6 | X | 167.02696 | 316.65929 | 36.45686 | 0.95549 | 0.2352079 | 0.27654993 | 2.3332092 | 21 | 2 6.5 | 21.1 |
| 277298 2005 $SO_{130}$ | 16.9 | X | 238.27564 | 230.27951 | 106.26437 | 7.22603 | 0.1497873 | 0.28591731 | 2.2819655 | 21 | 3 21.2 | 20.4 |
| 277299 2005 $SN_{133}$ | 17.0 | X | 300.09851 | 339.18662 | 20.96714 | 5.85393 | 0.2594126 | 0.23767900 | 2.5811238 | 21 | 6 17.3 | 20.1 |
| 277300 2005 $SK_{139}$ | 17.4 | X | 1.70774 | 21.32542 | 48.11691 | 2.41138 | 0.1202593 | 0.25876212 | 2.4389463 | 21 | — | — |
| 277301 2005 $SZ_{140}$ | 17.2 | X | 350.05198 | 309.88582 | 174.99172 | 6.54936 | 0.0440333 | 0.26713559 | 2.3877098 | 21 | — | — |
| 277302 2005 $SY_{143}$ | 17.1 | X | 90.32308 | 278.73954 | 170.11666 | 7.26103 | 0.0720492 | 0.27792857 | 2.3254870 | 21 | 2 14.9 | 19.8 |
| 277303 2005 $SE_{144}$ | 17.2 | X | 65.63165 | 276.08723 | 161.37532 | 5.37328 | 0.0270841 | 0.27245281 | 2.3565420 | 21 | — | — |
| 277304 2005 $SZ_{151}$ | 17.2 | X | 121.56684 | 326.52748 | 49.00393 | 3.91462 | 0.2222828 | 0.27024138 | 2.3693805 | 21 | 1 18.2 | 20.0 |
| 277305 2005 $SJ_{152}$ | 17.4 | X | 98.75944 | 230.02069 | 134.02028 | 3.21871 | 0.2030422 | 0.26513540 | 2.3997034 | 21 | — | — |
| 277306 2005 $SO_{156}$ | 17.0 | X | 69.96289 | 256.71073 | 190.36710 | 7.52329 | 0.0866052 | 0.27282851 | 2.3543781 | 21 | 1 13.3 | 19.6 |
| 277307 2005 $ST_{164}$ | 16.7 | X | 131.31490 | 215.40513 | 153.90978 | 6.46564 | 0.3010867 | 0.27142048 | 2.3625136 | 21 | 1 30.7 | 20.0 |
| 277308 2005 $SF_{169}$ | 17.5 | X | 217.41788 | 171.05277 | 265.49028 | 3.23290 | 0.1974833 | 0.23345832 | 2.6121402 | 21 | 7 4.4 | 21.8 |
| 277309 2005 $SZ_{169}$ | 17.5 | X | 282.51762 | 85.76830 | 318.49586 | 3.69947 | 0.1418520 | 0.24072700 | 2.5592901 | 21 | 8 13.0 | 20.7 |
| 277310 2005 $SQ_{175}$ | 17.5 | X | 338.21947 | 12.85720 | 231.87159 | 5.26304 | 0.1803157 | 0.28946794 | 2.2632667 | 21 | 3 8.0 | 19.8 |
| 277311 2005 $SP_{186}$ | 17.3 | X | 219.63062 | 140.79894 | 176.18390 | 2.43338 | 0.1891620 | 0.28133511 | 2.3066769 | 21 | 2 3.3 | 21.1 |
| 277312 2005 $ST_{192}$ | 17.5 | X | 269.97248 | 91.19125 | 192.51528 | 3.84930 | 0.2287364 | 0.28341883 | 2.2953570 | 21 | 2 2.8 | 21.3 |
| 277313 2005 $SE_{205}$ | 17.4 | X | 255.08028 | 239.21941 | 89.65457 | 3.64046 | 0.1961077 | 0.28968111 | 2.2621562 | 21 | 3 22.6 | 20.8 |
| 277314 2005 $SV_{207}$ | 16.5 | X | 135.87016 | 306.67053 | 69.93793 | 7.62067 | 0.1261002 | 0.27390255 | 2.3482193 | 21 | 1 23.5 | 19.6 |
| 277315 2005 $SS_{209}$ | 17.0 | X | 153.33629 | 52.21277 | 321.36496 | 6.06919 | 0.1391154 | 0.27787230 | 2.3258009 | 21 | 2 8.8 | 20.1 |
| 277316 2005 $SV_{212}$ | 17.2 | X | 146.96405 | 265.93398 | 7.46695 | 2.63559 | 0.1721969 | 0.25962328 | 2.4335501 | 21 | — | — |
| 277317 2005 $SD_{213}$ | 17.2 | X | 106.81274 | 48.02529 | 320.73527 | 0.49658 | 0.2047739 | 0.26692029 | 2.3889936 | 21 | — | — |
| 277318 2005 $SR_{215}$ | 17.1 | X | 334.50202 | 310.95356 | 1.90936 | 6.33207 | 0.2178929 | 0.29996986 | 2.2101291 | 21 | 6 16.0 | 18.6 |
| 277319 2005 $ST_{217}$ | 16.9 | X | 107.17615 | 209.51351 | 177.23660 | 5.21395 | 0.1161770 | 0.26914840 | 2.3757907 | 21 | — | — |
| 277320 2005 $SJ_{218}$ | 16.8 | X | 193.72227 | 194.80922 | 159.51875 | 4.83379 | 0.1727059 | 0.28030265 | 2.3123377 | 21 | 2 27.0 | 20.3 |
| 277321 2005 $SK_{218}$ | 16.8 | X | 119.09543 | 285.28702 | 86.68075 | 5.16288 | 0.1219172 | 0.26895353 | 2.3769382 | 21 | — | — |
| 277322 2005 $SH_{224}$ | 17.8 | X | 340.17906 | 345.20392 | 184.91049 | 2.64014 | 0.0980056 | 0.27339613 | 2.3511183 | 21 | — | — |
| 277323 2005 $SA_{239}$ | 17.6 | X | 335.57177 | 93.58061 | 189.24977 | 3.62008 | 0.1217680 | 0.29934299 | 2.2132136 | 21 | 5 14.3 | 19.6 |
| 277324 2005 $SS_{240}$ | 17.4 | X | 289.21676 | 301.87333 | 310.32145 | 4.56832 | 0.1457902 | 0.28062131 | 2.3105868 | 21 | 1 22.0 | 20.6 |
| 277325 2005 $SV_{243}$ | 16.9 | X | 151.80135 | 56.19633 | 235.10344 | 6.15112 | 0.1139818 | 0.26610243 | 2.3938861 | 21 | — | — |
| 277326 2005 $SR_{249}$ | 17.0 | X | 202.28109 | 336.50513 | 19.14155 | 6.18142 | 0.1748873 | 0.28580621 | 2.2825569 | 21 | 3 9.8 | 20.5 |
| 277327 2005 $SQ_{254}$ | 14.7 | X | 24.17461 | 181.96888 | 139.80559 | 9.13445 | 0.1093123 | 0.12489792 | 3.9636861 | 21 | 9 30.7 | 19.9 |
| 277328 2005 $SY_{259}$ | 17.6 | X | 257.55891 | 65.46930 | 346.12981 | 3.73654 | 0.1346055 | 0.23779522 | 2.5802827 | 21 | 7 21.9 | 21.2 |
| 277329 2005 $SK_{279}$ | 16.8 | X | 247.26436 | 220.08314 | 49.43215 | 6.81685 | 0.0947129 | 0.26882959 | 2.3776687 | 21 | 1 6.2 | 20.2 |
| 277330 2005 $SM_{290}$ | 17.1 | X | 188.16063 | 87.65287 | 200.35368 | 6.75951 | 0.1587699 | 0.27282868 | 2.3543771 | 21 | — | — |
| 277331 2005 $TN_{12}$ | 17.3 | X | 296.63106 | 229.62577 | 134.56261 | 2.14241 | 0.1680587 | 0.23693050 | 2.5865571 | 21 | 7 3.8 | 20.5 |
| 277332 2005 $TQ_{12}$ | 16.8 | X | 266.78353 | 259.51508 | 46.31822 | 4.57330 | 0.0737588 | 0.28447183 | 2.2896892 | 21 | 3 17.0 | 19.7 |
| 277333 2005 $TU_{18}$ | 17.0 | X | 99.66586 | 252.70866 | 140.63521 | 3.15336 | 0.1112595 | 0.26935669 | 2.3745658 | 21 | — | — |
| 277334 2005 $TN_{26}$ | 16.8 | X | 192.14446 | 116.77240 | 35.89767 | 15.52370 | 0.0652224 | 0.24059041 | 2.5602586 | 21 | 9 29.9 | 20.6 |
| 277335 2005 $TP_{27}$ | 17.2 | X | 176.05871 | 300.45476 | 61.26760 | 3.64878 | 0.1900121 | 0.27854080 | 2.3220782 | 21 | 2 23.1 | 20.8 |
| 277336 2005 $TF_{28}$ | 16.6 | X | 94.64229 | 195.15266 | 209.24028 | 5.91763 | 0.1049533 | 0.26898811 | 2.3767345 | 21 | — | — |
| 277337 2005 $TT_{32}$ | 17.1 | X | 307.35886 | 215.89669 | 46.22236 | 7.49827 | 0.0695458 | 0.28612369 | 2.2808681 | 21 | 3 12.3 | 19.9 |
| 277338 2005 $TR_{42}$ | 16.6 | X | 237.34877 | 30.16245 | 296.85915 | 4.03258 | 0.1773808 | 0.28304888 | 2.2973566 | 21 | 3 2.1 | 20.2 |
| 277339 2005 $TM_{45}$ | 17.4 | X | 341.47310 | 10.37050 | 260.58417 | 3.30920 | 0.1501063 | 0.29706480 | 2.2245146 | 21 | 4 30.4 | 19.2 |
| 277340 2005 $TS_{63}$ | 17.1 | X | 310.22645 | 81.81244 | 209.11438 | 5.63065 | 0.1320152 | 0.29210856 | 2.2496063 | 21 | 4 10.9 | 19.6 |
| 277341 2005 $TO_{68}$ | 17.7 | X | 346.78161 | 339.75330 | 161.16395 | 4.18045 | 0.0967296 | 0.27238866 | 2.3569120 | 21 | — | — |
| 277342 2005 $TL_{73}$ | 16.7 | X | 320.78383 | 253.52630 | 104.57122 | 7.24167 | 0.2405713 | 0.24061360 | 2.5600941 | 21 | 7 28.2 | 18.8 |
| 277343 2005 $TQ_{73}$ | 17.0 | X | 241.06891 | 311.61518 | 24.11930 | 7.27081 | 0.1432022 | 0.28902940 | 2.2655555 | 21 | 3 21.2 | 20.3 |
| 277344 2005 $TN_{75}$ | 17.0 | X | 283.23955 | 280.74300 | 46.07424 | 7.26868 | 0.1626677 | 0.29348448 | 2.2425697 | 21 | 4 21.6 | 19.8 |
| 277345 2005 $TP_{78}$ | 16.2 | X | 221.10220 | 344.67924 | 73.28525 | 15.18396 | 0.2303557 | 0.22980668 | 2.6397387 | 21 | 6 11.9 | 20.7 |
| 277346 2005 $TJ_{79}$ | 16.9 | X | 171.07947 | 296.19005 | 58.49562 | 7.96968 | 0.2579863 | 0.28018901 | 2.3129628 | 21 | 2 16.2 | 20.8 |
| 277347 2005 $TS_{82}$ | 16.6 | X | 90.06100 | 113.29446 | 272.11952 | 6.21690 | 0.1231476 | 0.26581579 | 2.3956067 | 21 | — | — |
| 277348 2005 $TU_{82}$ | 17.1 | X | 85.38834 | 70.73619 | 320.70318 | 5.56830 | 0.2032451 | 0.26729651 | 2.3867514 | 21 | — | — |
| 277349 2005 $TY_{82}$ | 16.4 | X | 263.64933 | 64.35708 | 251.67916 | 5.81705 | 0.1644494 | 0.28749277 | 2.2736211 | 21 | 3 12.2 | 19.9 |
| 277350 2005 $TN_{101}$ | 16.7 | X | 139.91782 | 329.48567 | 54.48647 | 7.22460 | 0.1353049 | 0.27489750 | 2.3425499 | 21 | 2 9.9 | 19.9 |
| 277351 2005 $TS_{101}$ | 16.9 | X | 149.50895 | 243.48598 | 143.78802 | 6.63697 | 0.1380046 | 0.27662489 | 2.3327877 | 21 | 2 22.8 | 20.1 |
| 277352 2005 $TD_{102}$ | 17.4 | X | 185.63436 | 19.77175 | 265.53353 | 2.36442 | 0.1992533 | 0.26931514 | 2.3748100 | 21 | — | — |
| 277353 2005 $TE_{105}$ | 16.9 | X | 308.42949 | 28.58176 | 298.89890 | 3.86640 | 0.2780559 | 0.29769677 | 2.2213652 | 21 | 5 5.1 | 19.5 |
| 277354 2005 $TK_{110}$ | 17.5 | X | 16.70746 | 201.54093 | 214.76865 | 5.53393 | 0.0970620 | 0.25993439 | 2.4316079 | 21 | — | — |
| 277355 2005 $TB_{112}$ | 17.3 | X | 334.37998 | 289.67781 | 213.40513 | 5.40891 | 0.0587372 | 0.26734327 | 2.3864731 | 21 | — | — |
| 277356 2005 $TG_{118}$ | 17.3 | X | 268.93436 | 20.02580 | 233.36587 | 1.38842 | 0.1459404 | 0.27800337 | 2.3250699 | 21 | 1 2.8 | 20.8 |
| 277357 2005 $TQ_{121}$ | 18.0 | X | 79.00198 | 3.16146 | 311.75172 | 1.47933 | 0.2057704 | 0.25731629 | 2.4480740 | 21 | 12 27.8 | 21.8 |
| 277358 2005 $TB_{129}$ | 17.6 | X | 132.22544 | 97.24123 | 198.39334 | 1.54530 | 0.1756800 | 0.26124624 | 2.4234609 | 21 | — | — |
| 277359 2005 $TY_{139}$ | 17.4 | X | 359.73367 | 314.97782 | 163.51264 | 3.41481 | 0.0830095 | 0.26579758 | 2.3957162 | 21 | — | — |
| 277360 2005 $TY_{147}$ | 17.7 | X | 24.95511 | 318.94092 | 105.89022 | 3.21779 | 0.1050751 | 0.26135341 | 2.4227983 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277361 2005 $TA_{164}$ | 17.1 | X | 195.09025 | 250.82576 | 227.89148 | 4.96900 | 0.1363281 | 0.23466407 | 2.6031847 | 21 | 8 7.5 | 21.2 |
| 277362 2005 $TT_{166}$ | 17.3 | X | 311.23121 | 34.91161 | 317.70850 | 1.27404 | 0.2364690 | 0.23826389 | 2.5768980 | 21 | 6 29.7 | 19.9 |
| 277363 2005 $TJ_{167}$ | 17.5 | X | 293.56824 | 309.62104 | 225.72765 | 0.76063 | 0.1235094 | 0.26289195 | 2.4133364 | 21 | — | — |
| 277364 2005 $TZ_{167}$ | 16.3 | X | 298.76808 | 70.78996 | 29.51177 | 7.79424 | 0.1825684 | 0.18667177 | 3.0321472 | 21 | 11 9.1 | 19.9 |
| 277365 2005 $TQ_{172}$ | 17.2 | X | 198.85287 | 314.08637 | 14.12259 | 3.38819 | 0.2761533 | 0.27884862 | 2.3203690 | 21 | 2 4.3 | 21.3 |
| 277366 2005 $TQ_{175}$ | 17.3 | X | 282.57773 | 176.10894 | 137.17311 | 6.58687 | 0.1512466 | 0.29178427 | 2.2512728 | 21 | 4 5.6 | 20.4 |
| 277367 2005 $TE_{193}$ | 17.6 | X | 292.76494 | 171.06714 | 31.07364 | 7.36622 | 0.0606688 | 0.26980541 | 2.3719322 | 21 | — | — |
| 277368 2005 $TJ_{193}$ | 17.4 | X | 316.22772 | 150.24544 | 175.19471 | 7.41400 | 0.2036160 | 0.29736568 | 2.2230138 | 21 | 6 1.6 | 19.6 |
| 277369 2005 $UZ$ | 16.0 | X | 113.05884 | 185.48867 | 125.81642 | 3.00587 | 0.0764078 | 0.19703612 | 2.9248627 | 21 | — | — |
| 277370 2005 $US_{1}$ | 17.2 | X | 220.18064 | 186.49124 | 224.97982 | 1.32429 | 0.2238170 | 0.22872009 | 2.6480926 | 21 | 6 4.1 | 21.7 |
| 277371 2005 $UJ_{9}$ | 17.3 | X | 338.69892 | 151.78304 | 171.42808 | 6.14332 | 0.2465860 | 0.30298274 | 2.1954529 | 21 | 7 13.8 | 18.4 |
| 277372 2005 $UR_{15}$ | 17.0 | X | 308.36348 | 193.51480 | 54.96083 | 2.98271 | 0.0685767 | 0.27970762 | 2.3156159 | 21 | 2 21.5 | 19.8 |
| 277373 2005 $UD_{20}$ | 15.5 | X | 20.59117 | 296.05970 | 44.93989 | 4.93676 | 0.2333349 | 0.18321405 | 3.0701778 | 21 | 11 10.3 | 19.1 |
| 277374 2005 $US_{22}$ | 15.2 | X | 186.56305 | 136.69311 | 31.48237 | 17.16252 | 0.0436970 | 0.18045775 | 3.1013613 | 21 | 10 6.6 | 19.8 |
| 277375 2005 $UY_{26}$ | 16.5 | X | 16.75253 | 307.38582 | 12.59954 | 2.55863 | 0.1286746 | 0.24273219 | 2.5451759 | 21 | 10 2.1 | 19.3 |
| 277376 2005 $UT_{27}$ | 16.8 | X | 243.69719 | 295.56465 | 23.86133 | 5.87939 | 0.1885869 | 0.28396712 | 2.2924015 | 21 | 3 1.7 | 20.4 |
| 277377 2005 $UH_{29}$ | 16.7 | X | 200.81386 | 300.04755 | 46.58885 | 7.85537 | 0.1547508 | 0.27854246 | 2.3220689 | 21 | 2 27.6 | 20.4 |
| 277378 2005 $UG_{34}$ | 17.1 | X | 354.81341 | 244.09468 | 92.36538 | 0.66564 | 0.1610097 | 0.24097556 | 2.5575299 | 21 | 9 17.6 | 19.3 |
| 277379 2005 $UU_{40}$ | 17.1 | X | 158.76499 | 259.17317 | 67.87217 | 3.55497 | 0.1849656 | 0.26748670 | 2.3856199 | 21 | — | — |
| 277380 2005 $UG_{64}$ | 15.5 | X | 238.01173 | 11.98570 | 89.18660 | 10.24551 | 0.0364887 | 0.17470855 | 3.1690319 | 21 | 9 14.9 | 20.2 |
| 277381 2005 $UR_{67}$ | 16.6 | X | 279.87456 | 247.04331 | 73.39125 | 7.56208 | 0.2024698 | 0.29069380 | 2.2568994 | 21 | 4 6.8 | 19.8 |
| 277382 2005 $UL_{70}$ | 16.9 | X | 162.64637 | 96.15435 | 249.57809 | 6.89650 | 0.0705885 | 0.27286485 | 2.3541691 | 21 | 1 6.2 | 19.9 |
| 277383 2005 $UW_{79}$ | 16.5 | X | 158.23123 | 303.52316 | 65.34427 | 6.56036 | 0.2439168 | 0.27521426 | 2.3407522 | 21 | 2 21.8 | 20.2 |
| 277384 2005 $UZ_{96}$ | 17.4 | X | 246.54082 | 251.81439 | 164.96497 | 2.93750 | 0.0852362 | 0.23332305 | 2.6131497 | 21 | 7 20.5 | 21.0 |
| 277385 2005 $UO_{101}$ | 16.9 | X | 195.38335 | 294.12755 | 169.99528 | 4.52498 | 0.1873002 | 0.23020178 | 2.6367175 | 21 | 7 19.3 | 21.3 |
| 277386 2005 $UL_{103}$ | 16.3 | X | 344.96258 | 208.59915 | 183.75859 | 2.97391 | 0.1456587 | 0.18339600 | 3.0681468 | 21 | 11 5.8 | 19.7 |
| 277387 2005 $UP_{121}$ | 17.8 | X | 230.22837 | 337.11985 | 302.63969 | 0.84759 | 0.1677240 | 0.27358401 | 2.3500417 | 21 | — | — |
| 277388 2005 $UG_{123}$ | 17.3 | X | 277.27125 | 224.18330 | 35.62677 | 3.81436 | 0.1098944 | 0.27642367 | 2.3339196 | 21 | 1 24.2 | 20.6 |
| 277389 2005 $UX_{124}$ | 17.4 | X | 296.95915 | 137.49931 | 242.38503 | 2.78883 | 0.1918194 | 0.23740751 | 2.5830912 | 21 | 7 22.3 | 20.5 |
| 277390 2005 $UM_{125}$ | 17.3 | X | 249.41015 | 189.58738 | 2.52995 | 1.32891 | 0.1363713 | 0.25576804 | 2.4579433 | 21 | — | — |
| 277391 2005 $UU_{131}$ | 16.5 | X | 229.69156 | 198.10269 | 116.93046 | 8.43834 | 0.2533845 | 0.28065441 | 2.3104051 | 21 | 2 10.4 | 20.5 |
| 277392 2005 $UM_{141}$ | 16.1 | X | 74.09730 | 167.15728 | 51.66116 | 22.49842 | 0.0224026 | 0.23200121 | 2.6230660 | 21 | 7 27.7 | 20.1 |
| 277393 2005 $UE_{146}$ | 17.3 | X | 222.15670 | 310.43055 | 22.81947 | 5.05743 | 0.2511390 | 0.28257261 | 2.2999374 | 21 | 2 27.2 | 21.2 |
| 277394 2005 $UK_{151}$ | 15.8 | X | 18.16675 | 262.53562 | 36.55004 | 5.49091 | 0.1310283 | 0.17454748 | 3.1709811 | 21 | 8 30.9 | 19.7 |
| 277395 2005 $UL_{151}$ | 17.2 | X | 110.65936 | 318.22287 | 35.15569 | 5.78392 | 0.0663067 | 0.26222031 | 2.4174556 | 21 | — | — |
| 277396 2005 $UN_{152}$ | 16.8 | X | 161.61024 | 63.95804 | 232.13991 | 5.77974 | 0.0387815 | 0.26066063 | 2.4270893 | 21 | — | — |
| 277397 2005 $UN_{156}$ | 17.1 | X | 37.17133 | 280.19461 | 32.96449 | 2.33731 | 0.1398003 | 0.24605227 | 2.5222287 | 21 | 10 27.5 | 20.0 |
| 277398 2005 $UK_{162}$ | 16.7 | X | 205.18770 | 277.10397 | 93.58297 | 7.32667 | 0.1599502 | 0.28357450 | 2.2945169 | 21 | 4 2.7 | 20.3 |
| 277399 2005 $UB_{164}$ | 17.4 | X | 295.47697 | 123.46274 | 324.50223 | 1.85599 | 0.1530536 | 0.24680533 | 2.5170955 | 21 | 11 3.7 | 19.8 |
| 277400 2005 $UE_{164}$ | 17.3 | X | 288.64099 | 254.61348 | 4.42073 | 3.31375 | 0.1458265 | 0.27944500 | 2.3170664 | 21 | 1 31.2 | 20.5 |
| 277401 2005 $UV_{180}$ | 17.3 | X | 283.28376 | 231.67109 | 125.83866 | 2.29228 | 0.2409708 | 0.23228193 | 2.6209522 | 21 | 5 26.1 | 20.8 |
| 277402 2005 $UR_{181}$ | 16.8 | X | 173.68282 | 33.63348 | 72.85079 | 3.90955 | 0.0479949 | 0.22730691 | 2.6590568 | 21 | 7 2.2 | 20.6 |
| 277403 2005 $UF_{182}$ | 17.4 | X | 244.83137 | 190.05652 | 56.34926 | 1.93108 | 0.0723917 | 0.26528444 | 2.3988045 | 21 | — | — |
| 277404 2005 $UE_{184}$ | 17.5 | X | 240.82893 | 171.66711 | 56.71860 | 2.14257 | 0.1825839 | 0.26204940 | 2.4185065 | 21 | — | — |
| 277405 2005 $UL_{195}$ | 16.0 | X | 77.30624 | 284.60505 | 32.65538 | 9.15358 | 0.0648182 | 0.19163017 | 2.9796149 | 21 | 12 1.2 | 20.4 |
| 277406 2005 $UJ_{204}$ | 16.9 | X | 242.09361 | 251.50910 | 222.60932 | 10.51607 | 0.1525161 | 0.23962274 | 2.5671467 | 21 | 9 18.0 | 20.7 |
| 277407 2005 $UZ_{205}$ | 17.2 | X | 256.86508 | 147.61484 | 58.58984 | 6.29358 | 0.1555404 | 0.25925207 | 2.4358726 | 21 | — | — |
| 277408 2005 $UH_{212}$ | 16.9 | X | 24.54049 | 158.10655 | 176.91380 | 1.65124 | 0.1221191 | 0.24511101 | 2.5286817 | 21 | 11 5.0 | 19.7 |
| 277409 2005 $UR_{217}$ | 17.4 | X | 285.19948 | 272.58155 | 188.31333 | 4.81141 | 0.1385028 | 0.24581415 | 2.5238573 | 21 | 11 7.8 | 20.1 |
| 277410 2005 $UM_{222}$ | 17.8 | X | 0.31281 | 153.47819 | 315.03626 | 1.69815 | 0.0334316 | 0.26301879 | 2.4125604 | 21 | — | — |
| 277411 2005 $UR_{229}$ | 17.4 | X | 210.27017 | 253.05144 | 71.91236 | 2.80411 | 0.1570834 | 0.27728036 | 2.3291099 | 21 | 2 6.6 | 20.9 |
| 277412 2005 $UB_{230}$ | 15.9 | X | 44.89430 | 236.32385 | 51.90506 | 17.44766 | 0.2553012 | 0.18086320 | 3.0967245 | 21 | 10 19.7 | 20.1 |
| 277413 2005 $UP_{230}$ | 17.1 | X | 117.56889 | 294.24553 | 91.59455 | 4.25380 | 0.1682457 | 0.26930202 | 2.3748871 | 21 | 1 17.9 | 19.7 |
| 277414 2005 $UD_{231}$ | 17.6 | X | 233.22259 | 84.71358 | 43.34752 | 17.16898 | 0.2131053 | 0.23989659 | 2.5651927 | 21 | 9 30.4 | 21.7 |
| 277415 2005 $UY_{231}$ | 16.9 | X | 187.81881 | 282.02556 | 49.32161 | 6.97864 | 0.1285536 | 0.27369917 | 2.3493825 | 21 | 1 24.2 | 20.5 |
| 277416 2005 $UP_{233}$ | 17.6 | X | 270.64768 | 170.66155 | 149.11370 | 3.38946 | 0.2293000 | 0.28821721 | 2.2698097 | 21 | 3 21.9 | 21.0 |
| 277417 2005 $UL_{253}$ | 17.1 | X | 274.46168 | 47.49122 | 226.55495 | 3.78146 | 0.0989940 | 0.28067850 | 2.3102729 | 21 | 2 6.0 | 20.2 |
| 277418 2005 $UU_{256}$ | 17.7 | X | 79.51452 | 313.11386 | 12.43651 | 1.47463 | 0.1927968 | 0.26131908 | 2.4230105 | 21 | — | — |
| 277419 2005 $US_{259}$ | 17.7 | X | 311.84064 | 79.17010 | 52.19467 | 7.74491 | 0.0661674 | 0.25795694 | 2.4440190 | 21 | — | — |
| 277420 2005 $UG_{275}$ | 17.0 | X | 119.07370 | 280.12019 | 85.75791 | 3.29839 | 0.2316242 | 0.26850252 | 2.3795992 | 21 | 1 3.0 | 19.8 |
| 277421 2005 $UX_{288}$ | 16.9 | X | 240.51919 | 211.04835 | 20.44558 | 8.03568 | 0.1428504 | 0.26288876 | 2.4133559 | 21 | — | — |
| 277422 2005 $UT_{313}$ | 17.1 | X | 221.74773 | 215.76193 | 147.10322 | 7.66668 | 0.1441689 | 0.28573205 | 2.2829518 | 21 | 4 7.3 | 20.6 |
| 277423 2005 $UC_{314}$ | 17.2 | X | 355.84168 | 275.58216 | 49.38666 | 23.17777 | 0.2630307 | 0.30651102 | 2.1785724 | 21 | 10 11.1 | 18.8 |
| 277424 2005 $UO_{335}$ | 16.6 | X | 37.64093 | 151.24418 | 272.57002 | 5.24209 | 0.0924501 | 0.26084530 | 2.4259436 | 21 | — | — |
| 277425 2005 $UC_{354}$ | 16.3 | X | 309.32238 | 238.68008 | 259.92152 | 13.64214 | 0.0403728 | 0.25594774 | 2.4567927 | 21 | — | — |
| 277426 2005 $UF_{361}$ | 17.7 | X | 300.05029 | 225.10725 | 73.21185 | 1.25878 | 0.1357397 | 0.28928903 | 2.2641998 | 21 | 4 7.6 | 20.2 |
| 277427 2005 $UR_{363}$ | 18.0 | X | 235.35951 | 217.97077 | 82.73855 | 3.30444 | 0.2183780 | 0.27888998 | 2.3201395 | 21 | 1 28.9 | 21.8 |
| 277428 2005 $UL_{364}$ | 17.7 | X | 233.89560 | 97.36865 | 188.86816 | 5.34952 | 0.1171397 | 0.27364626 | 2.3496853 | 21 | 1 10.5 | 21.3 |
| 277429 2005 $UU_{365}$ | 17.3 | X | 266.13397 | 174.58720 | 138.45619 | 3.66869 | 0.2397974 | 0.28657979 | 2.2784474 | 21 | 3 8.6 | 20.7 |
| 277430 2005 $UZ_{368}$ | 16.1 | X | 5.81030 | 170.70249 | 172.88695 | 3.65852 | 0.1628066 | 0.18038998 | 3.1021380 | 21 | 10 9.8 | 19.6 |
| 277431 2005 $UF_{380}$ | 16.9 | X | 217.45094 | 90.42488 | 57.34550 | 14.00773 | 0.2324670 | 0.23920757 | 2.5701163 | 21 | 10 6.6 | 21.2 |
| 277432 2005 $UF_{381}$ | 17.7 | X | 265.83052 | 192.37343 | 112.72395 | 2.99622 | 0.2276655 | 0.28448105 | 2.2896398 | 21 | 2 27.7 | 21.2 |
| 277433 2005 $US_{382}$ | 17.3 | X | 267.50710 | 205.31076 | 124.21078 | 5.40920 | 0.2136229 | 0.29110591 | 2.2547689 | 21 | 4 3.4 | 20.7 |
| 277434 2005 $UQ_{387}$ | 17.2 | X | 224.07569 | 354.75432 | 273.04320 | 2.49473 | 0.1076116 | 0.26562933 | 2.3967277 | 21 | — | — |
| 277435 2005 $UB_{388}$ | 17.1 | X | 277.99898 | 79.18211 | 109.82563 | 2.97885 | 0.1626899 | 0.26221943 | 2.4174610 | 21 | — | — |
| 277436 2005 $UB_{427}$ | 17.2 | X | 307.85771 | 132.49161 | 57.38342 | 2.02200 | 0.1191775 | 0.26972919 | 2.3723791 | 21 | — | — |
| 277437 2005 $UG_{433}$ | 15.8 | X | 210.15672 | 81.41777 | 68.84061 | 2.78297 | 0.1333443 | 0.17700524 | 3.1415596 | 21 | 9 30.5 | 20.7 |
| 277438 2005 $UH_{433}$ | 17.4 | X | 160.65952 | 134.88731 | 217.00106 | 1.50821 | 0.2268472 | 0.27254749 | 2.3559962 | 21 | 1 29.3 | 20.9 |
| 277439 2005 $UR_{440}$ | 17.1 | X | 260.90874 | 86.36271 | 5.87050 | 8.03844 | 0.1622866 | 0.24111625 | 2.5565349 | 21 | 9 16.0 | 20.3 |
| 277440 2005 $UU_{441}$ | 17.0 | X | 276.95267 | 231.52201 | 67.74682 | 7.62193 | 0.1331242 | 0.28240528 | 2.3008457 | 21 | 3 15.9 | 20.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277441 2005 $UN_{443}$ | 16.2 | X | 58.21292 | 356.01387 | 343.91948 | 5.28538 | 0.1591938 | 0.19176617 | 2.9782059 | 21 | 12 20.3 | 20.6 |
| 277442 2005 $US_{454}$ | 17.1 | X | 81.21518 | 238.39695 | 161.04486 | 6.27555 | 0.1111283 | 0.26664667 | 2.3906276 | 21 | — | — |
| 277443 2005 $UF_{456}$ | 16.6 | X | 316.14468 | 0.90013 | 347.90783 | 9.78423 | 0.2165863 | 0.23821296 | 2.5772653 | 21 | 7 9.1 | 19.4 |
| 277444 2005 $UF_{460}$ | 17.2 | X | 204.42775 | 211.91218 | 269.33733 | 2.75612 | 0.1130611 | 0.23306697 | 2.6150635 | 21 | 8 22.5 | 21.2 |
| 277445 2005 $UD_{464}$ | 17.1 | X | 321.78374 | 101.04897 | 73.97474 | 6.95338 | 0.0782960 | 0.26750224 | 2.3855275 | 21 | — | — |
| 277446 2005 $UV_{476}$ | 17.1 | X | 271.81298 | 298.04655 | 69.34389 | 3.49806 | 0.1533365 | 0.23172157 | 2.6251759 | 21 | 6 6.3 | 20.5 |
| 277447 2005 $UY_{480}$ | 17.0 | X | 241.72507 | 161.38836 | 175.24180 | 22.73547 | 0.2224455 | 0.28726488 | 2.2748234 | 21 | 3 17.4 | 20.5 |
| 277448 2005 $UQ_{486}$ | 16.4 | X | 151.38387 | 96.12299 | 312.74465 | 12.16835 | 0.2059643 | 0.21828905 | 2.7317949 | 21 | 3 29.9 | 21.0 |
| 277449 2005 $UM_{492}$ | 16.7 | X | 1.42542 | 343.61752 | 357.58418 | 8.27949 | 0.1020356 | 0.24313802 | 2.5423430 | 21 | 10 1.8 | 19.5 |
| 277450 2005 $UH_{497}$ | 17.5 | X | 281.74403 | 223.14711 | 116.32603 | 6.30526 | 0.1759228 | 0.29428253 | 2.2385136 | 21 | 5 7.1 | 20.4 |
| 277451 2005 $UT_{504}$ | 16.6 | X | 190.23337 | 319.87843 | 130.08213 | 5.51047 | 0.0237223 | 0.21310303 | 2.7759372 | 21 | 6 30.6 | 20.5 |
| 277452 2005 $UW_{508}$ | 15.2 | X | 27.71445 | 256.49475 | 62.77596 | 22.37985 | 0.1610105 | 0.18131491 | 3.0915792 | 21 | 10 23.8 | 19.4 |
| 277453 2005 $UY_{508}$ | 17.0 | X | 189.25758 | 55.91192 | 59.05376 | 3.70953 | 0.0293314 | 0.23218381 | 2.6216905 | 21 | 8 3.6 | 20.7 |
| 277454 2005 $UT_{509}$ | 16.7 | X | 215.98696 | 146.39500 | 345.20871 | 4.67578 | 0.2026562 | 0.23765080 | 2.5813280 | 21 | 9 10.7 | 20.9 |
| 277455 2005 $UK_{512}$ | 17.3 | X | 216.61024 | 285.23654 | 232.44722 | 3.91184 | 0.1995449 | 0.24129154 | 2.5552966 | 21 | 10 13.7 | 21.1 |
| 277456 2005 $UQ_{512}$ | 16.7 | X | 292.53739 | 303.60549 | 43.62047 | 5.97132 | 0.2560321 | 0.23179174 | 2.6246461 | 21 | 5 20.5 | 20.2 |
| 277457 2005 $UC_{515}$ | 15.9 | X | 80.05617 | 121.81695 | 117.56395 | 11.04918 | 0.1983411 | 0.17686571 | 3.1432116 | 21 | 9 21.8 | 20.7 |
| 277458 2005 $UK_{518}$ | 16.0 | X | 329.71712 | 275.89235 | 124.98984 | 11.28377 | 0.0613741 | 0.18291357 | 3.0735392 | 21 | 10 27.9 | 20.2 |
| 277459 2005 $UU_{524}$ | 17.5 | X | 252.03465 | 227.35009 | 159.29744 | 5.98109 | 0.2235947 | 0.23010462 | 2.6374596 | 21 | 6 2.4 | 21.7 |
| 277460 2005 $UZ_{526}$ | 16.9 | X | 341.29069 | 250.81232 | 62.18073 | 2.31964 | 0.1023481 | 0.23110094 | 2.6298738 | 21 | 7 15.9 | 19.6 |
| 277461 2005 $VR_{6}$ | 16.5 | X | 351.95537 | 58.13543 | 279.20635 | 6.38544 | 0.1577045 | 0.23878177 | 2.5731707 | 21 | 9 7.7 | 19.1 |
| 277462 2005 $VR_{13}$ | 17.1 | X | 237.49817 | 232.34195 | 104.41325 | 6.23082 | 0.1390305 | 0.28407150 | 2.2918399 | 21 | 3 21.0 | 20.5 |
| 277463 2005 $VV_{17}$ | 17.1 | X | 301.76883 | 185.37527 | 179.49158 | 5.72367 | 0.2920872 | 0.23797498 | 2.5789832 | 21 | 6 21.3 | 20.3 |
| 277464 2005 $VO_{33}$ | 15.6 | X | 282.57028 | 136.45284 | 359.21545 | 9.40588 | 0.0749326 | 0.19120240 | 2.9840573 | 21 | 12 14.0 | 19.7 |
| 277465 2005 $VO_{38}$ | 17.1 | X | 120.80362 | 223.46324 | 138.27774 | 4.09645 | 0.1035121 | 0.26507623 | 2.4000605 | 21 | — | — |
| 277466 2005 $VQ_{50}$ | 17.1 | X | 53.19368 | 261.91733 | 153.71535 | 7.53400 | 0.1062375 | 0.26377305 | 2.4079591 | 21 | — | — |
| 277467 2005 $VV_{55}$ | 17.5 | X | 246.73854 | 126.01062 | 4.05477 | 3.77336 | 0.0920974 | 0.24582409 | 2.5237893 | 21 | 10 27.1 | 20.7 |
| 277468 2005 $VQ_{61}$ | 16.1 | X | 154.53388 | 32.98063 | 192.56950 | 5.77605 | 0.1021447 | 0.18513140 | 3.0489431 | 21 | 11 6.9 | 20.8 |
| 277469 2005 $VT_{87}$ | 15.7 | X | 14.84586 | 254.80660 | 70.95695 | 10.59251 | 0.1102193 | 0.17844995 | 3.1245808 | 21 | 10 1.5 | 19.7 |
| 277470 2005 $VO_{89}$ | 17.4 | X | 255.78539 | 171.39586 | 107.61473 | 5.71877 | 0.1623856 | 0.27534437 | 2.3400147 | 21 | 1 21.9 | 21.0 |
| 277471 2005 $VP_{99}$ | 16.1 | X | 266.44270 | 330.23686 | 104.70238 | 3.88032 | 0.0313586 | 0.17535389 | 3.1612520 | 21 | 9 14.8 | 20.5 |
| 277472 2005 $VN_{124}$ | 17.2 | X | 255.74105 | 57.69489 | 256.39158 | 5.63984 | 0.1558395 | 0.28255840 | 2.3000145 | 21 | 3 3.0 | 20.8 |
| 277473 2005 $WD_{1}$ | 16.9 | X | 336.60176 | 285.89646 | 52.30445 | 43.08380 | 0.4420305 | 0.30219437 | 2.1992696 | 21 | 5 31.1* | 18.5 |
| 277474 2005 $WE_{3}$ | 16.7 | X | 275.32112 | 198.09731 | 173.20836 | 8.28202 | 0.2254378 | 0.23298612 | 2.6156684 | 21 | 6 6.8 | 20.5 |
| 277475 2005 $WK_{4}$ | 20.0 | X | 359.14472 | 74.09152 | 138.12784 | 9.84362 | 0.2372947 | 0.97010009 | 1.0106288 | 21 | — | — |
| 277476 2005 $WF_{6}$ | 16.3 | X | 315.64984 | 26.08310 | 51.89752 | 5.81785 | 0.1742082 | 0.18369256 | 3.0648437 | 21 | 11 11.2 | 19.8 |
| 277477 2005 $WJ_{12}$ | 16.9 | X | 261.47078 | 209.55156 | 66.51979 | 6.84627 | 0.0922786 | 0.27392533 | 2.3480892 | 21 | 1 30.3 | 20.2 |
| 277478 2005 $WM_{15}$ | 17.3 | X | 241.69877 | 37.71520 | 257.86727 | 2.23490 | 0.1361741 | 0.27411446 | 2.3470090 | 21 | 1 29.5 | 20.8 |
| 277479 2005 $WQ_{32}$ | 17.7 | X | 191.87763 | 297.37545 | 21.15171 | 1.23669 | 0.1918775 | 0.26990941 | 2.3713229 | 21 | 1 14.9 | 21.5 |
| 277480 2005 $WC_{33}$ | 15.6 | X | 334.31050 | 309.35599 | 54.11938 | 11.39557 | 0.0683063 | 0.17510138 | 3.1642904 | 21 | 9 16.7 | 19.9 |
| 277481 2005 $WQ_{36}$ | 16.2 | X | 22.32667 | 218.66143 | 90.97074 | 4.93665 | 0.2573753 | 0.23963188 | 2.5670815 | 21 | 10 19.6 | 18.8 |
| 277482 2005 $WR_{37}$ | 16.9 | X | 247.28919 | 36.46308 | 89.36986 | 2.66596 | 0.1163728 | 0.24010909 | 2.5636790 | 21 | 10 19.9 | 20.3 |
| 277483 2005 $WC_{48}$ | 17.3 | X | 357.25992 | 255.24057 | 44.94110 | 2.21548 | 0.0709253 | 0.23072984 | 2.6326929 | 21 | 7 26.2 | 20.2 |
| 277484 2005 $WO_{51}$ | 17.3 | X | 233.22996 | 108.77123 | 40.99254 | 1.57748 | 0.0902887 | 0.24194468 | 2.5506958 | 21 | 11 5.2 | 20.6 |
| 277485 2005 $WB_{57}$ | 16.8 | X | 222.50747 | 243.82026 | 132.14175 | 4.56520 | 0.3545223 | 0.22589331 | 2.6701386 | 21 | 4 20.9 | 21.9 |
| 277486 2005 $WV_{61}$ | 16.8 | X | 84.78546 | 358.35934 | 277.09059 | 4.14236 | 0.1601454 | 0.24132775 | 2.5550410 | 21 | 11 7.2 | 20.6 |
| 277487 2005 $WM_{73}$ | 15.4 | X | 281.34672 | 359.94815 | 73.67205 | 18.90120 | 0.1825314 | 0.17412790 | 3.1760730 | 21 | 9 19.5 | 20.1 |
| 277488 2005 $WK_{74}$ | 16.5 | X | 164.08715 | 320.38751 | 111.49584 | 14.70794 | 0.1729840 | 0.21997157 | 2.7178470 | 21 | 5 17.6 | 21.1 |
| 277489 2005 $WR_{79}$ | 17.1 | X | 243.84040 | 358.55433 | 288.69545 | 1.91757 | 0.2136364 | 0.27125762 | 2.3634590 | 21 | 1 19.8 | 21.0 |
| 277490 2005 $WQ_{81}$ | 16.7 | X | 133.48145 | 310.98399 | 56.85078 | 7.73915 | 0.1067797 | 0.26658879 | 2.3909737 | 21 | 1 6.6 | 19.7 |
| 277491 2005 $WU_{84}$ | 16.0 | X | 47.23524 | 191.77857 | 60.81738 | 15.74207 | 0.1001638 | 0.23104967 | 2.6302628 | 21 | 8 18.9 | 19.6 |
| 277492 2005 $WB_{87}$ | 16.2 | X | 171.14975 | 207.52048 | 276.33235 | 10.15966 | 0.0202235 | 0.22481488 | 2.6786708 | 21 | 7 20.4 | 19.9 |
| 277493 2005 $WH_{94}$ | 17.6 | X | 212.28332 | 70.83074 | 240.80596 | 3.49216 | 0.2187252 | 0.27238609 | 2.3569268 | 21 | 1 22.9 | 21.6 |
| 277494 2005 $WK_{105}$ | 16.1 | X | 6.03494 | 204.83542 | 127.77621 | 12.90636 | 0.2685022 | 0.24236534 | 2.5477435 | 21 | 10 27.2 | 18.6 |
| 277495 2005 $WC_{110}$ | 16.5 | X | 34.30464 | 276.59403 | 85.39332 | 3.76617 | 0.0064909 | 0.24729698 | 2.5137583 | 21 | 12 7.8 | 19.7 |
| 277496 2005 $WD_{118}$ | 17.3 | X | 348.10770 | 56.21183 | 296.33044 | 3.26923 | 0.3315039 | 0.24394829 | 2.5367102 | 21 | 10 8.1 | 18.3 |
| 277497 2005 $WM_{118}$ | 16.1 | X | 266.53577 | 157.52601 | 317.10543 | 4.49354 | 0.1477251 | 0.24283753 | 2.5444398 | 21 | 10 23.2 | 19.2 |
| 277498 2005 $WT_{119}$ | 17.2 | X | 307.06363 | 353.83114 | 56.25045 | 3.71323 | 0.1198046 | 0.24031748 | 2.5621968 | 21 | 10 6.0 | 19.9 |
| 277499 2005 $WU_{121}$ | 16.9 | X | 271.21920 | 209.67805 | 241.49045 | 8.60446 | 0.1710706 | 0.23966840 | 2.5668207 | 21 | 9 21.9 | 20.4 |
| 277500 2005 $WP_{133}$ | 17.1 | X | 244.73325 | 145.35425 | 256.30074 | 5.03067 | 0.1403861 | 0.22845652 | 2.6501289 | 21 | 6 21.8 | 21.0 |
| 277501 2005 $WE_{134}$ | 17.2 | X | 191.77782 | 258.50455 | 88.72369 | 5.63576 | 0.1781619 | 0.27130567 | 2.3631800 | 21 | 2 19.9 | 20.9 |
| 277502 2005 $WZ_{134}$ | 16.0 | X | 274.64392 | 208.69404 | 97.36078 | 6.12882 | 0.0540945 | 0.21131458 | 2.7915778 | 21 | 4 8.8 | 19.9 |
| 277503 2005 $WP_{147}$ | 16.6 | X | 195.51542 | 293.34971 | 200.90357 | 12.22049 | 0.1175909 | 0.23373884 | 2.6100498 | 21 | 8 27.3 | 20.7 |
| 277504 2005 $WK_{151}$ | 16.9 | X | 185.99729 | 315.61710 | 351.21879 | 3.84221 | 0.1488183 | 0.26357275 | 2.4091789 | 21 | — | — |
| 277505 2005 $WG_{158}$ | 16.8 | X | 55.85740 | 41.71216 | 95.88645 | 13.64578 | 0.1321773 | 0.26789413 | 2.3832005 | 21 | 3 18.5 | 19.5 |
| 277506 2005 $WP_{163}$ | 15.9 | X | 6.77167 | 259.26501 | 52.15605 | 5.02585 | 0.0528684 | 0.16946841 | 3.2340263 | 21 | 8 23.4 | 20.3 |
| 277507 2005 $WQ_{164}$ | 17.5 | X | 11.17123 | 115.31133 | 225.77073 | 4.55629 | 0.1471577 | 0.24379879 | 2.5377472 | 21 | 10 24.8 | 20.0 |
| 277508 2005 $WN_{172}$ | 17.4 | X | 291.58164 | 69.01283 | 204.78545 | 2.25712 | 0.1925431 | 0.27930666 | 2.3178315 | 21 | 2 15.2 | 20.5 |
| 277509 2005 $WL_{176}$ | 17.4 | X | 247.12411 | 59.52924 | 58.32872 | 3.99989 | 0.0477114 | 0.23753439 | 2.5821713 | 21 | 10 19.1 | 20.8 |
| 277510 2005 $WU_{177}$ | 16.1 | X | 259.81056 | 266.28272 | 82.82532 | 7.10261 | 0.0483216 | 0.21787877 | 2.7352232 | 21 | 5 14.7 | 20.0 |
| 277511 2005 $WW_{178}$ | 15.8 | X | 129.31171 | 292.93640 | 126.68807 | 10.23192 | 0.1545139 | 0.21149264 | 2.7900107 | 21 | 3 27.6 | 20.1 |
| 277512 2005 $WQ_{179}$ | 16.4 | X | 241.57111 | 35.02084 | 353.30567 | 8.17195 | 0.0960176 | 0.22728211 | 2.6592503 | 21 | 6 4.1 | 20.5 |
| 277513 2005 $WT_{184}$ | 16.6 | X | 137.77044 | 30.59609 | 165.18149 | 8.00968 | 0.0218417 | 0.23674464 | 2.5879106 | 21 | 9 14.8 | 19.9 |
| 277514 2005 $WP_{185}$ | 15.7 | X | 286.36510 | 356.57970 | 83.74734 | 10.62020 | 0.1728606 | 0.17780397 | 3.1321442 | 21 | 10 1.9 | 19.9 |
| 277515 2005 $WB_{189}$ | 16.0 | X | 236.39146 | 2.99579 | 78.77243 | 22.81933 | 0.0312577 | 0.23250333 | 2.6192881 | 21 | 8 27.8 | 20.1 |
| 277516 2005 $WW_{193}$ | 16.0 | X | 256.07320 | 16.97237 | 86.57793 | 16.36440 | 0.2318010 | 0.23476805 | 2.6024160 | 21 | 9 22.2 | 20.0 |
| 277517 2005 $WC_{203}$ | 16.4 | X | 110.98478 | 248.84102 | 82.77875 | 15.30268 | 0.1592868 | 0.25392696 | 2.4698098 | 21 | — | — |
| 277518 2005 $WD_{208}$ | 17.5 | X | 261.38328 | 160.34576 | 311.37397 | 2.01694 | 0.0478378 | 0.24066786 | 2.5597093 | 21 | 10 28.4 | 20.8 |
| 277519 2005 $WA_{209}$ | 17.5 | X | 38.54089 | 350.74988 | 280.77988 | 1.71105 | 0.0422283 | 0.23085240 | 2.6317610 | 21 | 8 16.0 | 20.7 |
| 277520 2005 $WE_{209}$ | 17.2 | X | 141.01092 | 280.34482 | 37.02977 | 3.44202 | 0.1791972 | 0.26037757 | 2.4288480 | 21 | — | — |

* The additional opposition: 10 18.7, $V = 18.7$

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277521 2005 $XB_{13}$ | 16.1 | X | 19.99363 | 78.59807 | 115.99872 | 4.61082 | 0.0318390 | 0.21273173 | 2.7791663 | 21 | 4 7.6 | 19.7 |
| 277522 2005 $XD_{18}$ | 17.0 | X | 72.09877 | 261.70341 | 114.43855 | 3.40685 | 0.1793981 | 0.25585823 | 2.4573657 | 21 | — | — |
| 277523 2005 $XW_{19}$ | 17.3 | X | 255.84609 | 61.35846 | 46.70774 | 3.65023 | 0.1021053 | 0.23998580 | 2.5645570 | 21 | 10 9.6 | 20.6 |
| 277524 2005 $XY_{21}$ | 15.9 | X | 285.52305 | 176.27824 | 273.15781 | 4.15865 | 0.1365616 | 0.17969224 | 3.1101631 | 21 | 10 9.8 | 20.1 |
| 277525 2005 $XS_{37}$ | 17.4 | X | 142.11496 | 19.95057 | 332.02530 | 0.75313 | 0.1957655 | 0.26421838 | 2.4052526 | 21 | 1 9.1 | 20.6 |
| 277526 2005 $XU_{47}$ | 16.9 | X | 123.04703 | 135.41817 | 331.58383 | 2.73065 | 0.0454327 | 0.21520816 | 2.7578050 | 21 | 4 30.3 | 20.7 |
| 277527 2005 $XF_{52}$ | 16.8 | X | 183.51459 | 82.11887 | 75.75318 | 13.59642 | 0.1997320 | 0.23010698 | 2.6374416 | 21 | 9 21.9 | 21.5 |
| 277528 2005 $XG_{58}$ | 16.8 | X | 250.28657 | 211.73621 | 73.51419 | 13.33693 | 0.2194784 | 0.27372056 | 2.3492601 | 21 | 1 24.2 | 20.9 |
| 277529 2005 $XL_{66}$ | 16.7 | X | 304.64091 | 250.00165 | 104.00926 | 9.60085 | 0.3486981 | 0.29869079 | 2.2164341 | 21 | 5 30.2 | 19.2 |
| 277530 2005 $XM_{66}$ | 16.4 | X | 236.65520 | 293.13195 | 89.24489 | 27.39363 | 0.2995050 | 0.28946608 | 2.2632764 | 21 | 5 15.7 | 20.7 |
| 277531 2005 $XB_{75}$ | 16.4 | X | 326.82540 | 8.22553 | 33.00690 | 4.06893 | 0.1587788 | 0.24034763 | 2.5619825 | 21 | 10 26.5 | 18.6 |
| 277532 2005 $XX_{117}$ | 16.9 | X | 209.60060 | 332.48377 | 45.70848 | 4.98037 | 0.0846446 | 0.21560428 | 2.7544261 | 21 | 4 20.2 | 21.0 |
| 277533 2005 $YZ_{3}$ | 16.5 | X | 326.21571 | 20.16199 | 60.42175 | 12.52697 | 0.1173623 | 0.24577027 | 2.5241577 | 21 | 12 22.2 | 19.2 |
| 277534 2005 $YB_{6}$ | 17.5 | X | 216.27164 | 56.76289 | 91.22282 | 5.37223 | 0.1701769 | 0.23712289 | 2.5851579 | 21 | 10 7.5 | 21.5 |
| 277535 2005 $YD_{16}$ | 17.2 | X | 216.17535 | 174.20266 | 266.90029 | 0.88481 | 0.0572735 | 0.22318738 | 2.6916771 | 21 | 7 19.1 | 21.0 |
| 277536 2005 $YP_{23}$ | 16.8 | X | 264.02683 | 220.65777 | 108.02275 | 1.73212 | 0.0722166 | 0.21374921 | 2.7703398 | 21 | 4 19.8 | 20.6 |
| 277537 2005 $YP_{30}$ | 16.7 | X | 211.54812 | 352.45121 | 125.88602 | 5.36158 | 0.2781028 | 0.22799657 | 2.6536920 | 21 | 8 16.6 | 21.2 |
| 277538 2005 $YB_{32}$ | 17.0 | X | 176.33015 | 81.34591 | 318.25041 | 3.21817 | 0.1981436 | 0.21212925 | 2.7844260 | 21 | 4 13.9 | 21.8 |
| 277539 2005 $YE_{34}$ | 16.0 | X | 285.40798 | 80.39421 | 113.77049 | 6.20127 | 0.0394441 | 0.19087049 | 2.9875157 | 21 | — | — |
| 277540 2005 $YZ_{46}$ | 16.5 | X | 209.66762 | 31.47052 | 106.99582 | 13.47355 | 0.1725378 | 0.23055990 | 2.6339864 | 21 | 9 21.5 | 20.9 |
| 277541 2005 $YK_{56}$ | 16.6 | X | 338.14660 | 326.07699 | 71.58661 | 7.73659 | 0.2707666 | 0.24182273 | 2.5515533 | 21 | 11 22.1 | 18.0 |
| 277542 2005 $YG_{72}$ | 16.3 | X | 188.12355 | 242.14078 | 324.38835 | 3.64014 | 0.0988042 | 0.24181811 | 2.5515857 | 21 | 11 23.6 | 20.0 |
| 277543 2005 $YA_{74}$ | 17.4 | X | 218.56437 | 78.84082 | 299.73399 | 5.53039 | 0.2013882 | 0.21874595 | 2.7279895 | 21 | 4 22.0 | 22.1 |
| 277544 2005 $YG_{76}$ | 16.9 | X | 328.40917 | 334.70052 | 88.25037 | 8.20666 | 0.1384325 | 0.24325452 | 2.5415311 | 21 | 12 2.5 | 19.3 |
| 277545 2005 $YL_{82}$ | 16.2 | X | 123.95101 | 143.71239 | 112.42266 | 11.54045 | 0.1160683 | 0.23659149 | 2.5890273 | 21 | 11 22.9 | 20.3 |
| 277546 2005 $YN_{85}$ | 17.3 | X | 153.81679 | 219.07004 | 101.35410 | 7.89073 | 0.1657332 | 0.25719125 | 2.4488673 | 21 | — | — |
| 277547 2005 $YL_{86}$ | 17.2 | X | 141.83905 | 164.91661 | 289.43001 | 1.91268 | 0.0400291 | 0.21388162 | 2.7691963 | 21 | 5 7.2 | 21.0 |
| 277548 2005 $YH_{92}$ | 17.2 | X | 228.08850 | 289.48206 | 200.64067 | 0.58530 | 0.0738220 | 0.23375478 | 2.6099312 | 21 | 10 5.4 | 20.7 |
| 277549 2005 $YX_{103}$ | 17.0 | X | 280.42252 | 204.25513 | 111.26742 | 1.87179 | 0.0575866 | 0.21502599 | 2.7593624 | 21 | 4 25.1 | 20.8 |
| 277550 2005 $YE_{104}$ | 17.0 | X | 72.69054 | 38.95597 | 104.14148 | 5.42213 | 0.0517154 | 0.21018081 | 2.8016079 | 21 | 4 16.3 | 20.7 |
| 277551 2005 $YV_{106}$ | 17.0 | X | 160.74161 | 77.80067 | 97.51256 | 3.25537 | 0.1298734 | 0.22889888 | 2.6467136 | 21 | 9 18.0 | 21.1 |
| 277552 2005 $YK_{107}$ | 16.9 | X | 287.79768 | 202.36036 | 103.13224 | 1.90531 | 0.0497618 | 0.21418410 | 2.7665885 | 21 | 4 22.8 | 20.6 |
| 277553 2005 $YY_{108}$ | 17.0 | X | 112.32897 | 336.42717 | 273.15638 | 3.76729 | 0.0289677 | 0.23507295 | 2.6001652 | 21 | 10 21.9 | 20.7 |
| 277554 2005 $YG_{109}$ | 16.9 | X | 11.37299 | 319.74332 | 271.58568 | 3.38382 | 0.0668948 | 0.21297484 | 2.7770510 | 21 | 5 11.2 | 20.3 |
| 277555 2005 $YD_{115}$ | 16.2 | X | 165.01460 | 138.33971 | 99.89829 | 9.60282 | 0.0800052 | 0.24006194 | 2.5640147 | 21 | 12 10.8 | 20.0 |
| 277556 2005 $YF_{115}$ | 17.0 | X | 126.61063 | 254.89696 | 347.86332 | 3.91492 | 0.2047630 | 0.23165207 | 2.6257009 | 21 | 11 7.7 | 21.4 |
| 277557 2005 $YP_{124}$ | 15.9 | X | 114.16312 | 133.60551 | 324.15851 | 7.08788 | 0.0691753 | 0.20981004 | 2.8049075 | 21 | 4 8.7 | 19.9 |
| 277558 2005 $YY_{125}$ | 16.9 | X | 144.47191 | 40.60132 | 84.99850 | 8.72090 | 0.1598397 | 0.21862481 | 2.7289972 | 21 | 6 30.2 | 21.2 |
| 277559 2005 $YA_{126}$ | 17.5 | X | 224.71029 | 149.94180 | 338.88713 | 3.82882 | 0.0929559 | 0.23355844 | 2.6113936 | 21 | 9 26.3 | 21.1 |
| 277560 2005 $YT_{126}$ | 17.1 | X | 332.88380 | 334.29475 | 318.89486 | 4.11295 | 0.0268784 | 0.21893970 | 2.7263799 | 21 | 6 9.4 | 20.6 |
| 277561 2005 $YX_{127}$ | 17.0 | X | 355.92662 | 306.19205 | 60.01580 | 3.19396 | 0.1111867 | 0.23827789 | 2.5767971 | 21 | 10 29.8 | 19.8 |
| 277562 2005 $YX_{132}$ | 16.6 | X | 163.90294 | 127.25405 | 72.36035 | 6.49458 | 0.0738051 | 0.23554504 | 2.5966898 | 21 | 10 23.6 | 20.4 |
| 277563 2005 $YK_{134}$ | 16.5 | X | 168.33135 | 178.19106 | 45.45880 | 5.75152 | 0.0977020 | 0.23912785 | 2.5706874 | 21 | 11 24.1 | 20.2 |
| 277564 2005 $YL_{140}$ | 16.4 | X | 111.73365 | 15.03083 | 88.64969 | 5.03418 | 0.0633825 | 0.20980226 | 2.8049768 | 21 | 4 18.1 | 20.2 |
| 277565 2005 $YT_{146}$ | 16.8 | X | 220.99889 | 22.49975 | 339.91247 | 4.47420 | 0.1725268 | 0.21474887 | 2.7617358 | 21 | 4 6.8 | 21.3 |
| 277566 2005 $YZ_{153}$ | 16.8 | X | 122.47812 | 220.41910 | 73.08337 | 4.66505 | 0.1103745 | 0.24542034 | 2.5265565 | 21 | — | — |
| 277567 2005 $YF_{172}$ | 16.1 | X | 269.72469 | 47.50675 | 58.12097 | 15.21177 | 0.0723230 | 0.23625003 | 2.5915214 | 21 | 11 1.0 | 19.5 |
| 277568 2005 $YR_{172}$ | 16.3 | X | 296.28537 | 27.06407 | 68.86781 | 15.83989 | 0.1738158 | 0.24139098 | 2.5545948 | 21 | 11 16.3 | 18.8 |
| 277569 2005 $YW_{175}$ | 16.5 | X | 285.38963 | 16.36480 | 300.30157 | 5.27303 | 0.0578167 | 0.21386139 | 2.7693709 | 21 | 4 30.1 | 20.3 |
| 277570 2005 $YP_{180}$ | 19.2 | X | 260.95620 | 92.38811 | 288.95265 | 4.11137 | 0.6170169 | 0.61331695 | 1.3719746 | 21 | 4 20.7 | 21.7 |
| 277571 2005 $YQ_{184}$ | 16.9 | X | 262.66404 | 184.56122 | 229.80664 | 1.23965 | 0.0694321 | 0.22831684 | 2.6512097 | 21 | 8 9.5 | 20.4 |
| 277572 2005 $YR_{186}$ | 17.9 | X | 100.62221 | 254.84653 | 102.54656 | 15.55984 | 0.1677791 | 0.44507313 | 1.6989547 | 21 | — | — |
| 277573 2005 $YG_{191}$ | 16.4 | X | 109.07354 | 153.84968 | 114.40608 | 13.66161 | 0.2515987 | 0.23232116 | 2.6206571 | 21 | 11 30.1 | 21.1 |
| 277574 2005 $YR_{192}$ | 16.9 | X | 234.17636 | 37.35852 | 104.10166 | 3.54661 | 0.0649569 | 0.23520595 | 2.5991849 | 21 | 10 30.8 | 20.4 |
| 277575 2005 $YH_{200}$ | 16.9 | X | 144.45489 | 51.03333 | 107.62937 | 13.91301 | 0.1979306 | 0.22151984 | 2.7051683 | 21 | 8 15.2 | 21.5 |
| 277576 2005 $YA_{202}$ | 16.9 | X | 182.77841 | 240.47160 | 171.42300 | 2.19446 | 0.0773327 | 0.21346461 | 2.7728016 | 21 | 5 3.9 | 21.1 |
| 277577 2005 $YQ_{203}$ | 16.9 | X | 39.55692 | 249.93891 | 301.09425 | 2.49482 | 0.0287816 | 0.21050191 | 2.7987581 | 21 | 4 26.9 | 20.5 |
| 277578 2005 $YB_{212}$ | 16.4 | X | 263.00446 | 26.56688 | 76.21182 | 13.20881 | 0.1457559 | 0.23512323 | 2.5997945 | 21 | 10 11.2 | 20.0 |
| 277579 2005 $YE_{214}$ | 16.3 | X | 291.80263 | 25.32259 | 55.63454 | 14.17305 | 0.1255590 | 0.23953665 | 2.5677618 | 21 | 10 25.6 | 19.2 |
| 277580 2005 $YQ_{216}$ | 17.1 | X | 262.16468 | 8.45556 | 334.36273 | 2.77430 | 0.1899316 | 0.21881480 | 2.7274173 | 21 | 4 19.8 | 21.3 |
| 277581 2005 $YK_{236}$ | 16.9 | X | 117.88562 | 127.86952 | 332.79831 | 4.35590 | 0.1254785 | 0.20999545 | 2.8032562 | 21 | 4 26.1 | 20.9 |
| 277582 2005 $YS_{237}$ | 17.1 | X | 96.75061 | 313.29578 | 266.79647 | 2.64925 | 0.1596978 | 0.22238603 | 2.6981394 | 21 | 9 8.8 | 21.1 |
| 277583 2005 $YZ_{268}$ | 15.9 | X | 161.09992 | 80.12229 | 311.83729 | 10.40832 | 0.1292929 | 0.20338956 | 2.8636303 | 21 | 3 16.1 | 20.6 |
| 277584 2005 $YM_{279}$ | 16.0 | X | 294.01156 | 198.30087 | 105.49867 | 6.98524 | 0.1148206 | 0.21416006 | 2.7667955 | 21 | 4 21.5 | 19.8 |
| 277585 2005 $YN_{281}$ | 17.2 | X | 140.34287 | 248.80019 | 93.70162 | 3.66317 | 0.1998043 | 0.25870263 | 2.4393203 | 21 | — | — |
| 277586 2006 $AC_{7}$ | 16.3 | X | 161.52326 | 71.35081 | 81.64587 | 13.40555 | 0.1739842 | 0.22359978 | 2.6883665 | 21 | 8 25.5 | 20.9 |
| 277587 2006 $AV_{7}$ | 16.7 | X | 187.41858 | 34.38479 | 91.90638 | 14.79147 | 0.2469610 | 0.22382045 | 2.6865991 | 21 | 8 11.3 | 21.6 |
| 277588 2006 $AV_{8}$ | 17.0 | X | 302.96239 | 106.29185 | 197.78379 | 2.09323 | 0.0862914 | 0.21465109 | 2.7625744 | 21 | 5 5.2 | 20.7 |
| 277589 2006 $AX_{9}$ | 16.0 | X | 209.45248 | 299.47598 | 251.86084 | 6.93590 | 0.0988125 | 0.24006845 | 2.5639683 | 21 | 11 28.6 | 19.6 |
| 277590 2006 $AS_{10}$ | 16.2 | X | 206.90722 | 61.98852 | 82.91023 | 4.98645 | 0.1116472 | 0.23013575 | 2.6372218 | 21 | 9 28.4 | 20.1 |
| 277591 2006 $AO_{12}$ | 16.8 | X | 238.16546 | 200.85477 | 157.01054 | 2.78682 | 0.0581319 | 0.21454801 | 2.7634592 | 21 | 4 28.3 | 20.7 |
| 277592 2006 $AT_{12}$ | 16.1 | X | 308.94333 | 140.63901 | 276.72011 | 8.22986 | 0.1701284 | 0.17703226 | 3.1412399 | 21 | 9 27.1 | 20.0 |
| 277593 2006 $AM_{17}$ | 17.2 | X | 272.77023 | 258.42356 | 165.75207 | 0.81422 | 0.0979108 | 0.23161279 | 2.6259978 | 21 | 9 2.1 | 20.6 |
| 277594 2006 $AZ_{20}$ | 16.8 | X | 247.41411 | 15.38980 | 86.98809 | 15.31273 | 0.2026286 | 0.23170711 | 2.6252851 | 21 | 9 13.1 | 20.9 |
| 277595 2006 $AQ_{21}$ | 16.3 | X | 185.42296 | 121.62570 | 97.89604 | 15.71494 | 0.0621282 | 0.23925459 | 2.5697795 | 21 | 12 11.7 | 20.1 |
| 277596 2006 $AF_{27}$ | 17.5 | X | 140.72539 | 28.00712 | 126.75111 | 2.62306 | 0.1728982 | 0.21938048 | 2.7227268 | 21 | 8 3.5 | 22.0 |
| 277597 2006 $AL_{34}$ | 16.3 | X | 289.88479 | 31.15883 | 62.29000 | 14.33982 | 0.1362431 | 0.23780637 | 2.5802021 | 21 | 11 5.9 | 19.2 |
| 277598 2006 $AS_{34}$ | 16.8 | X | 289.74453 | 327.26343 | 87.08580 | 3.13978 | 0.0590941 | 0.23254180 | 2.6189992 | 21 | 9 21.1 | 20.1 |
| 277599 2006 $AZ_{36}$ | 16.8 | X | 275.34614 | 61.30380 | 334.13396 | 2.42919 | 0.1116586 | 0.22625412 | 2.6672991 | 21 | 7 26.1 | 20.1 |
| 277600 2006 $AG_{39}$ | 16.4 | X | 278.10776 | 25.59858 | 301.08946 | 10.94363 | 0.0861061 | 0.21415920 | 2.7668029 | 21 | 4 27.1 | 20.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277601 2006 $AA_{46}$ | 16.9 | X | 181.61158 | 351.82534 | 121.72837 | 9.60446 | 0.2299515 | 0.22305161 | 2.6927692 | 21 | 7 19.3 | 21.5 |
| 277602 2006 $AN_{48}$ | 16.4 | X | 35.21701 | 189.00472 | 158.34890 | 10.27081 | 0.0524577 | 0.23389429 | 2.6088932 | 21 | 11 26.3 | 20.0 |
| 277603 2006 $AF_{63}$ | 16.9 | X | 260.95618 | 350.82968 | 333.59028 | 4.54410 | 0.0722740 | 0.21165475 | 2.7885859 | 21 | 4 8.2 | 20.9 |
| 277604 2006 $AD_{66}$ | 16.6 | X | 164.48625 | 291.89178 | 171.34032 | 8.38844 | 0.1328210 | 0.21198914 | 2.7856527 | 21 | 6 20.4 | 21.1 |
| 277605 2006 $AN_{67}$ | 16.6 | X | 314.97951 | 269.41050 | 130.63562 | 14.42823 | 0.1283558 | 0.23524288 | 2.5989129 | 21 | 10 8.9 | 19.7 |
| 277606 2006 $AE_{68}$ | 16.8 | X | 217.71902 | 312.32250 | 145.14506 | 2.56421 | 0.0177673 | 0.22422663 | 2.6833537 | 21 | 8 16.0 | 20.3 |
| 277607 2006 $AJ_{68}$ | 16.0 | X | 159.50604 | 75.95344 | 125.12250 | 14.82269 | 0.0719847 | 0.23120220 | 2.6291058 | 21 | 10 24.4 | 20.2 |
| 277608 2006 $AD_{74}$ | 16.5 | X | 156.54819 | 304.39761 | 165.66204 | 15.47840 | 0.1717514 | 0.21737193 | 2.7394733 | 21 | 6 23.1 | 21.3 |
| 277609 2006 $AS_{76}$ | 15.9 | X | 280.31313 | 298.21114 | 128.05497 | 15.76757 | 0.0892847 | 0.23044236 | 2.6348820 | 21 | 9 22.5 | 19.4 |
| 277610 2006 $AZ_{81}$ | 16.7 | X | 256.61640 | 72.05250 | 330.29860 | 5.95026 | 0.0436524 | 0.22462139 | 2.6802089 | 21 | 7 21.4 | 20.3 |
| 277611 2006 $AK_{85}$ | 16.4 | X | 311.82839 | 34.87356 | 2.51511 | 13.63099 | 0.2432489 | 0.23572807 | 2.5953455 | 21 | 9 10.5 | 18.7 |
| 277612 2006 $AO_{100}$ | 16.8 | X | 206.28543 | 105.03042 | 280.28691 | 4.22771 | 0.1425184 | 0.21356416 | 2.7719398 | 21 | 4 22.1 | 21.3 |
| 277613 2006 $AC_{101}$ | 16.5 | X | 214.93952 | 275.27410 | 134.05911 | 7.21459 | 0.0491546 | 0.21466423 | 2.7624616 | 21 | 6 7.4 | 20.5 |
| 277614 2006 $BY_{1}$ | 16.8 | X | 201.95927 | 328.63158 | 135.48882 | 3.04670 | 0.0957282 | 0.22295106 | 2.6935789 | 21 | 7 30.3 | 20.8 |
| 277615 2006 $BM_{2}$ | 16.0 | X | 193.34400 | 354.61596 | 137.17142 | 12.59889 | 0.1297007 | 0.22538362 | 2.6741627 | 21 | 8 25.4 | 20.1 |
| 277616 2006 $BN_{6}$ | 17.4 | X | 258.70982 | 338.30892 | 249.72343 | 18.63720 | 0.6982845 | 0.23988944 | 2.5652437 | 21 | 12 17.8 | 21.5 |
| 277617 2006 $BT_{7}$ | 18.3 | X | 319.06161 | 342.54012 | 298.59721 | 16.16087 | 0.6330487 | 0.52495632 | 1.5219040 | 21 | 1 16.7 | 20.9 |
| 277618 2006 $BT_{8}$ | 16.5 | X | 67.13726 | 129.63212 | 331.94206 | 7.69943 | 0.1785120 | 0.20663441 | 2.8335722 | 21 | 2 26.2 | 19.5 |
| 277619 2006 $BS_{9}$ | 16.3 | X | 154.12883 | 179.99170 | 60.89470 | 3.92754 | 0.0722878 | 0.23602308 | 2.5931824 | 21 | 12 1.2 | 20.2 |
| 277620 2006 $BL_{11}$ | 15.8 | X | 123.53010 | 195.55087 | 327.77750 | 13.38832 | 0.2019496 | 0.21521181 | 2.7577738 | 21 | 8 2.2 | 20.3 |
| 277621 2006 $BZ_{23}$ | 15.7 | X | 142.55712 | 176.25415 | 319.22610 | 11.29003 | 0.1028200 | 0.21562260 | 2.7542701 | 21 | 7 8.8 | 19.9 |
| 277622 2006 $BE_{24}$ | 16.7 | X | 235.71579 | 342.05086 | 111.48859 | 3.67855 | 0.1689509 | 0.22810384 | 2.6528599 | 21 | 8 16.6 | 20.6 |
| 277623 2006 $BW_{30}$ | 15.8 | X | 353.85333 | 152.66090 | 338.45491 | 6.11381 | 0.1388786 | 0.18991522 | 2.9975254 | 21 | — | — |
| 277624 2006 $BY_{30}$ | 16.6 | X | 239.06908 | 343.14742 | 104.59396 | 3.34918 | 0.1418439 | 0.22699690 | 2.6614773 | 21 | 8 15.8 | 20.4 |
| 277625 2006 $BX_{33}$ | 16.4 | X | 137.75164 | 12.82261 | 149.94713 | 6.42333 | 0.0410287 | 0.21718317 | 2.7410604 | 21 | 7 31.8 | 20.3 |
| 277626 2006 $BZ_{37}$ | 16.8 | X | 239.06994 | 64.50130 | 349.11509 | 5.69726 | 0.0414065 | 0.21820346 | 2.7325091 | 21 | 7 14.0 | 20.7 |
| 277627 2006 $BF_{40}$ | 16.5 | X | 210.90147 | 327.11211 | 138.58501 | 3.10228 | 0.0490730 | 0.22202514 | 2.7010624 | 21 | 8 15.3 | 20.1 |
| 277628 2006 $BU_{40}$ | 16.1 | X | 53.03529 | 14.20748 | 318.26274 | 6.24691 | 0.1351751 | 0.23536653 | 2.5980026 | 21 | 12 9.7 | 19.7 |
| 277629 2006 $BZ_{42}$ | 16.4 | X | 320.40845 | 295.99821 | 107.67487 | 5.00399 | 0.2348676 | 0.23753273 | 2.5821834 | 21 | 10 13.3 | 18.4 |
| 277630 2006 $BA_{56}$ | 16.8 | X | 188.86049 | 346.97926 | 157.28878 | 2.22942 | 0.0139574 | 0.22480565 | 2.6787441 | 21 | 9 10.7 | 20.5 |
| 277631 2006 $BU_{63}$ | 17.4 | X | 220.31552 | 174.52298 | 287.91909 | 2.48083 | 0.1426955 | 0.22658661 | 2.6646891 | 21 | 8 12.9 | 21.6 |
| 277632 2006 $BQ_{69}$ | 16.6 | X | 164.97160 | 153.81956 | 11.12985 | 4.44841 | 0.0877382 | 0.22499983 | 2.6772027 | 21 | 9 8.3 | 20.6 |
| 277633 2006 $BG_{72}$ | 16.0 | X | 3.32945 | 120.35297 | 30.73995 | 4.28206 | 0.0495638 | 0.19437196 | 2.9515285 | 21 | 1 20.4 | 19.9 |
| 277634 2006 $BN_{76}$ | 17.1 | X | 78.37580 | 38.26347 | 35.96189 | 2.21042 | 0.0943316 | 0.19670021 | 2.9281917 | 21 | 1 31.5 | 20.8 |
| 277635 2006 $BH_{82}$ | 16.1 | X | 22.47423 | 161.33398 | 142.52563 | 12.77298 | 0.1664541 | 0.21967624 | 2.7202824 | 21 | 9 24.5 | 19.2 |
| 277636 2006 $BK_{89}$ | 16.7 | X | 240.82322 | 325.45433 | 111.29365 | 3.31282 | 0.0637341 | 0.22474619 | 2.6792166 | 21 | 8 12.9 | 20.5 |
| 277637 2006 $BV_{95}$ | 16.2 | X | 86.58932 | 187.82045 | 158.58730 | 17.67314 | 0.2233039 | 0.24179539 | 2.5517456 | 21 | — | — |
| 277638 2006 $BD_{101}$ | 16.0 | X | 125.41827 | 313.15466 | 257.91382 | 11.95728 | 0.1393107 | 0.22432718 | 2.6825518 | 21 | 9 20.6 | 20.5 |
| 277639 2006 $BU_{103}$ | 16.2 | X | 305.22739 | 231.76973 | 148.79788 | 6.62152 | 0.0490426 | 0.22358929 | 2.6884506 | 21 | 8 27.2 | 19.5 |
| 277640 2006 $BW_{108}$ | 16.8 | X | 68.66713 | 214.00534 | 108.35038 | 3.95466 | 0.0541364 | 0.23735590 | 2.5834657 | 21 | 12 6.0 | 20.2 |
| 277641 2006 $BR_{109}$ | 15.5 | X | 166.29458 | 308.32066 | 333.05111 | 8.86287 | 0.0389968 | 0.18248883 | 3.0783065 | 21 | — | — |
| 277642 2006 $BU_{109}$ | 17.1 | X | 169.56417 | 106.71958 | 95.53428 | 3.83739 | 0.0495352 | 0.23269096 | 2.6178798 | 21 | 11 1.7 | 20.9 |
| 277643 2006 $BO_{112}$ | 16.7 | X | 99.45978 | 221.37420 | 332.73821 | 6.90845 | 0.1476895 | 0.21659567 | 2.7460148 | 21 | 8 9.9 | 20.7 |
| 277644 2006 $BQ_{112}$ | 16.7 | X | 85.12051 | 160.65036 | 100.57678 | 3.09677 | 0.0427828 | 0.22778414 | 2.6553416 | 21 | 10 7.1 | 20.2 |
| 277645 2006 $BW_{112}$ | 16.9 | X | 56.20083 | 207.33050 | 90.41790 | 2.96099 | 0.0435915 | 0.22959750 | 2.6413418 | 21 | 10 17.5 | 20.3 |
| 277646 2006 $BA_{118}$ | 16.8 | X | 38.28899 | 342.94261 | 345.92948 | 4.04870 | 0.2303246 | 0.23591362 | 2.5939845 | 21 | 11 30.4 | 20.2 |
| 277647 2006 $BM_{118}$ | 16.1 | X | 242.06718 | 290.52312 | 321.02975 | 9.54648 | 0.0591792 | 0.18738776 | 3.0244186 | 21 | — | — |
| 277648 2006 $BP_{123}$ | 16.5 | X | 76.08867 | 215.04965 | 97.99274 | 0.43964 | 0.0914515 | 0.23342079 | 2.6124201 | 21 | 12 6.7 | 20.1 |
| 277649 2006 $BT_{128}$ | 17.0 | X | 102.45229 | 271.19794 | 12.86952 | 0.53502 | 0.1137503 | 0.23307319 | 2.6150169 | 21 | 12 1.6 | 21.0 |
| 277650 2006 $BJ_{130}$ | 16.8 | X | 146.71355 | 336.12252 | 169.96061 | 3.55340 | 0.1340303 | 0.21654986 | 2.7464020 | 21 | 7 26.3 | 21.0 |
| 277651 2006 $BW_{130}$ | 16.2 | X | 327.41472 | 181.24228 | 155.50738 | 7.72221 | 0.0602372 | 0.21778264 | 2.7360281 | 21 | 7 28.2 | 19.6 |
| 277652 2006 $BX_{131}$ | 16.4 | X | 62.48800 | 141.36488 | 158.47357 | 11.50412 | 0.2035319 | 0.22498288 | 2.6773372 | 21 | 11 20.6 | 20.5 |
| 277653 2006 $BQ_{135}$ | 15.6 | X | 225.11390 | 285.95206 | 144.34484 | 14.27536 | 0.0659008 | 0.21874444 | 2.7280021 | 21 | 7 14.3 | 19.7 |
| 277654 2006 $BB_{140}$ | 15.9 | X | 233.95236 | 348.51187 | 138.00754 | 12.62259 | 0.1245223 | 0.22917943 | 2.6445531 | 21 | 10 5.3 | 19.8 |
| 277655 2006 $BP_{141}$ | 15.7 | X | 88.66562 | 93.73531 | 326.73238 | 7.92192 | 0.0443133 | 0.19451682 | 2.9500629 | 21 | 1 22.9 | 19.7 |
| 277656 2006 $BV_{141}$ | 16.8 | X | 154.27739 | 56.20907 | 74.22951 | 0.76839 | 0.0131810 | 0.21447955 | 2.7640472 | 21 | 7 8.3 | 20.5 |
| 277657 2006 $BM_{150}$ | 17.0 | X | 254.34726 | 353.17822 | 77.74479 | 4.88399 | 0.2085730 | 0.22981641 | 2.6396643 | 21 | 8 3.3 | 21.0 |
| 277658 2006 $BD_{165}$ | 16.6 | X | 90.75189 | 280.81084 | 335.20437 | 2.95290 | 0.1731311 | 0.22254853 | 2.6968258 | 21 | 10 19.3 | 20.7 |
| 277659 2006 $BP_{169}$ | 17.3 | X | 218.71472 | 323.52990 | 145.68598 | 2.99358 | 0.0529666 | 0.22319472 | 2.6916181 | 21 | 8 29.4 | 21.0 |
| 277660 2006 $BP_{178}$ | 16.6 | X | 186.38358 | 212.66893 | 121.53865 | 3.11869 | 0.0901500 | 0.19673857 | 2.9278111 | 21 | 2 3.6 | 21.1 |
| 277661 2006 $BW_{186}$ | 16.1 | X | 143.68898 | 28.29185 | 136.19153 | 13.90248 | 0.1870521 | 0.21806842 | 2.7336371 | 21 | 8 19.6 | 20.6 |
| 277662 2006 $BD_{193}$ | 16.4 | X | 68.72892 | 74.22753 | 152.17972 | 9.47390 | 0.1551496 | 0.21518511 | 2.7580020 | 21 | 8 13.9 | 20.2 |
| 277663 2006 $BR_{194}$ | 16.5 | X | 154.46320 | 230.15195 | 278.31473 | 3.20678 | 0.0411404 | 0.22003377 | 2.7173348 | 21 | 8 2.6 | 20.4 |
| 277664 2006 $BX_{195}$ | 16.1 | X | 19.27002 | 276.81358 | 193.97764 | 2.85880 | 0.0529206 | 0.18959441 | 3.0009059 | 21 | — | — |
| 277665 2006 $BC_{197}$ | 16.7 | X | 100.10656 | 133.43110 | 164.50722 | 7.78587 | 0.1957731 | 0.23400796 | 2.6080483 | 21 | 12 21.9 | 21.1 |
| 277666 2006 $BN_{200}$ | 16.7 | X | 27.60246 | 277.56526 | 116.97855 | 12.22983 | 0.1507126 | 0.24607624 | 2.5220649 | 21 | — | — |
| 277667 2006 $BM_{203}$ | 16.7 | X | 199.23051 | 6.00329 | 115.15385 | 3.11471 | 0.0333645 | 0.22322099 | 2.6914069 | 21 | 8 23.4 | 20.5 |
| 277668 2006 $BO_{203}$ | 16.8 | X | 60.11674 | 87.21625 | 123.22092 | 5.94309 | 0.1851430 | 0.27521502 | 2.3407478 | 21 | 7 17.1 | 19.1 |
| 277669 2006 $BC_{206}$ | 17.0 | X | 123.10454 | 147.68952 | 140.95702 | 8.28464 | 0.1839988 | 0.23963586 | 2.5670531 | 21 | 12 30.5 | 21.4 |
| 277670 2006 $BS_{213}$ | 16.2 | X | 43.04954 | 51.46243 | 108.93655 | 5.67899 | 0.1617423 | 0.20195968 | 2.8771307 | 21 | 4 7.3 | 19.4 |
| 277671 2006 $BM_{214}$ | 15.4 | X | 94.64945 | 256.25343 | 297.70359 | 13.66130 | 0.0323448 | 0.21742343 | 2.7390407 | 21 | 7 17.9 | 19.0 |
| 277672 2006 $BF_{215}$ | 16.4 | X | 174.93679 | 338.28036 | 137.58993 | 9.60855 | 0.0815426 | 0.21968731 | 2.7201910 | 21 | 7 15.8 | 20.4 |
| 277673 2006 $BG_{217}$ | 16.6 | X | 193.23971 | 4.73765 | 90.67540 | 4.68442 | 0.0748152 | 0.22007721 | 2.7169772 | 21 | 7 10.3 | 20.6 |
| 277674 2006 $BE_{226}$ | 17.2 | X | 314.12782 | 131.84236 | 254.13997 | 0.90362 | 0.0951587 | 0.22728140 | 2.6592558 | 21 | 9 12.2 | 20.4 |
| 277675 2006 $BQ_{233}$ | 17.0 | X | 246.44290 | 318.85818 | 106.49628 | 5.13886 | 0.2105622 | 0.22698141 | 2.6615984 | 21 | 7 17.1 | 20.9 |
| 277676 2006 $BV_{237}$ | 15.9 | X | 188.62694 | 231.13724 | 101.58059 | 6.08900 | 0.0886263 | 0.19679956 | 2.9272061 | 21 | 2 4.9 | 20.5 |
| 277677 2006 $BH_{245}$ | 16.6 | X | 51.10814 | 306.68551 | 345.48308 | 6.46392 | 0.1225582 | 0.22586987 | 2.6703233 | 21 | 10 11.1 | 20.2 |
| 277678 2006 $BD_{250}$ | 16.6 | X | 349.40582 | 62.67872 | 136.93745 | 2.76686 | 0.0804786 | 0.19776467 | 2.9176750 | 21 | 2 26.8 | 20.1 |
| 277679 2006 $BR_{251}$ | 16.8 | X | 45.26447 | 287.33936 | 313.63054 | 2.44363 | 0.1431661 | 0.21327509 | 2.7744440 | 21 | 7 28.6 | 20.0 |
| 277680 2006 $BD_{259}$ | 16.5 | X | 30.43127 | 176.30266 | 108.40028 | 2.79973 | 0.0486757 | 0.21959378 | 2.7209633 | 21 | 8 23.8 | 20.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277681 2006 $BT_{263}$ | 16.6 | X | 64.19418 | 180.09043 | 124.38920 | 5.05842 | 0.0916079 | 0.22854419 | 2.6494512 | 21 | 11 12.8 | 20.2 |
| 277682 2006 $BN_{266}$ | 16.0 | X | 20.81721 | 2.24127 | 190.86572 | 11.85833 | 0.1703938 | 0.19389699 | 2.9563465 | 21 | 4 9.3 | 19.0 |
| 277683 2006 $BX_{267}$ | 15.9 | X | 108.99528 | 70.10412 | 109.87374 | 10.18508 | 0.0833460 | 0.21595006 | 2.7514851 | 21 | 7 24.9 | 19.9 |
| 277684 2006 $BY_{268}$ | 15.6 | X | 183.29477 | 8.86704 | 337.71268 | 9.54099 | 0.0080901 | 0.19783596 | 2.9169741 | 21 | 2 11.8 | 19.7 |
| 277685 2006 $BB_{274}$ | 16.7 | X | 86.53593 | 334.37261 | 174.46620 | 6.68422 | 0.0479096 | 0.27155160 | 2.3617530 | 21 | 5 6.4 | 19.5 |
| 277686 2006 $BX_{275}$ | 17.0 | X | 89.19113 | 149.56087 | 137.44527 | 10.21563 | 0.0939995 | 0.23526061 | 2.5987824 | 21 | 11 22.6 | 20.9 |
| 277687 2006 $BC_{276}$ | 16.6 | X | 246.74494 | 216.45429 | 62.06562 | 2.95895 | 0.0458021 | 0.19568741 | 2.9382864 | 21 | 2 2.1 | 20.9 |
| 277688 2006 $BB_{277}$ | 17.4 | X | 113.64217 | 170.95597 | 343.73317 | 3.38915 | 0.0371708 | 0.21456852 | 2.7632831 | 21 | 6 20.6 | 21.2 |
| 277689 2006 $BQ_{277}$ | 16.3 | X | 9.87182 | 180.65716 | 159.65021 | 9.17363 | 0.0952367 | 0.22646256 | 2.6656621 | 21 | 10 15.4 | 19.5 |
| 277690 2006 $BS_{278}$ | 16.6 | X | 303.73161 | 269.48198 | 55.69270 | 1.21883 | 0.0720380 | 0.21312103 | 2.7757808 | 21 | 6 5.8 | 20.0 |
| 277691 2006 $CW_{3}$ | 16.4 | X | 113.63608 | 119.09344 | 143.62480 | 10.74712 | 0.1499934 | 0.23258902 | 2.6186447 | 21 | 11 22.0 | 20.7 |
| 277692 2006 $CL_{19}$ | 16.2 | X | 148.86481 | 227.53283 | 293.42864 | 5.41626 | 0.0287214 | 0.22216718 | 2.6999110 | 21 | 8 11.2 | 20.0 |
| 277693 2006 $CE_{26}$ | 16.0 | X | 147.74173 | 275.11300 | 97.08331 | 3.17853 | 0.1060198 | 0.19819199 | 2.9134797 | 21 | 2 10.8 | 20.3 |
| 277694 2006 $CV_{34}$ | 17.0 | X | 358.24294 | 36.45062 | 205.73985 | 2.22982 | 0.1327632 | 0.27190317 | 2.3597167 | 21 | 4 25.1 | 19.2 |
| 277695 2006 $CB_{38}$ | 17.1 | X | 187.72081 | 307.97713 | 171.20167 | 7.37707 | 0.2325554 | 0.22137271 | 2.7063668 | 21 | 7 29.8 | 21.9 |
| 277696 2006 $CP_{40}$ | 16.9 | X | 166.91050 | 48.46029 | 122.68720 | 4.91014 | 0.0290082 | 0.22318921 | 2.6916624 | 21 | 9 19.5 | 20.6 |
| 277697 2006 $CH_{41}$ | 16.7 | X | 38.10843 | 286.88294 | 320.80035 | 8.24115 | 0.0978405 | 0.21227461 | 2.7831547 | 21 | 7 21.1 | 20.1 |
| 277698 2006 $CQ_{43}$ | 16.3 | X | 26.29639 | 271.38090 | 358.66378 | 11.81335 | 0.1066166 | 0.21371816 | 2.7706081 | 21 | 8 6.7 | 19.7 |
| 277699 2006 $CT_{47}$ | 16.9 | X | 93.37265 | 15.06159 | 150.82928 | 7.40736 | 0.0536519 | 0.27847304 | 2.3224549 | 21 | 6 10.2 | 19.8 |
| 277700 2006 $CC_{57}$ | 16.5 | X | 83.99416 | 77.11990 | 157.03272 | 7.40086 | 0.0321595 | 0.22033201 | 2.7148821 | 21 | 8 26.5 | 20.0 |
| 277701 2006 $CD_{61}$ | 15.8 | X | 155.46935 | 140.15842 | 106.88761 | 15.91836 | 0.0719900 | 0.23794094 | 2.5792292 | 21 | 12 12.5 | 19.6 |
| 277702 2006 $CU_{65}$ | 16.3 | X | 343.84826 | 129.73040 | 88.25403 | 3.74955 | 0.1692754 | 0.19097202 | 2.9864566 | 21 | 3 6.5 | 19.9 |
| 277703 2006 $CL_{66}$ | 16.7 | X | 230.11024 | 250.73734 | 191.38452 | 5.09703 | 0.0268495 | 0.21941526 | 2.7224391 | 21 | 8 8.8 | 20.5 |
| 277704 2006 $DC$ | 15.8 | X | 152.09788 | 57.49415 | 107.78662 | 10.57094 | 0.0852102 | 0.22180954 | 2.7028124 | 21 | 8 27.4 | 19.9 |
| 277705 2006 $DR_{4}$ | 16.5 | X | 59.06898 | 175.06804 | 149.14992 | 8.05216 | 0.1835380 | 0.23050125 | 2.6344332 | 21 | 12 13.2 | 20.4 |
| 277706 2006 $DU_{11}$ | 16.1 | X | 251.51997 | 109.39480 | 276.51200 | 4.68464 | 0.0413041 | 0.21917260 | 2.7244481 | 21 | 6 21.7 | 19.8 |
| 277707 2006 $DG_{14}$ | 15.9 | X | 148.35897 | 27.43167 | 130.21319 | 9.11161 | 0.1580259 | 0.21668665 | 2.7452461 | 21 | 8 13.9 | 20.4 |
| 277708 2006 $DM_{22}$ | 16.8 | X | 119.61525 | 128.46809 | 13.44439 | 4.11687 | 0.0456221 | 0.21039432 | 2.7997121 | 21 | 6 12.0 | 20.8 |
| 277709 2006 $DG_{24}$ | 16.3 | X | 110.95418 | 117.22972 | 46.60932 | 8.15718 | 0.1609018 | 0.21409902 | 2.7673213 | 21 | 7 16.4 | 20.5 |
| 277710 2006 $DR_{24}$ | 16.7 | X | 78.19998 | 197.32541 | 355.88934 | 3.19924 | 0.0356456 | 0.21165056 | 2.7886227 | 21 | 6 25.0 | 20.4 |
| 277711 2006 $DA_{27}$ | 16.2 | X | 238.40192 | 242.26177 | 157.06149 | 4.81344 | 0.0794792 | 0.21306883 | 2.7762342 | 21 | 6 18.7 | 20.2 |
| 277712 2006 $DU_{30}$ | 16.5 | X | 94.36929 | 43.55704 | 167.12286 | 4.98580 | 0.0914432 | 0.21508080 | 2.7588936 | 21 | 8 16.4 | 20.3 |
| 277713 2006 $DY_{30}$ | 16.5 | X | 116.71378 | 32.93930 | 163.92799 | 5.22061 | 0.0914838 | 0.21695909 | 2.7429474 | 21 | 8 25.4 | 20.4 |
| 277714 2006 $DB_{31}$ | 16.7 | X | 122.03440 | 153.07684 | 347.42844 | 2.08363 | 0.1584511 | 0.21048607 | 2.7988985 | 21 | 6 26.7 | 20.9 |
| 277715 2006 $DW_{31}$ | 16.7 | X | 81.58623 | 83.76451 | 169.91660 | 4.67890 | 0.0482309 | 0.22116226 | 2.7080834 | 21 | 9 21.3 | 20.4 |
| 277716 2006 $DS_{32}$ | 16.5 | X | 185.71184 | 252.50097 | 169.34051 | 2.37632 | 0.0520339 | 0.20735331 | 2.8270191 | 21 | 5 19.9 | 20.6 |
| 277717 2006 $DR_{33}$ | 16.3 | X | 230.64459 | 222.37304 | 8.94964 | 4.36634 | 0.0784788 | 0.17785363 | 3.1315611 | 21 | — | — |
| 277718 2006 $DR_{43}$ | 16.4 | X | 324.74191 | 11.98784 | 344.78318 | 11.59584 | 0.1983237 | 0.22292209 | 2.6938122 | 21 | 8 12.0 | 19.1 |
| 277719 2006 $DF_{45}$ | 16.6 | X | 281.30269 | 17.14456 | 351.51479 | 4.87440 | 0.0696998 | 0.21598984 | 2.7511473 | 21 | 7 4.5 | 20.4 |
| 277720 2006 $DJ_{49}$ | 16.6 | X | 119.81261 | 127.73266 | 0.67671 | 7.59439 | 0.1700086 | 0.20999915 | 2.8032233 | 21 | 6 8.9 | 21.0 |
| 277721 2006 $DS_{50}$ | 16.2 | X | 219.41793 | 207.69987 | 151.43478 | 8.58697 | 0.0884578 | 0.20947392 | 2.8079071 | 21 | 4 9.2 | 20.5 |
| 277722 2006 $DH_{52}$ | 16.7 | X | 234.94447 | 5.70848 | 107.48795 | 3.21542 | 0.0171633 | 0.22599005 | 2.6693765 | 21 | 9 30.7 | 20.3 |
| 277723 2006 $DQ_{55}$ | 16.5 | X | 294.74234 | 256.97555 | 117.71681 | 5.99979 | 0.1278757 | 0.21983819 | 2.7189462 | 21 | 7 22.4 | 19.9 |
| 277724 2006 $DN_{57}$ | 16.8 | X | 18.65184 | 330.06199 | 266.34332 | 1.39777 | 0.1215705 | 0.20518453 | 2.8469050 | 21 | 6 2.3 | 20.0 |
| 277725 2006 $DR_{57}$ | 16.6 | X | 192.54366 | 256.19409 | 189.33010 | 2.59205 | 0.0456778 | 0.21244625 | 2.7816555 | 21 | 6 27.0 | 20.5 |
| 277726 2006 $DX_{62}$ | 14.9 | X | 260.14259 | 192.74165 | 9.69577 | 28.24354 | 0.1157814 | 0.17912197 | 3.1167608 | 21 | — | — |
| 277727 2006 $DL_{70}$ | 16.4 | X | 209.44592 | 49.78377 | 358.34305 | 5.10097 | 0.0393037 | 0.21178342 | 2.7874563 | 21 | 5 28.6 | 20.4 |
| 277728 2006 $DW_{74}$ | 16.7 | X | 30.86286 | 248.00957 | 347.83339 | 6.86658 | 0.1655025 | 0.20965555 | 2.8062852 | 21 | 6 29.1 | 19.8 |
| 277729 2006 $DY_{75}$ | 16.6 | X | 277.91899 | 223.51197 | 130.66714 | 3.64339 | 0.0909194 | 0.21270091 | 2.7794347 | 21 | 6 6.9 | 20.3 |
| 277730 2006 $DO_{78}$ | 16.1 | X | 162.03416 | 331.77376 | 347.58732 | 7.71836 | 0.1037475 | 0.18429363 | 3.0581761 | 21 | — | — |
| 277731 2006 $DO_{80}$ | 16.5 | X | 279.24160 | 209.43187 | 173.02935 | 4.89878 | 0.1335590 | 0.21830301 | 2.7316784 | 21 | 7 9.0 | 20.2 |
| 277732 2006 $DW_{81}$ | 16.4 | X | 316.04584 | 183.06253 | 168.55070 | 6.37599 | 0.0449971 | 0.21710880 | 2.7416863 | 21 | 8 1.8 | 20.0 |
| 277733 2006 $DL_{88}$ | 16.3 | X | 174.87500 | 133.45661 | 170.94493 | 10.32419 | 0.0947618 | 0.18118525 | 3.0930539 | 21 | — | — |
| 277734 2006 $DS_{88}$ | 16.8 | X | 104.11462 | 329.78299 | 165.77073 | 6.43300 | 0.0249026 | 0.20506192 | 2.8480397 | 21 | 5 14.1 | 20.8 |
| 277735 2006 $DV_{88}$ | 16.2 | X | 101.43259 | 2.30227 | 167.64354 | 9.77898 | 0.0730287 | 0.21032695 | 2.8003099 | 21 | 6 29.9 | 20.3 |
| 277736 2006 $DL_{92}$ | 16.5 | X | 334.29872 | 239.27185 | 67.10686 | 1.28539 | 0.0510985 | 0.20990292 | 2.8040800 | 21 | 6 28.2 | 19.9 |
| 277737 2006 $DW_{93}$ | 15.9 | X | 229.99863 | 221.72921 | 1.14900 | 9.94982 | 0.0596148 | 0.17574470 | 3.1565637 | 21 | — | — |
| 277738 2006 $DK_{95}$ | 16.4 | X | 168.46336 | 336.76110 | 166.82708 | 1.80468 | 0.0434437 | 0.21561409 | 2.7543425 | 21 | 8 13.4 | 20.4 |
| 277739 2006 $DN_{95}$ | 15.5 | X | 175.29365 | 150.32526 | 186.63887 | 27.59113 | 0.1246358 | 0.18467854 | 3.0539254 | 21 | 1 26.9 | 20.8 |
| 277740 2006 $DV_{99}$ | 16.8 | X | 305.25252 | 310.62153 | 23.32547 | 3.67767 | 0.0996728 | 0.21334633 | 2.7738263 | 21 | 6 15.7 | 20.2 |
| 277741 2006 $DD_{102}$ | 16.8 | X | 250.53654 | 23.75524 | 30.53670 | 4.14787 | 0.0954997 | 0.21903306 | 2.7256051 | 21 | 7 22.2 | 20.7 |
| 277742 2006 $DJ_{104}$ | 16.1 | X | 206.37365 | 345.53322 | 319.44307 | 2.53676 | 0.0862706 | 0.18718008 | 3.0266553 | 21 | 1 21.6 | 20.7 |
| 277743 2006 $DJ_{105}$ | 16.3 | X | 208.42586 | 321.11562 | 161.93604 | 8.10702 | 0.1210800 | 0.22298959 | 2.6932685 | 21 | 8 28.7 | 20.4 |
| 277744 2006 $DV_{106}$ | 16.9 | X | 262.98976 | 300.26723 | 348.81328 | 15.58615 | 0.1820948 | 0.25667149 | 2.4521722 | 21 | 2 15.1 | 20.8 |
| 277745 2006 $DK_{107}$ | 16.4 | X | 278.74687 | 212.30050 | 162.55518 | 11.33529 | 0.0307442 | 0.21534391 | 2.7566459 | 21 | 7 13.6 | 20.3 |
| 277746 2006 $DS_{107}$ | 16.2 | X | 69.18694 | 214.53589 | 174.72396 | 6.00290 | 0.1595747 | 0.18072260 | 3.0983305 | 21 | — | — |
| 277747 2006 $DQ_{108}$ | 16.4 | X | 78.54166 | 26.51469 | 192.81589 | 4.81047 | 0.0978874 | 0.21294172 | 2.7773389 | 21 | 8 7.7 | 20.2 |
| 277748 2006 $DC_{109}$ | 16.3 | X | 28.00491 | 320.86092 | 317.69439 | 3.28410 | 0.1760348 | 0.21238525 | 2.7821880 | 21 | 8 25.5 | 19.2 |
| 277749 2006 $DD_{111}$ | 15.7 | X | 257.22780 | 202.45629 | 9.95435 | 27.96846 | 0.1008005 | 0.18180933 | 3.0859716 | 21 | — | — |
| 277750 2006 $DW_{116}$ | 15.8 | X | 357.75352 | 264.76026 | 61.59511 | 15.25260 | 0.0535469 | 0.22123173 | 2.7075164 | 21 | 9 9.9 | 19.5 |
| 277751 2006 $DK_{121}$ | 16.5 | X | 69.47412 | 178.09505 | 48.94916 | 8.54481 | 0.1461631 | 0.21469220 | 2.7622217 | 21 | 8 19.2 | 20.3 |
| 277752 2006 $DE_{129}$ | 16.2 | X | 326.82585 | 301.55282 | 25.38055 | 6.16473 | 0.1082230 | 0.21561323 | 2.7543499 | 21 | 7 10.8 | 19.5 |
| 277753 2006 $DZ_{130}$ | 16.4 | X | 228.85663 | 328.63704 | 62.26100 | 5.27707 | 0.0813539 | 0.21109693 | 2.7934963 | 21 | 5 27.2 | 20.3 |
| 277754 2006 $DG_{131}$ | 16.7 | X | 310.54200 | 338.95671 | 38.43597 | 6.87283 | 0.0559879 | 0.22225073 | 2.6992343 | 21 | 9 2.3 | 20.2 |
| 277755 2006 $DJ_{132}$ | 16.5 | X | 277.77058 | 277.90622 | 116.13689 | 4.61542 | 0.0804803 | 0.22010841 | 2.7167205 | 21 | 8 1.2 | 20.1 |
| 277756 2006 $DK_{132}$ | 16.4 | X | 32.10936 | 310.51182 | 40.05625 | 4.34263 | 0.2356843 | 0.23238452 | 2.6201808 | 21 | 12 20.9 | 19.8 |
| 277757 2006 $DS_{140}$ | 16.4 | X | 50.27581 | 188.77254 | 78.70660 | 4.67490 | 0.1342625 | 0.21621237 | 2.7492592 | 21 | 9 12.5 | 19.9 |
| 277758 2006 $DF_{141}$ | 16.2 | X | 49.85833 | 24.32328 | 34.85097 | 5.01218 | 0.1514940 | 0.18509565 | 3.0493357 | 21 | — | — |
| 277759 2006 $DM_{141}$ | 16.9 | X | 3.80051 | 176.37712 | 123.45498 | 4.15033 | 0.0559730 | 0.21580600 | 2.7527094 | 21 | 8 3.9 | 20.4 |
| 277760 2006 $DB_{147}$ | 16.1 | X | 249.80324 | 195.29371 | 333.97950 | 4.52336 | 0.1425335 | 0.17280913 | 3.1922110 | 21 | 11 29.9 | 20.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277761 2006 $DM_{147}$ | 16.7 | X | 232.85370 | 273.50791 | 131.76009 | 1.01568 | 0.0755013 | 0.21354492 | 2.7721063 | 21 | 6 20.2 | 20.7 |
| 277762 2006 $DY_{150}$ | 16.2 | X | 147.94365 | 72.98770 | 332.71139 | 4.99419 | 0.0757946 | 0.19751814 | 2.9201022 | 21 | 3 18.4 | 20.4 |
| 277763 2006 $DN_{153}$ | 16.5 | X | 172.94426 | 270.49883 | 195.37884 | 7.32354 | 0.1905056 | 0.21407828 | 2.7675001 | 21 | 7 1.9 | 21.3 |
| 277764 2006 $DA_{157}$ | 15.7 | X | 173.47235 | 298.79377 | 1.22657 | 7.72198 | 0.0911018 | 0.18105565 | 3.0945297 | 21 | — | — |
| 277765 2006 $DA_{159}$ | 16.4 | X | 127.82443 | 333.00197 | 164.84669 | 13.28257 | 0.1261104 | 0.21133279 | 2.7914174 | 21 | 6 26.2 | 20.8 |
| 277766 2006 $DH_{160}$ | 16.6 | X | 31.18940 | 191.75825 | 151.35186 | 3.83906 | 0.1163901 | 0.22945843 | 2.6424090 | 21 | 11 22.4 | 19.8 |
| 277767 2006 $DP_{160}$ | 16.8 | X | 315.87944 | 41.72224 | 167.11795 | 10.33872 | 0.0486351 | 0.19160887 | 2.9798357 | 21 | 1 27.7 | 21.0 |
| 277768 2006 $DC_{163}$ | 16.3 | X | 93.95544 | 340.16525 | 184.06708 | 4.16312 | 0.0430327 | 0.20955833 | 2.8071531 | 21 | 6 8.8 | 20.1 |
| 277769 2006 $DG_{172}$ | 16.3 | X | 279.24256 | 213.92867 | 154.51719 | 6.87650 | 0.0497444 | 0.21347243 | 2.7727338 | 21 | 7 3.4 | 20.2 |
| 277770 2006 $DL_{176}$ | 16.3 | X | 78.49173 | 226.86028 | 356.09089 | 9.79159 | 0.0987928 | 0.21476618 | 2.7615874 | 21 | 8 17.3 | 20.1 |
| 277771 2006 $DH_{177}$ | 16.7 | X | 266.88017 | 22.46110 | 5.34475 | 3.79628 | 0.0566497 | 0.21607467 | 2.7504272 | 21 | 7 12.9 | 20.5 |
| 277772 2006 $DP_{185}$ | 16.0 | X | 124.27083 | 328.23910 | 56.43828 | 5.14990 | 0.1325871 | 0.18831848 | 3.0144455 | 21 | 2 6.0 | 20.4 |
| 277773 2006 $DS_{186}$ | 16.6 | X | 302.71732 | 196.45157 | 119.01641 | 3.00401 | 0.0527774 | 0.20589403 | 2.8403610 | 21 | 5 26.1 | 20.3 |
| 277774 2006 $DG_{187}$ | 16.1 | X | 257.98419 | 262.30667 | 123.16225 | 2.97538 | 0.0825003 | 0.21236680 | 2.7823492 | 21 | 6 23.7 | 20.1 |
| 277775 2006 $DY_{189}$ | 16.7 | X | 174.72880 | 132.41185 | 318.22091 | 3.45369 | 0.0301580 | 0.20975757 | 2.8053752 | 21 | 6 11.9 | 20.7 |
| 277776 2006 $DQ_{200}$ | 15.2 | X | 260.87140 | 32.10717 | 189.24632 | 17.49572 | 0.2285704 | 0.17750808 | 3.1356239 | 21 | — | — |
| 277777 2006 $DT_{202}$ | 17.0 | X | 20.82072 | 104.14367 | 96.10053 | 6.09178 | 0.1365932 | 0.26753531 | 2.3853310 | 21 | 4 9.7 | 19.2 |
| 277778 2006 $DC_{204}$ | 15.8 | X | 96.22015 | 355.88751 | 212.81670 | 15.05549 | 0.0685244 | 0.21532925 | 2.7567710 | 21 | 8 8.4 | 20.0 |
| 277779 2006 $DQ_{204}$ | 16.1 | X | 165.99241 | 98.57079 | 97.70725 | 13.77294 | 0.1109910 | 0.22877515 | 2.6476677 | 21 | 10 24.5 | 20.4 |
| 277780 2006 $DR_{206}$ | 16.7 | X | 134.53777 | 192.26935 | 306.18782 | 3.35723 | 0.0090591 | 0.21066297 | 2.7973314 | 21 | 6 22.8 | 20.6 |
| 277781 2006 $DK_{209}$ | 16.5 | X | 302.02534 | 188.29031 | 150.09206 | 5.71279 | 0.1695008 | 0.20950305 | 2.8076469 | 21 | 6 7.2 | 20.1 |
| 277782 2006 $DX_{210}$ | 16.4 | X | 23.70298 | 164.83915 | 167.47176 | 6.34282 | 0.0832852 | 0.22455400 | 2.6807451 | 21 | 10 23.3 | 19.7 |
| 277783 2006 $DF_{211}$ | 16.9 | X | 33.72070 | 64.13792 | 172.92739 | 4.07885 | 0.0418953 | 0.20871907 | 2.8146731 | 21 | 6 22.2 | 20.6 |
| 277784 2006 $DV_{211}$ | 16.1 | X | 302.05728 | 243.79263 | 3.21919 | 10.73006 | 0.0844189 | 0.19157611 | 2.9801753 | 21 | 2 25.8 | 20.2 |
| 277785 2006 $DX_{211}$ | 16.1 | X | 29.46226 | 355.57197 | 190.04300 | 13.96068 | 0.0896464 | 0.19743095 | 2.9209619 | 21 | 4 11.7 | 19.6 |
| 277786 2006 $DC_{212}$ | 16.7 | X | 341.70256 | 143.50988 | 192.24334 | 5.87437 | 0.0360137 | 0.21783949 | 2.7355520 | 21 | 8 18.1 | 20.2 |
| 277787 2006 $DG_{216}$ | 16.0 | X | 346.33262 | 113.18857 | 187.57051 | 4.13316 | 0.0412813 | 0.21116034 | 2.7929371 | 21 | 7 8.5 | 19.6 |
| 277788 2006 $EK_{2}$ | 16.5 | X | 333.44235 | 177.86180 | 74.15638 | 3.11530 | 0.0199266 | 0.20126091 | 2.8837864 | 21 | 4 19.5 | 20.3 |
| 277789 2006 $ES_{9}$ | 16.9 | X | 260.55312 | 307.74650 | 36.75203 | 2.33950 | 0.0778821 | 0.20531281 | 2.8457190 | 21 | 5 5.0 | 21.1 |
| 277790 2006 $EG_{10}$ | 16.2 | X | 170.28077 | 354.78876 | 151.65440 | 5.40059 | 0.0540019 | 0.21842180 | 2.7306878 | 21 | 8 19.6 | 20.1 |
| 277791 2006 $EM_{12}$ | 16.5 | X | 294.69090 | 202.15257 | 173.23587 | 14.36420 | 0.1190869 | 0.21818017 | 2.7327037 | 21 | 7 22.4 | 20.3 |
| 277792 2006 $EV_{14}$ | 16.2 | X | 93.29316 | 170.90266 | 8.02021 | 3.60026 | 0.0310637 | 0.20995017 | 2.8036592 | 21 | 6 25.5 | 20.0 |
| 277793 2006 $ET_{23}$ | 16.8 | X | 251.85097 | 274.83934 | 153.92624 | 2.18742 | 0.0505746 | 0.22194581 | 2.7017059 | 21 | 8 17.5 | 20.4 |
| 277794 2006 $EY_{34}$ | 16.6 | X | 127.96192 | 121.90550 | 39.79646 | 4.11227 | 0.0330965 | 0.21245654 | 2.7815657 | 21 | 7 18.8 | 20.5 |
| 277795 2006 $EJ_{35}$ | 16.2 | X | 239.35802 | 36.65305 | 0.27162 | 12.39000 | 0.1114340 | 0.21227608 | 2.7831419 | 21 | 6 11.7 | 20.6 |
| 277796 2006 $EY_{44}$ | 16.4 | X | 340.37555 | 254.02477 | 120.82223 | 3.43337 | 0.1104574 | 0.22560099 | 2.6724446 | 21 | 10 13.4 | 19.3 |
| 277797 2006 $EZ_{55}$ | 16.4 | X | 280.36745 | 212.76156 | 183.96594 | 9.23484 | 0.0171351 | 0.21911559 | 2.7249207 | 21 | 8 15.6 | 20.1 |
| 277798 2006 $EA_{57}$ | 16.5 | X | 169.31815 | 273.09949 | 189.59069 | 7.94984 | 0.1725131 | 0.21465236 | 2.7625635 | 21 | 6 24.8 | 21.2 |
| 277799 2006 $EM_{73}$ | 16.8 | X | 318.06075 | 216.30480 | 164.26274 | 3.87761 | 0.0849689 | 0.22152326 | 2.7051405 | 21 | 9 12.1 | 20.1 |
| 277800 2006 $EV_{73}$ | 15.3 | X | 117.86126 | 114.54022 | 160.83199 | 16.71833 | 0.0792241 | 0.15666205 | 3.4079524 | 21 | 11 26.4 | 20.7 |
| 277801 2006 $FC_{5}$ | 16.5 | X | 270.56674 | 29.06419 | 354.44646 | 9.34559 | 0.1120928 | 0.21660653 | 2.7459230 | 21 | 7 4.3 | 20.5 |
| 277802 2006 $FH_{6}$ | 15.4 | X | 32.71894 | 28.88383 | 159.65157 | 15.54992 | 0.0934047 | 0.19903656 | 2.9052320 | 21 | 4 24.4 | 19.2 |
| 277803 2006 $FN_{7}$ | 16.0 | X | 222.22506 | 144.31566 | 195.04960 | 9.67380 | 0.0235469 | 0.19302139 | 2.9652803 | 21 | 3 19.7 | 20.2 |
| 277804 2006 $FJ_{8}$ | 16.7 | X | 16.99052 | 199.01457 | 72.98056 | 0.59871 | 0.0292467 | 0.20890768 | 2.8129787 | 21 | 7 14.7 | 20.4 |
| 277805 2006 $FS_{19}$ | 16.4 | X | 353.64238 | 160.32180 | 40.23496 | 2.42424 | 0.0331026 | 0.19156382 | 2.9803028 | 21 | 3 11.7 | 20.3 |
| 277806 2006 $FC_{21}$ | 16.4 | X | 356.76156 | 281.09573 | 17.17300 | 8.75157 | 0.1244259 | 0.21125899 | 2.7920675 | 21 | 7 24.5 | 19.7 |
| 277807 2006 $FH_{24}$ | 15.3 | X | 307.39527 | 118.87105 | 27.47867 | 20.97835 | 0.0285091 | 0.17451456 | 3.1713799 | 21 | — | — |
| 277808 2006 $FA_{25}$ | 16.7 | X | 267.54150 | 92.58033 | 192.87140 | 1.03660 | 0.1101478 | 0.19009072 | 2.9956801 | 21 | 2 26.5 | 21.0 |
| 277809 2006 $FP_{33}$ | 15.9 | X | 246.79017 | 287.90981 | 30.76657 | 11.00387 | 0.0938416 | 0.19059768 | 2.9903658 | 21 | 3 21.9 | 20.4 |
| 277810 2006 $FV_{35}$ | 21.6 | X | 302.99044 | 170.81550 | 179.48707 | 7.10401 | 0.3775326 | 0.98353404 | 1.0014051 | 21 | 3 19.3 | 20.5 |
| 277811 2006 $FM_{36}$ | 16.1 | X | 299.25787 | 45.85257 | 99.18208 | 3.02987 | 0.0439106 | 0.17530455 | 3.1618450 | 21 | — | — |
| 277812 2006 $FU_{38}$ | 16.3 | X | 341.52715 | 209.08111 | 154.21788 | 7.61989 | 0.1069300 | 0.22157503 | 2.7047191 | 21 | 9 28.5 | 19.3 |
| 277813 2006 $FJ_{46}$ | 15.5 | X | 234.04361 | 58.09928 | 136.34566 | 5.31311 | 0.1189390 | 0.17219438 | 3.1998042 | 21 | 12 15.9 | 20.2 |
| 277814 2006 $FJ_{54}$ | 16.8 | X | 24.27318 | 244.86877 | 336.99176 | 0.73657 | 0.0268112 | 0.20188907 | 2.8778016 | 21 | 5 18.1 | 20.5 |
| 277815 2006 $FB_{55}$ | 16.4 | X | 278.87689 | 178.51941 | 170.56345 | 5.25806 | 0.0746994 | 0.21060485 | 2.7978460 | 21 | 6 4.2 | 20.3 |
| 277816 Varese | 18.4 | X | 87.14305 | 138.33451 | 19.88361 | 22.02891 | 0.0615178 | 0.39863482 | 1.8284618 | 21 | 5 1.8 | 20.0 |
| 277817 2006 $GT$ | 15.9 | X | 307.11605 | 92.16546 | 15.90487 | 24.64671 | 0.1269889 | 0.17250207 | 3.1959980 | 21 | 11 28.8 | 20.3 |
| 277818 2006 $GR_{18}$ | 16.6 | X | 36.70491 | 96.44291 | 97.40638 | 3.10747 | 0.0256228 | 0.19871001 | 2.9084140 | 21 | 4 29.9 | 20.4 |
| 277819 2006 $GL_{19}$ | 16.9 | X | 19.32966 | 118.31170 | 87.51543 | 3.20168 | 0.0287132 | 0.19749301 | 2.9203499 | 21 | 4 22.1 | 20.8 |
| 277820 2006 $GT_{29}$ | 16.5 | X | 269.87102 | 79.60675 | 204.93342 | 4.54255 | 0.1089003 | 0.18878050 | 3.0095251 | 21 | 2 27.0 | 20.9 |
| 277821 2006 $GY_{29}$ | 14.6 | X | 247.08537 | 105.31220 | 99.40945 | 17.55674 | 0.1960928 | 0.17418711 | 3.1753533 | 21 | — | — |
| 277822 2006 $GV_{44}$ | 16.5 | X | 50.31982 | 288.30337 | 357.12192 | 2.92905 | 0.1687938 | 0.21704933 | 2.7421871 | 21 | 10 8.7 | 20.0 |
| 277823 2006 $GV_{50}$ | 15.0 | X | 256.95926 | 101.02014 | 67.42677 | 18.19580 | 0.0513159 | 0.17153417 | 3.2080094 | 21 | 12 19.3 | 19.6 |
| 277824 2006 $HB_{2}$ | 15.2 | X | 247.45442 | 138.55513 | 57.92588 | 16.22391 | 0.1267623 | 0.17439311 | 3.1728521 | 21 | — | — |
| 277825 2006 $HY_{3}$ | 16.3 | X | 281.76345 | 257.96677 | 54.80447 | 12.82602 | 0.0325348 | 0.19757169 | 2.9195746 | 21 | 4 29.8 | 20.3 |
| 277826 2006 $HC_{10}$ | 16.0 | X | 177.62238 | 237.31452 | 167.50552 | 11.41217 | 0.1016795 | 0.19761108 | 2.9191866 | 21 | 4 23.6 | 20.6 |
| 277827 2006 $HA_{15}$ | 16.7 | X | 98.15836 | 36.82987 | 35.08970 | 1.89928 | 0.0623758 | 0.18785067 | 3.0194480 | 21 | 2 21.3 | 20.8 |
| 277828 2006 $HA_{23}$ | 16.7 | X | 105.32908 | 326.69516 | 149.35526 | 2.81137 | 0.0697024 | 0.19773099 | 2.9180063 | 21 | 4 26.8 | 20.7 |
| 277829 2006 $HL_{25}$ | 16.5 | X | 79.39918 | 59.69876 | 199.92651 | 7.95900 | 0.2018770 | 0.21283296 | 2.7782850 | 21 | 10 15.5 | 20.5 |
| 277830 2006 $HR_{29}$ | 20.7 | X | 287.85624 | 212.66632 | 232.53799 | 9.54057 | 0.2637605 | 1.00753352 | 0.9854389 | 21 | — | — |
| 277831 2006 $HL_{37}$ | 16.0 | X | 17.50289 | 137.89799 | 185.55635 | 12.56241 | 0.2109455 | 0.21677239 | 2.7445222 | 21 | 10 17.1 | 18.8 |
| 277832 2006 $HH_{41}$ | 16.2 | X | 44.99348 | 203.73754 | 153.36016 | 10.35183 | 0.1143974 | 0.22375818 | 2.6870976 | 21 | 12 26.2 | 20.0 |
| 277833 2006 $HU_{45}$ | 16.5 | X | 248.81708 | 281.19490 | 81.23030 | 3.22617 | 0.0834398 | 0.20369203 | 2.8607947 | 21 | 5 14.3 | 20.7 |
| 277834 2006 $HA_{56}$ | 17.4 | X | 53.74825 | 345.52390 | 77.10777 | 22.82066 | 0.1033821 | 0.37473427 | 1.9054041 | 21 | — | — |
| 277835 2006 $HQ_{60}$ | 16.0 | X | 338.51352 | 138.96821 | 152.09234 | 11.66665 | 0.2483512 | 0.19972107 | 2.8985900 | 21 | 5 26.5 | 19.1 |
| 277836 2006 $HC_{63}$ | 16.6 | X | 279.44879 | 187.01486 | 157.63994 | 2.33724 | 0.0720878 | 0.20113940 | 2.8849478 | 21 | 5 30.6 | 20.5 |
| 277837 2006 $HO_{65}$ | 16.3 | X | 77.42834 | 262.29138 | 213.03478 | 10.55300 | 0.0886092 | 0.19033417 | 2.9931252 | 21 | 3 20.2 | 20.3 |
| 277838 2006 $HJ_{69}$ | 15.6 | X | 197.50791 | 290.55346 | 54.60529 | 11.95506 | 0.0572151 | 0.18508174 | 3.0494885 | 21 | 3 6.8 | 20.3 |
| 277839 2006 $HS_{71}$ | 15.6 | X | 109.28310 | 198.71415 | 209.15912 | 19.80020 | 0.0361538 | 0.18180595 | 3.0860100 | 21 | 1 28.0 | 20.3 |
| 277840 2006 $HC_{75}$ | 16.3 | X | 261.69755 | 166.23497 | 113.00114 | 11.19155 | 0.0579079 | 0.18522180 | 3.0479510 | 21 | 2 21.7 | 20.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277841 2006 $HE_{79}$ | 15.8 | X | 344.43534 | 260.71050 | 222.68938 | 7.98879 | 0.0651883 | 0.17488571 | 3.1668913 | 21 | — | — |
| 277842 2006 $HB_{84}$ | 15.7 | X | 79.38744 | 329.17005 | 90.57085 | 8.58149 | 0.0207455 | 0.17747193 | 3.1360497 | 21 | 1 10.3 | 20.0 |
| 277843 2006 $HH_{86}$ | 17.7 | X | 47.54882 | 161.92968 | 134.74992 | 3.11878 | 0.2066062 | 0.27871034 | 2.3211364 | 21 | 11 5.9 | 20.5 |
| 277844 2006 $HL_{92}$ | 15.9 | X | 15.61645 | 346.23603 | 122.26818 | 6.21489 | 0.0923331 | 0.17722441 | 3.1389690 | 21 | — | — |
| 277845 2006 $HA_{93}$ | 16.0 | X | 227.32189 | 141.65843 | 200.75568 | 10.21096 | 0.1225371 | 0.18965387 | 3.0002785 | 21 | 3 24.2 | 20.8 |
| 277846 2006 $HB_{95}$ | 16.1 | X | 156.46948 | 344.76442 | 176.77296 | 6.47297 | 0.0885134 | 0.21963218 | 2.7206462 | 21 | 8 23.1 | 20.3 |
| 277847 2006 $HP_{101}$ | 15.6 | X | 182.39198 | 271.27542 | 79.01946 | 10.65873 | 0.0887501 | 0.18225874 | 3.0808968 | 21 | 2 24.8 | 20.5 |
| 277848 2006 $HS_{101}$ | 16.3 | X | 334.94708 | 350.55526 | 174.23056 | 5.11857 | 0.0701687 | 0.17903525 | 3.1177672 | 21 | — | — |
| 277849 2006 $HR_{104}$ | 15.9 | X | 37.49096 | 115.77367 | 90.46098 | 16.43812 | 0.1528770 | 0.20059717 | 2.8901442 | 21 | 5 30.5 | 19.2 |
| 277850 2006 $HG_{107}$ | 15.6 | X | 223.24812 | 245.73939 | 63.70083 | 16.39438 | 0.3085803 | 0.17928822 | 3.1148337 | 21 | 2 13.4 | 21.5 |
| 277851 2006 $HJ_{113}$ | 16.5 | X | 36.38334 | 243.38119 | 116.12370 | 6.42568 | 0.0930424 | 0.22332324 | 2.6905853 | 21 | 12 15.3 | 20.0 |
| 277852 2006 $HG_{120}$ | 16.2 | X | 11.91799 | 92.03949 | 55.40673 | 12.92014 | 0.1481435 | 0.18501583 | 3.0502127 | 21 | 1 26.2 | 20.0 |
| 277853 2006 $HX_{121}$ | 17.0 | X | 223.83614 | 240.31955 | 99.77525 | 26.50168 | 0.0533411 | 0.38344295 | 1.8764437 | 21 | 3 4.9 | 19.7 |
| 277854 2006 $HR_{131}$ | 15.6 | X | 163.67560 | 143.46644 | 173.88314 | 9.58154 | 0.1510345 | 0.18257968 | 3.0772853 | 21 | — | — |
| 277855 2006 $HN_{150}$ | 16.5 | X | 217.89731 | 215.66485 | 203.91111 | 5.54396 | 0.1096030 | 0.21424690 | 2.7660478 | 21 | 6 18.9 | 20.7 |
| 277856 2006 $JH_{7}$ | 15.8 | X | 56.20131 | 251.32232 | 206.24419 | 8.34786 | 0.0908501 | 0.18323842 | 3.0699056 | 21 | 1 28.1 | 19.8 |
| 277857 2006 $JD_{10}$ | 16.7 | X | 348.18033 | 96.95945 | 45.40820 | 3.94339 | 0.1718657 | 0.18029022 | 3.1032822 | 21 | — | — |
| 277858 2006 $JF_{12}$ | 16.2 | X | 38.74828 | 306.38590 | 188.49549 | 9.26206 | 0.0522980 | 0.18494488 | 3.0509928 | 21 | 2 16.4 | 20.3 |
| 277859 2006 $JJ_{14}$ | 16.3 | X | 223.47476 | 136.32526 | 161.90524 | 5.33807 | 0.2125796 | 0.17773830 | 3.1329157 | 21 | 1 27.8 | 21.6 |
| 277860 2006 $JY_{17}$ | 16.2 | X | 287.54219 | 191.38513 | 85.41014 | 4.23841 | 0.0267325 | 0.18999992 | 2.9966345 | 21 | 3 24.3 | 20.4 |
| 277861 2006 $JR_{18}$ | 16.6 | X | 9.32675 | 78.73095 | 82.82581 | 6.89299 | 0.1418948 | 0.18673763 | 3.0314343 | 21 | 2 7.8 | 20.1 |
| 277862 2006 $JK_{20}$ | 15.9 | X | 0.41546 | 49.63842 | 170.70595 | 10.36775 | 0.0436921 | 0.19306379 | 2.9648461 | 21 | 4 15.7 | 19.9 |
| 277863 2006 $JP_{20}$ | 15.9 | X | 337.27077 | 131.30831 | 106.90888 | 10.21870 | 0.1563047 | 0.19150504 | 2.9809127 | 21 | 3 27.4 | 19.7 |
| 277864 2006 $JZ_{22}$ | 16.3 | X | 290.30714 | 267.07143 | 7.57130 | 2.45522 | 0.1639971 | 0.19044757 | 2.9919368 | 21 | 3 4.5 | 20.7 |
| 277865 2006 $JX_{27}$ | 15.9 | X | 223.34341 | 291.87075 | 58.08377 | 9.43338 | 0.1102783 | 0.19160416 | 2.9798845 | 21 | 4 3.9 | 20.6 |
| 277866 2006 $JP_{32}$ | 15.8 | X | 218.10452 | 285.85422 | 105.61399 | 13.55909 | 0.1368723 | 0.19775957 | 2.9177251 | 21 | 5 17.9 | 20.6 |
| 277867 2006 $JX_{33}$ | 15.9 | X | 256.57528 | 286.83448 | 54.32759 | 13.00330 | 0.1779566 | 0.19331760 | 2.9622506 | 21 | 4 19.9 | 20.6 |
| 277868 2006 $JA_{34}$ | 16.1 | X | 206.44907 | 308.64750 | 58.45515 | 10.98891 | 0.1201662 | 0.19043387 | 2.9920804 | 21 | 4 8.4 | 20.9 |
| 277869 2006 $JR_{35}$ | 15.6 | X | 137.03098 | 298.46959 | 94.22065 | 8.31765 | 0.0933222 | 0.18223442 | 3.0811708 | 21 | 2 27.1 | 20.2 |
| 277870 2006 $JT_{35}$ | 16.0 | X | 103.13972 | 331.60767 | 72.83845 | 11.20455 | 0.0746670 | 0.17897348 | 3.1184846 | 21 | 1 30.2 | 20.4 |
| 277871 2006 $JA_{36}$ | 16.4 | X | 350.64235 | 91.40589 | 97.19763 | 4.76727 | 0.1068012 | 0.18666490 | 3.0322216 | 21 | 2 15.2 | 20.1 |
| 277872 2006 $JG_{37}$ | 16.3 | X | 334.38410 | 71.71214 | 153.42665 | 5.59606 | 0.0662529 | 0.19195472 | 2.9762554 | 21 | 3 13.1 | 20.2 |
| 277873 2006 $JQ_{38}$ | 15.6 | X | 69.69594 | 81.07129 | 63.08156 | 11.21594 | 0.0555033 | 0.19302653 | 2.9652277 | 21 | 4 17.4 | 19.6 |
| 277874 2006 $JV_{47}$ | 15.3 | X | 198.17861 | 45.00668 | 224.55066 | 9.87502 | 0.1049011 | 0.17178564 | 3.2048778 | 21 | — | — |
| 277875 2006 $JM_{49}$ | 15.5 | X | 19.17104 | 144.35711 | 44.19156 | 15.28554 | 0.0918596 | 0.19204500 | 2.9753225 | 21 | 4 4.9 | 19.3 |
| 277876 2006 $JG_{50}$ | 16.6 | X | 65.11604 | 287.41783 | 226.37197 | 3.60794 | 0.0426934 | 0.19536354 | 2.9415329 | 21 | 4 16.9 | 20.4 |
| 277877 2006 $JW_{54}$ | 15.7 | X | 311.42775 | 344.59158 | 221.22922 | 16.16224 | 0.1277421 | 0.18047937 | 3.1011136 | 21 | 1 8.0 | 20.3 |
| 277878 2006 $JG_{55}$ | 16.0 | X | 242.22648 | 227.49914 | 58.39765 | 11.26674 | 0.1077659 | 0.18113162 | 3.0936644 | 21 | 2 7.1 | 21.0 |
| 277879 2006 $JE_{61}$ | 16.0 | X | 340.19709 | 212.81965 | 84.44482 | 16.29161 | 0.1295601 | 0.20337339 | 2.8637820 | 21 | 6 18.4 | 19.1 |
| 277880 2006 $JB_{64}$ | 16.4 | X | 175.67707 | 317.54153 | 354.88848 | 9.46617 | 0.0746944 | 0.18487966 | 3.0517102 | 21 | — | — |
| 277881 2006 $JC_{65}$ | 16.4 | X | 338.80557 | 142.31650 | 182.44422 | 9.30063 | 0.0968969 | 0.21585095 | 2.7523273 | 21 | 7 26.0 | 19.7 |
| 277882 2006 $JA_{67}$ | 16.2 | X | 152.72173 | 143.10926 | 218.33995 | 6.25404 | 0.0684459 | 0.18041880 | 3.1018076 | 21 | 1 30.5 | 20.9 |
| 277883 Basu | 16.2 | X | 287.21697 | 113.54483 | 213.36854 | 6.84430 | 0.1124045 | 0.20017808 | 2.8941767 | 21 | 5 11.5 | 20.2 |
| 277884 2006 $KA_{6}$ | 15.5 | X | 9.23002 | 239.27160 | 233.77976 | 9.46262 | 0.0555977 | 0.17591764 | 3.1544947 | 21 | — | — |
| 277885 2006 $KL_{6}$ | 15.7 | X | 177.23188 | 101.47670 | 234.27306 | 9.63477 | 0.1299986 | 0.17762246 | 3.1342776 | 21 | 1 28.9 | 20.8 |
| 277886 2006 $KJ_{10}$ | 15.7 | X | 90.01619 | 350.21649 | 60.26090 | 18.10674 | 0.1827367 | 0.17745581 | 3.1362396 | 21 | 2 9.2 | 20.2 |
| 277887 2006 $KF_{17}$ | 15.2 | X | 277.99127 | 170.34586 | 77.08002 | 23.64641 | 0.0834507 | 0.18185380 | 3.0854685 | 21 | 1 31.7 | 20.1 |
| 277888 2006 $KL_{18}$ | 16.1 | X | 7.93962 | 142.64661 | 119.87397 | 9.31796 | 0.1775386 | 0.20157012 | 2.8808365 | 21 | 6 22.1 | 19.1 |
| 277889 2006 $KJ_{31}$ | 16.0 | X | 320.39031 | 194.11720 | 48.13366 | 4.41178 | 0.0490253 | 0.18956823 | 3.0011821 | 21 | 3 19.5 | 20.0 |
| 277890 2006 $KP_{31}$ | 16.7 | X | 81.06465 | 241.87289 | 265.39903 | 0.75041 | 0.0674010 | 0.19582429 | 2.9369170 | 21 | 5 3.9 | 20.7 |
| 277891 2006 $KJ_{32}$ | 16.7 | X | 37.02002 | 320.67697 | 160.83259 | 1.73932 | 0.0514977 | 0.18240850 | 3.0792102 | 21 | 1 30.9 | 20.7 |
| 277892 2006 $KA_{34}$ | 16.0 | X | 180.08113 | 243.00880 | 88.30302 | 3.76485 | 0.0707489 | 0.17808385 | 3.1288616 | 21 | 1 27.2 | 20.6 |
| 277893 2006 $KF_{40}$ | 15.4 | X | 338.86455 | 340.20464 | 248.25280 | 13.25009 | 0.0923251 | 0.19102953 | 2.9858573 | 21 | 3 13.5 | 19.6 |
| 277894 2006 $KG_{41}$ | 15.6 | X | 246.34734 | 193.85556 | 91.01289 | 10.90097 | 0.1187647 | 0.18110862 | 3.0939264 | 21 | 2 7.6 | 20.5 |
| 277895 2006 $KP_{45}$ | 15.8 | X | 9.69333 | 39.11018 | 61.77571 | 10.19308 | 0.0681927 | 0.17445235 | 3.1721338 | 21 | — | — |
| 277896 2006 $KY_{45}$ | 16.1 | X | 238.11429 | 176.96529 | 110.41508 | 2.48036 | 0.1614128 | 0.17974947 | 3.1095030 | 21 | 1 29.7 | 21.1 |
| 277897 2006 $KZ_{45}$ | 16.3 | X | 348.88708 | 1.48951 | 232.47266 | 21.17846 | 0.1258521 | 0.19289458 | 2.9665798 | 21 | 4 3.4 | 20.2 |
| 277898 2006 $KY_{48}$ | 16.2 | X | 19.93311 | 298.79864 | 182.04456 | 3.91244 | 0.0976405 | 0.17959446 | 3.1112919 | 21 | 1 5.7 | 20.2 |
| 277899 2006 $KC_{49}$ | 16.6 | X | 235.41290 | 40.44360 | 148.72322 | 3.02754 | 0.0435890 | 0.22996987 | 2.6384898 | 21 | — | — |
| 277900 2006 $KY_{51}$ | 15.4 | X | 232.09343 | 240.67113 | 78.38061 | 12.60195 | 0.0557453 | 0.18582885 | 3.0413095 | 21 | 3 12.9 | 20.1 |
| 277901 2006 $KG_{55}$ | 15.9 | X | 20.71671 | 287.48575 | 213.77221 | 6.51496 | 0.1209500 | 0.18377449 | 3.0639328 | 21 | 1 29.1 | 19.6 |
| 277902 2006 $KO_{59}$ | 16.1 | X | 259.98736 | 100.83607 | 190.81734 | 7.97421 | 0.1533710 | 0.18412010 | 3.0600973 | 21 | 2 21.2 | 21.0 |
| 277903 2006 $KT_{62}$ | 16.2 | X | 72.69229 | 271.21135 | 196.62047 | 9.04989 | 0.0629487 | 0.18526489 | 3.0474784 | 21 | 3 2.1 | 20.4 |
| 277904 2006 $KM_{67}$ | 15.8 | X | 337.49847 | 346.82076 | 230.05062 | 13.36656 | 0.1920754 | 0.18771483 | 3.0209045 | 21 | 2 12.6 | 19.9 |
| 277905 2006 $KP_{69}$ | 15.8 | X | 314.71133 | 333.77691 | 199.33250 | 10.04113 | 0.0545677 | 0.17655574 | 3.1468895 | 21 | — | — |
| 277906 2006 $KG_{72}$ | 16.2 | X | 8.00115 | 292.75255 | 193.64149 | 7.62066 | 0.1473298 | 0.17862826 | 3.1225012 | 21 | — | — |
| 277907 2006 $KY_{72}$ | 16.0 | X | 281.79323 | 164.63382 | 104.90497 | 12.26590 | 0.1765033 | 0.18482763 | 3.0522829 | 21 | 2 19.0 | 20.7 |
| 277908 2006 $KU_{73}$ | 16.2 | X | 256.65179 | 102.86920 | 177.59180 | 10.32203 | 0.0759522 | 0.18216802 | 3.0819195 | 21 | 2 12.0 | 20.9 |
| 277909 2006 $KB_{74}$ | 16.1 | X | 260.00142 | 166.06390 | 120.39506 | 10.16660 | 0.1056830 | 0.18355016 | 3.0664287 | 21 | 2 23.5 | 20.8 |
| 277910 2006 $KS_{74}$ | 16.1 | X | 20.46884 | 319.80649 | 185.07290 | 9.42002 | 0.0543488 | 0.18248960 | 3.0782978 | 21 | 2 4.1 | 20.4 |
| 277911 2006 $KQ_{78}$ | 16.3 | X | 51.55405 | 293.57559 | 200.08993 | 8.82734 | 0.0879196 | 0.18691651 | 3.0294998 | 21 | 3 7.3 | 20.1 |
| 277912 2006 $KN_{85}$ | 15.9 | X | 326.45655 | 135.54001 | 144.57247 | 12.70984 | 0.1473765 | 0.19462607 | 2.9489588 | 21 | 5 5.2 | 19.8 |
| 277913 2006 $KU_{87}$ | 16.5 | X | 206.14036 | 55.06425 | 273.80117 | 0.88807 | 0.1753468 | 0.18097909 | 3.0954025 | 21 | 2 18.3 | 21.6 |
| 277914 2006 $KX_{87}$ | 15.9 | X | 162.77809 | 128.27021 | 240.05037 | 8.82651 | 0.0644067 | 0.18324898 | 3.0697877 | 21 | 2 15.8 | 20.6 |
| 277915 2006 $KB_{88}$ | 15.6 | X | 336.58701 | 304.11965 | 249.96355 | 4.18142 | 0.1071843 | 0.18532809 | 3.0467855 | 21 | 1 30.1 | 19.6 |
| 277916 2006 $KF_{92}$ | 15.3 | X | 163.55284 | 279.58013 | 73.20270 | 12.41777 | 0.0386809 | 0.18014369 | 3.1049648 | 21 | 2 3.6 | 20.0 |
| 277917 2006 $KU_{92}$ | 16.0 | X | 127.04355 | 171.73757 | 220.32332 | 7.28954 | 0.0459814 | 0.18093453 | 3.0959106 | 21 | 2 3.6 | 20.6 |
| 277918 2006 $KY_{95}$ | 14.6 | X | 52.24239 | 223.16247 | 235.26291 | 21.36546 | 0.0331494 | 0.17791016 | 3.1308978 | 21 | 1 16.8 | 19.3 |
| 277919 2006 $KT_{97}$ | 16.2 | X | 151.55528 | 190.30841 | 198.31323 | 8.96821 | 0.0617773 | 0.18767155 | 3.0213689 | 21 | 2 28.6 | 20.7 |
| 277920 2006 $KT_{98}$ | 16.0 | X | 210.37518 | 86.14084 | 213.00810 | 10.53069 | 0.0849511 | 0.17687372 | 3.1431167 | 21 | 1 17.7 | 21.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 277921 2006 $KV_{101}$ | 15.9 | X | 85.95285 | 287.97733 | 139.41619 | 10.23896 | 0.0603291 | 0.17924613 | 3.1153214 | 21 | 1 31.4 | 20.1 |
| 277922 2006 $KX_{101}$ | 17.7 | X | 298.30790 | 80.69393 | 82.09972 | 23.36469 | 0.0583195 | 0.36679320 | 1.9328072 | 21 | — | — |
| 277923 2006 $KN_{103}$ | 17.0 | X | 319.27771 | 336.50823 | 248.50047 | 19.17889 | 0.0540165 | 0.38121506 | 1.8837475 | 21 | 1 7.7 | 19.1 |
| 277924 2006 $KS_{104}$ | 15.9 | X | 78.77503 | 26.60938 | 67.95667 | 10.63934 | 0.0692230 | 0.18477272 | 3.0528875 | 21 | 3 2.2 | 20.2 |
| 277925 2006 $KX_{104}$ | 15.9 | X | 189.48727 | 110.78967 | 213.02753 | 25.37334 | 0.2197342 | 0.17446078 | 3.1720316 | 21 | 1 25.8 | 21.8 |
| 277926 2006 $KC_{106}$ | 15.5 | X | 145.54254 | 350.34040 | 19.38701 | 12.44676 | 0.2109653 | 0.18388686 | 3.0626844 | 21 | 2 21.8 | 20.6 |
| 277927 2006 $KG_{113}$ | 15.8 | X | 222.81176 | 137.04556 | 156.85236 | 10.70628 | 0.1988779 | 0.17726777 | 3.1384571 | 21 | 1 22.5 | 21.2 |
| 277928 2006 $KV_{113}$ | 15.9 | X | 275.70514 | 323.73813 | 342.48678 | 3.56056 | 0.2916805 | 0.18683984 | 3.0303286 | 21 | 3 12.8 | 20.8 |
| 277929 2006 $KU_{116}$ | 16.5 | X | 324.34715 | 4.95205 | 207.46980 | 7.29940 | 0.0235867 | 0.18417691 | 3.0594681 | 21 | 2 15.3 | 20.8 |
| 277930 2006 $KG_{118}$ | 17.7 | X | 328.66502 | 132.63231 | 166.42032 | 19.19908 | 0.1010901 | 0.39626366 | 1.8357487 | 21 | 5 27.2 | 19.6 |
| 277931 2006 $KJ_{119}$ | 16.4 | X | 223.02489 | 152.30373 | 183.25029 | 11.12380 | 0.0675374 | 0.18624719 | 3.0367536 | 21 | 3 15.2 | 21.0 |
| 277932 2006 $KV_{122}$ | 15.9 | X | 54.30897 | 243.19763 | 188.33959 | 9.09736 | 0.0799013 | 0.17415910 | 3.1756937 | 21 | — | — |
| 277933 2006 $KA_{123}$ | 15.7 | X | 163.26018 | 238.71675 | 133.45391 | 10.59574 | 0.0637221 | 0.18249558 | 3.0782305 | 21 | 2 26.4 | 20.2 |
| 277934 2006 $KU_{129}$ | 15.9 | X | 286.39349 | 241.69637 | 51.95506 | 3.61751 | 0.0999741 | 0.18937913 | 3.0031796 | 21 | 4 1.7 | 20.1 |
| 277935 2006 $LK_{4}$ | 15.0 | X | 202.93937 | 222.01402 | 113.77954 | 17.67437 | 0.1868959 | 0.17838524 | 3.1253364 | 21 | 2 28.2 | 20.4 |
| 277936 2006 $OO$ | 15.7 | X | 343.51345 | 144.60405 | 163.73397 | 12.81897 | 0.0960139 | 0.19568549 | 2.9383056 | 21 | 7 11.4 | 19.5 |
| 277937 2006 $OK_{29}$ | 17.2 | X | 252.67036 | 330.15674 | 127.18651 | 4.22280 | 0.1014839 | 0.27182812 | 2.3601511 | 21 | 9 25.3 | 20.0 |
| 277938 2006 $PH_{14}$ | 15.1 | X | 256.17807 | 187.75653 | 112.44219 | 18.07274 | 0.1746839 | 0.17859893 | 3.1228429 | 21 | 3 5.2 | 20.3 |
| 277939 2006 $PO_{18}$ | 15.2 | X | 185.29137 | 197.57178 | 125.89201 | 10.06905 | 0.0854422 | 0.16883914 | 3.2420569 | 21 | 1 24.9 | 20.2 |
| 277940 2006 $PK_{28}$ | 17.0 | X | 91.72947 | 259.28563 | 91.69225 | 24.34699 | 0.0888517 | 0.35211612 | 1.9861503 | 21 | — | — |
| 277941 2006 $PF_{33}$ | 15.1 | X | 230.12121 | 218.25952 | 83.23237 | 15.86870 | 0.2412994 | 0.17119341 | 3.2122649 | 21 | 2 9.7 | 20.8 |
| 277942 2006 $PK_{38}$ | 17.2 | X | 36.43413 | 171.25528 | 117.01260 | 6.03923 | 0.1513222 | 0.26796553 | 2.3827771 | 21 | 9 29.8 | 19.8 |
| 277943 2006 $QG_{1}$ | 16.1 | X | 102.12572 | 237.06392 | 17.75692 | 7.50622 | 0.2583660 | 0.20992907 | 2.8038471 | 21 | 11 2.9 | 20.8 |
| 277944 2006 $QM_{1}$ | 16.6 | X | 25.15522 | 193.05930 | 86.87815 | 7.31366 | 0.0968579 | 0.26241873 | 2.4162368 | 21 | 8 19.5 | 19.2 |
| 277945 2006 $QR_{5}$ | 15.5 | X | 236.51798 | 247.56015 | 102.04245 | 11.43921 | 0.2535907 | 0.17884430 | 3.1199860 | 21 | 4 10.3 | 21.0 |
| 277946 2006 $QH_{62}$ | 15.6 | X | 249.82861 | 256.42416 | 91.41081 | 5.85910 | 0.1988557 | 0.17812280 | 3.1284054 | 21 | 4 19.9 | 20.6 |
| 277947 2006 $QC_{119}$ | 15.1 | X | 223.29745 | 147.99327 | 179.35294 | 18.98111 | 0.2610994 | 0.17384617 | 3.1795034 | 21 | 2 27.4 | 20.8 |
| 277948 2006 $QF_{144}$ | 14.9 | X | 199.21549 | 223.99021 | 113.65113 | 22.51420 | 0.2543776 | 0.17018827 | 3.2249003 | 21 | 2 28.9 | 20.8 |
| 277949 2006 $RE_{4}$ | 17.2 | X | 217.45293 | 70.28622 | 175.29091 | 23.01137 | 0.0664353 | 0.35461972 | 1.9767912 | 21 | — | — |
| 277950 2006 $RC_{122}$ | 17.9 | X | 76.71351 | 286.19648 | 181.55483 | 6.43891 | 0.1158239 | 0.29643529 | 2.2276628 | 21 | 2 21.7 | 20.0 |
| 277951 2006 $SQ_{13}$ | 17.7 | X | 213.26364 | 356.76663 | 348.49966 | 7.27090 | 0.1561683 | 0.30379723 | 2.1915271 | 21 | 3 3.1 | 21.0 |
| 277952 2006 $SA_{18}$ | 17.1 | X | 240.07131 | 186.11780 | 166.18636 | 5.09927 | 0.2030422 | 0.24209741 | 2.5496229 | 21 | 4 10.4 | 21.2 |
| 277953 2006 $SK_{24}$ | 15.0 | X | 144.18497 | 92.19975 | 247.04637 | 7.36373 | 0.0862367 | 0.15645568 | 3.4109485 | 21 | 1 3.1 | 20.1 |
| 277954 2006 $SB_{33}$ | 16.5 | X | 331.26006 | 127.96538 | 187.46911 | 14.01266 | 0.2650894 | 0.19013887 | 2.9951743 | 21 | 6 11.4 | 19.9 |
| 277955 2006 $SL_{75}$ | 16.7 | X | 274.86765 | 262.36027 | 33.69141 | 9.37256 | 0.1572446 | 0.23885206 | 2.5726659 | 21 | 3 12.1 | 20.6 |
| 277956 2006 $SV_{107}$ | 17.8 | X | 71.38800 | 43.59231 | 7.58715 | 2.10890 | 0.1921848 | 0.28559645 | 2.2836744 | 21 | — | — |
| 277957 2006 $SS_{119}$ | 17.1 | X | 128.82398 | 311.41036 | 106.91217 | 6.52162 | 0.0548630 | 0.29911107 | 2.2143574 | 21 | 2 24.9 | 19.7 |
| 277958 2006 $SP_{134}$ | 16.7 | X | 107.20710 | 192.30105 | 16.62990 | 13.03865 | 0.7360304 | 0.33572625 | 2.0502769 | 21 | 10 12.9 | 21.7 |
| 277959 2006 $SB_{187}$ | 17.0 | X | 177.48567 | 172.93855 | 214.40868 | 0.91165 | 0.1958805 | 0.23193813 | 2.6235416 | 21 | 3 30.8 | 21.3 |
| 277960 2006 $SP_{211}$ | 17.1 | X | 209.70878 | 241.51705 | 141.02169 | 6.11629 | 0.1703472 | 0.23986850 | 2.5653930 | 21 | 4 23.7 | 21.3 |
| 277961 2006 $SU_{273}$ | 17.6 | X | 19.35673 | 220.90505 | 218.24121 | 0.72161 | 0.1601601 | 0.27608627 | 2.3358207 | 21 | — | — |
| 277962 2006 $SV_{284}$ | 17.1 | X | 216.25793 | 312.07216 | 58.05388 | 6.48505 | 0.1747928 | 0.23961774 | 2.5671825 | 21 | 4 13.7 | 21.3 |
| 277963 2006 $SZ_{297}$ | 18.4 | X | 213.56788 | 6.79116 | 53.21045 | 2.07253 | 0.0806323 | 0.31394416 | 2.1440477 | 21 | 6 14.3 | 21.2 |
| 277964 2006 $SY_{303}$ | 16.4 | X | 94.26542 | 98.69717 | 57.16229 | 2.81191 | 0.0314493 | 0.24349217 | 2.5398771 | 21 | 5 24.9 | 19.7 |
| 277965 2006 $SE_{318}$ | 17.5 | X | 70.71162 | 345.66244 | 63.12639 | 3.76630 | 0.2010721 | 0.28430034 | 2.2906099 | 21 | — | — |
| 277966 2006 $SR_{360}$ | 17.8 | X | 220.99431 | 273.09762 | 56.55477 | 4.33399 | 0.0737132 | 0.29811906 | 2.2192670 | 21 | 2 20.9 | 20.8 |
| 277967 2006 $ST_{366}$ | 16.4 | X | 45.71108 | 331.81828 | 273.85816 | 5.82815 | 0.0767403 | 0.25472591 | 2.4646427 | 21 | 7 26.3 | 19.2 |
| 277968 2006 $ST_{388}$ | 16.1 | X | 74.51563 | 49.69815 | 83.18423 | 11.84614 | 0.0459416 | 0.23280588 | 2.6170183 | 21 | 4 5.8 | 19.7 |
| 277969 2006 $SC_{391}$ | 16.7 | X | 252.09430 | 209.96651 | 161.19817 | 3.60266 | 0.0264765 | 0.24639427 | 2.5198943 | 21 | 6 4.1 | 20.1 |
| 277970 2006 $SR_{391}$ | 17.3 | X | 239.20431 | 149.69970 | 191.50054 | 4.01670 | 0.1382569 | 0.23881756 | 2.5729137 | 21 | 3 29.7 | 21.1 |
| 277971 2006 $TP_{4}$ | 17.1 | X | 174.58239 | 313.12999 | 125.86156 | 4.88987 | 0.1591303 | 0.24188015 | 2.5511494 | 21 | 5 31.0 | 21.2 |
| 277972 2006 $TF_{22}$ | 16.8 | X | 196.08903 | 203.01211 | 164.57123 | 2.63720 | 0.2376510 | 0.23416796 | 2.6068601 | 21 | 3 23.4 | 21.3 |
| 277973 2006 $TZ_{28}$ | 17.2 | X | 244.32017 | 139.33812 | 189.47903 | 2.40832 | 0.2287413 | 0.23856785 | 2.5747087 | 21 | 3 13.7 | 21.6 |
| 277974 2006 $TJ_{37}$ | 18.0 | X | 84.32683 | 271.37777 | 243.28884 | 0.96879 | 0.0660766 | 0.30401261 | 2.1904919 | 21 | 5 9.7 | 20.2 |
| 277975 2006 $TT_{42}$ | 16.1 | X | 236.07393 | 27.27962 | 223.70314 | 15.32929 | 0.1247929 | 0.21785220 | 2.7354456 | 21 | — | — |
| 277976 2006 $TE_{52}$ | 16.8 | X | 170.72795 | 314.31775 | 57.51141 | 7.40497 | 0.2425895 | 0.22911915 | 2.6450169 | 21 | 3 13.0 | 21.4 |
| 277977 2006 $TG_{52}$ | 16.8 | X | 130.99781 | 342.74528 | 72.56758 | 3.73312 | 0.1063017 | 0.22703439 | 2.6611843 | 21 | 3 14.3 | 20.6 |
| 277978 2006 $TB_{55}$ | 17.0 | X | 202.74316 | 178.86268 | 190.56578 | 12.60775 | 0.2673088 | 0.23598348 | 2.5934725 | 21 | 3 30.0 | 21.6 |
| 277979 2006 $TG_{55}$ | 17.1 | X | 168.63617 | 258.95867 | 156.12825 | 7.90655 | 0.1877324 | 0.23525561 | 2.5988191 | 21 | 4 28.4 | 21.4 |
| 277980 2006 $TZ_{57}$ | 18.5 | X | 46.53414 | 14.73828 | 30.62306 | 4.74905 | 0.2266122 | 0.27902673 | 2.3193814 | 21 | — | — |
| 277981 2006 $TL_{75}$ | 17.1 | X | 163.19011 | 318.36935 | 102.57645 | 5.42889 | 0.2369583 | 0.23479486 | 2.6022179 | 21 | 5 2.7 | 21.6 |
| 277982 2006 $TF_{76}$ | 17.6 | X | 215.94294 | 178.13159 | 177.84325 | 6.05825 | 0.1767620 | 0.30393884 | 2.1908463 | 21 | 3 18.8 | 20.8 |
| 277983 2006 $TQ_{81}$ | 17.2 | X | 186.46012 | 119.88023 | 283.94288 | 2.80480 | 0.2146508 | 0.23699547 | 2.5860844 | 21 | 4 26.7 | 21.5 |
| 277984 2006 $TJ_{109}$ | 14.4 | X | 11.21153 | 221.04231 | 98.61059 | 5.75229 | 0.1833141 | 0.12331665 | 3.9974978 | 21 | 9 13.8 | 19.1 |
| 277985 2006 $TA_{110}$ | 15.6 | X | 234.37018 | 54.86282 | 255.77022 | 13.68937 | 0.1823575 | 0.23224138 | 2.6212573 | 21 | 2 9.0 | 20.2 |
| 277986 2006 $TN_{118}$ | 16.7 | X | 118.31499 | 68.14230 | 72.57071 | 5.97890 | 0.1369561 | 0.24280577 | 2.5446617 | 21 | 6 19.8 | 20.3 |
| 277987 2006 $TW_{126}$ | 17.7 | X | 207.27352 | 9.78128 | 334.17981 | 2.61569 | 0.1695811 | 0.29935283 | 2.2131650 | 21 | 2 24.0 | 21.2 |
| 277988 2006 $UG_{7}$ | 17.1 | X | 163.63815 | 262.55594 | 144.74091 | 3.06055 | 0.1458819 | 0.23296386 | 2.6158350 | 21 | 4 10.5 | 21.1 |
| 277989 2006 $US_{7}$ | 17.2 | X | 169.08304 | 201.27265 | 182.57516 | 4.35096 | 0.2202372 | 0.23080389 | 2.6321298 | 21 | 3 20.9 | 21.5 |
| 277990 2006 $UY_{7}$ | 17.3 | X | 96.23640 | 296.32172 | 71.97244 | 2.70280 | 0.2465150 | 0.28258264 | 2.2998829 | 21 | — | — |
| 277991 2006 $UO_{15}$ | 15.4 | X | 235.34936 | 239.54331 | 216.42432 | 15.16283 | 0.0521907 | 0.18529314 | 3.0471686 | 21 | 8 24.4 | 20.0 |
| 277992 2006 $UE_{16}$ | 17.6 | X | 173.73952 | 278.03613 | 160.61958 | 3.09467 | 0.0651549 | 0.30607977 | 2.1806182 | 21 | 5 23.5 | 20.4 |
| 277993 2006 $UR_{37}$ | 17.8 | X | 128.38032 | 218.78202 | 284.22057 | 1.05412 | 0.1195563 | 0.30874325 | 2.1680589 | 21 | 7 2.5 | 20.6 |
| 277994 2006 $UN_{53}$ | 17.9 | X | 339.83442 | 43.79293 | 61.64284 | 4.46210 | 0.1479658 | 0.27287411 | 2.3541158 | 21 | — | — |
| 277995 2006 $UG_{55}$ | 16.9 | X | 116.20156 | 203.25058 | 265.15975 | 3.82980 | 0.1672748 | 0.23199645 | 2.6231019 | 21 | 5 9.1 | 20.6 |
| 277996 2006 $UR_{74}$ | 17.4 | X | 157.42139 | 147.44408 | 306.28031 | 2.94139 | 0.2286026 | 0.23832125 | 2.5764845 | 21 | 6 4.8 | 21.8 |
| 277997 2006 $UT_{78}$ | 17.9 | X | 114.32956 | 252.06024 | 268.16760 | 3.17338 | 0.0134614 | 0.31319337 | 2.1474728 | 21 | 6 24.2 | 20.3 |
| 277998 2006 $UE_{85}$ | 18.2 | X | 124.92263 | 120.84388 | 328.85403 | 1.78119 | 0.1238146 | 0.29898577 | 2.2149761 | 21 | 4 12.6 | 20.9 |
| 277999 2006 $UY_{86}$ | 17.6 | X | 231.51061 | 20.08725 | 28.08846 | 2.91584 | 0.1019997 | 0.31189958 | 2.1534074 | 21 | 6 17.8 | 20.3 |
| 278000 2006 $UK_{88}$ | 18.1 | X | 245.73374 | 10.13620 | 321.02039 | 1.56938 | 0.1985252 | 0.30473083 | 2.1870487 | 21 | 3 12.8 | 21.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278001 2006 $UT_{104}$ | 17.1 | X | 124.41234 | 339.09445 | 104.36406 | 3.14296 | 0.1774218 | 0.22962844 | 2.6411046 | 21 | 4 19.6 | 20.9 |
| 278002 2006 $US_{105}$ | 16.3 | X | 234.15868 | 112.58002 | 195.05528 | 7.88297 | 0.0862482 | 0.22825547 | 2.6516849 | 21 | 2 13.0 | 20.4 |
| 278003 2006 $UC_{118}$ | 15.6 | X | 28.27537 | 169.23965 | 31.71934 | 14.60921 | 0.0797229 | 0.17053808 | 3.2204889 | 21 | 4 30.4 | 19.7 |
| 278004 2006 $UE_{126}$ | 18.5 | X | 242.92269 | 333.58363 | 349.80048 | 2.96475 | 0.1044076 | 0.30236201 | 2.1984566 | 21 | 3 5.7 | 21.6 |
| 278005 2006 $UR_{127}$ | 18.5 | X | 227.21386 | 105.37704 | 239.45139 | 3.70213 | 0.0520286 | 0.30199968 | 2.2002147 | 21 | 3 16.7 | 21.5 |
| 278006 2006 $UE_{168}$ | 17.3 | X | 154.80083 | 318.38450 | 55.90679 | 5.04425 | 0.1368178 | 0.29490543 | 2.2353603 | 21 | 2 10.5 | 20.3 |
| 278007 2006 $UC_{188}$ | 16.0 | X | 174.26669 | 156.28820 | 296.83504 | 10.44871 | 0.0892926 | 0.24475192 | 2.5311544 | 21 | 6 15.7 | 19.7 |
| 278008 2006 $UJ_{190}$ | 17.6 | X | 246.59401 | 52.24667 | 286.41081 | 5.76170 | 0.2191767 | 0.30788448 | 2.1720885 | 21 | 3 19.0 | 21.1 |
| 278009 2006 $UJ_{197}$ | 18.0 | X | 16.13639 | 337.26830 | 219.97490 | 5.11404 | 0.1042029 | 0.29892452 | 2.2152786 | 21 | 3 15.1 | 20.1 |
| 278010 2006 $UN_{202}$ | 16.3 | X | 122.99042 | 78.86526 | 76.54919 | 9.33496 | 0.1085417 | 0.24707984 | 2.5152308 | 21 | 7 12.5 | 19.9 |
| 278011 2006 $UC_{204}$ | 15.9 | X | 252.17175 | 40.16803 | 280.30779 | 9.58205 | 0.0783826 | 0.23561138 | 2.5962023 | 21 | 3 17.1 | 19.8 |
| 278012 2006 $UR_{214}$ | 16.1 | X | 324.21639 | 334.60664 | 108.52798 | 12.25650 | 0.0744076 | 0.19018343 | 2.9947065 | 21 | 12 9.8 | 20.0 |
| 278013 2006 $UB_{220}$ | 17.6 | X | 32.80633 | 40.15760 | 68.52721 | 5.74443 | 0.1115366 | 0.28639013 | 2.2794532 | 21 | — | — |
| 278014 2006 $UB_{240}$ | 16.8 | X | 252.72138 | 50.70015 | 222.99896 | 10.73166 | 0.1619010 | 0.22857288 | 2.6492295 | 21 | 1 16.8 | 21.2 |
| 278015 2006 $UH_{260}$ | 18.4 | X | 280.41489 | 94.56216 | 206.67079 | 4.89377 | 0.0482017 | 0.30442152 | 2.1885299 | 21 | 3 25.8 | 21.1 |
| 278016 2006 $VS$ | 18.0 | X | 161.89812 | 209.98932 | 273.99591 | 1.09481 | 0.0471899 | 0.31253355 | 2.1504942 | 21 | 7 11.8 | 20.6 |
| 278017 2006 $VV_{16}$ | 17.4 | X | 174.66096 | 190.33997 | 246.77154 | 3.60639 | 0.0200189 | 0.30633749 | 2.1793950 | 21 | 5 19.1 | 19.8 |
| 278018 2006 $VM_{25}$ | 16.5 | X | 159.35856 | 311.08793 | 79.90133 | 5.47456 | 0.0808014 | 0.22785551 | 2.6547871 | 21 | 3 13.9 | 20.4 |
| 278019 2006 $VK_{29}$ | 18.0 | X | 111.12763 | 120.07522 | 272.97241 | 3.88127 | 0.1143291 | 0.28578354 | 2.2826776 | 21 | 1 4.8 | 20.5 |
| 278020 2006 $VJ_{34}$ | 17.6 | X | 195.21176 | 146.85808 | 207.43729 | 4.48260 | 0.2157959 | 0.29838182 | 2.2179639 | 21 | 2 26.3 | 21.1 |
| 278021 2006 $VK_{44}$ | 17.2 | X | 36.03231 | 312.90091 | 101.31602 | 3.65494 | 0.1548806 | 0.27636330 | 2.3342595 | 21 | — | — |
| 278022 2006 $VN_{51}$ | 17.5 | X | 27.38697 | 339.90157 | 64.32118 | 3.50075 | 0.1567712 | 0.27124757 | 2.3635175 | 21 | — | — |
| 278023 2006 $VX_{57}$ | 16.4 | X | 170.85851 | 246.33137 | 82.85800 | 6.98408 | 0.0524666 | 0.21818790 | 2.7326390 | 21 | 1 5.6 | 20.4 |
| 278024 2006 $VK_{64}$ | 18.0 | X | 201.90377 | 190.81462 | 225.60426 | 2.85612 | 0.1136164 | 0.30644998 | 2.1788616 | 21 | 5 25.5 | 21.1 |
| 278025 2006 $VP_{95}$ | 17.3 | X | 77.67874 | 278.68511 | 113.46093 | 6.04291 | 0.1679157 | 0.28152611 | 2.3056334 | 21 | — | — |
| 278026 2006 $VJ_{96}$ | 16.1 | X | 53.73170 | 43.34046 | 64.91602 | 14.97409 | 0.1384381 | 0.21750336 | 2.7383697 | 21 | 2 11.1 | 19.4 |
| 278027 2006 $VC_{105}$ | 17.0 | X | 273.59416 | 97.46758 | 26.11106 | 2.46485 | 0.1606814 | 0.26326420 | 2.4110609 | 21 | 11 19.5 | 19.6 |
| 278028 2006 $VG_{139}$ | 15.8 | X | 120.66460 | 181.27857 | 246.30277 | 11.54964 | 0.1496313 | 0.22516052 | 2.6759288 | 21 | 3 16.3 | 19.9 |
| 278029 2006 $VP_{146}$ | 16.8 | X | 220.72747 | 49.14286 | 116.38189 | 7.38844 | 0.0755826 | 0.26101916 | 2.4248663 | 21 | 11 17.8 | 20.1 |
| 278030 2006 $WM_{4}$ | 17.3 | X | 77.94892 | 85.12889 | 25.51632 | 7.00233 | 0.1096281 | 0.29364520 | 2.2417514 | 21 | 3 4.9 | 19.5 |
| 278031 2006 $WH_{15}$ | 17.6 | X | 126.04473 | 231.47961 | 196.15045 | 6.47600 | 0.1017319 | 0.29272100 | 2.2464674 | 21 | 3 10.8 | 20.3 |
| 278032 2006 $WL_{23}$ | 16.5 | X | 128.11885 | 331.19000 | 82.74030 | 14.27722 | 0.1745545 | 0.22409566 | 2.6843991 | 21 | 3 24.1 | 20.7 |
| 278033 2006 $WO_{26}$ | 16.4 | X | 136.04364 | 318.37160 | 85.63946 | 3.30072 | 0.0826909 | 0.22550472 | 2.6732051 | 21 | 3 2.7 | 20.1 |
| 278034 2006 $WN_{31}$ | 18.2 | X | 357.96379 | 332.60406 | 119.33554 | 2.86293 | 0.1479142 | 0.27415969 | 2.3467508 | 21 | — | — |
| 278035 2006 $WP_{36}$ | 17.9 | X | 359.54695 | 4.05038 | 159.98658 | 3.84056 | 0.0922428 | 0.28719461 | 2.2751945 | 21 | 1 1.9 | 20.4 |
| 278036 2006 $WU_{54}$ | 17.2 | X | 256.62034 | 139.20012 | 268.34628 | 2.59955 | 0.0490883 | 0.31381979 | 2.1446141 | 21 | 7 28.8 | 19.5 |
| 278037 2006 $WW_{55}$ | 17.2 | X | 38.27201 | 7.72163 | 87.30743 | 3.09894 | 0.1765478 | 0.27576443 | 2.3376378 | 21 | — | — |
| 278038 2006 $WE_{67}$ | 15.7 | X | 29.67847 | 264.60830 | 234.97427 | 23.87839 | 0.1397776 | 0.21874331 | 2.7280115 | 21 | 1 24.9 | 19.4 |
| 278039 2006 $WO_{69}$ | 17.0 | X | 123.55725 | 341.78166 | 123.98610 | 4.38065 | 0.0856484 | 0.29305808 | 2.2447445 | 21 | 5 1.5 | 19.7 |
| 278040 2006 $WR_{79}$ | 17.6 | X | 135.37282 | 339.10791 | 12.53143 | 2.95444 | 0.2323877 | 0.28574325 | 2.2828922 | 21 | 1 1.5 | 20.4 |
| 278041 2006 $WV_{79}$ | 17.8 | X | 111.40195 | 114.73141 | 253.85449 | 6.56263 | 0.1460935 | 0.28244477 | 2.3006313 | 21 | — | — |
| 278042 2006 $WJ_{86}$ | 17.3 | X | 108.41476 | 40.78179 | 55.44419 | 7.19595 | 0.1190778 | 0.29453168 | 2.2372510 | 21 | 4 3.1 | 19.9 |
| 278043 2006 $WN_{87}$ | 17.0 | X | 118.21009 | 254.38525 | 187.51276 | 4.31208 | 0.1944183 | 0.22719891 | 2.6598994 | 21 | 4 12.1 | 20.8 |
| 278044 2006 $WG_{115}$ | 14.5 | X | 356.04527 | 145.72547 | 194.77112 | 9.38970 | 0.3085893 | 0.12517816 | 3.9577680 | 21 | 9 10.9 | 18.3 |
| 278045 2006 $WS_{149}$ | 16.1 | X | 190.39527 | 243.53012 | 55.83696 | 5.93673 | 0.0260635 | 0.21230163 | 2.7829185 | 21 | — | — |
| 278046 2006 $WV_{157}$ | 17.8 | X | 182.90860 | 21.83641 | 321.90054 | 4.55784 | 0.2128828 | 0.29489336 | 2.2354213 | 21 | 2 4.7 | 21.4 |
| 278047 2006 $WY_{162}$ | 16.7 | X | 172.43158 | 267.34390 | 71.92701 | 12.28069 | 0.2195284 | 0.22333720 | 2.6904732 | 21 | 2 3.0 | 21.3 |
| 278048 2006 $WY_{172}$ | 16.0 | X | 137.29709 | 279.12814 | 81.71071 | 7.10788 | 0.0791796 | 0.21582936 | 2.7525108 | 21 | 1 9.4 | 19.8 |
| 278049 2006 $WU_{178}$ | 18.2 | X | 98.89106 | 104.25287 | 36.20341 | 2.01196 | 0.0880939 | 0.30036287 | 2.2082008 | 21 | 5 14.8 | 20.7 |
| 278050 2006 $WP_{182}$ | 17.4 | X | 350.63456 | 128.31117 | 108.16441 | 6.18912 | 0.0495621 | 0.29684455 | 2.2256148 | 21 | 4 10.9 | 19.8 |
| 278051 2006 $WR_{188}$ | 17.7 | X | 38.33376 | 185.03861 | 253.37421 | 2.75380 | 0.0409042 | 0.27795263 | 2.3253528 | 21 | — | — |
| 278052 2006 $WB_{190}$ | 17.7 | X | 33.17123 | 223.41039 | 186.47154 | 6.03641 | 0.2424885 | 0.27437100 | 2.3455457 | 21 | — | — |
| 278053 2006 $WG_{201}$ | 15.7 | X | 145.68212 | 93.23002 | 117.14547 | 10.48306 | 0.0505644 | 0.17796432 | 3.1302625 | 21 | 10 12.8 | 20.5 |
| 278054 2006 $XZ_{13}$ | 17.4 | X | 154.68002 | 74.43277 | 275.57627 | 1.46737 | 0.2358998 | 0.28793055 | 2.2713159 | 21 | 1 20.1 | 20.6 |
| 278055 2006 $XK_{20}$ | 16.9 | X | 66.58763 | 54.83404 | 100.05399 | 10.33946 | 0.1114911 | 0.29196166 | 2.2503609 | 21 | 4 24.9 | 19.3 |
| 278056 2006 $XP_{26}$ | 17.8 | X | 209.11696 | 273.77480 | 140.71542 | 2.06662 | 0.1164084 | 0.30681619 | 2.1771275 | 21 | 5 30.9 | 20.8 |
| 278057 2006 $XA_{57}$ | 16.5 | X | 117.13511 | 308.19611 | 103.46841 | 4.72267 | 0.0985762 | 0.22154371 | 2.7049741 | 21 | 2 20.1 | 20.1 |
| 278058 2006 $XB_{60}$ | 17.6 | X | 4.05401 | 161.45147 | 86.77070 | 6.87817 | 0.1390775 | 0.29710049 | 2.2243364 | 21 | 5 15.8 | 19.4 |
| 278059 2006 $XY_{66}$ | 16.0 | X | 58.43257 | 350.45778 | 95.37252 | 10.19248 | 0.1566833 | 0.21307085 | 2.7762166 | 21 | 1 17.3 | 18.9 |
| 278060 2006 $XO_{70}$ | 17.0 | X | 358.42196 | 10.00645 | 263.38822 | 4.85774 | 0.1654890 | 0.29859908 | 2.2168879 | 21 | 6 12.9 | 18.4 |
| 278061 2006 $YR_{9}$ | 17.3 | X | 55.95047 | 219.15245 | 304.10291 | 3.05363 | 0.1192317 | 0.29303293 | 2.2448729 | 21 | 4 11.1 | 19.3 |
| 278062 2006 $YF_{17}$ | 17.3 | X | 126.99336 | 336.07624 | 101.27578 | 5.97940 | 0.1124863 | 0.29005504 | 2.2602116 | 21 | 4 1.6 | 20.2 |
| 278063 2006 $YM_{18}$ | 16.9 | X | 143.89891 | 236.80011 | 150.98239 | 5.67494 | 0.2518048 | 0.22456614 | 2.6806485 | 21 | 3 8.1 | 21.1 |
| 278064 2006 $YS_{21}$ | 17.2 | X | 336.82785 | 323.40672 | 278.30558 | 6.26017 | 0.1142315 | 0.29348177 | 2.2425836 | 21 | 3 10.5 | 19.7 |
| 278065 2006 $YZ_{34}$ | 18.0 | X | 342.13289 | 144.94514 | 42.81797 | 3.18371 | 0.1310632 | 0.27984777 | 2.3148427 | 21 | 1 5.3 | 20.7 |
| 278066 2006 $YC_{36}$ | 17.2 | X | 5.19242 | 124.29910 | 302.08094 | 11.05886 | 0.2225533 | 0.26749223 | 2.3855870 | 21 | — | — |
| 278067 2006 $YY_{40}$ | 17.6 | X | 42.67115 | 98.74241 | 199.07615 | 1.64685 | 0.1256055 | 0.31938087 | 2.1196465 | 21 | 10 23.9 | 19.5 |
| 278068 2006 $YO_{51}$ | 17.4 | X | 342.20757 | 194.91775 | 297.53165 | 1.79607 | 0.1406886 | 0.26654214 | 2.3912526 | 21 | — | — |
| 278069 2006 $YW_{52}$ | 17.5 | X | 314.25605 | 174.77423 | 247.75890 | 0.70949 | 0.1696948 | 0.25592177 | 2.4569589 | 21 | 11 4.5 | 19.4 |
| 278070 2007 $AP$ | 17.4 | X | 22.71263 | 173.89687 | 323.85978 | 1.55545 | 0.1499614 | 0.27966751 | 2.3158373 | 21 | — | — |
| 278071 2007 $AL_{4}$ | 16.4 | X | 201.37525 | 149.54783 | 339.95213 | 8.47887 | 0.1806151 | 0.24492272 | 2.5299775 | 21 | 8 28.0 | 20.4 |
| 278072 2007 $AB_{7}$ | 16.5 | X | 212.42697 | 77.26831 | 116.02012 | 7.56453 | 0.0593798 | 0.25921095 | 2.4361302 | 21 | 12 13.9 | 19.7 |
| 278073 2007 $AV_{12}$ | 17.8 | X | 12.95391 | 357.49377 | 100.63752 | 3.49528 | 0.1560693 | 0.27325085 | 2.3519515 | 21 | — | — |
| 278074 2007 $AL_{14}$ | 17.2 | X | 50.50367 | 353.63844 | 142.03756 | 3.11502 | 0.1213399 | 0.28442391 | 2.2899464 | 21 | 2 20.2 | 19.1 |
| 278075 2007 $AA_{18}$ | 17.9 | X | 349.95316 | 140.26768 | 305.60880 | 6.02752 | 0.2357862 | 0.26760774 | 2.3849005 | 21 | — | — |
| 278076 2007 $AD_{22}$ | 15.4 | X | 183.61317 | 208.63876 | 335.92434 | 9.44946 | 0.0365192 | 0.18016083 | 3.1047679 | 21 | 10 15.3 | 20.0 |
| 278077 2007 $AA_{24}$ | 17.6 | X | 51.44085 | 311.56410 | 165.58147 | 2.52265 | 0.1123702 | 0.28129835 | 2.3068778 | 21 | 1 24.4 | 19.8 |
| 278078 2007 $AQ_{24}$ | 16.7 | X | 297.30057 | 344.34215 | 92.66148 | 5.17367 | 0.1300597 | 0.25485566 | 2.4638061 | 21 | 10 29.9 | 19.3 |
| 278079 2007 $AG_{27}$ | 16.9 | X | 304.05359 | 265.21570 | 134.96973 | 14.56976 | 0.1369197 | 0.24758193 | 2.5118291 | 21 | 9 17.6 | 19.7 |
| 278080 2007 $AK_{29}$ | 15.9 | X | 5.54152 | 239.96350 | 147.76884 | 11.82607 | 0.1255275 | 0.18819300 | 3.0157852 | 21 | 12 5.4 | 19.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278081 2007 $BN$ | 17.5 | X | 210.38190 | 313.20219 | 105.84415 | 6.27677 | 0.1050635 | 0.30359089 | 2.1925200 | 21 | 6 8.6 | 20.4 |
| 278082 2007 $BW$ | 16.8 | X | 335.10810 | 319.55916 | 306.78198 | 5.40229 | 0.0960983 | 0.29380965 | 2.2409148 | 21 | 4 17.5 | 19.1 |
| 278083 2007 $BP_5$ | 17.6 | X | 8.37985 | 73.55724 | 33.94288 | 5.69056 | 0.1708722 | 0.27256400 | 2.3559011 | 21 | — | — |
| 278084 2007 $BK_9$ | 17.2 | X | 159.14440 | 291.47057 | 108.80041 | 7.93749 | 0.1195705 | 0.29066160 | 2.2570661 | 21 | 3 22.5 | 20.4 |
| 278085 2007 $BJ_{10}$ | 17.2 | X | 108.46523 | 0.89624 | 75.60334 | 4.07730 | 0.0314879 | 0.28396140 | 2.2924323 | 21 | 2 20.4 | 19.9 |
| 278086 2007 $BZ_{10}$ | 17.7 | X | 291.43963 | 276.57685 | 84.11463 | 4.45947 | 0.1849338 | 0.30694551 | 2.1765160 | 21 | 6 16.4 | 19.8 |
| 278087 2007 $BE_{14}$ | 17.5 | X | 57.17741 | 116.43247 | 329.36765 | 3.63235 | 0.1167418 | 0.27747989 | 2.3279932 | 21 | — | — |
| 278088 2007 $BZ_{14}$ | 17.5 | X | 325.07136 | 282.41713 | 324.48559 | 5.31467 | 0.1333523 | 0.28604386 | 2.2812925 | 21 | 2 28.8 | 20.0 |
| 278089 2007 $BR_{15}$ | 18.1 | X | 277.04536 | 236.25916 | 17.12861 | 1.23598 | 0.1283003 | 0.27859264 | 2.3217901 | 21 | 1 12.7 | 21.4 |
| 278090 2007 $BL_{19}$ | 16.9 | X | 192.15720 | 77.68382 | 21.56042 | 4.51148 | 0.2318419 | 0.23695037 | 2.5864125 | 21 | 7 10.9 | 21.4 |
| 278091 2007 $BZ_{19}$ | 16.9 | X | 161.98225 | 194.54709 | 336.19148 | 7.39692 | 0.1630724 | 0.24161301 | 2.5530295 | 21 | 9 11.7 | 21.1 |
| 278092 2007 $BK_{20}$ | 17.5 | X | 39.22757 | 0.35217 | 122.75476 | 8.61390 | 0.2070253 | 0.27900351 | 2.3195101 | 21 | 1 6.6 | 18.8 |
| 278093 2007 $BP_{20}$ | 16.3 | X | 149.56079 | 134.38820 | 321.50938 | 11.30054 | 0.2551642 | 0.22767869 | 2.6561614 | 21 | 6 1.5 | 21.1 |
| 278094 2007 $BS_{24}$ | 17.7 | X | 8.92003 | 94.31062 | 18.30864 | 0.89480 | 0.1548447 | 0.27315584 | 2.3524969 | 21 | — | — |
| 278095 2007 $BW_{27}$ | 17.9 | X | 350.55572 | 102.43020 | 19.58283 | 1.06914 | 0.1731852 | 0.27085810 | 2.3657826 | 21 | — | — |
| 278096 2007 $BR_{29}$ | 17.1 | X | 338.92255 | 78.22044 | 115.71698 | 4.12849 | 0.1511605 | 0.27746731 | 2.3280635 | 21 | 1 6.1 | 19.5 |
| 278097 2007 $BV_{29}$ | 17.1 | X | 358.61198 | 111.41861 | 102.85503 | 6.02430 | 0.0359730 | 0.28680745 | 2.2772415 | 21 | 3 24.5 | 19.7 |
| 278098 2007 $BO_{31}$ | 17.5 | X | 318.37070 | 78.17200 | 137.84990 | 9.67604 | 0.1265033 | 0.27823117 | 2.3238006 | 21 | 1 11.4 | 20.5 |
| 278099 2007 $BE_{45}$ | 17.0 | X | 329.20311 | 63.54830 | 144.47664 | 11.65694 | 0.0888180 | 0.27949718 | 2.3167780 | 21 | 1 20.4 | 19.8 |
| 278100 2007 $BQ_{46}$ | 16.8 | X | 1.20420 | 52.23749 | 116.68479 | 6.33527 | 0.0514580 | 0.27813621 | 2.3243295 | 21 | 1 19.7 | 19.3 |
| 278101 2007 $BO_{48}$ | 17.3 | X | 43.65347 | 17.83597 | 38.55231 | 3.87558 | 0.1911131 | 0.26904639 | 2.3763912 | 21 | — | — |
| 278102 2007 $BS_{53}$ | 17.7 | X | 22.99496 | 115.98530 | 3.28802 | 1.54454 | 0.1334272 | 0.27611162 | 2.3356778 | 21 | — | — |
| 278103 2007 $BG_{56}$ | 16.4 | X | 147.01266 | 11.66525 | 113.00796 | 11.32820 | 0.0905114 | 0.23159387 | 2.6261408 | 21 | 6 27.2 | 20.2 |
| 278104 2007 $BJ_{65}$ | 17.2 | X | 222.65602 | 128.32929 | 147.70870 | 7.97240 | 0.2163834 | 0.26777649 | 2.3838984 | 21 | — | — |
| 278105 2007 $BX_{65}$ | 17.2 | X | 308.60072 | 248.53770 | 311.70715 | 1.82312 | 0.1675801 | 0.27114948 | 2.3640874 | 21 | — | — |
| 278106 2007 $BX_{67}$ | 14.7 | X | 285.94799 | 318.60140 | 16.14372 | 16.95077 | 0.1376434 | 0.15559401 | 3.4235300 | 21 | 5 13.4 | 19.8 |
| 278107 2007 $BG_{75}$ | 17.2 | X | 220.02556 | 297.79104 | 306.08610 | 1.58806 | 0.1553829 | 0.25857886 | 2.4400986 | 21 | — | — |
| 278108 2007 $BJ_{75}$ | 16.2 | X | 196.23697 | 57.54563 | 355.34276 | 9.94798 | 0.1504075 | 0.22306404 | 2.6926692 | 21 | 5 14.8 | 20.8 |
| 278109 2007 $BF_{77}$ | 16.8 | X | 68.65041 | 17.82799 | 86.62699 | 7.33277 | 0.0594551 | 0.28168196 | 2.3047829 | 21 | 2 4.2 | 19.4 |
| 278110 2007 $BN_{81}$ | 17.7 | X | 258.98390 | 42.54071 | 164.49902 | 4.14881 | 0.1641095 | 0.26354554 | 2.4093447 | 21 | — | — |
| 278111 2007 $BO_{100}$ | 18.2 | X | 41.93933 | 336.07620 | 131.36052 | 4.47582 | 0.0953827 | 0.27813456 | 2.3243387 | 21 | — | — |
| 278112 2007 $CK$ | 17.5 | X | 65.40376 | 356.85560 | 140.62744 | 5.30444 | 0.1399619 | 0.28800001 | 2.2709507 | 21 | 3 27.6 | 19.5 |
| 278113 2007 $CW$ | 18.0 | X | 2.64800 | 215.13268 | 259.19146 | 0.45589 | 0.1338272 | 0.27060229 | 2.3672734 | 21 | — | — |
| 278114 2007 $CY$ | 17.0 | X | 352.78383 | 45.61020 | 143.76116 | 7.63209 | 0.0527806 | 0.28077916 | 2.3097207 | 21 | 2 3.4 | 19.7 |
| 278115 2007 $CR_1$ | 17.7 | X | 295.75547 | 55.35546 | 126.07136 | 2.00709 | 0.1289050 | 0.26725497 | 2.3869987 | 21 | — | — |
| 278116 2007 $CA_4$ | 17.0 | X | 323.31993 | 309.44422 | 307.99476 | 6.66330 | 0.1168220 | 0.29099767 | 2.2553280 | 21 | 3 12.8 | 19.6 |
| 278117 2007 $CA_5$ | 18.1 | X | 347.40437 | 5.76131 | 149.28637 | 1.41619 | 0.1240849 | 0.27325873 | 2.3519063 | 21 | — | — |
| 278118 2007 $CX_8$ | 17.7 | X | 201.97429 | 32.56700 | 196.21888 | 0.81154 | 0.1520502 | 0.25955047 | 2.4340052 | 21 | — | — |
| 278119 2007 $CE_{10}$ | 15.8 | X | 195.82678 | 35.78350 | 135.74611 | 11.96687 | 0.0433368 | 0.18159662 | 3.0883811 | 21 | 10 21.7 | 20.5 |
| 278120 2007 $CB_{12}$ | 17.3 | X | 326.90898 | 65.94585 | 116.75018 | 4.30962 | 0.1829548 | 0.27232300 | 2.3572908 | 21 | — | — |
| 278121 2007 $CY_{13}$ | 16.6 | X | 172.15934 | 168.06690 | 308.89862 | 3.47339 | 0.1359282 | 0.23397532 | 2.6082908 | 21 | 7 15.6 | 20.5 |
| 278122 2007 $CG_{19}$ | 16.3 | X | 132.42687 | 11.20656 | 282.37484 | 5.97824 | 0.0690649 | 0.26271898 | 2.4143955 | 21 | — | — |
| 278123 2007 $CM_{21}$ | 17.8 | X | 39.46120 | 279.33992 | 199.08306 | 2.43072 | 0.1939913 | 0.27903942 | 2.3193111 | 21 | — | — |
| 278124 2007 $CM_{28}$ | 17.5 | X | 227.57727 | 85.89662 | 175.78629 | 1.25733 | 0.1542131 | 0.26798669 | 2.3826517 | 21 | — | — |
| 278125 2007 $CG_{33}$ | 18.0 | X | 314.64782 | 67.06150 | 143.52242 | 3.65754 | 0.1570616 | 0.27557850 | 2.3386891 | 21 | — | — |
| 278126 2007 $CP_{34}$ | 17.4 | X | 139.96262 | 320.28759 | 110.24549 | 8.13646 | 0.0819543 | 0.28979130 | 2.2615828 | 21 | 4 5.7 | 20.4 |
| 278127 2007 $CG_{36}$ | 17.0 | X | 317.54689 | 44.81985 | 124.10206 | 7.18615 | 0.0425933 | 0.26927675 | 2.3750357 | 21 | — | — |
| 278128 2007 $CB_{40}$ | 17.8 | X | 352.30399 | 3.68041 | 142.47154 | 0.56183 | 0.0740583 | 0.27289613 | 2.3539892 | 21 | — | — |
| 278129 2007 $CT_{44}$ | 15.9 | X | 39.47038 | 284.81687 | 309.03566 | 12.90564 | 0.1213396 | 0.22831152 | 2.6512509 | 21 | 7 7.2 | 18.9 |
| 278130 2007 $CH_{45}$ | 17.3 | X | 12.44943 | 105.91367 | 23.46313 | 3.39388 | 0.1740765 | 0.27500572 | 2.3419353 | 21 | — | — |
| 278131 2007 $CZ_{45}$ | 16.7 | X | 326.53641 | 158.15196 | 239.29281 | 3.67937 | 0.2793014 | 0.25340534 | 2.4731979 | 21 | 10 17.0 | 17.9 |
| 278132 2007 $CD_{46}$ | 17.0 | X | 325.23956 | 58.11493 | 155.15952 | 6.53067 | 0.0834193 | 0.27906632 | 2.3191621 | 21 | 1 22.9 | 19.9 |
| 278133 2007 $CZ_{47}$ | 17.6 | X | 4.93027 | 222.73990 | 239.89837 | 1.68978 | 0.1718460 | 0.26941969 | 2.3741956 | 21 | — | — |
| 278134 2007 $CJ_{51}$ | 17.7 | X | 7.19760 | 266.47879 | 236.72006 | 3.18750 | 0.1514904 | 0.27680075 | 2.3317995 | 21 | — | — |
| 278135 2007 $CS_{51}$ | 16.5 | X | 158.43795 | 208.67521 | 355.06531 | 6.48167 | 0.0724253 | 0.24577214 | 2.5241449 | 21 | 10 19.7 | 20.2 |
| 278136 2007 $CF_{52}$ | 15.5 | X | 261.95863 | 41.33316 | 83.07433 | 12.03867 | 0.1179223 | 0.18415995 | 3.0596560 | 21 | 11 1.0 | 19.9 |
| 278137 2007 $CH_{52}$ | 17.3 | X | 66.66414 | 137.00718 | 353.92248 | 6.60978 | 0.0582318 | 0.28650708 | 2.2788329 | 21 | 3 8.5 | 19.5 |
| 278138 2007 $CU_{52}$ | 17.3 | X | 345.07855 | 179.11369 | 322.84963 | 1.79248 | 0.1470617 | 0.26907762 | 2.3762073 | 21 | — | — |
| 278139 2007 $CZ_{52}$ | 16.9 | X | 48.91785 | 125.43967 | 322.77098 | 6.20774 | 0.0916805 | 0.27344450 | 2.3508410 | 21 | — | — |
| 278140 2007 $CL_{59}$ | 17.1 | X | 20.30463 | 289.04687 | 210.81897 | 4.52130 | 0.1118651 | 0.27672900 | 2.3322026 | 21 | 1 1.9 | 19.5 |
| 278141 Tatooine | 17.1 | X | 319.98939 | 200.88269 | 338.88177 | 2.10602 | 0.1470146 | 0.26988984 | 2.3714375 | 21 | — | — |
| 278142 2007 $CG_{62}$ | 17.3 | X | 307.46735 | 289.21381 | 221.44127 | 8.31431 | 0.1539778 | 0.26509663 | 2.3999374 | 21 | — | — |
| 278143 2007 $CN_{62}$ | 17.3 | X | 323.70254 | 194.29208 | 324.06122 | 0.72351 | 0.1238544 | 0.26880585 | 2.3778086 | 21 | — | — |
| 278144 2007 $CX_{64}$ | 17.8 | X | 287.05555 | 162.07134 | 29.36441 | 2.40845 | 0.1262781 | 0.26608971 | 2.3939624 | 21 | — | — |
| 278145 2007 $CD_{66}$ | 15.1 | X | 179.66395 | 164.80154 | 349.50951 | 27.45695 | 0.1248414 | 0.17319509 | 3.1874667 | 21 | 9 7.6 | 20.1 |
| 278146 2007 $DW_2$ | 17.1 | X | 324.38733 | 159.15392 | 61.22846 | 3.84862 | 0.1113185 | 0.27882736 | 2.3204869 | 21 | 1 29.2 | 19.8 |
| 278147 2007 $DA_3$ | 17.7 | X | 288.71844 | 121.63751 | 22.71230 | 4.97411 | 0.1299149 | 0.26005655 | 2.4308464 | 21 | — | — |
| 278148 2007 $DP_5$ | 15.8 | X | 48.55115 | 319.81336 | 318.93926 | 8.49563 | 0.0607331 | 0.17469174 | 3.1692352 | 21 | 9 5.3 | 20.1 |
| 278149 2007 $DB_{12}$ | 17.0 | X | 345.74970 | 80.20618 | 115.77889 | 7.83861 | 0.0542590 | 0.28048582 | 2.3113308 | 21 | 2 3.3 | 19.7 |
| 278150 2007 $DO_{15}$ | 17.5 | X | 278.13943 | 212.66320 | 110.29803 | 6.81717 | 0.1496742 | 0.29132295 | 2.2536488 | 21 | 4 14.6 | 20.6 |
| 278151 2007 $DP_{17}$ | 17.8 | X | 320.93848 | 317.09807 | 159.05236 | 3.49825 | 0.1747426 | 0.26189685 | 2.4194456 | 21 | — | — |
| 278152 2007 $DD_{19}$ | 17.1 | X | 273.35839 | 117.52117 | 150.64798 | 2.87641 | 0.2048180 | 0.27450910 | 2.3447591 | 21 | 1 21.4 | 20.8 |
| 278153 2007 $DN_{19}$ | 17.2 | X | 233.66915 | 299.01971 | 152.34967 | 4.76778 | 0.1780124 | 0.24077071 | 2.5589803 | 21 | 8 9.9 | 21.1 |
| 278154 2007 $DR_{21}$ | 17.2 | X | 116.72598 | 61.80577 | 351.81757 | 6.45692 | 0.1729777 | 0.28027100 | 2.3125117 | 21 | 2 22.8 | 20.0 |
| 278155 2007 $DA_{23}$ | 17.8 | X | 219.54918 | 66.04132 | 198.50250 | 0.79743 | 0.1577364 | 0.26447366 | 2.4037046 | 21 | — | — |
| 278156 2007 $DZ_{28}$ | 17.8 | X | 230.03434 | 123.69195 | 143.53846 | 6.34571 | 0.1041606 | 0.26706116 | 2.3881535 | 21 | — | — |
| 278157 2007 $DM_{33}$ | 17.3 | X | 65.79531 | 296.69946 | 140.68262 | 4.37493 | 0.0739763 | 0.27167894 | 2.3610149 | 21 | — | — |
| 278158 2007 $DS_{33}$ | 16.9 | X | 33.06657 | 0.94777 | 159.06880 | 6.78398 | 0.0584054 | 0.27959586 | 2.3162329 | 21 | 2 24.9 | 19.5 |
| 278159 2007 $DA_{34}$ | 17.4 | X | 241.87417 | 122.10980 | 146.59848 | 2.90799 | 0.1816005 | 0.26701738 | 2.3884145 | 21 | — | — |
| 278160 2007 $DJ_{34}$ | 17.0 | X | 213.40309 | 266.74309 | 13.58087 | 1.99691 | 0.1952997 | 0.26394500 | 2.4069132 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278161 2007 $DH_{35}$ | 16.9 | X | 239.33983 | 243.25557 | 350.25426 | 6.26649 | 0.1428914 | 0.26160469 | 2.4212466 | 21 | — | — |
| 278162 2007 $DN_{35}$ | 17.1 | X | 46.90545 | 270.73187 | 166.04023 | 6.42757 | 0.0851643 | 0.26859889 | 2.3790299 | 21 | — | — |
| 278163 2007 $DO_{35}$ | 13.1 | X | 307.24191 | 141.80919 | 168.81687 | 23.44252 | 0.1100300 | 0.08414036 | 5.1578234 | 21 | 5 27.6 | 20.0 |
| 278164 2007 $DZ_{38}$ | 15.9 | X | 16.03601 | 226.85146 | 2.62295 | 12.53950 | 0.1166016 | 0.21741798 | 2.7390865 | 21 | 5 12.5 | 19.2 |
| 278165 2007 $DE_{41}$ | 17.4 | X | 257.31444 | 294.84761 | 168.25546 | 22.51186 | 0.0813857 | 0.38199703 | 1.8811759 | 21 | 11 5.4 | 19.4 |
| 278166 2007 $DY_{52}$ | 17.3 | X | 297.33829 | 359.21390 | 183.03164 | 5.91826 | 0.1241899 | 0.26481740 | 2.4016241 | 21 | — | — |
| 278167 2007 $DX_{54}$ | 17.7 | X | 335.98183 | 255.02171 | 245.01296 | 1.62441 | 0.1263058 | 0.26821208 | 2.3813167 | 21 | — | — |
| 278168 2007 $DE_{55}$ | 17.6 | X | 357.47107 | 324.65187 | 137.00627 | 3.05100 | 0.1778281 | 0.26661828 | 2.3907974 | 21 | — | — |
| 278169 2007 $DU_{55}$ | 17.4 | X | 348.59959 | 359.03352 | 114.86281 | 3.35796 | 0.1153404 | 0.26487839 | 2.4012555 | 21 | — | — |
| 278170 2007 $DE_{56}$ | 16.0 | X | 57.91294 | 47.28019 | 147.75750 | 12.40040 | 0.0591307 | 0.22216073 | 2.6999633 | 21 | 6 4.1 | 19.7 |
| 278171 2007 $DA_{71}$ | 17.5 | X | 192.08285 | 143.65635 | 131.52963 | 2.66821 | 0.1707589 | 0.25959763 | 2.4337104 | 21 | — | — |
| 278172 2007 $DM_{72}$ | 16.6 | X | 20.76773 | 266.52215 | 8.69381 | 4.26434 | 0.0228014 | 0.22951048 | 2.6420094 | 21 | 7 25.9 | 19.9 |
| 278173 2007 $DK_{82}$ | 17.3 | X | 95.31791 | 333.14423 | 13.82360 | 6.16224 | 0.1007530 | 0.25919150 | 2.4362520 | 21 | — | — |
| 278174 2007 $DR_{82}$ | 16.4 | X | 142.17392 | 116.21962 | 330.58895 | 6.07138 | 0.2805716 | 0.22430886 | 2.6826979 | 21 | 5 16.7 | 21.0 |
| 278175 2007 $DS_{82}$ | 17.0 | X | 56.74233 | 314.98492 | 169.63309 | 7.24343 | 0.0595270 | 0.27852520 | 2.3221649 | 21 | 2 11.4 | 19.6 |
| 278176 2007 $DX_{82}$ | 18.0 | X | 258.73563 | 261.25606 | 287.44457 | 0.40690 | 0.1315182 | 0.25846409 | 2.4408209 | 21 | — | — |
| 278177 2007 $DF_{86}$ | 17.5 | X | 328.02572 | 291.54268 | 207.60672 | 1.79240 | 0.1334589 | 0.26430367 | 2.4047352 | 21 | — | — |
| 278178 2007 $DT_{88}$ | 17.3 | X | 226.92683 | 148.78858 | 102.80801 | 2.23917 | 0.1571641 | 0.26330323 | 2.4108227 | 21 | — | — |
| 278179 2007 $DO_{90}$ | 15.9 | X | 310.93685 | 0.15943 | 345.94140 | 12.90133 | 0.1697566 | 0.23276868 | 2.6172971 | 21 | 7 3.3 | 19.2 |
| 278180 2007 $DC_{91}$ | 16.5 | X | 56.87658 | 190.22504 | 339.92109 | 4.42850 | 0.0473208 | 0.21955656 | 2.7212709 | 21 | 4 23.7 | 20.1 |
| 278181 2007 $DD_{92}$ | 17.4 | X | 309.87430 | 9.75163 | 0.17845 | 2.74933 | 0.0653236 | 0.23754887 | 2.5820664 | 21 | 8 19.1 | 20.4 |
| 278182 2007 $DV_{96}$ | 17.0 | X | 9.18067 | 154.64310 | 330.61142 | 5.97975 | 0.0399361 | 0.26896621 | 2.3768635 | 21 | — | — |
| 278183 2007 $DV_{97}$ | 17.5 | X | 283.60780 | 359.49066 | 193.05210 | 1.81561 | 0.1094535 | 0.26271458 | 2.4144225 | 21 | — | — |
| 278184 2007 $DR_{98}$ | 17.4 | X | 288.16562 | 92.48674 | 133.52603 | 1.91330 | 0.1411265 | 0.27150338 | 2.3620326 | 21 | — | — |
| 278185 2007 $DE_{99}$ | 16.9 | X | 305.46961 | 93.97297 | 133.23580 | 3.88889 | 0.1112146 | 0.27537808 | 2.3398237 | 21 | 1 13.2 | 20.0 |
| 278186 2007 $DB_{106}$ | 17.8 | X | 230.22051 | 215.10812 | 339.71649 | 0.98690 | 0.1765337 | 0.25365104 | 2.4716006 | 21 | 12 19.5 | 21.1 |
| 278187 2007 $DT_{110}$ | 17.2 | X | 257.54829 | 90.20499 | 134.94820 | 2.02907 | 0.1335494 | 0.26267450 | 2.4146681 | 21 | — | — |
| 278188 2007 $DW_{110}$ | 17.5 | X | 241.31500 | 74.71450 | 178.90890 | 2.73545 | 0.2490995 | 0.26423815 | 2.4051327 | 21 | — | — |
| 278189 2007 $DO_{114}$ | 17.1 | X | 193.24183 | 141.17896 | 137.17303 | 3.16162 | 0.1757729 | 0.25666890 | 2.4521887 | 21 | — | — |
| 278190 2007 $EP_{1}$ | 17.8 | X | 4.43871 | 282.28741 | 180.68382 | 2.16505 | 0.1603578 | 0.26841340 | 2.3801258 | 21 | — | — |
| 278191 2007 $EH_{2}$ | 17.6 | X | 179.27083 | 30.95269 | 333.94988 | 2.73369 | 0.1051427 | 0.27855194 | 2.3220163 | 21 | 2 22.6 | 20.9 |
| 278192 2007 $ED_{4}$ | 16.7 | X | 23.49382 | 252.47790 | 349.99683 | 2.45246 | 0.0449418 | 0.22245273 | 2.6976001 | 21 | 6 14.1 | 20.1 |
| 278193 2007 $EF_{4}$ | 17.4 | X | 41.21440 | 112.93120 | 323.88278 | 1.58187 | 0.1511398 | 0.26992696 | 2.3712201 | 21 | — | — |
| 278194 2007 $EC_{11}$ | 17.7 | X | 349.08158 | 147.29568 | 28.17614 | 1.98756 | 0.1212670 | 0.27560905 | 2.3385163 | 21 | 1 1.2 | 20.3 |
| 278195 2007 $ET_{11}$ | 16.6 | X | 290.92417 | 86.45874 | 85.68298 | 7.12485 | 0.0840650 | 0.26456974 | 2.4031226 | 21 | — | — |
| 278196 2007 $EJ_{12}$ | 16.7 | X | 267.02136 | 303.25435 | 290.42129 | 5.03335 | 0.1455760 | 0.26840020 | 2.3802039 | 21 | — | — |
| 278197 Touvron | 16.0 | X | 351.58386 | 255.11596 | 129.93998 | 9.56446 | 0.0717966 | 0.18440133 | 3.0569853 | 21 | 11 7.6 | 20.1 |
| 278198 2007 $EO_{12}$ | 17.0 | X | 278.95522 | 77.65147 | 84.40349 | 2.40884 | 0.1268804 | 0.25970825 | 2.4330193 | 21 | — | — |
| 278199 2007 $EU_{22}$ | 17.2 | X | 251.53411 | 79.83550 | 169.02567 | 4.58296 | 0.1502690 | 0.26593594 | 2.3948851 | 21 | — | — |
| 278200 Olegpopov | 16.6 | X | 322.29178 | 257.92587 | 183.75523 | 4.73941 | 0.1361289 | 0.18696340 | 3.0289933 | 21 | 12 1.7 | 20.2 |
| 278201 2007 $EL_{30}$ | 17.8 | X | 307.59712 | 17.23836 | 153.29027 | 4.30919 | 0.1747360 | 0.26501131 | 2.4004525 | 21 | — | — |
| 278202 2007 $EP_{30}$ | 17.6 | X | 258.60228 | 94.17019 | 127.85605 | 3.07321 | 0.1250391 | 0.26599148 | 2.3945518 | 21 | — | — |
| 278203 2007 $EY_{30}$ | 18.1 | X | 322.10947 | 341.76669 | 180.14848 | 2.68997 | 0.1171360 | 0.26866707 | 2.3786274 | 21 | — | — |
| 278204 2007 $EH_{34}$ | 17.4 | X | 300.00076 | 18.82258 | 102.08475 | 3.05820 | 0.1608217 | 0.25638456 | 2.4540014 | 21 | — | — |
| 278205 2007 $EJ_{34}$ | 15.9 | X | 74.43423 | 308.02096 | 9.47465 | 14.16141 | 0.0987510 | 0.24646086 | 2.5194403 | 21 | 12 11.6 | 19.8 |
| 278206 2007 $EM_{34}$ | 17.0 | X | 294.88248 | 66.37649 | 111.03828 | 3.79289 | 0.1192424 | 0.26350332 | 2.4096020 | 21 | — | — |
| 278207 2007 $EN_{36}$ | 17.0 | X | 147.58685 | 63.93585 | 91.01357 | 4.70215 | 0.0610017 | 0.29827134 | 2.2185116 | 21 | 8 9.0 | 19.8 |
| 278208 2007 $ED_{37}$ | 17.6 | X | 325.01659 | 323.10658 | 202.51531 | 2.19200 | 0.1164059 | 0.26691821 | 2.3890061 | 21 | — | — |
| 278209 2007 $ES_{37}$ | 17.1 | X | 322.53345 | 308.17980 | 185.39055 | 10.71415 | 0.0969988 | 0.26114349 | 2.4240965 | 21 | — | — |
| 278210 2007 $EQ_{38}$ | 17.2 | X | 203.86591 | 190.90486 | 70.90710 | 4.47034 | 0.1116029 | 0.25672499 | 2.4518315 | 21 | — | — |
| 278211 2007 $EX_{38}$ | 17.5 | X | 218.89012 | 217.27641 | 46.51211 | 2.82950 | 0.1942343 | 0.25938951 | 2.4350120 | 21 | — | — |
| 278212 2007 $EG_{42}$ | 17.2 | X | 315.61294 | 108.77227 | 1.57191 | 5.43743 | 0.0885026 | 0.25525245 | 2.4612521 | 21 | — | — |
| 278213 2007 $EL_{42}$ | 16.7 | X | 211.15444 | 263.77285 | 4.59525 | 7.05577 | 0.0877182 | 0.26149797 | 2.4219053 | 21 | — | — |
| 278214 2007 $EX_{42}$ | 16.3 | X | 316.50959 | 281.67297 | 8.43138 | 7.54100 | 0.1848287 | 0.21434721 | 2.7651848 | 21 | 4 18.6 | 19.7 |
| 278215 2007 $EF_{44}$ | 17.0 | X | 274.80584 | 9.02971 | 183.95193 | 10.38954 | 0.0722347 | 0.26114487 | 2.4240880 | 21 | — | — |
| 278216 2007 $EG_{47}$ | 17.4 | X | 289.72297 | 323.22746 | 217.65386 | 0.94877 | 0.1213102 | 0.26112675 | 2.4242002 | 21 | — | — |
| 278217 2007 $EK_{54}$ | 17.8 | X | 314.55918 | 54.34915 | 98.09787 | 2.39499 | 0.1225186 | 0.26601009 | 2.3944401 | 21 | — | — |
| 278218 2007 $EZ_{64}$ | 17.9 | X | 317.48059 | 63.34368 | 81.27729 | 2.07009 | 0.1327437 | 0.26264797 | 2.4148307 | 21 | — | — |
| 278219 2007 $EM_{68}$ | 16.8 | X | 301.72303 | 68.25419 | 124.05925 | 7.04449 | 0.0708974 | 0.26834207 | 2.3805476 | 21 | — | — |
| 278220 2007 $EU_{72}$ | 16.9 | X | 94.86220 | 43.39584 | 176.62833 | 12.99687 | 0.1010814 | 0.23053558 | 2.6341717 | 21 | 8 30.8 | 20.7 |
| 278221 2007 $ES_{78}$ | 16.2 | X | 106.35213 | 117.57951 | 95.53153 | 5.07406 | 0.1112539 | 0.23280980 | 2.6169889 | 21 | 9 9.7 | 20.0 |
| 278222 2007 $ED_{80}$ | 16.4 | X | 128.93471 | 207.03188 | 315.01031 | 5.29440 | 0.1520110 | 0.22813260 | 2.6526370 | 21 | 7 31.3 | 20.5 |
| 278223 2007 $EJ_{81}$ | 16.4 | X | 143.35026 | 123.08410 | 4.74893 | 13.82812 | 0.0668715 | 0.22577658 | 2.6710589 | 21 | 6 25.6 | 20.5 |
| 278224 2007 $EL_{85}$ | 16.5 | X | 226.76007 | 266.67816 | 202.31679 | 14.11360 | 0.0550004 | 0.23569085 | 2.5956187 | 21 | 9 4.9 | 20.2 |
| 278225 Didierpelat | 17.4 | X | 251.81182 | 79.67547 | 170.91716 | 5.72045 | 0.1083989 | 0.26661576 | 2.3908124 | 21 | — | — |
| 278226 2007 $EX_{89}$ | 17.2 | X | 11.62996 | 265.90559 | 165.88481 | 6.10650 | 0.0929051 | 0.26314854 | 2.4117673 | 21 | — | — |
| 278227 2007 $EX_{95}$ | 16.7 | X | 138.81201 | 270.34516 | 74.91341 | 3.50037 | 0.1963866 | 0.26168236 | 2.4207675 | 21 | — | — |
| 278228 2007 $EN_{98}$ | 17.2 | X | 110.32561 | 161.29915 | 32.25964 | 2.18655 | 0.1369263 | 0.23010461 | 2.6374597 | 21 | 8 20.8 | 21.1 |
| 278229 2007 $EV_{99}$ | 17.0 | X | 121.55609 | 166.33619 | 5.83161 | 1.67977 | 0.0186622 | 0.22921554 | 2.6442754 | 21 | 7 22.8 | 20.6 |
| 278230 2007 $EM_{108}$ | 16.1 | X | 229.22374 | 321.39667 | 40.30956 | 6.42112 | 0.0459049 | 0.21460931 | 2.7629330 | 21 | 4 23.1 | 20.1 |
| 278231 2007 $EB_{109}$ | 16.4 | X | 349.10447 | 218.36292 | 55.81739 | 4.19497 | 0.1606684 | 0.21725436 | 2.7404616 | 21 | 5 29.2 | 19.1 |
| 278232 2007 $EZ_{109}$ | 17.6 | X | 267.09030 | 3.63501 | 141.97465 | 4.45526 | 0.1551230 | 0.25187518 | 2.4832044 | 21 | 12 8.9 | 20.4 |
| 278233 2007 $ES_{114}$ | 17.1 | X | 209.79251 | 115.55478 | 137.25800 | 3.88286 | 0.1172257 | 0.25569206 | 2.4584302 | 21 | — | — |
| 278234 2007 $EE_{115}$ | 16.9 | X | 305.80760 | 324.43646 | 121.35798 | 3.65180 | 0.0624429 | 0.24524147 | 2.5277848 | 21 | 11 27.9 | 19.8 |
| 278235 2007 $EW_{119}$ | 17.3 | X | 229.76843 | 309.40354 | 176.77868 | 8.70957 | 0.1140040 | 0.23874747 | 2.5734172 | 21 | 9 28.3 | 20.9 |
| 278236 2007 $EX_{124}$ | 16.7 | X | 126.80124 | 41.08667 | 195.34471 | 13.48891 | 0.2022252 | 0.23501190 | 2.6006155 | 21 | 11 3.3 | 21.0 |
| 278237 2007 $EY_{125}$ | 16.6 | X | 78.88175 | 197.17290 | 50.78991 | 4.48048 | 0.0640817 | 0.23625866 | 2.5914583 | 21 | 9 15.9 | 20.0 |
| 278238 2007 $EJ_{139}$ | 17.1 | X | 207.38899 | 206.01420 | 74.97070 | 3.87993 | 0.1566497 | 0.26310672 | 2.4120229 | 21 | — | — |
| 278239 2007 $EL_{140}$ | 17.4 | X | 284.55753 | 219.35768 | 261.29804 | 2.09401 | 0.1251793 | 0.25495228 | 2.4631836 | 21 | 12 7.5 | 19.9 |
| 278240 2007 $EW_{140}$ | 16.9 | X | 116.45283 | 267.46612 | 299.91247 | 2.91688 | 0.1783326 | 0.23221333 | 2.6214684 | 21 | 9 15.3 | 21.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278241 2007 $EL_{144}$ | 17.2 | X | 5.09614 | 319.37122 | 100.09237 | 1.89854 | 0.1901632 | 0.25862996 | 2.4397772 | 21 | — | — |
| 278242 2007 $EN_{149}$ | 17.3 | X | 200.78530 | 261.45661 | 70.13893 | 4.06381 | 0.1933952 | 0.27278905 | 2.3546052 | 21 | 2 8.3 | 21.1 |
| 278243 2007 $EW_{149}$ | 17.1 | X | 206.58636 | 167.75865 | 126.94013 | 5.29829 | 0.1454038 | 0.26578134 | 2.3958138 | 21 | — | — |
| 278244 2007 $ED_{150}$ | 15.6 | X | 250.65478 | 316.77541 | 130.64671 | 5.77957 | 0.0995177 | 0.17053216 | 3.2205634 | 21 | 8 31.3 | 20.3 |
| 278245 2007 $ED_{152}$ | 16.5 | X | 265.01182 | 208.58490 | 135.12362 | 5.88406 | 0.1228051 | 0.22037717 | 2.7145113 | 21 | 5 5.0 | 20.5 |
| 278246 2007 $EP_{155}$ | 16.7 | X | 195.48910 | 13.00535 | 227.11812 | 5.75635 | 0.0875640 | 0.25296934 | 2.4760388 | 21 | — | — |
| 278247 2007 $EA_{167}$ | 15.8 | X | 100.60927 | 214.38453 | 19.60770 | 13.50449 | 0.1124182 | 0.23247238 | 2.6195206 | 21 | 9 30.2 | 19.6 |
| 278248 2007 $EZ_{167}$ | 17.3 | X | 118.41167 | 247.35860 | 42.06793 | 4.39851 | 0.1887237 | 0.24380088 | 2.5377327 | 21 | 12 28.4 | 21.5 |
| 278249 2007 $EH_{168}$ | 16.8 | X | 193.67257 | 270.51195 | 49.49227 | 5.02856 | 0.1537567 | 0.26487136 | 2.4012979 | 21 | 1 17.9 | 20.5 |
| 278250 2007 $EM_{170}$ | 17.8 | X | 293.08173 | 63.90636 | 139.66801 | 6.20668 | 0.1163988 | 0.26949369 | 2.3737610 | 21 | — | — |
| 278251 2007 $EF_{177}$ | 17.4 | X | 237.77743 | 304.77960 | 296.79083 | 1.94652 | 0.1439230 | 0.25954618 | 2.4340320 | 21 | — | — |
| 278252 2007 $EX_{189}$ | 17.0 | X | 114.09925 | 91.19880 | 234.28044 | 1.67188 | 0.1958841 | 0.25544167 | 2.4600365 | 21 | — | — |
| 278253 2007 $EP_{190}$ | 17.2 | X | 159.62909 | 274.84588 | 195.31957 | 5.89611 | 0.2779408 | 0.22978959 | 2.6398697 | 21 | 6 28.7 | 22.0 |
| 278254 2007 $EN_{191}$ | 17.0 | X | 33.77555 | 346.09083 | 25.35000 | 0.12359 | 0.0947552 | 0.24745899 | 2.5126610 | 21 | — | — |
| 278255 2007 $EF_{203}$ | 17.8 | X | 291.70787 | 85.02900 | 67.17660 | 3.01914 | 0.1482316 | 0.26052415 | 2.4279369 | 21 | — | — |
| 278256 2007 $EB_{212}$ | 17.9 | X | 343.19026 | 313.80742 | 183.65031 | 2.05721 | 0.1673677 | 0.26793337 | 2.3829678 | 21 | — | — |
| 278257 2007 $EW_{213}$ | 16.5 | X | 2.81650 | 162.55570 | 188.75904 | 12.57181 | 0.1142714 | 0.23792552 | 2.5793406 | 21 | 10 21.8 | 19.3 |
| 278258 2007 $EH_{214}$ | 17.3 | X | 259.59991 | 223.77652 | 340.95008 | 1.51781 | 0.1366070 | 0.26552841 | 2.3973349 | 21 | — | — |
| 278259 2007 $ER_{216}$ | 16.0 | X | 248.12320 | 133.37120 | 341.97747 | 29.84307 | 0.0206062 | 0.24206047 | 2.5498823 | 21 | 10 3.9 | 19.9 |
| 278260 2007 $ED_{221}$ | 16.4 | X | 39.24451 | 145.92391 | 48.24744 | 4.60273 | 0.0338738 | 0.21420527 | 2.7664062 | 21 | 5 2.2 | 20.0 |
| 278261 2007 $EL_{221}$ | 17.5 | X | 230.21600 | 56.36532 | 206.75254 | 2.33333 | 0.1507236 | 0.26109090 | 2.4244221 | 21 | — | — |
| 278262 2007 $ET_{221}$ | 17.5 | X | 206.00125 | 331.85231 | 354.54804 | 1.38005 | 0.2059956 | 0.27259148 | 2.3557427 | 21 | 2 5.6 | 21.2 |
| 278263 2007 $FQ_{7}$ | 17.1 | X | 10.68789 | 178.51603 | 248.67761 | 0.66565 | 0.1595703 | 0.26104109 | 2.4247305 | 21 | — | — |
| 278264 2007 $FN_{20}$ | 17.3 | X | 218.55395 | 255.58880 | 6.69277 | 2.22929 | 0.1558205 | 0.26061557 | 2.4273690 | 21 | — | — |
| 278265 2007 $FF_{23}$ | 17.4 | X | 249.05555 | 145.25634 | 56.79869 | 3.23630 | 0.1470830 | 0.25660388 | 2.4526029 | 21 | — | — |
| 278266 2007 $FV_{30}$ | 16.5 | X | 277.65775 | 40.31225 | 13.73439 | 9.62656 | 0.0528778 | 0.23418025 | 2.6067690 | 21 | 9 5.9 | 19.8 |
| 278267 2007 $FY_{30}$ | 17.5 | X | 97.66949 | 279.49911 | 16.28755 | 1.84417 | 0.1743162 | 0.24165414 | 2.5527398 | 21 | 12 16.8 | 21.5 |
| 278268 2007 $FK_{32}$ | 16.6 | X | 82.79266 | 77.10480 | 198.05643 | 15.52606 | 0.1714757 | 0.23292355 | 2.6161368 | 21 | 11 7.6 | 20.6 |
| 278269 2007 $FD_{34}$ | 17.6 | X | 151.61107 | 154.78028 | 4.18912 | 1.77943 | 0.1335455 | 0.23235678 | 2.6203893 | 21 | 8 18.4 | 21.6 |
| 278270 2007 $FE_{36}$ | 16.6 | X | 266.57974 | 195.59359 | 185.07532 | 4.28217 | 0.1252932 | 0.22748685 | 2.6576545 | 21 | 6 21.8 | 20.3 |
| 278271 2007 $FT_{37}$ | 17.1 | X | 223.27071 | 42.04439 | 189.30766 | 6.76652 | 0.1021960 | 0.25436900 | 2.4669476 | 21 | — | — |
| 278272 2007 $FS_{46}$ | 16.3 | X | 42.53473 | 186.14736 | 57.42419 | 6.95432 | 0.1613705 | 0.22327871 | 2.6909431 | 21 | 8 2.4 | 19.5 |
| 278273 2007 $FR_{47}$ | 16.4 | X | 68.49857 | 55.96289 | 209.23902 | 7.54016 | 0.2080958 | 0.22800930 | 2.6535932 | 21 | 10 12.4 | 20.2 |
| 278274 2007 $FU_{49}$ | 15.7 | X | 12.75155 | 107.89783 | 117.08422 | 9.53056 | 0.0897813 | 0.21250455 | 2.7811467 | 21 | 5 9.4 | 19.1 |
| 278275 2007 $GF_{2}$ | 17.2 | X | 327.35608 | 204.88722 | 221.84687 | 1.66028 | 0.0625641 | 0.24483969 | 2.5305495 | 21 | 12 4.4 | 20.0 |
| 278276 2007 $GF_{10}$ | 17.4 | X | 344.00251 | 87.31439 | 65.42054 | 5.98759 | 0.0901652 | 0.26819958 | 2.3813907 | 21 | — | — |
| 278277 2007 $GO_{17}$ | 17.1 | X | 254.86873 | 178.62934 | 322.50608 | 2.18759 | 0.1455952 | 0.24585918 | 2.5235491 | 21 | 11 13.6 | 20.1 |
| 278278 2007 $GT_{17}$ | 16.4 | X | 176.21443 | 342.06950 | 230.58412 | 6.51198 | 0.1066043 | 0.24196537 | 2.5505504 | 21 | 11 19.3 | 20.2 |
| 278279 2007 $GV_{19}$ | 16.6 | X | 206.93270 | 284.78802 | 224.33069 | 11.99603 | 0.1507294 | 0.23733329 | 2.5836297 | 21 | 9 24.9 | 20.7 |
| 278280 2007 $GF_{23}$ | 17.2 | X | 77.95599 | 112.54769 | 206.21141 | 5.52789 | 0.1082109 | 0.24014658 | 2.5634122 | 21 | 12 19.1 | 20.9 |
| 278281 2007 $GM_{24}$ | 16.9 | X | 154.75613 | 204.18833 | 84.41044 | 6.40949 | 0.2216611 | 0.24612775 | 2.5217130 | 21 | — | — |
| 278282 2007 $GC_{27}$ | 16.6 | X | 102.51193 | 149.28374 | 182.72293 | 7.91897 | 0.1907953 | 0.24424149 | 2.5346797 | 21 | — | — |
| 278283 2007 $GO_{27}$ | 15.3 | X | 192.19547 | 145.60462 | 110.44553 | 9.96712 | 0.0881506 | 0.18121832 | 3.0926775 | 21 | — | — |
| 278284 2007 $GE_{28}$ | 16.5 | X | 106.43345 | 164.02430 | 62.81996 | 13.31118 | 0.1534560 | 0.23289563 | 2.6163459 | 21 | 10 5.9 | 20.7 |
| 278285 2007 $GP_{33}$ | 17.2 | X | 256.29333 | 261.97941 | 208.10814 | 8.08814 | 0.1238996 | 0.23961745 | 2.5671845 | 21 | 10 7.5 | 20.5 |
| 278286 2007 $GZ_{36}$ | 17.3 | X | 208.61175 | 42.93578 | 94.74555 | 3.47519 | 0.1383097 | 0.23672673 | 2.5880412 | 21 | 9 18.4 | 21.2 |
| 278287 2007 $GZ_{38}$ | 16.8 | X | 320.39789 | 84.96229 | 197.29457 | 8.01531 | 0.1910993 | 0.21054046 | 2.7984164 | 21 | 4 15.6 | 20.3 |
| 278288 2007 $GS_{42}$ | 16.7 | X | 337.39488 | 168.84252 | 214.96402 | 8.63468 | 0.0655109 | 0.23581346 | 2.5947190 | 21 | 10 19.9 | 19.8 |
| 278289 2007 $GN_{44}$ | 17.0 | X | 19.52909 | 156.64498 | 194.74826 | 4.90760 | 0.0334509 | 0.23683975 | 2.5872178 | 21 | 11 6.5 | 20.2 |
| 278290 2007 $GU_{47}$ | 16.6 | X | 47.64760 | 269.09896 | 51.37983 | 12.81628 | 0.2019544 | 0.23069233 | 2.6329783 | 21 | 11 25.9 | 20.1 |
| 278291 2007 $GF_{50}$ | 16.2 | X | 143.95883 | 203.61202 | 14.92208 | 14.09095 | 0.1174962 | 0.23692533 | 2.5865947 | 21 | 10 22.0 | 20.3 |
| 278292 2007 $GT_{50}$ | 16.1 | X | 187.29100 | 193.93583 | 23.88258 | 11.77352 | 0.0766112 | 0.24483186 | 2.5306035 | 21 | 12 8.1 | 19.9 |
| 278293 2007 $GG_{51}$ | 17.1 | X | 197.08374 | 82.57916 | 117.19031 | 3.83247 | 0.0872400 | 0.24201256 | 2.5502188 | 21 | 11 27.7 | 20.7 |
| 278294 2007 $GS_{51}$ | 17.3 | X | 246.65800 | 58.18118 | 177.60294 | 6.48518 | 0.1603791 | 0.26150932 | 2.4218353 | 21 | — | — |
| 278295 2007 $GX_{60}$ | 17.2 | X | 226.01385 | 263.39546 | 250.72029 | 3.43565 | 0.1433089 | 0.24271363 | 2.5453056 | 21 | 10 25.4 | 20.8 |
| 278296 2007 $GL_{61}$ | 16.9 | X | 356.35412 | 307.67830 | 303.16686 | 3.03282 | 0.0504626 | 0.21375415 | 2.7702971 | 21 | 5 14.9 | 20.5 |
| 278297 2007 $GT_{63}$ | 17.4 | X | 164.42283 | 218.89643 | 34.16786 | 4.51904 | 0.0860771 | 0.24547023 | 2.5262141 | 21 | 12 28.6 | 21.1 |
| 278298 2007 $GU_{63}$ | 17.2 | X | 136.36326 | 48.20328 | 216.97610 | 9.38302 | 0.1665923 | 0.24100267 | 2.5573381 | 21 | 12 13.9 | 21.4 |
| 278299 2007 $GB_{64}$ | 17.0 | X | 78.50632 | 275.09480 | 40.28143 | 4.75511 | 0.1467970 | 0.23847458 | 2.5753800 | 21 | 12 19.0 | 20.9 |
| 278300 2007 $GB_{65}$ | 16.4 | X | 68.02359 | 245.75273 | 32.62893 | 13.02157 | 0.1221716 | 0.23055586 | 2.6340172 | 21 | 10 18.9 | 20.0 |
| 278301 2007 $GZ_{76}$ | 16.5 | X | 332.54074 | 340.27608 | 151.54108 | 7.09557 | 0.0649783 | 0.25849712 | 2.4406129 | 21 | — | — |
| 278302 2007 $GO_{77}$ | 16.4 | X | 42.63221 | 230.39511 | 103.26501 | 8.76034 | 0.1547267 | 0.23358578 | 2.6111898 | 21 | 12 2.5 | 19.8 |
| 278303 2007 $HY$ | 16.9 | X | 221.27487 | 330.42036 | 178.09806 | 8.02605 | 0.0933191 | 0.24005613 | 2.5640560 | 21 | 10 21.0 | 20.5 |
| 278304 2007 $HD_{8}$ | 16.9 | X | 217.04067 | 296.27139 | 32.33058 | 2.29886 | 0.0635506 | 0.20335989 | 2.8639088 | 21 | 2 27.9 | 21.1 |
| 278305 2007 $HX_{9}$ | 17.0 | X | 74.28878 | 281.23280 | 33.02434 | 4.55311 | 0.2438293 | 0.23866807 | 2.5739879 | 21 | 12 23.1 | 21.0 |
| 278306 2007 $HG_{11}$ | 17.0 | X | 105.58831 | 247.73197 | 47.56489 | 8.21474 | 0.2136386 | 0.23861970 | 2.5743357 | 21 | 12 24.7 | 21.3 |
| 278307 2007 $HS_{12}$ | 17.3 | X | 160.94152 | 308.75927 | 6.93017 | 1.13249 | 0.1885624 | 0.26091526 | 2.4255100 | 21 | — | — |
| 278308 2007 $HZ_{12}$ | 16.3 | X | 35.76067 | 97.17320 | 175.89916 | 12.49036 | 0.1479769 | 0.22481872 | 2.6786403 | 21 | 8 26.9 | 19.4 |
| 278309 2007 $HP_{15}$ | 16.3 | X | 56.80357 | 194.32089 | 70.27948 | 16.33910 | 0.3307991 | 0.22330496 | 2.6907322 | 21 | 10 22.3 | 20.4 |
| 278310 2007 $HH_{17}$ | 15.7 | X | 39.50676 | 138.00921 | 63.40789 | 14.29694 | 0.1394644 | 0.21463903 | 2.7626779 | 21 | 5 22.3 | 18.7 |
| 278311 2007 $HA_{19}$ | 17.4 | X | 359.00522 | 105.13926 | 14.22803 | 1.70025 | 0.1417162 | 0.26957069 | 2.3733089 | 21 | — | — |
| 278312 2007 $HP_{19}$ | 16.3 | X | 152.97144 | 284.61127 | 61.68394 | 4.43644 | 0.0570167 | 0.19169452 | 2.9789480 | 21 | 1 12.2 | 20.6 |
| 278313 2007 $HS_{23}$ | 17.2 | X | 49.43274 | 350.74782 | 198.31988 | 3.11805 | 0.0885926 | 0.21250268 | 2.7811630 | 21 | 5 16.2 | 20.5 |
| 278314 2007 $HP_{25}$ | 17.0 | X | 100.11435 | 235.35637 | 36.96204 | 4.57419 | 0.1510654 | 0.23582461 | 2.5946372 | 21 | 11 17.8 | 21.0 |
| 278315 2007 $HY_{25}$ | 16.8 | X | 107.54307 | 125.10752 | 200.11967 | 4.75551 | 0.1966901 | 0.24384831 | 2.5374036 | 21 | — | — |
| 278316 2007 $HP_{27}$ | 17.1 | X | 99.81469 | 251.79085 | 51.84934 | 7.97604 | 0.1992886 | 0.23868818 | 2.5738433 | 21 | 12 29.3 | 21.4 |
| 278317 2007 $HV_{33}$ | 17.0 | X | 56.97722 | 338.35840 | 25.34490 | 3.29584 | 0.0727034 | 0.24624886 | 2.5208861 | 21 | — | — |
| 278318 2007 $HR_{39}$ | 17.6 | X | 248.35797 | 63.36644 | 125.51320 | 4.46738 | 0.1288913 | 0.25341691 | 2.4731226 | 21 | — | — |
| 278319 2007 $HG_{40}$ | 16.2 | X | 158.03267 | 301.86995 | 78.53989 | 3.21302 | 0.0807225 | 0.20250293 | 2.8719829 | 21 | 3 1.3 | 20.4 |
| 278320 2007 $HT_{45}$ | 17.4 | X | 147.01016 | 137.75507 | 150.04113 | 2.54345 | 0.0942455 | 0.24666139 | 2.5180746 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278321 2007 $HY_{45}$ | 16.8 | X | 266.96472 | 70.28824 | 123.10905 | 6.74113 | 0.0786211 | 0.25701765 | 2.4499699 | 21 | — | — |
| 278322 2007 $HT_{46}$ | 16.6 | X | 53.98975 | 237.62320 | 63.78709 | 7.22223 | 0.3206629 | 0.22846634 | 2.6500531 | 21 | 11 25.8 | 20.4 |
| 278323 2007 $HU_{47}$ | 16.9 | X | 145.15715 | 187.10858 | 60.17101 | 6.94486 | 0.0892200 | 0.24097049 | 2.5575658 | 21 | 11 30.1 | 20.8 |
| 278324 2007 $HX_{51}$ | 16.3 | X | 88.44254 | 113.04506 | 197.63002 | 8.94673 | 0.2159135 | 0.23789979 | 2.5795266 | 21 | 12 28.2 | 20.6 |
| 278325 2007 $HB_{54}$ | 15.5 | X | 268.80620 | 58.84960 | 72.24213 | 6.72182 | 0.0276166 | 0.17746755 | 3.1361013 | 21 | 11 25.0 | 19.8 |
| 278326 2007 $HX_{54}$ | 16.9 | X | 198.72996 | 100.90682 | 171.90915 | 8.65942 | 0.1927855 | 0.25431555 | 2.4672932 | 21 | — | — |
| 278327 2007 $HA_{59}$ | 15.2 | X | 293.37462 | 17.62435 | 57.11523 | 54.47591 | 0.7253775 | 0.24731455 | 2.5136392 | 21 | 6 23.6 | 20.5 |
| 278328 2007 $HX_{60}$ | 16.6 | X | 146.88964 | 119.56822 | 101.21521 | 5.28606 | 0.1790751 | 0.23691349 | 2.5866809 | 21 | 11 1.6 | 21.0 |
| 278329 2007 $HJ_{66}$ | 16.3 | X | 43.16764 | 118.79098 | 208.63631 | 14.75597 | 0.1482447 | 0.23181475 | 2.6244724 | 21 | 11 23.6 | 19.8 |
| 278330 2007 $HN_{66}$ | 16.3 | X | 306.72640 | 299.70539 | 85.83401 | 12.15353 | 0.1148902 | 0.22601402 | 2.6691878 | 21 | 9 3.5 | 19.7 |
| 278331 2007 $HY_{68}$ | 16.4 | X | 156.39333 | 93.51485 | 173.57930 | 13.15329 | 0.1936980 | 0.24264339 | 2.5457968 | 21 | — | — |
| 278332 2007 $HL_{69}$ | 16.2 | X | 305.84616 | 169.66595 | 166.48794 | 6.69814 | 0.0824439 | 0.21751003 | 2.7383136 | 21 | 6 22.5 | 19.8 |
| 278333 2007 $HK_{77}$ | 16.9 | X | 108.22572 | 198.36233 | 111.90197 | 3.90633 | 0.2295743 | 0.24234910 | 2.5478574 | 21 | — | — |
| 278334 2007 $HQ_{79}$ | 16.2 | X | 74.97092 | 125.54476 | 140.18773 | 13.31854 | 0.1616976 | 0.22807882 | 2.6530539 | 21 | 10 20.0 | 20.2 |
| 278335 2007 $HW_{79}$ | 16.8 | X | 112.65686 | 313.00543 | 209.90593 | 12.68896 | 0.1370051 | 0.22119682 | 2.7078013 | 21 | 7 10.5 | 21.0 |
| 278336 2007 $HO_{84}$ | 17.1 | X | 201.61869 | 118.59913 | 55.53525 | 6.54583 | 0.0734500 | 0.24011394 | 2.5636445 | 21 | 11 1.6 | 20.8 |
| 278337 2007 $HT_{87}$ | 16.5 | X | 95.86340 | 248.49455 | 58.64334 | 12.52450 | 0.1968517 | 0.23960167 | 2.5672972 | 21 | 12 29.7 | 20.8 |
| 278338 2007 $HQ_{90}$ | 18.0 | X | 247.17904 | 162.50294 | 45.61568 | 2.04714 | 0.1354156 | 0.25575539 | 2.4580244 | 21 | — | — |
| 278339 2007 $HF_{91}$ | 16.5 | X | 116.09881 | 150.94422 | 49.10693 | 4.74438 | 0.0309615 | 0.22541159 | 2.6739414 | 21 | 8 25.7 | 20.1 |
| 278340 2007 $HS_{97}$ | 15.8 | X | 207.97123 | 247.80188 | 234.57416 | 21.08796 | 0.0511507 | 0.22775364 | 2.6555786 | 21 | 8 24.3 | 20.1 |
| 278341 2007 $JH$ | 16.5 | X | 6.14837 | 235.13808 | 180.98057 | 14.87712 | 0.1086662 | 0.24385144 | 2.5373819 | 21 | — | — |
| 278342 2007 $JS$ | 16.2 | X | 311.72469 | 221.57812 | 170.14828 | 14.12996 | 0.0809068 | 0.22768319 | 2.6561264 | 21 | 9 18.9 | 19.3 |
| 278343 2007 $JU$ | 16.1 | X | 2.49689 | 185.74042 | 184.06006 | 15.87701 | 0.1148883 | 0.23235843 | 2.6203769 | 21 | 11 16.1 | 19.3 |
| 278344 2007 $JV_{1}$ | 17.0 | X | 135.23631 | 226.60432 | 45.26178 | 8.50435 | 0.2145206 | 0.24115877 | 2.5562344 | 21 | 12 20.8 | 21.5 |
| 278345 2007 $JA_{3}$ | 16.7 | X | 154.90234 | 146.74692 | 64.21113 | 7.56242 | 0.2288244 | 0.23635250 | 2.5907723 | 21 | 10 27.4 | 21.2 |
| 278346 2007 $JK_{4}$ | 16.4 | X | 48.70779 | 242.63574 | 53.46155 | 13.25705 | 0.1770306 | 0.22812958 | 2.6526603 | 21 | 10 27.0 | 19.8 |
| 278347 2007 $JW_{10}$ | 17.3 | X | 169.56289 | 332.77041 | 242.53139 | 3.61689 | 0.1827695 | 0.23983978 | 2.5655978 | 21 | 11 12.3 | 21.3 |
| 278348 2007 $JH_{13}$ | 15.9 | X | 262.82255 | 224.41298 | 160.77441 | 16.36224 | 0.1450995 | 0.21455047 | 2.7634380 | 21 | 6 21.6 | 20.2 |
| 278349 2007 $JV_{16}$ | 16.6 | X | 63.31772 | 248.05367 | 71.50154 | 8.59632 | 0.2176632 | 0.23307703 | 2.6149882 | 21 | 12 15.4 | 20.4 |
| 278350 2007 $JL_{18}$ | 15.8 | X | 92.09447 | 207.54296 | 125.46904 | 16.16668 | 0.2169796 | 0.24038579 | 2.5617113 | 21 | — | — |
| 278351 2007 $JX_{22}$ | 16.2 | X | 70.61178 | 76.68596 | 244.55951 | 12.97605 | 0.1737693 | 0.23553443 | 2.5967678 | 21 | 12 20.1 | 20.1 |
| 278352 2007 $JL_{23}$ | 16.1 | X | 164.14195 | 72.02286 | 156.96073 | 6.62715 | 0.2097124 | 0.23971779 | 2.5664681 | 21 | 11 24.9 | 20.5 |
| 278353 2007 $JL_{24}$ | 16.1 | X | 126.25414 | 67.62914 | 174.85066 | 15.14132 | 0.0677377 | 0.23393399 | 2.6085981 | 21 | 11 5.6 | 20.1 |
| 278354 2007 $JO_{24}$ | 15.7 | X | 139.82802 | 188.52965 | 118.17569 | 16.66379 | 0.2508679 | 0.17424143 | 3.1746932 | 21 | — | — |
| 278355 2007 $JF_{26}$ | 16.1 | X | 194.68494 | 141.87447 | 195.52371 | 7.95040 | 0.0528111 | 0.19479475 | 2.9472562 | 21 | 2 12.6 | 20.6 |
| 278356 2007 $JZ_{26}$ | 16.5 | X | 205.47351 | 310.14420 | 205.53955 | 8.63111 | 0.0586555 | 0.23389657 | 2.6088763 | 21 | 10 12.8 | 20.3 |
| 278357 2007 $JD_{29}$ | 17.0 | X | 48.88454 | 136.38031 | 169.74317 | 6.45822 | 0.2190893 | 0.22798291 | 2.6537980 | 21 | 11 14.1 | 20.6 |
| 278358 2007 $JH_{32}$ | 16.5 | X | 110.70449 | 209.13916 | 77.31819 | 6.91772 | 0.1256495 | 0.23845412 | 2.5755273 | 21 | 12 14.3 | 20.3 |
| 278359 2007 $JT_{37}$ | 16.9 | X | 60.57326 | 269.97141 | 12.35852 | 4.68852 | 0.0502339 | 0.23248660 | 2.6194138 | 21 | 10 2.9 | 20.4 |
| 278360 2007 $JU_{40}$ | 16.1 | X | 23.47996 | 92.86147 | 190.87612 | 9.61323 | 0.2082808 | 0.21960539 | 2.7208675 | 21 | 8 27.8 | 18.9 |
| 278361 2007 $JJ_{43}$ | 4.5 | X | 342.86150 | 8.41844 | 272.56797 | 12.03215 | 0.1643661 | 0.00294256 | 48.2302398 | 21 | 6 7.7 | 20.6 |
| 278362 2007 $KZ_{1}$ | 16.5 | X | 63.47500 | 338.76228 | 254.28435 | 11.66342 | 0.1209853 | 0.22070632 | 2.7118117 | 21 | 8 6.2 | 20.2 |
| 278363 2007 $KE_{2}$ | 16.0 | X | 137.82558 | 180.80857 | 118.79529 | 13.97019 | 0.2369238 | 0.24277290 | 2.5448913 | 21 | — | — |
| 278364 2007 $KL_{3}$ | 17.1 | X | 146.76039 | 287.59930 | 3.71309 | 2.30273 | 0.2066041 | 0.24467920 | 2.5316559 | 21 | — | — |
| 278365 2007 $KR_{7}$ | 16.1 | X | 6.35214 | 69.49421 | 206.32900 | 14.30433 | 0.2029156 | 0.21461581 | 2.7628771 | 21 | 7 6.3 | 19.0 |
| 278366 2007 $KJ_{8}$ | 15.9 | X | 36.55078 | 47.65997 | 191.88921 | 18.78497 | 0.2545804 | 0.21647743 | 2.7470146 | 21 | 7 24.7 | 19.2 |
| 278367 2007 $KP_{9}$ | 16.7 | X | 128.17675 | 106.75012 | 171.24964 | 12.10905 | 0.2771275 | 0.23742596 | 2.5829574 | 21 | 12 23.5 | 21.6 |
| 278368 2007 $LU_{1}$ | 16.5 | X | 166.25270 | 113.34522 | 139.86245 | 5.44722 | 0.1704862 | 0.24311627 | 2.5424945 | 21 | 12 25.8 | 20.6 |
| 278369 2007 $LF_{5}$ | 16.2 | X | 357.35533 | 217.65007 | 125.82693 | 15.89018 | 0.1884394 | 0.22624334 | 2.6673838 | 21 | 10 10.9 | 19.1 |
| 278370 2007 $LU_{5}$ | 16.5 | X | 257.77608 | 289.32434 | 194.04641 | 8.38140 | 0.1173582 | 0.23799212 | 2.5788594 | 21 | 10 30.0 | 19.8 |
| 278371 2007 $LK_{7}$ | 16.7 | X | 328.76884 | 172.71698 | 186.04447 | 5.25854 | 0.1550501 | 0.22317353 | 2.6917885 | 21 | 8 23.2 | 19.6 |
| 278372 2007 $LP_{7}$ | 16.3 | X | 16.87846 | 230.96926 | 95.66893 | 12.40036 | 0.1862291 | 0.22470590 | 2.6795368 | 21 | 10 23.7 | 19.5 |
| 278373 2007 $LU_{8}$ | 16.5 | X | 315.02161 | 239.72826 | 135.13562 | 6.11377 | 0.0896387 | 0.22446245 | 2.6814739 | 21 | 8 30.9 | 19.6 |
| 278374 2007 $LO_{9}$ | 16.1 | X | 293.22666 | 325.39567 | 89.37442 | 13.01920 | 0.1820679 | 0.22819798 | 2.6521302 | 21 | 9 13.7 | 19.4 |
| 278375 2007 $LJ_{10}$ | 16.5 | X | 342.69353 | 142.47988 | 181.65962 | 13.19923 | 0.1780305 | 0.21817417 | 2.7327537 | 21 | 7 27.2 | 19.4 |
| 278376 2007 $LZ_{16}$ | 16.4 | X | 288.75982 | 139.38135 | 236.98109 | 11.44149 | 0.1273463 | 0.22028479 | 2.7152701 | 21 | 7 13.0 | 20.1 |
| 278377 2007 $LJ_{20}$ | 17.0 | X | 167.58011 | 7.45241 | 188.11472 | 5.46719 | 0.1969833 | 0.23556899 | 2.5965138 | 21 | 10 17.9 | 21.3 |
| 278378 2007 $LD_{24}$ | 16.1 | X | 203.37418 | 137.70639 | 181.15409 | 10.64965 | 0.0988237 | 0.19197398 | 2.9760562 | 21 | 1 31.9 | 20.9 |
| 278379 2007 $LU_{26}$ | 16.2 | X | 51.99322 | 171.13565 | 131.68628 | 13.59278 | 0.1189455 | 0.22294779 | 2.6936052 | 21 | 11 2.2 | 20.1 |
| 278380 2007 $LU_{28}$ | 16.8 | X | 104.55107 | 147.64820 | 128.75635 | 8.30294 | 0.1654974 | 0.23443991 | 2.6048438 | 21 | 11 30.1 | 21.0 |
| 278381 2007 $MR$ | 21.9 | X | 107.75841 | 217.65901 | 172.76269 | 5.82764 | 0.2587777 | 0.95248460 | 1.0230513 | 21 | — | — |
| 278382 2007 $MO_{7}$ | 17.0 | X | 76.67665 | 49.45692 | 196.27350 | 2.86287 | 0.0374571 | 0.22425212 | 2.6831503 | 21 | 9 1.7 | 20.7 |
| 278383 2007 $MN_{16}$ | 15.7 | X | 28.61551 | 167.86926 | 182.76614 | 15.39028 | 0.1291989 | 0.23180624 | 2.6245366 | 21 | 12 1.7 | 19.3 |
| 278384 Mudanjiang | 16.6 | X | 35.10412 | 231.53000 | 72.70517 | 5.45732 | 0.1957387 | 0.21971892 | 2.7199301 | 21 | 10 19.3 | 19.8 |
| 278385 2007 $MA_{24}$ | 14.9 | X | 209.68338 | 186.34696 | 194.13940 | 19.74765 | 0.3637081 | 0.18527533 | 3.0473639 | 21 | 4 19.4 | 20.7 |
| 278386 Sofivanna | 16.2 | X | 51.21246 | 173.48506 | 141.82034 | 14.99271 | 0.2518307 | 0.22392883 | 2.6857322 | 21 | 12 3.7 | 20.3 |
| 278387 2007 $OM$ | 16.3 | X | 63.96084 | 160.44852 | 152.46453 | 14.13261 | 0.2492352 | 0.22371938 | 2.6874083 | 21 | 12 12.2 | 20.7 |
| 278388 2007 $OV_{1}$ | 16.2 | X | 45.11303 | 222.23383 | 110.11111 | 14.20187 | 0.2681123 | 0.22449774 | 2.6811929 | 21 | 12 17.9 | 20.1 |
| 278389 2007 $PZ_{9}$ | 17.1 | X | 309.13160 | 267.12903 | 22.74843 | 2.89333 | 0.1894965 | 0.26930579 | 2.3748650 | 21 | 4 1.9 | 20.0 |
| 278390 2007 $PK_{11}$ | 16.6 | X | 241.33660 | 149.02609 | 147.30313 | 1.42197 | 0.1694521 | 0.18455510 | 3.0552870 | 21 | 2 10.4 | 21.6 |
| 278391 2007 $PL_{14}$ | 17.0 | X | 318.54831 | 251.40787 | 103.78548 | 7.67160 | 0.1382175 | 0.28082797 | 2.3094531 | 21 | 8 6.4 | 19.0 |
| 278392 2007 $PN_{25}$ | 16.8 | X | 20.12442 | 83.73725 | 215.41832 | 4.25831 | 0.2433720 | 0.21396778 | 2.7684529 | 21 | 9 18.7 | 19.6 |
| 278393 2007 $PS_{26}$ | 16.6 | X | 314.12457 | 339.57758 | 248.73065 | 4.17122 | 0.0771707 | 0.25898943 | 2.4375191 | 21 | 2 1.6 | 19.8 |
| 278394 2007 $PB_{30}$ | 15.7 | X | 209.35647 | 180.68540 | 151.68810 | 11.67981 | 0.1434227 | 0.18262489 | 3.0767774 | 21 | 2 25.7 | 20.5 |
| 278395 2007 $PP_{38}$ | 16.8 | X | 99.91933 | 253.83598 | 20.70423 | 6.66355 | 0.3305726 | 0.22824058 | 2.6518002 | 21 | 11 30.4 | 21.7 |
| 278396 2007 $PD_{47}$ | 16.0 | X | 270.50044 | 166.83819 | 161.45786 | 10.57296 | 0.1062797 | 0.19344835 | 2.9609156 | 21 | 4 26.7 | 20.4 |
| 278397 2007 $QZ_{1}$ | 15.8 | X | 321.38502 | 240.79675 | 132.48390 | 15.18882 | 0.2560293 | 0.21212182 | 2.7844910 | 21 | 8 18.5 | 18.3 |
| 278398 2007 $QF_{5}$ | 15.9 | X | 187.84026 | 56.64172 | 273.16022 | 8.43962 | 0.0863148 | 0.17772178 | 3.1331097 | 21 | 1 31.3 | 20.8 |
| 278399 2007 $QJ_{7}$ | 16.0 | X | 188.83083 | 190.00211 | 161.68204 | 8.39255 | 0.1500305 | 0.18161298 | 3.0881956 | 21 | 3 1.9 | 21.0 |
| 278400 2007 $QL_{8}$ | 15.5 | X | 165.25825 | 212.17795 | 154.92449 | 10.74149 | 0.1416281 | 0.17782291 | 3.1319217 | 21 | 2 27.1 | 20.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278401 2007 $QD_{10}$ | 16.7 | X | 68.92385 | 121.84531 | 160.84369 | 9.64219 | 0.2660811 | 0.22001860 | 2.7174597 | 21 | 11 12.9 | 21.0 |
| 278402 2007 $QA_{13}$ | 15.9 | X | 28.70688 | 141.29138 | 155.77213 | 15.54609 | 0.1410494 | 0.21581892 | 2.7525996 | 21 | 9 19.9 | 19.1 |
| 278403 2007 $QT_{16}$ | 15.7 | X | 244.03449 | 146.15239 | 173.66380 | 14.29486 | 0.0978495 | 0.18668915 | 3.0319590 | 21 | 3 17.1 | 20.1 |
| 278404 2007 $QH_{17}$ | 16.1 | X | 245.65679 | 76.61440 | 231.64355 | 2.75517 | 0.1888598 | 0.18545793 | 3.0453633 | 21 | 2 25.4 | 21.0 |
| 278405 2007 $RA_{6}$ | 17.3 | X | 61.63850 | 72.05023 | 201.91968 | 6.52284 | 0.1892587 | 0.28665533 | 2.2780471 | 21 | 10 21.3 | 20.2 |
| 278406 2007 $RV_{6}$ | 15.6 | X | 133.92919 | 211.50400 | 184.06428 | 9.81211 | 0.0587866 | 0.17932657 | 3.1143897 | 21 | 2 18.3 | 20.2 |
| 278407 2007 $RC_{7}$ | 15.7 | X | 151.64751 | 217.08337 | 171.26295 | 11.05499 | 0.2255713 | 0.17682735 | 3.1436662 | 21 | 3 17.5 | 20.8 |
| 278408 2007 $RC_{22}$ | 15.5 | X | 210.23754 | 215.62968 | 143.12012 | 9.98464 | 0.1110052 | 0.18687094 | 3.0299924 | 21 | 4 1.3 | 20.3 |
| 278409 2007 $RJ_{33}$ | 15.3 | X | 231.50821 | 224.78647 | 121.14067 | 10.49447 | 0.1275091 | 0.18595950 | 3.0398849 | 21 | 4 7.4 | 20.2 |
| 278410 2007 $RV_{38}$ | 15.4 | X | 236.34605 | 151.09842 | 179.58744 | 21.61130 | 0.0576003 | 0.18479468 | 3.0526457 | 21 | 3 25.7 | 20.0 |
| 278411 2007 $RX_{42}$ | 15.4 | X | 106.41333 | 217.02550 | 190.20674 | 22.15767 | 0.0931711 | 0.17213264 | 3.2005692 | 21 | 2 3.9 | 20.3 |
| 278412 2007 $RQ_{46}$ | 16.2 | X | 342.73328 | 84.58664 | 280.03544 | 3.31443 | 0.0886789 | 0.21140599 | 2.7907731 | 21 | 9 26.9 | 19.5 |
| 278413 2007 $RH_{48}$ | 16.2 | X | 202.95323 | 144.38898 | 161.64924 | 1.15606 | 0.1722577 | 0.17366404 | 3.1817260 | 21 | 1 22.0 | 21.5 |
| 278414 2007 $RG_{56}$ | 15.8 | X | 256.41493 | 295.60632 | 318.22629 | 5.44269 | 0.0945393 | 0.17340855 | 3.1848504 | 21 | 1 13.9 | 20.7 |
| 278415 2007 $RF_{103}$ | 15.6 | X | 201.51475 | 321.78960 | 1.22017 | 15.89783 | 0.1901530 | 0.17723161 | 3.1388839 | 21 | 2 14.2 | 21.0 |
| 278416 2007 $RP_{134}$ | 15.7 | X | 137.63217 | 246.76756 | 119.65561 | 2.88675 | 0.0936129 | 0.17273607 | 3.1931110 | 21 | 1 26.2 | 20.2 |
| 278417 2007 $RR_{146}$ | 15.8 | X | 263.49596 | 67.56985 | 259.36231 | 8.05902 | 0.0602510 | 0.19245560 | 2.9710891 | 21 | 4 16.9 | 20.1 |
| 278418 2007 $RA_{155}$ | 16.1 | X | 265.43969 | 53.33094 | 179.47675 | 4.70667 | 0.1287700 | 0.17521456 | 3.1629277 | 21 | — | — |
| 278419 2007 $RH_{157}$ | 16.7 | X | 252.67708 | 285.43968 | 139.13567 | 2.76698 | 0.0545289 | 0.20603941 | 2.8390248 | 21 | 8 11.7 | 20.7 |
| 278420 2007 $RY_{167}$ | 15.7 | X | 12.66625 | 359.22221 | 162.04508 | 9.69403 | 0.0262737 | 0.17868041 | 3.1218936 | 21 | 2 16.7 | 19.9 |
| 278421 2007 $RA_{205}$ | 15.8 | X | 175.28053 | 69.74655 | 241.79939 | 3.77181 | 0.1270179 | 0.16832919 | 3.2486014 | 21 | 1 3.7 | 21.0 |
| 278422 2007 $RT_{208}$ | 15.6 | X | 282.04176 | 132.93220 | 166.76636 | 10.55706 | 0.0916881 | 0.18823464 | 3.0153405 | 21 | 4 6.0 | 19.9 |
| 278423 2007 $RP_{210}$ | 16.6 | X | 299.34649 | 340.63120 | 297.27227 | 1.78748 | 0.1679336 | 0.19252284 | 2.9703973 | 21 | 3 16.8 | 20.9 |
| 278424 2007 $RH_{217}$ | 16.0 | X | 254.59177 | 149.00563 | 171.06280 | 9.57620 | 0.1535656 | 0.18688767 | 3.0298116 | 21 | 3 23.8 | 20.7 |
| 278425 2007 $RY_{218}$ | 16.0 | X | 157.15383 | 270.47310 | 61.67741 | 1.86418 | 0.1083877 | 0.16899012 | 3.2401256 | 21 | 1 9.0 | 20.8 |
| 278426 2007 $RQ_{228}$ | 15.6 | X | 104.37995 | 216.56652 | 158.81623 | 7.12845 | 0.2094131 | 0.16994950 | 3.2279202 | 21 | 1 14.3 | 20.2 |
| 278427 2007 $RD_{239}$ | 15.8 | X | 171.93568 | 295.65207 | 78.87744 | 6.57804 | 0.0699885 | 0.18066361 | 3.0990049 | 21 | 3 12.9 | 20.5 |
| 278428 2007 $RW_{257}$ | 15.8 | X | 248.16971 | 116.17985 | 197.80919 | 6.48168 | 0.1668226 | 0.18480987 | 3.0524785 | 21 | 3 7.6 | 20.6 |
| 278429 2007 $RG_{266}$ | 15.2 | X | 266.66864 | 106.58779 | 164.65499 | 13.20633 | 0.0293496 | 0.17888013 | 3.1195693 | 21 | 2 18.5 | 19.7 |
| 278430 2007 $RC_{270}$ | 15.4 | X | 232.44338 | 113.02645 | 231.48684 | 13.29382 | 0.2891426 | 0.18163027 | 3.0879996 | 21 | 3 21.1 | 21.1 |
| 278431 2007 $RD_{271}$ | 15.5 | X | 93.33790 | 274.76619 | 283.50832 | 3.77212 | 0.0375921 | 0.19862669 | 2.9092272 | 21 | 7 21.8 | 19.5 |
| 278432 2007 $RS_{275}$ | 15.5 | X | 338.33601 | 238.30603 | 103.88500 | 21.49464 | 0.2304133 | 0.21036241 | 2.7999953 | 21 | 8 17.5 | 18.3 |
| 278433 2007 $RT_{275}$ | 15.4 | X | 6.72634 | 221.88666 | 109.99829 | 22.83971 | 0.3016211 | 0.21377071 | 2.7701540 | 21 | 11 1.4 | 18.5 |
| 278434 2007 $RU_{275}$ | 15.0 | X | 175.20683 | 201.49810 | 112.36079 | 28.67235 | 0.1433443 | 0.17136298 | 3.2101455 | 21 | 1 7.5 | 20.1 |
| 278435 2007 $RT_{281}$ | 15.3 | X | 245.71554 | 274.81834 | 66.13021 | 10.71555 | 0.1181961 | 0.19017946 | 2.9947482 | 21 | 4 15.3 | 20.0 |
| 278436 2007 $RQ_{283}$ | 16.2 | X | 262.50084 | 263.64957 | 11.00785 | 0.72351 | 0.1369657 | 0.17915214 | 3.1164109 | 21 | 2 8.1 | 20.9 |
| 278437 2007 $RT_{284}$ | 15.8 | X | 186.88884 | 135.93177 | 176.80271 | 1.06083 | 0.1468796 | 0.17350076 | 3.1837219 | 21 | 1 15.7 | 21.0 |
| 278438 2007 $RS_{286}$ | 15.9 | X | 158.48754 | 18.70282 | 335.39420 | 9.39220 | 0.0946971 | 0.17829206 | 3.1264252 | 21 | 2 3.3 | 20.7 |
| 278439 2007 $RU_{286}$ | 15.9 | X | 100.69812 | 253.26759 | 178.42875 | 10.54676 | 0.0779214 | 0.17868120 | 3.1218843 | 21 | 2 25.7 | 20.2 |
| 278440 2007 $RF_{308}$ | 15.9 | X | 180.52833 | 344.93632 | 352.17458 | 9.79646 | 0.0982819 | 0.17821308 | 3.1273489 | 21 | 2 6.8 | 20.8 |
| 278441 2007 $RJ_{312}$ | 15.6 | X | 273.50696 | 209.43227 | 100.19184 | 6.85607 | 0.1283313 | 0.18803766 | 3.0174459 | 21 | 4 5.2 | 20.1 |
| 278442 2007 $RJ_{323}$ | 16.7 | X | 113.86896 | 75.05850 | 242.90355 | 3.14822 | 0.0882712 | 0.22815005 | 2.6525017 | 21 | — | — |
| 278443 2007 $SG_{1}$ | 15.7 | X | 252.42672 | 128.52017 | 176.95191 | 14.36117 | 0.0876941 | 0.18526049 | 3.0475266 | 21 | 3 8.8 | 20.2 |
| 278444 2007 $SJ_{4}$ | 16.4 | X | 343.35873 | 273.30949 | 42.57197 | 8.20367 | 0.2274310 | 0.21004316 | 2.8028317 | 21 | 7 16.8 | 19.0 |
| 278445 2007 $SL_{12}$ | 15.4 | X | 182.67148 | 218.77889 | 141.33403 | 11.50837 | 0.1103375 | 0.18100769 | 3.0950763 | 21 | 3 6.8 | 20.3 |
| 278446 2007 $SA_{16}$ | 15.4 | X | 66.28590 | 224.25497 | 163.71590 | 9.63560 | 0.1517232 | 0.16253734 | 3.3253239 | 21 | — | — |
| 278447 Saviano | 15.3 | X | 8.05383 | 293.82734 | 131.33253 | 10.20350 | 0.0410081 | 0.15359422 | 3.4531820 | 21 | — | — |
| 278448 2007 $TX_{2}$ | 15.7 | X | 191.77596 | 162.59286 | 188.18835 | 3.73540 | 0.1756748 | 0.17868558 | 3.1218333 | 21 | 3 3.5 | 20.9 |
| 278449 2007 $TS_{5}$ | 18.0 | X | 53.28181 | 253.13962 | 197.62575 | 20.44779 | 0.1310528 | 0.38113670 | 1.8840057 | 21 | — | — |
| 278450 2007 $TR_{6}$ | 14.8 | X | 217.76820 | 115.69169 | 222.06808 | 15.59030 | 0.2396759 | 0.18131619 | 3.0915646 | 21 | 3 3.9 | 20.5 |
| 278451 2007 $TO_{22}$ | 15.5 | X | 241.65124 | 150.04412 | 180.87119 | 10.22167 | 0.1693403 | 0.18452073 | 3.0556664 | 21 | 3 22.9 | 20.4 |
| 278452 2007 $TD_{31}$ | 15.7 | X | 212.85016 | 279.93733 | 37.43235 | 14.44003 | 0.1969175 | 0.17431039 | 3.1738558 | 21 | 2 18.0 | 21.3 |
| 278453 2007 $TY_{31}$ | 15.5 | X | 181.26590 | 343.70067 | 43.92303 | 17.70746 | 0.2174783 | 0.17940698 | 3.1134590 | 21 | 4 12.7 | 20.9 |
| 278454 2007 $TN_{84}$ | 17.5 | X | 144.43560 | 327.42234 | 3.26663 | 6.19631 | 0.2656007 | 0.30791829 | 2.1719295 | 21 | — | — |
| 278455 2007 $TV_{85}$ | 16.1 | X | 184.80605 | 213.76091 | 48.07785 | 11.20376 | 0.2303514 | 0.22987906 | 2.6391847 | 21 | — | — |
| 278456 2007 $TH_{94}$ | 15.8 | X | 210.88617 | 10.33376 | 296.95557 | 4.36594 | 0.1436005 | 0.17535472 | 3.1612420 | 21 | 1 29.6 | 20.9 |
| 278457 2007 $TO_{110}$ | 15.2 | X | 250.02469 | 96.38649 | 219.75367 | 15.57630 | 0.0995914 | 0.18587833 | 3.0407698 | 21 | 3 14.5 | 20.1 |
| 278458 2007 $TA_{111}$ | 15.2 | X | 283.65341 | 62.29548 | 253.08373 | 8.76419 | 0.1165356 | 0.19141977 | 2.9817978 | 21 | 4 19.4 | 19.5 |
| 278459 2007 $TF_{125}$ | 15.2 | X | 168.31578 | 275.99987 | 60.98933 | 6.12676 | 0.0901595 | 0.16799803 | 3.2528691 | 21 | 1 25.6 | 20.3 |
| 278460 2007 $TG_{129}$ | 14.9 | X | 332.89644 | 194.05709 | 40.78390 | 14.78500 | 0.1037053 | 0.17673261 | 3.1447896 | 21 | 3 26.6 | 19.1 |
| 278461 2007 $TJ_{139}$ | 15.7 | X | 173.75541 | 221.07371 | 216.11024 | 19.56357 | 0.1645001 | 0.18525449 | 3.0475924 | 21 | 5 29.3 | 20.8 |
| 278462 2007 $TD_{160}$ | 16.0 | X | 332.13401 | 89.00307 | 225.48444 | 10.16297 | 0.3055418 | 0.27211981 | 2.3584642 | 21 | 5 29.1 | 17.6 |
| 278463 2007 $TJ_{161}$ | 15.8 | X | 182.48981 | 177.77460 | 182.96307 | 9.01913 | 0.0853012 | 0.17847369 | 3.1243037 | 21 | 3 3.9 | 20.7 |
| 278464 2007 $TB_{164}$ | 17.5 | X | 17.05635 | 80.19236 | 201.00110 | 1.77489 | 0.2040877 | 0.27592976 | 2.3367039 | 21 | 8 16.9 | 19.1 |
| 278465 2007 $TQ_{166}$ | 16.2 | X | 1.09123 | 156.05739 | 180.70590 | 21.96046 | 0.2426299 | 0.21388544 | 2.7691633 | 21 | 10 5.5 | 18.5 |
| 278466 2007 $TS_{168}$ | 16.2 | X | 115.82966 | 93.87074 | 233.45783 | 10.22812 | 0.2078932 | 0.23019298 | 2.6367847 | 21 | — | — |
| 278467 2007 $TE_{190}$ | 15.7 | X | 288.55142 | 98.15984 | 174.71784 | 17.52647 | 0.0615389 | 0.18622696 | 3.0369736 | 21 | 3 13.9 | 20.0 |
| 278468 2007 $TP_{208}$ | 15.0 | X | 181.73704 | 265.13051 | 97.03480 | 16.22652 | 0.1928582 | 0.17608402 | 3.1525072 | 21 | 3 16.8 | 20.5 |
| 278469 2007 $TA_{225}$ | 15.3 | X | 215.77593 | 199.59055 | 124.81574 | 13.06485 | 0.0811915 | 0.17910163 | 3.1169967 | 21 | 2 25.9 | 20.1 |
| 278470 2007 $TN_{225}$ | 16.3 | X | 347.26077 | 202.01776 | 29.23898 | 3.33967 | 0.0397661 | 0.18969886 | 2.9998042 | 21 | 4 10.1 | 20.2 |
| 278471 2007 $TF_{242}$ | 16.1 | X | 106.82341 | 81.88707 | 212.02930 | 25.42072 | 0.3963596 | 0.22965681 | 2.6408871 | 21 | 12 26.8 | 21.6 |
| 278472 2007 $TX_{251}$ | 15.1 | X | 260.60789 | 62.57039 | 239.18322 | 9.63677 | 0.1513513 | 0.18271104 | 3.0758101 | 21 | 3 3.6 | 20.1 |
| 278473 2007 $TS_{269}$ | 15.9 | X | 67.26105 | 64.30661 | 39.74861 | 9.45149 | 0.0519838 | 0.17090050 | 3.2159342 | 21 | 2 26.2 | 20.4 |
| 278474 2007 $TS_{287}$ | 16.8 | X | 109.93333 | 218.70173 | 99.97387 | 7.43885 | 0.1699036 | 0.30072375 | 2.2064338 | 21 | — | — |
| 278475 2007 $TF_{379}$ | 15.5 | X | 220.34004 | 262.07558 | 25.24112 | 18.95690 | 0.1337629 | 0.17184924 | 3.2040870 | 21 | 1 21.2 | 21.0 |
| 278476 2007 $TT_{405}$ | 16.0 | X | 165.04326 | 241.72268 | 42.33166 | 13.53732 | 0.2634564 | 0.22998224 | 2.6383952 | 21 | — | — |
| 278477 2007 $TC_{413}$ | 15.5 | X | 227.79834 | 284.44138 | 49.33934 | 13.05378 | 0.1700541 | 0.18486625 | 3.0518578 | 21 | 3 20.2 | 20.7 |
| 278478 2007 $TQ_{434}$ | 15.9 | X | 177.49542 | 220.82711 | 137.01926 | 11.39630 | 0.2235176 | 0.17505012 | 3.1649081 | 21 | 3 4.4 | 21.3 |
| 278479 2007 $TG_{451}$ | 15.4 | X | 18.56692 | 121.68782 | 50.19117 | 16.84758 | 0.0586122 | 0.17463684 | 3.1698994 | 21 | 3 19.9 | 19.8 |
| 278480 2007 $UU$ | 14.6 | X | 173.54898 | 292.55700 | 49.46794 | 26.66754 | 0.2447158 | 0.17450972 | 3.1714385 | 21 | 2 24.0 | 20.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278481 2007 $UK_{37}$ | 15.5 | X | 237.38148 | 241.21200 | 69.27890 | 9.09316 | 0.1809560 | 0.18047945 | 3.1011126 | 21 | 2 27.3 | 20.7 |
| 278482 2007 $UF_{53}$ | 15.4 | X | 256.73662 | 49.01531 | 219.71400 | 16.93312 | 0.2406904 | 0.17361289 | 3.1823510 | 21 | 1 15.9 | 21.1 |
| 278483 2007 $UA_{68}$ | 16.6 | X | 47.65008 | 260.58636 | 89.72628 | 5.15465 | 0.1305316 | 0.21861954 | 2.7290411 | 21 | 12 22.0 | 20.0 |
| 278484 2007 $UT_{84}$ | 17.1 | X | 134.06723 | 250.38714 | 48.77866 | 8.94874 | 0.1962044 | 0.29745763 | 2.2225556 | 21 | — | — |
| 278485 2007 $UV_{95}$ | 15.9 | X | 109.63988 | 73.22035 | 25.62726 | 4.12228 | 0.0521827 | 0.17956910 | 3.1115849 | 21 | 4 8.9 | 20.2 |
| 278486 2007 $UR_{136}$ | 15.3 | X | 170.74556 | 259.61831 | 78.55198 | 12.25033 | 0.0976364 | 0.16910200 | 3.2386962 | 21 | 1 30.5 | 20.4 |
| 278487 2007 $VX_{65}$ | 16.4 | X | 133.37790 | 196.77206 | 23.61191 | 9.47551 | 0.1320449 | 0.21297707 | 2.7770315 | 21 | 10 14.6 | 20.6 |
| 278488 2007 $VW_{73}$ | 16.0 | X | 259.10892 | 89.60940 | 191.93304 | 4.14332 | 0.0787948 | 0.17695319 | 3.1421756 | 21 | 2 17.1 | 20.6 |
| 278489 2007 $VU_{88}$ | 15.3 | X | 186.46827 | 131.47638 | 261.58842 | 10.41016 | 0.0823637 | 0.18158475 | 3.0885156 | 21 | 4 12.7 | 20.2 |
| 278490 2007 $VL_{118}$ | 15.7 | X | 166.64171 | 315.81407 | 67.87412 | 9.98760 | 0.0809683 | 0.17446222 | 3.1720141 | 21 | 3 21.5 | 20.6 |
| 278491 2007 $VQ_{148}$ | 17.6 | X | 90.23960 | 317.41660 | 67.21304 | 4.82580 | 0.1414018 | 0.30239397 | 2.1983017 | 21 | — | — |
| 278492 2007 $VA_{238}$ | 16.9 | X | 280.02296 | 90.91757 | 70.98440 | 6.79559 | 0.0375159 | 0.29391161 | 2.2403965 | 21 | — | — |
| 278493 2007 $VZ_{251}$ | 15.7 | X | 232.61603 | 249.72160 | 78.36352 | 10.10498 | 0.1838481 | 0.17895381 | 3.1187130 | 21 | 3 16.5 | 21.0 |
| 278494 2007 $VT_{252}$ | 15.6 | X | 266.29297 | 102.37856 | 205.93605 | 15.25756 | 0.2058264 | 0.18267105 | 3.0762590 | 21 | 3 12.9 | 20.7 |
| 278495 2007 $VK_{332}$ | 15.5 | X | 131.40160 | 205.30265 | 266.99216 | 14.95468 | 0.0088656 | 0.17850329 | 3.1239584 | 21 | 5 15.3 | 20.1 |
| 278496 2007 $WV_{8}$ | 15.5 | X | 124.74552 | 281.97774 | 77.15698 | 12.49903 | 0.2775141 | 0.22996751 | 2.6385079 | 21 | 1 17.0 | 19.4 |
| 278497 2007 $WV_{20}$ | 16.8 | X | 289.73210 | 294.18690 | 108.01754 | 6.78945 | 0.1141609 | 0.26328743 | 2.4109191 | 21 | 8 30.4 | 19.5 |
| 278498 2007 $XW_{57}$ | 17.2 | X | 26.26840 | 350.20968 | 64.91877 | 5.62699 | 0.1248550 | 0.29152319 | 2.2526167 | 21 | — | — |
| 278499 2007 $YC_{11}$ | 17.5 | X | 335.22967 | 152.79698 | 308.25552 | 4.42980 | 0.1764903 | 0.28643293 | 2.2792262 | 21 | — | — |
| 278500 2007 $YV_{54}$ | 17.0 | X | 60.95135 | 68.19919 | 309.24975 | 23.49055 | 0.1982958 | 0.29027515 | 2.2590689 | 21 | — | — |
| 278501 2007 $YA_{56}$ | 16.8 | X | 255.18469 | 345.83533 | 121.73817 | 9.50167 | 0.0978246 | 0.26939248 | 2.3743554 | 21 | 10 16.5 | 19.8 |
| 278502 2008 $AP_{1}$ | 17.3 | X | 143.07554 | 256.03520 | 114.03973 | 22.77197 | 0.0909067 | 0.37382665 | 1.9084870 | 21 | — | — |
| 278503 2008 $AN_{47}$ | 16.6 | X | 325.35529 | 232.21791 | 101.15824 | 7.37718 | 0.1204873 | 0.26056558 | 2.4276795 | 21 | 7 16.1 | 18.8 |
| 278504 2008 $AO_{74}$ | 16.8 | X | 346.26938 | 35.87998 | 353.07570 | 6.90525 | 0.1056305 | 0.27530883 | 2.3402161 | 21 | 11 19.5 | 19.3 |
| 278505 2008 $AS_{132}$ | 17.3 | X | 308.05984 | 11.99065 | 353.36643 | 0.82975 | 0.1905889 | 0.26179421 | 2.4200780 | 21 | 7 22.1 | 19.7 |
| 278506 2008 $BJ_{20}$ | 17.1 | X | 180.59362 | 141.58828 | 23.76376 | 2.23526 | 0.1355757 | 0.26318992 | 2.4115145 | 21 | 9 26.3 | 20.6 |
| 278507 2008 $BA_{32}$ | 17.3 | X | 270.66120 | 294.00831 | 146.06950 | 1.43532 | 0.1521205 | 0.26521439 | 2.3992269 | 21 | 9 16.1 | 20.0 |
| 278508 2008 $CU_{1}$ | 16.7 | X | 176.13005 | 311.13528 | 136.55742 | 5.97705 | 0.0485227 | 0.24767776 | 2.5111811 | 21 | 6 10.1 | 20.2 |
| 278509 2008 $CX_{12}$ | 16.7 | X | 184.11703 | 338.06342 | 86.18957 | 4.06216 | 0.0400110 | 0.24174971 | 2.5520670 | 21 | 5 19.1 | 20.1 |
| 278510 2008 $CT_{18}$ | 16.3 | X | 121.78264 | 184.59892 | 83.93919 | 2.62698 | 0.0842893 | 0.19208567 | 2.9749025 | 21 | 11 24.9 | 20.7 |
| 278511 2008 $CB_{24}$ | 16.8 | X | 157.64644 | 89.20308 | 334.29147 | 8.53294 | 0.0431778 | 0.23555200 | 2.5966387 | 21 | 4 11.4 | 20.5 |
| 278512 2008 $CL_{39}$ | 17.0 | X | 250.36275 | 257.06870 | 149.97346 | 7.02175 | 0.1209465 | 0.25512147 | 2.4620945 | 21 | 7 7.5 | 20.4 |
| 278513 Schwope | 17.0 | X | 309.22702 | 241.61976 | 149.61775 | 9.34851 | 0.2096283 | 0.26665745 | 2.3905632 | 21 | 9 1.9 | 19.0 |
| 278514 2008 $CG_{180}$ | 16.5 | X | 70.37904 | 216.19675 | 235.47945 | 10.59518 | 0.1791031 | 0.22842589 | 2.6503659 | 21 | 2 8.7 | 19.6 |
| 278515 2008 $CV_{199}$ | 17.3 | X | 222.91977 | 298.37482 | 347.38419 | 3.72260 | 0.2547963 | 0.28323975 | 2.2963244 | 21 | — | — |
| 278516 2008 $DP_{21}$ | 15.9 | X | 19.01528 | 236.92665 | 279.99697 | 10.33726 | 0.1369808 | 0.22425832 | 2.6831009 | 21 | 2 3.7 | 19.0 |
| 278517 2008 $DU_{25}$ | 16.3 | X | 88.81774 | 170.94262 | 310.50638 | 6.43495 | 0.0832938 | 0.23269838 | 2.6178242 | 21 | 4 5.6 | 19.8 |
| 278518 2008 $DK_{32}$ | 15.9 | X | 142.71013 | 177.94019 | 65.15599 | 2.09574 | 0.0926127 | 0.19117683 | 2.9843234 | 21 | 11 15.9 | 20.4 |
| 278519 2008 $DC_{33}$ | 16.0 | X | 109.78712 | 240.46831 | 12.39908 | 9.13354 | 0.1064453 | 0.18560769 | 3.0437249 | 21 | 10 23.9 | 20.6 |
| 278520 2008 $DY_{34}$ | 16.5 | X | 307.46403 | 229.54912 | 321.98322 | 3.20776 | 0.0392059 | 0.21343387 | 2.7730678 | 21 | — | — |
| 278521 2008 $DP_{36}$ | 16.4 | X | 54.96192 | 188.72031 | 348.20160 | 8.50135 | 0.2274552 | 0.23378263 | 2.6097238 | 21 | 5 23.9 | 19.3 |
| 278522 2008 $DW_{46}$ | 17.9 | X | 1.70722 | 78.45152 | 135.89744 | 4.15620 | 0.1178319 | 0.30156454 | 2.2023307 | 21 | 3 16.3 | 19.9 |
| 278523 2008 $DY_{46}$ | 17.1 | X | 332.72683 | 60.74162 | 57.65872 | 3.33716 | 0.1389164 | 0.27991827 | 2.3144540 | 21 | — | — |
| 278524 2008 $DU_{48}$ | 15.9 | X | 184.20401 | 339.43953 | 88.83150 | 15.66583 | 0.0713734 | 0.24281011 | 2.5446313 | 21 | 5 27.1 | 19.6 |
| 278525 2008 $DJ_{67}$ | 18.1 | X | 352.67672 | 16.06908 | 234.15414 | 2.45461 | 0.1659023 | 0.30525053 | 2.1845656 | 21 | 4 16.1 | 19.4 |
| 278526 2008 $DM_{68}$ | 18.2 | X | 298.61813 | 95.83085 | 170.63058 | 5.92486 | 0.1542693 | 0.29640345 | 2.2278223 | 21 | 2 15.4 | 21.0 |
| 278527 2008 $DH_{85}$ | 16.3 | X | 75.32338 | 330.95125 | 95.61094 | 6.51070 | 0.0237877 | 0.21467484 | 2.7623706 | 21 | 1 5.2 | 20.0 |
| 278528 2008 $EM_{13}$ | 16.6 | X | 104.93651 | 303.40917 | 126.43722 | 6.22594 | 0.0551999 | 0.22342577 | 2.6897621 | 21 | 2 20.5 | 20.1 |
| 278529 2008 $EM_{16}$ | 18.1 | X | 335.45860 | 245.02658 | 359.99945 | 2.61816 | 0.1343247 | 0.30093912 | 2.2053809 | 21 | 3 12.6 | 20.2 |
| 278530 2008 $EY_{20}$ | 17.0 | X | 242.01570 | 285.52951 | 3.27073 | 6.03383 | 0.1199190 | 0.28992994 | 2.2608617 | 21 | 1 21.7 | 20.3 |
| 278531 2008 $EJ_{32}$ | 15.7 | X | 240.06069 | 6.76044 | 229.95077 | 8.21467 | 0.0946531 | 0.21003559 | 2.8028991 | 21 | — | — |
| 278532 2008 $EC_{46}$ | 17.8 | X | 354.02129 | 297.60365 | 194.60652 | 22.01916 | 0.0321546 | 0.35857647 | 1.9622222 | 21 | — | — |
| 278533 2008 $EP_{47}$ | 17.1 | X | 181.80625 | 195.28679 | 102.17309 | 3.90736 | 0.1904426 | 0.27641680 | 2.3339583 | 21 | — | — |
| 278534 2008 $EZ_{69}$ | 15.6 | X | 349.90581 | 325.65187 | 141.69714 | 7.26641 | 0.0491859 | 0.20415741 | 2.8564456 | 21 | — | — |
| 278535 2008 $EE_{72}$ | 16.0 | X | 45.70800 | 128.15673 | 140.63547 | 11.13402 | 0.1651028 | 0.17445025 | 3.1721592 | 21 | 9 7.4 | 20.1 |
| 278536 2008 $EC_{74}$ | 17.2 | X | 158.82443 | 240.69769 | 71.86104 | 4.39336 | 0.1780325 | 0.27802886 | 2.3249278 | 21 | — | — |
| 278537 2008 $EX_{75}$ | 16.7 | X | 115.22906 | 287.43395 | 118.01870 | 4.12113 | 0.1144410 | 0.21926640 | 2.7236711 | 21 | 2 11.7 | 20.4 |
| 278538 2008 $EZ_{81}$ | 17.5 | X | 356.18778 | 220.18610 | 342.77163 | 6.75208 | 0.1689185 | 0.29947824 | 2.2125472 | 21 | 2 8.9 | 19.4 |
| 278539 2008 $EF_{82}$ | 16.4 | X | 86.97674 | 36.57679 | 121.75586 | 8.73831 | 0.1749915 | 0.23745296 | 2.5827616 | 21 | 6 11.6 | 19.9 |
| 278540 2008 $EX_{87}$ | 15.3 | X | 95.84984 | 202.84854 | 46.57573 | 12.25383 | 0.1476046 | 0.17706317 | 3.1408743 | 21 | 10 13.8 | 20.1 |
| 278541 2008 $EA_{123}$ | 17.5 | X | 231.11620 | 225.05938 | 44.36064 | 3.35977 | 0.1541514 | 0.28204198 | 2.3028212 | 21 | — | — |
| 278542 2008 $EB_{127}$ | 16.3 | X | 17.78083 | 307.81141 | 188.11880 | 8.27067 | 0.0609701 | 0.21606613 | 2.7504996 | 21 | 1 12.9 | 19.9 |
| 278543 2008 $EJ_{151}$ | 17.5 | X | 22.60834 | 143.87026 | 0.99433 | 3.39068 | 0.0493375 | 0.29250049 | 2.2475963 | 21 | 1 15.8 | 20.0 |
| 278544 2008 $ER_{166}$ | 17.5 | X | 74.64580 | 41.10995 | 93.01206 | 6.21432 | 0.0698528 | 0.30299835 | 2.1953775 | 21 | 3 28.3 | 19.8 |
| 278545 2008 $EM_{167}$ | 15.2 | X | 52.55385 | 193.65227 | 88.51654 | 10.59595 | 0.1188336 | 0.17541773 | 3.1604849 | 21 | 10 1.4 | 19.6 |
| 278546 2008 $FW_{3}$ | 16.4 | X | 160.41921 | 341.49740 | 0.72765 | 13.70192 | 0.0439921 | 0.21599398 | 2.7511121 | 21 | 1 12.1 | 20.5 |
| 278547 2008 $FM_{8}$ | 16.5 | X | 146.46838 | 78.77020 | 45.07987 | 14.31631 | 0.2469768 | 0.24188170 | 2.5511385 | 21 | 7 5.1 | 21.1 |
| 278548 2008 $FX_{27}$ | 16.9 | X | 229.74116 | 112.31735 | 133.70541 | 7.02944 | 0.0866836 | 0.27592925 | 2.3367068 | 21 | — | — |
| 278549 2008 $FC_{34}$ | 17.6 | X | 158.50557 | 52.87308 | 3.74389 | 7.23973 | 0.0504729 | 0.30585526 | 2.1816852 | 21 | 3 30.3 | 20.1 |
| 278550 2008 $FZ_{48}$ | 17.4 | X | 106.30923 | 276.51786 | 56.44212 | 2.04279 | 0.2010282 | 0.27053919 | 2.3676414 | 21 | — | — |
| 278551 2008 $FC_{66}$ | 15.3 | X | 94.57269 | 37.31572 | 211.61091 | 17.34851 | 0.0163548 | 0.17481035 | 3.1678015 | 21 | 9 18.6 | 20.0 |
| 278552 2008 $FW_{67}$ | 15.4 | X | 284.28191 | 21.74128 | 45.36845 | 10.41398 | 0.0664596 | 0.17694882 | 3.1422274 | 21 | 9 26.1 | 19.7 |
| 278553 2008 $FL_{96}$ | 17.4 | X | 198.63474 | 185.07850 | 94.32358 | 3.89824 | 0.1452059 | 0.27528593 | 2.3403459 | 21 | — | — |
| 278554 2008 $FW_{109}$ | 17.3 | X | 135.92983 | 207.84641 | 111.14992 | 3.46092 | 0.2273183 | 0.27262242 | 2.3555645 | 21 | — | — |
| 278555 2008 $FB_{123}$ | 17.4 | X | 126.52799 | 311.09473 | 22.30543 | 6.49663 | 0.1545484 | 0.27513800 | 2.3411847 | 21 | — | — |
| 278556 2008 $FP_{137}$ | 17.9 | X | 295.62827 | 133.24702 | 154.35327 | 3.01890 | 0.2269351 | 0.29815595 | 2.2190839 | 21 | 3 3.8 | 21.0 |
| 278557 2008 $GM_{27}$ | 15.8 | X | 68.27956 | 121.88441 | 186.92278 | 10.21851 | 0.1260017 | 0.18786088 | 3.0193385 | 21 | 11 21.0 | 20.3 |
| 278558 2008 $GF_{36}$ | 15.8 | X | 223.35462 | 78.71050 | 77.76404 | 11.00381 | 0.0615073 | 0.18453175 | 3.0555447 | 21 | 11 1.2 | 20.3 |
| 278559 2008 $GN_{36}$ | 16.1 | X | 73.58644 | 30.74933 | 52.26598 | 16.80486 | 0.2003742 | 0.21577615 | 2.7529633 | 21 | 2 23.2 | 19.6 |
| 278560 2008 $GH_{47}$ | 17.0 | X | 308.74269 | 238.82078 | 108.93048 | 8.57010 | 0.2074940 | 0.23359849 | 2.6110951 | 21 | 6 23.4 | 20.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278561 2008 $GA_{74}$ | 17.5 | X | 158.68771 | 198.16958 | 93.49158 | 6.18089 | 0.2406567 | 0.26811141 | 2.3819127 | 21 | — | — |
| 278562 2008 $GN_{74}$ | 16.6 | X | 332.63706 | 290.26584 | 148.43047 | 9.63152 | 0.0806372 | 0.19198435 | 2.9759491 | 21 | 12 16.4 | 20.5 |
| 278563 2008 $GH_{93}$ | 16.0 | X | 311.40254 | 112.51132 | 65.45401 | 10.18409 | 0.0955628 | 0.20986672 | 2.8044024 | 21 | — | — |
| 278564 2008 $GK_{97}$ | 17.6 | X | 223.82224 | 260.17415 | 7.34365 | 0.93114 | 0.1861981 | 0.27789435 | 2.3256779 | 21 | — | — |
| 278565 2008 $GY_{126}$ | 16.8 | X | 135.15666 | 213.58905 | 112.34571 | 8.06521 | 0.1407508 | 0.27488642 | 2.3426129 | 21 | — | — |
| 278566 2008 $GZ_{127}$ | 16.8 | X | 303.08762 | 260.02337 | 122.64456 | 10.10830 | 0.1497688 | 0.24225539 | 2.5485144 | 21 | 8 15.3 | 19.5 |
| 278567 2008 $GP_{129}$ | 17.3 | X | 237.07982 | 139.83409 | 187.78108 | 6.23267 | 0.1939861 | 0.28973613 | 2.2618699 | 21 | 3 1.7 | 20.9 |
| 278568 2008 $GY_{137}$ | 17.6 | X | 271.26846 | 140.24357 | 175.96052 | 6.16953 | 0.1629931 | 0.29634332 | 2.2281236 | 21 | 3 23.0 | 20.7 |
| 278569 2008 $GW_{144}$ | 17.9 | X | 319.55585 | 78.22881 | 182.59769 | 4.41205 | 0.1581013 | 0.29776047 | 2.2210484 | 21 | 3 6.5 | 20.5 |
| 278570 2008 $HT_{8}$ | 15.8 | X | 127.89016 | 75.87947 | 154.99399 | 11.71187 | 0.0234417 | 0.17865243 | 3.1222196 | 21 | 10 14.4 | 20.4 |
| 278571 2008 $HZ_{8}$ | 15.6 | X | 190.51406 | 65.26097 | 107.33087 | 11.32672 | 0.0349948 | 0.18041992 | 3.1017948 | 21 | 10 18.2 | 20.3 |
| 278572 2008 $HB_{21}$ | 13.5 | X | 326.33355 | 105.42625 | 211.84867 | 16.48722 | 0.0549170 | 0.08225446 | 5.2363629 | 21 | 6 29.5 | 20.4 |
| 278573 2008 $HF_{26}$ | 17.5 | X | 345.70111 | 63.20112 | 110.41250 | 5.91465 | 0.1447978 | 0.28728638 | 2.2747099 | 21 | — | — |
| 278574 2008 $HW_{26}$ | 16.3 | X | 317.31306 | 251.23028 | 179.83443 | 5.70604 | 0.0274348 | 0.18767200 | 3.0213641 | 21 | 11 16.0 | 20.4 |
| 278575 2008 $HV_{35}$ | 17.1 | X | 65.61167 | 243.34644 | 73.00496 | 6.26710 | 0.1890772 | 0.25347388 | 2.4727521 | 21 | 12 14.1 | 20.6 |
| 278576 2008 $HS_{37}$ | 17.8 | X | 329.35680 | 1.96423 | 251.27359 | 3.38331 | 0.2920438 | 0.29602192 | 2.2297361 | 21 | 2 14.9 | 20.6 |
| 278577 2008 $HG_{40}$ | 17.9 | X | 176.19364 | 304.03180 | 351.65933 | 0.77538 | 0.1799042 | 0.27554607 | 2.3388726 | 21 | — | — |
| 278578 2008 $HD_{62}$ | 16.7 | X | 345.82852 | 216.79931 | 116.96110 | 5.95765 | 0.1672206 | 0.23832551 | 2.5764538 | 21 | 8 25.5 | 18.9 |
| 278579 2008 $HC_{66}$ | 16.4 | X | 66.75421 | 263.61996 | 264.43027 | 10.54694 | 0.2623954 | 0.23217757 | 2.6217375 | 21 | 6 9.6 | 19.4 |
| 278580 2008 $JE_{5}$ | 16.0 | X | 56.93609 | 100.01012 | 192.86813 | 4.75248 | 0.0178735 | 0.17961600 | 3.1110431 | 21 | 9 30.6 | 20.4 |
| 278581 2008 $JL_{6}$ | 16.0 | X | 321.21006 | 295.86397 | 143.83455 | 10.49723 | 0.0800597 | 0.18900565 | 3.0071346 | 21 | 12 1.4 | 20.0 |
| 278582 2008 $JE_{15}$ | 17.0 | X | 81.82165 | 279.82111 | 70.53088 | 4.72734 | 0.0439568 | 0.26809112 | 2.3820329 | 21 | — | — |
| 278583 2008 $JD_{23}$ | 15.6 | X | 91.72842 | 40.09743 | 199.60487 | 15.35780 | 0.0333543 | 0.17076840 | 3.2175925 | 21 | 9 5.9 | 20.3 |
| 278584 2008 $JQ_{27}$ | 18.0 | X | 192.82283 | 103.18139 | 179.49452 | 6.56546 | 0.1821023 | 0.27266826 | 2.3553005 | 21 | — | — |
| 278585 2008 $KM_{26}$ | 16.3 | X | 240.46265 | 250.19493 | 121.29161 | 10.59179 | 0.1998657 | 0.22386233 | 2.6862640 | 21 | 5 8.7 | 20.8 |
| 278586 2008 $KW_{34}$ | 17.4 | X | 29.54612 | 304.82241 | 56.78520 | 4.58865 | 0.0475955 | 0.25763520 | 2.4460533 | 21 | 12 8.7 | 20.4 |
| 278587 2008 $KX_{42}$ | 17.2 | X | 27.99331 | 234.64223 | 240.17728 | 6.41887 | 0.0553074 | 0.28092976 | 2.3088952 | 21 | — | — |
| 278588 2008 $LY_{16}$ | 17.2 | X | 165.01055 | 331.06064 | 2.13674 | 7.22124 | 0.1482609 | 0.27269508 | 2.3551461 | 21 | 1 3.9 | 20.6 |
| 278589 2008 $NO$ | 16.6 | X | 75.06781 | 252.70320 | 129.10507 | 9.45524 | 0.1662297 | 0.25602332 | 2.4563092 | 21 | — | — |
| 278590 2008 $NA_{2}$ | 17.5 | X | 270.05425 | 357.64463 | 301.65527 | 4.60363 | 0.1748495 | 0.28541757 | 2.2846285 | 21 | 2 25.9 | 20.8 |
| 278591 Salò | 17.0 | X | 218.60758 | 201.05805 | 109.12870 | 7.87985 | 0.1192733 | 0.27256643 | 2.3558871 | 21 | 1 26.9 | 20.4 |
| 278592 2008 $NG_{5}$ | 17.0 | X | 270.01880 | 274.81143 | 60.34327 | 7.65095 | 0.2994066 | 0.28798173 | 2.2710468 | 21 | 4 6.1 | 20.7 |
| 278593 2008 $OC$ | 16.2 | X | 357.07279 | 181.05663 | 119.71984 | 13.10933 | 0.1699429 | 0.22768443 | 2.6561168 | 21 | 7 26.9 | 18.5 |
| 278594 2008 $OT_{1}$ | 17.2 | X | 265.79668 | 208.85206 | 127.64360 | 5.70897 | 0.1747752 | 0.28944081 | 2.2634082 | 21 | 4 15.1 | 20.5 |
| 278595 2008 $OB_{2}$ | 16.3 | X | 5.59719 | 145.59802 | 167.31546 | 13.63185 | 0.2705529 | 0.22951299 | 2.6419902 | 21 | 9 14.8 | 18.0 |
| 278596 2008 $OR_{2}$ | 17.3 | X | 283.18744 | 176.75726 | 132.19515 | 7.43625 | 0.2129788 | 0.28883133 | 2.2665911 | 21 | 3 24.1 | 20.6 |
| 278597 2008 $OA_{21}$ | 16.1 | X | 284.55849 | 201.31299 | 330.37096 | 8.78920 | 0.0312353 | 0.17818868 | 3.1276343 | 21 | — | — |
| 278598 2008 $OL_{21}$ | 16.3 | X | 264.12227 | 234.23221 | 154.14476 | 9.79029 | 0.1583758 | 0.21725132 | 2.7404871 | 21 | 6 24.8 | 20.5 |
| 278599 2008 $OM_{23}$ | 16.1 | X | 140.80381 | 309.32943 | 346.74379 | 8.20348 | 0.2226793 | 0.24518311 | 2.5281860 | 21 | — | — |
| 278600 2008 $OZ_{24}$ | 17.3 | X | 245.06277 | 316.75115 | 9.19490 | 3.68062 | 0.1860793 | 0.28251938 | 2.3002262 | 21 | 3 9.8 | 20.8 |
| 278601 2008 $PV_{2}$ | 16.3 | X | 86.75291 | 357.02900 | 4.63773 | 7.81784 | 0.2144226 | 0.25364592 | 2.4716338 | 21 | — | — |
| 278602 2008 $PG_{6}$ | 17.1 | X | 146.90621 | 160.86983 | 168.72468 | 1.09338 | 0.2206169 | 0.26196111 | 2.4190499 | 21 | — | — |
| 278603 2008 $PQ_{6}$ | 17.0 | X | 333.59835 | 179.19415 | 125.16623 | 10.77758 | 0.2070228 | 0.29728510 | 2.2234154 | 21 | 6 3.7 | 18.9 |
| 278604 2008 $PV_{6}$ | 15.8 | X | 188.01361 | 193.92028 | 128.58602 | 12.65085 | 0.1618877 | 0.19286215 | 2.9669123 | 21 | 1 25.6 | 20.7 |
| 278605 2008 $PZ_{7}$ | 17.6 | X | 253.19841 | 174.06160 | 166.05029 | 5.34973 | 0.1821973 | 0.28609403 | 2.2810257 | 21 | 4 4.9 | 21.1 |
| 278606 2008 $PU_{9}$ | 17.3 | X | 184.42828 | 287.38994 | 43.76528 | 5.55363 | 0.1411033 | 0.27029635 | 2.3690593 | 21 | 1 21.5 | 20.9 |
| 278607 2008 $PS_{11}$ | 15.7 | X | 75.59033 | 49.24141 | 317.65256 | 15.41404 | 0.2130839 | 0.17527715 | 3.1621746 | 21 | — | — |
| 278608 2008 $PZ_{15}$ | 16.9 | X | 335.10397 | 164.12201 | 148.85919 | 3.94643 | 0.2120917 | 0.22328337 | 2.6909056 | 21 | 6 22.2 | 19.5 |
| 278609 Avrudenko | 17.9 | X | 274.69697 | 15.75386 | 279.24077 | 1.80452 | 0.2206097 | 0.28344162 | 2.2952340 | 21 | 2 21.9 | 21.5 |
| 278610 2008 $PW_{19}$ | 15.3 | X | 214.77630 | 298.03066 | 40.87939 | 10.59346 | 0.0339633 | 0.18640200 | 3.0350720 | 21 | 3 16.8 | 19.8 |
| 278611 2008 $QC_{5}$ | 17.5 | X | 201.21606 | 152.53438 | 170.02397 | 9.85231 | 0.2684374 | 0.26941971 | 2.3741955 | 21 | 1 28.5 | 21.7 |
| 278612 2008 $QL_{5}$ | 15.4 | X | 82.73144 | 53.35116 | 358.35791 | 15.81320 | 0.2277612 | 0.17863728 | 3.1223960 | 21 | 2 6.4 | 19.5 |
| 278613 2008 $QV_{5}$ | 16.4 | X | 132.68190 | 172.99605 | 168.55163 | 10.57063 | 0.2359192 | 0.25918467 | 2.4362948 | 21 | — | — |
| 278614 2008 $QC_{8}$ | 18.1 | X | 258.45694 | 134.33436 | 152.09343 | 2.85361 | 0.2258898 | 0.27854963 | 2.3220291 | 21 | 1 28.9 | 21.8 |
| 278615 2008 $QP_{8}$ | 16.9 | X | 153.77937 | 321.08956 | 335.00848 | 6.98220 | 0.1107605 | 0.25574936 | 2.4580630 | 21 | — | — |
| 278616 2008 $QQ_{9}$ | 16.0 | X | 276.47486 | 234.64516 | 162.69782 | 9.61738 | 0.2131257 | 0.22010644 | 2.7167367 | 21 | 7 12.9 | 19.9 |
| 278617 2008 $QV_{10}$ | 15.5 | X | 180.94128 | 126.52193 | 171.13663 | 15.54226 | 0.0505112 | 0.18141577 | 3.0904332 | 21 | — | — |
| 278618 2008 $QN_{12}$ | 17.2 | X | 216.77673 | 323.07915 | 345.04421 | 2.82418 | 0.2469573 | 0.27116659 | 2.3639880 | 21 | 1 24.3 | 21.3 |
| 278619 2008 $QB_{16}$ | 17.9 | X | 230.56004 | 318.21002 | 338.26431 | 2.79108 | 0.2401484 | 0.27322277 | 2.3521127 | 21 | 1 20.4 | 21.9 |
| 278620 2008 $QM_{20}$ | 16.0 | X | 72.30651 | 40.49892 | 359.76931 | 9.43972 | 0.2163834 | 0.17743248 | 3.1365146 | 21 | — | — |
| 278621 2008 $QU_{22}$ | 15.2 | X | 306.78563 | 193.29850 | 315.44465 | 21.76100 | 0.0306203 | 0.17808788 | 3.1288144 | 21 | — | — |
| 278622 2008 $QC_{25}$ | 16.2 | X | 314.26960 | 284.97271 | 8.22635 | 7.76346 | 0.2023763 | 0.21611733 | 2.7500652 | 21 | 4 16.5 | 19.5 |
| 278623 2008 $QP_{28}$ | 17.3 | X | 174.93046 | 267.16462 | 16.67191 | 2.72036 | 0.1718264 | 0.25978399 | 2.4325464 | 21 | — | — |
| 278624 2008 $QX_{30}$ | 16.7 | X | 244.42260 | 9.55749 | 275.74609 | 7.03403 | 0.1873138 | 0.27311216 | 2.3527477 | 21 | 1 17.7 | 20.4 |
| 278625 2008 $QC_{40}$ | 17.0 | X | 243.41202 | 82.95971 | 313.19482 | 1.66419 | 0.0997495 | 0.21522279 | 2.7576801 | 21 | 6 17.9 | 20.9 |
| 278626 2008 $QK_{40}$ | 16.3 | X | 240.63347 | 106.83943 | 300.19913 | 4.17838 | 0.0471170 | 0.21686330 | 2.7437551 | 21 | 7 5.5 | 19.9 |
| 278627 2008 $QW_{40}$ | 16.8 | X | 322.09775 | 163.93789 | 186.98064 | 5.74753 | 0.0817654 | 0.22013679 | 2.7164870 | 21 | 8 6.2 | 20.1 |
| 278628 2008 $QZ_{40}$ | 17.5 | X | 253.61359 | 278.06386 | 331.08755 | 2.35795 | 0.1688603 | 0.26992891 | 2.3712087 | 21 | — | — |
| 278629 2008 $QH_{43}$ | 16.9 | X | 300.99287 | 27.95761 | 339.34027 | 5.60753 | 0.0849896 | 0.22134547 | 2.7065889 | 21 | 7 29.5 | 20.2 |
| 278630 2008 $QV_{44}$ | 15.2 | X | 101.79203 | 212.16366 | 153.13663 | 10.67180 | 0.0753143 | 0.17930667 | 3.1146201 | 21 | — | — |
| 278631 2008 $QR_{45}$ | 16.8 | X | 169.67249 | 278.68017 | 11.01345 | 4.55428 | 0.1502157 | 0.25775385 | 2.4453026 | 21 | — | — |
| 278632 2008 $QO_{47}$ | 16.4 | X | 284.79347 | 212.32224 | 166.28278 | 6.21145 | 0.0556523 | 0.21718994 | 2.7410034 | 21 | 7 23.4 | 20.1 |
| 278633 2008 $QU_{47}$ | 15.5 | X | 50.30969 | 74.22284 | 0.07387 | 15.97824 | 0.2011057 | 0.17676413 | 3.1444156 | 21 | 1 4.5 | 19.2 |
| 278634 2008 $RJ$ | 16.2 | X | 4.51633 | 187.49040 | 148.18402 | 12.93201 | 0.2041036 | 0.22940060 | 2.6428530 | 21 | 10 13.8 | 18.9 |
| 278635 2008 $RQ_{1}$ | 17.3 | X | 158.04333 | 98.68544 | 238.40476 | 5.98551 | 0.3124101 | 0.26231690 | 2.4168621 | 21 | 1 17.1 | 21.3 |
| 278636 2008 $RX_{1}$ | 16.4 | X | 203.07518 | 257.54831 | 26.40984 | 1.33660 | 0.1285139 | 0.18413780 | 3.0599013 | 21 | — | — |
| 278637 2008 $RF_{2}$ | 16.4 | X | 271.14791 | 1.05127 | 16.48539 | 2.48019 | 0.0375957 | 0.21624044 | 2.7490213 | 21 | 7 7.4 | 20.0 |
| 278638 2008 $RD_{3}$ | 16.8 | X | 260.98616 | 145.57620 | 268.23397 | 2.03840 | 0.0633306 | 0.22024909 | 2.7155635 | 21 | 8 6.9 | 20.4 |
| 278639 2008 $RG_{5}$ | 16.1 | X | 356.52325 | 273.67595 | 16.23036 | 6.32583 | 0.0233462 | 0.21510609 | 2.7586774 | 21 | 7 10.8 | 19.8 |
| 278640 2008 $RZ_{5}$ | 15.9 | X | 92.68258 | 38.31702 | 329.97969 | 10.27839 | 0.0843109 | 0.17723085 | 3.1388930 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278641 2008 $RF_{17}$ | 16.1 | X | 260.47658 | 12.43145 | 270.46106 | 3.52588 | 0.0865152 | 0.19499190 | 2.9452693 | 21 | 2 16.5 | 20.4 |
| 278642 2008 $RH_{17}$ | 16.4 | X | 146.86573 | 227.42157 | 197.28661 | 11.61608 | 0.0363400 | 0.19842609 | 2.9111876 | 21 | 4 6.9 | 20.3 |
| 278643 2008 $RL_{19}$ | 16.6 | X | 321.76117 | 111.21051 | 268.28270 | 2.79549 | 0.1091481 | 0.22613104 | 2.6682669 | 21 | 9 13.4 | 19.5 |
| 278644 2008 $RK_{21}$ | 17.7 | X | 225.27418 | 131.31958 | 190.19498 | 4.90447 | 0.2505502 | 0.27446689 | 2.3449994 | 21 | 2 13.1 | 21.9 |
| 278645 Kontsevych | 17.1 | X | 198.16633 | 358.46364 | 297.10571 | 0.91928 | 0.1890147 | 0.26615293 | 2.3935833 | 21 | — | — |
| 278646 2008 $RH_{24}$ | 16.5 | X | 200.99422 | 79.32096 | 240.31263 | 5.76280 | 0.2517014 | 0.26805946 | 2.3822205 | 21 | 1 24.4 | 20.7 |
| 278647 2008 $RN_{36}$ | 16.7 | X | 224.16460 | 145.29551 | 229.64354 | 1.11348 | 0.0859925 | 0.20469518 | 2.8514404 | 21 | 5 1.7 | 21.0 |
| 278648 2008 $RY_{37}$ | 16.7 | X | 114.41464 | 305.49952 | 350.58190 | 6.20310 | 0.1036025 | 0.24433443 | 2.5340369 | 21 | 12 30.3 | 20.6 |
| 278649 2008 $RE_{40}$ | 16.0 | X | 45.42470 | 287.01386 | 184.44334 | 6.39828 | 0.1053956 | 0.18447586 | 3.0561619 | 21 | 1 30.9 | 19.8 |
| 278650 2008 $RX_{41}$ | 16.5 | X | 231.00699 | 324.77675 | 21.46622 | 2.05482 | 0.0871587 | 0.20053197 | 2.8907707 | 21 | 4 3.8 | 20.9 |
| 278651 2008 $RY_{41}$ | 16.5 | X | 221.72596 | 125.21331 | 178.18172 | 9.37944 | 0.1272226 | 0.19098479 | 2.9863236 | 21 | 1 31.4 | 21.4 |
| 278652 2008 $RV_{42}$ | 16.7 | X | 15.69733 | 193.16706 | 158.90738 | 3.37805 | 0.1737147 | 0.23279813 | 2.6170764 | 21 | 11 20.1 | 19.6 |
| 278653 2008 $RL_{44}$ | 17.0 | X | 323.48244 | 285.39634 | 16.59731 | 1.61219 | 0.0728954 | 0.21208358 | 2.7848257 | 21 | 6 3.0 | 20.6 |
| 278654 2008 $RS_{44}$ | 16.5 | X | 359.04958 | 132.30047 | 157.39111 | 3.49229 | 0.0586085 | 0.21673233 | 2.7448603 | 21 | 7 12.6 | 19.9 |
| 278655 2008 $RD_{45}$ | 16.4 | X | 183.52892 | 140.85021 | 174.35556 | 10.76606 | 0.0764922 | 0.18429682 | 3.0581409 | 21 | 1 9.5 | 21.2 |
| 278656 2008 $RR_{46}$ | 16.5 | X | 182.90812 | 222.77276 | 210.18911 | 1.44992 | 0.0478376 | 0.20574602 | 2.8417231 | 21 | 5 30.6 | 20.6 |
| 278657 2008 $RX_{53}$ | 16.4 | X | 340.96598 | 28.51149 | 261.89943 | 4.39512 | 0.0401672 | 0.21613440 | 2.7499204 | 21 | 6 16.8 | 19.7 |
| 278658 2008 $RC_{54}$ | 15.8 | X | 318.36998 | 218.59853 | 304.69464 | 8.24314 | 0.0432832 | 0.18317371 | 3.0706285 | 21 | — | — |
| 278659 2008 $RT_{64}$ | 17.0 | X | 349.96572 | 211.55893 | 141.90967 | 4.64330 | 0.1036050 | 0.22846027 | 2.6501000 | 21 | 9 30.2 | 19.9 |
| 278660 2008 $RY_{65}$ | 17.9 | X | 247.66971 | 147.63007 | 150.03348 | 6.30891 | 0.2053606 | 0.27531210 | 2.3401975 | 21 | 2 3.9 | 21.8 |
| 278661 2008 $RO_{68}$ | 16.3 | X | 51.57604 | 287.70900 | 43.96426 | 5.72710 | 0.0972148 | 0.23597061 | 2.5935668 | 21 | 12 1.4 | 19.8 |
| 278662 2008 $RU_{68}$ | 16.2 | X | 223.61394 | 6.20112 | 50.90710 | 5.89747 | 0.0558614 | 0.21188969 | 2.7865243 | 21 | 6 26.6 | 20.2 |
| 278663 2008 $RV_{68}$ | 17.1 | X | 208.00490 | 203.76330 | 109.78143 | 3.75695 | 0.1977625 | 0.26817127 | 2.3815583 | 21 | 1 23.1 | 21.0 |
| 278664 2008 $RU_{71}$ | 16.8 | X | 1.63974 | 249.33221 | 159.81972 | 8.56903 | 0.0765531 | 0.24490522 | 2.5300981 | 21 | — | — |
| 278665 2008 $RV_{78}$ | 16.2 | X | 98.68942 | 9.03560 | 325.44626 | 9.50534 | 0.1246481 | 0.16986703 | 3.2289648 | 21 | — | — |
| 278666 2008 $RX_{79}$ | 15.9 | X | 41.76838 | 251.75337 | 186.34373 | 10.03380 | 0.1014445 | 0.17979546 | 3.1089726 | 21 | — | — |
| 278667 2008 $RM_{86}$ | 17.4 | X | 331.41439 | 347.44807 | 300.39360 | 6.78796 | 0.1912586 | 0.21268085 | 2.7796096 | 21 | 5 8.9 | 20.6 |
| 278668 2008 $RS_{87}$ | 14.7 | X | 183.92972 | 220.31760 | 216.53098 | 14.47524 | 0.2109944 | 0.12606836 | 3.9391148 | 21 | 6 8.1 | 21.3 |
| 278669 2008 $RG_{91}$ | 16.7 | X | 222.05263 | 295.72008 | 159.32701 | 13.31003 | 0.0747603 | 0.22339439 | 2.6900140 | 21 | 8 10.9 | 20.7 |
| 278670 2008 $RN_{91}$ | 16.9 | X | 26.26145 | 279.72903 | 346.78125 | 3.23062 | 0.0744124 | 0.21807339 | 2.7335956 | 21 | 7 25.6 | 20.1 |
| 278671 2008 $RN_{93}$ | 16.9 | X | 84.56587 | 132.03583 | 172.92529 | 5.01446 | 0.0387068 | 0.23801520 | 2.5786927 | 21 | 12 1.9 | 20.5 |
| 278672 2008 $RO_{93}$ | 16.9 | X | 353.29259 | 125.11884 | 167.83263 | 2.67813 | 0.0485847 | 0.21601787 | 2.7509093 | 21 | 7 8.3 | 20.3 |
| 278673 2008 $RZ_{93}$ | 16.3 | X | 14.28143 | 131.11224 | 9.40583 | 16.17030 | 0.0357716 | 0.18570459 | 3.0426660 | 21 | 1 29.7 | 20.7 |
| 278674 2008 $RA_{94}$ | 17.1 | X | 99.78935 | 95.27074 | 142.75169 | 1.78979 | 0.0870956 | 0.22717878 | 2.6600566 | 21 | 9 29.4 | 20.9 |
| 278675 2008 $RT_{95}$ | 17.5 | X | 187.97133 | 126.29608 | 168.59212 | 12.47014 | 0.2278104 | 0.26444641 | 2.4038697 | 21 | — | — |
| 278676 2008 $RU_{96}$ | 16.0 | X | 134.89041 | 44.60562 | 10.18639 | 8.55527 | 0.0878446 | 0.19020837 | 2.9944448 | 21 | 3 19.6 | 20.3 |
| 278677 2008 $RG_{100}$ | 17.0 | X | 339.53382 | 156.64417 | 189.31739 | 1.49602 | 0.0465876 | 0.22171766 | 2.7035590 | 21 | 8 30.3 | 20.4 |
| 278678 2008 $RQ_{100}$ | 16.3 | X | 215.11273 | 333.00255 | 123.70772 | 2.82112 | 0.0330566 | 0.22044261 | 2.7139740 | 21 | 8 10.2 | 20.0 |
| 278679 2008 $RY_{105}$ | 16.2 | X | 205.15599 | 163.53880 | 209.86437 | 9.92815 | 0.0586653 | 0.19494957 | 2.9456956 | 21 | 4 10.4 | 20.5 |
| 278680 2008 $RU_{106}$ | 16.3 | X | 233.61099 | 75.12882 | 194.12373 | 8.84415 | 0.1139597 | 0.18430801 | 3.0580171 | 21 | 1 4.9 | 21.3 |
| 278681 2008 $RW_{106}$ | 15.2 | X | 77.69161 | 18.96184 | 29.09329 | 17.63405 | 0.1940535 | 0.17831564 | 3.1261496 | 21 | 1 19.1 | 19.4 |
| 278682 2008 $RP_{107}$ | 16.9 | X | 299.89313 | 255.53141 | 129.74066 | 3.68612 | 0.1244084 | 0.22286057 | 2.6943079 | 21 | 8 15.4 | 19.9 |
| 278683 2008 $RX_{109}$ | 17.2 | X | 254.78993 | 43.44985 | 207.86798 | 5.05949 | 0.1471639 | 0.26681672 | 2.3896118 | 21 | — | — |
| 278684 2008 $RQ_{111}$ | 16.6 | X | 162.02732 | 205.53240 | 20.50102 | 13.22682 | 0.0956386 | 0.23794400 | 2.5792071 | 21 | 11 17.6 | 20.6 |
| 278685 2008 $RL_{115}$ | 16.6 | X | 298.20365 | 212.00482 | 182.96248 | 4.17980 | 0.1028380 | 0.22535468 | 2.6743915 | 21 | 8 28.4 | 19.8 |
| 278686 2008 $RN_{115}$ | 16.7 | X | 206.62181 | 154.65265 | 229.78344 | 1.14174 | 0.0858642 | 0.20446886 | 2.8535442 | 21 | 4 24.8 | 21.1 |
| 278687 2008 $RG_{116}$ | 16.8 | X | 66.55147 | 226.47898 | 114.88065 | 7.84485 | 0.1774370 | 0.24187360 | 2.5511955 | 21 | — | — |
| 278688 2008 $RL_{117}$ | 16.4 | X | 310.32133 | 121.09748 | 198.91427 | 7.57416 | 0.0943995 | 0.21476114 | 2.7616305 | 21 | 6 5.7 | 19.9 |
| 278689 2008 $RU_{117}$ | 16.0 | X | 160.90684 | 71.36005 | 280.37224 | 4.98789 | 0.0589546 | 0.18555697 | 3.0442796 | 21 | 1 27.3 | 20.4 |
| 278690 2008 $RZ_{118}$ | 17.1 | X | 109.59228 | 153.62085 | 153.12451 | 4.30064 | 0.1716924 | 0.24424535 | 2.5346530 | 21 | — | — |
| 278691 2008 $RL_{120}$ | 16.0 | X | 74.11477 | 261.48920 | 206.89279 | 15.40732 | 0.1543987 | 0.18621783 | 3.0370728 | 21 | 3 15.9 | 20.1 |
| 278692 2008 $RS_{120}$ | 16.3 | X | 347.66140 | 190.08451 | 178.09907 | 14.26502 | 0.1733635 | 0.22553727 | 2.6729479 | 21 | 10 20.6 | 18.9 |
| 278693 2008 $RV_{128}$ | 16.8 | X | 185.08581 | 78.92450 | 3.56823 | 5.97668 | 0.0203663 | 0.21086165 | 2.7955739 | 21 | 6 13.8 | 20.8 |
| 278694 2008 $RO_{130}$ | 16.1 | X | 3.66710 | 281.68355 | 71.97187 | 18.51036 | 0.3170522 | 0.22979098 | 2.6398590 | 21 | 11 23.5 | 18.3 |
| 278695 2008 $RQ_{130}$ | 16.3 | X | 197.25690 | 123.39377 | 197.58114 | 6.19925 | 0.2199366 | 0.18904810 | 3.0066844 | 21 | 1 31.6 | 21.6 |
| 278696 2008 $RX_{131}$ | 15.4 | X | 132.92917 | 359.39817 | 321.81724 | 25.75164 | 0.2147890 | 0.17744122 | 3.1364115 | 21 | — | — |
| 278697 2008 $RG_{136}$ | 15.7 | X | 236.10180 | 292.49292 | 346.44117 | 11.46793 | 0.1672153 | 0.18959539 | 3.0008955 | 21 | 1 19.4 | 20.7 |
| 278698 2008 $RH_{139}$ | 16.2 | X | 274.07006 | 144.00176 | 233.56137 | 10.93638 | 0.1110137 | 0.21573599 | 2.7533050 | 21 | 6 28.4 | 20.1 |
| 278699 2008 $RP_{139}$ | 16.0 | X | 269.59226 | 45.71150 | 337.39642 | 6.93868 | 0.1118116 | 0.21679379 | 2.7443415 | 21 | 7 1.9 | 19.9 |
| 278700 2008 $RB_{140}$ | 16.3 | X | 111.67399 | 122.56106 | 178.57295 | 8.62075 | 0.1665525 | 0.23902840 | 2.5714004 | 21 | — | — |
| 278701 2008 $RK_{141}$ | 16.2 | X | 296.61707 | 94.06405 | 292.18977 | 5.08320 | 0.0385949 | 0.22372712 | 2.6873463 | 21 | 8 21.8 | 19.8 |
| 278702 2008 $RH_{143}$ | 17.5 | X | 208.21794 | 352.84109 | 280.53236 | 1.30287 | 0.1872769 | 0.26211956 | 2.4180750 | 21 | — | — |
| 278703 2008 $RP_{143}$ | 18.1 | X | 189.09533 | 124.15330 | 166.21045 | 1.50004 | 0.1825990 | 0.26125547 | 2.4234038 | 21 | — | — |
| 278704 2008 $SR_{3}$ | 16.6 | X | 260.23510 | 242.05077 | 167.79248 | 12.04060 | 0.2191234 | 0.21635882 | 2.7480184 | 21 | 7 9.4 | 20.9 |
| 278705 2008 $SV_{17}$ | 16.7 | X | 207.44297 | 118.02719 | 205.07767 | 4.21218 | 0.1074080 | 0.19538347 | 2.9413328 | 21 | 2 10.0 | 21.4 |
| 278706 2008 $SF_{21}$ | 16.3 | X | 228.90616 | 165.32930 | 233.55551 | 2.92798 | 0.1031962 | 0.21290152 | 2.7776885 | 21 | 6 4.9 | 20.6 |
| 278707 2008 $SX_{26}$ | 16.5 | X | 129.34768 | 176.30556 | 268.05848 | 0.87805 | 0.0739009 | 0.19728910 | 2.9223618 | 21 | 4 14.9 | 20.8 |
| 278708 2008 $SQ_{27}$ | 16.9 | X | 8.19496 | 294.77015 | 10.48605 | 4.64438 | 0.0635854 | 0.22127359 | 2.7071750 | 21 | 8 20.7 | 20.2 |
| 278709 2008 $SK_{30}$ | 16.7 | X | 328.02854 | 199.73797 | 169.42221 | 13.58906 | 0.1951919 | 0.22841548 | 2.6504464 | 21 | 9 4.5 | 19.0 |
| 278710 2008 $SQ_{30}$ | 16.9 | X | 39.97516 | 75.17944 | 229.65945 | 9.91921 | 0.0871816 | 0.22810350 | 2.6528626 | 21 | 10 6.8 | 20.3 |
| 278711 2008 $SC_{32}$ | 16.7 | X | 188.34936 | 345.92797 | 251.78844 | 6.01078 | 0.1542543 | 0.24548332 | 2.5261243 | 21 | 12 28.7 | 20.6 |
| 278712 2008 $SE_{36}$ | 17.1 | X | 204.90255 | 253.33312 | 32.96548 | 4.70871 | 0.1797572 | 0.26054351 | 2.4278166 | 21 | — | — |
| 278713 2008 $SY_{38}$ | 16.2 | X | 124.74268 | 9.74340 | 23.43120 | 7.34539 | 0.1613254 | 0.18424687 | 3.0586935 | 21 | 2 21.9 | 20.8 |
| 278714 2008 $SE_{39}$ | 16.9 | X | 318.21205 | 235.49653 | 157.31563 | 3.04144 | 0.0790103 | 0.22568225 | 2.6718031 | 21 | 10 1.1 | 20.1 |
| 278715 2008 $SR_{39}$ | 16.4 | X | 317.46162 | 197.64125 | 152.22277 | 3.06062 | 0.1078775 | 0.21795179 | 2.7346123 | 21 | 7 26.2 | 19.5 |
| 278716 2008 $SX_{39}$ | 17.5 | X | 261.07610 | 134.71295 | 173.33184 | 6.02880 | 0.2525742 | 0.27868982 | 2.3212503 | 21 | 2 24.4 | 21.5 |
| 278717 2008 $SO_{44}$ | 16.0 | X | 189.51627 | 110.99928 | 200.01304 | 10.41018 | 0.0373674 | 0.18057609 | 3.1000061 | 21 | 1 9.0 | 20.7 |
| 278718 2008 $SO_{46}$ | 17.2 | X | 61.30703 | 186.08243 | 135.90796 | 1.59597 | 0.1273334 | 0.23498755 | 2.6007952 | 21 | 12 5.9 | 20.7 |
| 278719 2008 $SB_{50}$ | 16.9 | X | 107.62955 | 86.74529 | 184.31713 | 14.30814 | 0.0663148 | 0.23626227 | 2.5914319 | 21 | 11 20.0 | 20.8 |
| 278720 2008 $SS_{55}$ | 16.1 | X | 79.67692 | 209.16888 | 195.11672 | 1.31547 | 0.0752509 | 0.17673866 | 3.1447178 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278721 2008 $SV_{55}$ | 16.2 | X | 248.35151 | 74.95081 | 201.47659 | 8.00985 | 0.0630588 | 0.18618281 | 3.0374537 | 21 | 1 29.4 | 20.8 |
| 278722 2008 $SJ_{61}$ | 17.3 | X | 156.05944 | 102.43392 | 190.25081 | 2.02762 | 0.1888759 | 0.25731308 | 2.4480943 | 21 | — | — |
| 278723 2008 $SX_{61}$ | 17.2 | X | 155.56247 | 96.48380 | 228.45201 | 2.51656 | 0.1791845 | 0.26162876 | 2.4210981 | 21 | — | — |
| 278724 2008 $SZ_{61}$ | 17.4 | X | 207.83104 | 347.79581 | 318.64610 | 3.43752 | 0.2241487 | 0.27033053 | 2.3688596 | 21 | 1 14.9 | 21.5 |
| 278725 2008 $SN_{64}$ | 15.8 | X | 246.87078 | 198.15270 | 198.11926 | 14.85688 | 0.1249084 | 0.21486925 | 2.7607042 | 21 | 6 18.7 | 20.2 |
| 278726 2008 $SF_{65}$ | 15.6 | X | 54.92730 | 214.89209 | 187.78551 | 25.29318 | 0.1553287 | 0.17380513 | 3.1800040 | 21 | — | — |
| 278727 2008 $SV_{67}$ | 16.3 | X | 332.84888 | 229.00518 | 131.71815 | 5.37729 | 0.1723249 | 0.22326760 | 2.6910323 | 21 | 9 5.5 | 18.8 |
| 278728 2008 $SO_{68}$ | 16.4 | X | 269.30177 | 252.26567 | 144.21573 | 5.47832 | 0.1203760 | 0.21699964 | 2.7426057 | 21 | 7 16.9 | 20.1 |
| 278729 2008 $SJ_{70}$ | 16.7 | X | 56.33256 | 119.32254 | 86.78875 | 2.69874 | 0.0155898 | 0.20724646 | 2.8279906 | 21 | 6 9.5 | 20.4 |
| 278730 2008 $SZ_{70}$ | 16.5 | X | 325.49974 | 313.14600 | 44.04824 | 6.66032 | 0.0511316 | 0.22054008 | 2.7131743 | 21 | 8 28.3 | 19.9 |
| 278731 2008 $SG_{71}$ | 16.8 | X | 289.52038 | 301.44177 | 22.60924 | 6.04092 | 0.0733669 | 0.20340846 | 2.8634528 | 21 | 5 14.6 | 20.8 |
| 278732 2008 $SJ_{71}$ | 15.2 | X | 326.69235 | 116.62425 | 28.27066 | 10.78972 | 0.0648285 | 0.17257590 | 3.1950865 | 21 | — | — |
| 278733 2008 $SR_{72}$ | 16.3 | X | 5.91660 | 145.72376 | 210.85109 | 12.26029 | 0.1678557 | 0.22854144 | 2.6494725 | 21 | 11 7.2 | 19.0 |
| 278734 2008 $SN_{82}$ | 16.3 | X | 60.46729 | 302.78529 | 19.11864 | 4.49813 | 0.2800703 | 0.23406815 | 2.6076012 | 21 | 12 22.7 | 20.3 |
| 278735 Kamioka | 16.5 | X | 247.97702 | 213.78940 | 185.12725 | 4.37480 | 0.0857693 | 0.21539862 | 2.7561791 | 21 | 6 28.4 | 20.4 |
| 278736 2008 $SX_{84}$ | 16.6 | X | 158.39826 | 84.38049 | 234.39037 | 7.87114 | 0.2560211 | 0.25388097 | 2.4701081 | 21 | — | — |
| 278737 2008 $SR_{86}$ | 15.9 | X | 171.28000 | 14.33334 | 281.17892 | 5.70775 | 0.1351721 | 0.17718729 | 3.1394074 | 21 | — | — |
| 278738 2008 $SA_{87}$ | 17.0 | X | 296.82375 | 47.12440 | 303.84972 | 4.73808 | 0.0735754 | 0.21436934 | 2.7649945 | 21 | 7 1.2 | 20.6 |
| 278739 2008 $SD_{91}$ | 17.1 | X | 48.66047 | 62.66329 | 269.09458 | 0.95188 | 0.1975667 | 0.23587863 | 2.5942410 | 21 | 12 12.8 | 20.4 |
| 278740 2008 $SP_{92}$ | 16.7 | X | 155.90755 | 182.41725 | 200.14713 | 8.33768 | 0.1120037 | 0.18887355 | 3.0085366 | 21 | 3 2.5 | 21.4 |
| 278741 2008 $SM_{94}$ | 16.6 | X | 195.70180 | 238.85320 | 205.05850 | 2.92664 | 0.0693195 | 0.21277708 | 2.7787714 | 21 | 6 27.9 | 20.6 |
| 278742 2008 $ST_{94}$ | 16.4 | X | 13.08731 | 139.06225 | 207.65278 | 11.31935 | 0.1882472 | 0.22982811 | 2.6395747 | 21 | 11 9.7 | 19.2 |
| 278743 2008 $SW_{95}$ | 16.3 | X | 61.84493 | 34.50404 | 219.66308 | 8.10442 | 0.0316371 | 0.21765899 | 2.7370641 | 21 | 8 19.9 | 20.1 |
| 278744 2008 $SX_{95}$ | 16.7 | X | 283.48777 | 36.43041 | 337.99120 | 3.54624 | 0.1208848 | 0.21406087 | 2.7676501 | 21 | 7 7.1 | 20.3 |
| 278745 2008 $SL_{96}$ | 16.3 | X | 351.02692 | 120.91979 | 206.52202 | 13.98194 | 0.0974635 | 0.22051735 | 2.7133607 | 21 | 8 17.8 | 19.7 |
| 278746 2008 $SZ_{98}$ | 15.7 | X | 108.76891 | 214.34658 | 184.97331 | 10.43320 | 0.0878659 | 0.18049419 | 3.1009438 | 21 | 1 27.8 | 20.1 |
| 278747 2008 $SS_{100}$ | 17.1 | X | 63.23146 | 274.83273 | 61.05501 | 5.84096 | 0.1248275 | 0.23766977 | 2.5811907 | 21 | 12 25.4 | 20.7 |
| 278748 2008 $SP_{101}$ | 16.7 | X | 57.57173 | 115.49177 | 105.19440 | 5.16940 | 0.0417646 | 0.20913156 | 2.8109708 | 21 | 7 4.3 | 20.5 |
| 278749 2008 $SJ_{102}$ | 17.0 | X | 191.38259 | 241.84773 | 78.02120 | 4.78335 | 0.2476807 | 0.26436103 | 2.4043873 | 21 | 1 20.1 | 21.0 |
| 278750 2008 $SM_{103}$ | 16.4 | X | 337.61022 | 162.46541 | 195.37451 | 5.81001 | 0.0551879 | 0.21970923 | 2.7200101 | 21 | 9 11.5 | 19.9 |
| 278751 2008 $SH_{106}$ | 16.7 | X | 98.02704 | 65.37886 | 199.15890 | 4.60764 | 0.2118271 | 0.23087041 | 2.6316242 | 21 | 11 11.8 | 21.0 |
| 278752 2008 $SU_{107}$ | 16.6 | X | 301.58435 | 136.12762 | 217.00162 | 8.50198 | 0.1677576 | 0.21651743 | 2.7466763 | 21 | 6 25.5 | 20.1 |
| 278753 2008 $SB_{108}$ | 15.9 | X | 61.05537 | 203.90010 | 181.55449 | 9.83711 | 0.0753089 | 0.17476368 | 3.1683654 | 21 | — | — |
| 278754 2008 $SG_{108}$ | 17.1 | X | 252.22503 | 118.74695 | 244.23280 | 2.18389 | 0.1958379 | 0.21042775 | 2.7994156 | 21 | 5 6.0 | 21.3 |
| 278755 2008 $SG_{111}$ | 16.1 | X | 57.49327 | 98.03920 | 115.44253 | 3.79419 | 0.0210357 | 0.20881353 | 2.8138242 | 21 | 6 21.7 | 19.9 |
| 278756 2008 $SP_{117}$ | 17.1 | X | 73.38138 | 104.71596 | 203.80286 | 4.69093 | 0.1288981 | 0.23476192 | 2.6024613 | 21 | 12 3.2 | 20.8 |
| 278757 2008 $SJ_{120}$ | 16.1 | X | 136.58917 | 198.53263 | 202.03699 | 10.25862 | 0.1342118 | 0.18641903 | 3.0348872 | 21 | 3 6.3 | 20.9 |
| 278758 2008 $SC_{122}$ | 16.6 | X | 308.75810 | 118.31455 | 220.39674 | 2.82719 | 0.1014258 | 0.21274834 | 2.7790216 | 21 | 6 27.5 | 20.0 |
| 278759 2008 $SL_{122}$ | 17.0 | X | 69.55652 | 54.78095 | 253.65976 | 1.00537 | 0.1155744 | 0.23324188 | 2.6137559 | 21 | 11 26.4 | 20.6 |
| 278760 2008 $SN_{125}$ | 16.4 | X | 252.54821 | 77.84185 | 280.40657 | 0.94170 | 0.0804127 | 0.20382037 | 2.8595936 | 21 | 5 12.9 | 20.6 |
| 278761 2008 $SY_{126}$ | 16.1 | X | 95.95104 | 295.02915 | 216.61098 | 5.32947 | 0.0160135 | 0.20245054 | 2.8724783 | 21 | 5 22.0 | 20.0 |
| 278762 2008 $SV_{136}$ | 15.8 | X | 218.72144 | 70.74196 | 350.13706 | 5.75239 | 0.0310914 | 0.21003250 | 2.8029266 | 21 | 6 28.2 | 19.8 |
| 278763 2008 $SD_{138}$ | 16.3 | X | 166.12077 | 261.39603 | 121.21618 | 3.99846 | 0.1436216 | 0.18954548 | 3.0014223 | 21 | 3 18.2 | 21.0 |
| 278764 2008 $SY_{138}$ | 16.4 | X | 62.91049 | 155.78946 | 83.94587 | 5.52364 | 0.0143941 | 0.21276785 | 2.7788517 | 21 | 8 4.1 | 20.1 |
| 278765 2008 $SW_{143}$ | 16.9 | X | 85.06206 | 95.63190 | 189.45870 | 4.14989 | 0.1636936 | 0.23041119 | 2.6351196 | 21 | 11 20.2 | 20.9 |
| 278766 2008 $SY_{143}$ | 16.1 | X | 31.98663 | 84.68310 | 98.63350 | 2.39368 | 0.0841327 | 0.19133254 | 2.9827040 | 21 | 4 13.4 | 19.8 |
| 278767 2008 $SJ_{149}$ | 15.5 | X | 223.13165 | 284.66190 | 333.66397 | 8.70353 | 0.0380755 | 0.17951754 | 3.1121805 | 21 | — | — |
| 278768 2008 $SY_{149}$ | 16.2 | X | 262.01563 | 206.04546 | 203.43400 | 5.68755 | 0.0340675 | 0.21793942 | 2.7347157 | 21 | 8 5.5 | 19.9 |
| 278769 2008 $SR_{153}$ | 16.4 | X | 257.69859 | 7.34344 | 11.02083 | 3.66758 | 0.2283201 | 0.21217088 | 2.7840618 | 21 | 5 26.8 | 20.7 |
| 278770 2008 $SS_{154}$ | 17.0 | X | 226.15636 | 237.16145 | 69.05542 | 2.25848 | 0.1890812 | 0.27102364 | 2.3648191 | 21 | 1 29.3 | 20.8 |
| 278771 2008 $SD_{155}$ | 15.9 | X | 149.08043 | 336.66262 | 104.05104 | 3.23848 | 0.0442132 | 0.20074273 | 2.8887469 | 21 | 5 1.7 | 20.0 |
| 278772 2008 $SL_{156}$ | 16.2 | X | 192.58918 | 320.97696 | 83.23668 | 3.15972 | 0.0698142 | 0.20281299 | 2.8690550 | 21 | 5 5.8 | 20.6 |
| 278773 2008 $SN_{156}$ | 16.5 | X | 329.89241 | 156.49258 | 188.90802 | 15.45062 | 0.2880527 | 0.21997329 | 2.7178329 | 21 | 7 16.8 | 19.2 |
| 278774 2008 $SP_{156}$ | 15.8 | X | 130.47883 | 165.77482 | 167.86859 | 13.91334 | 0.2805545 | 0.18025266 | 3.1037133 | 21 | — | — |
| 278775 2008 $SA_{157}$ | 16.5 | X | 346.54654 | 19.71204 | 329.44877 | 5.15344 | 0.1187356 | 0.22693246 | 2.6619811 | 21 | 9 14.7 | 19.2 |
| 278776 2008 $SR_{158}$ | 17.6 | X | 89.58252 | 140.64848 | 189.28442 | 1.30894 | 0.1808396 | 0.24617226 | 2.5214090 | 21 | — | — |
| 278777 2008 $SQ_{161}$ | 16.8 | X | 301.63817 | 196.24157 | 171.96759 | 5.08605 | 0.1297795 | 0.21912614 | 2.7248332 | 21 | 7 22.6 | 20.2 |
| 278778 2008 $SX_{163}$ | 15.8 | X | 86.63213 | 271.02879 | 133.78259 | 2.46083 | 0.1742390 | 0.17849260 | 3.1240831 | 21 | 1 20.6 | 19.8 |
| 278779 2008 $SC_{164}$ | 16.7 | X | 359.60320 | 188.02678 | 183.28565 | 3.47508 | 0.1858887 | 0.23158586 | 2.6262013 | 21 | 11 19.5 | 19.3 |
| 278780 2008 $SN_{171}$ | 15.6 | X | 0.87837 | 279.60650 | 194.67233 | 13.79644 | 0.1345831 | 0.17641942 | 3.1485103 | 21 | — | — |
| 278781 2008 $SD_{176}$ | 15.7 | X | 71.46907 | 89.72254 | 2.38025 | 11.80946 | 0.0726944 | 0.18382663 | 3.0633534 | 21 | 2 16.5 | 19.8 |
| 278782 2008 $SY_{182}$ | 16.6 | X | 256.59074 | 127.16289 | 192.47718 | 5.66713 | 0.0721966 | 0.19536315 | 2.9415368 | 21 | 3 31.7 | 20.8 |
| 278783 2008 $SS_{183}$ | 16.5 | X | 283.00459 | 239.81995 | 65.70493 | 2.95314 | 0.0466792 | 0.19942731 | 2.9014357 | 21 | 4 18.6 | 20.4 |
| 278784 2008 $SM_{184}$ | 15.5 | X | 310.62937 | 219.58683 | 50.52607 | 8.33689 | 0.0085987 | 0.19034432 | 2.9930187 | 21 | 4 16.4 | 19.6 |
| 278785 2008 $SU_{186}$ | 16.2 | X | 58.54109 | 302.32075 | 252.31119 | 3.88846 | 0.0619578 | 0.20449776 | 2.8532753 | 21 | 6 3.2 | 19.9 |
| 278786 2008 $SF_{190}$ | 17.4 | X | 184.38037 | 128.23334 | 357.87059 | 4.04773 | 0.0807495 | 0.29195062 | 2.2504176 | 21 | 8 13.4 | 20.5 |
| 278787 2008 $SW_{190}$ | 16.6 | X | 67.24804 | 256.98961 | 230.73742 | 4.90332 | 0.1416613 | 0.19153018 | 2.9806517 | 21 | 3 29.4 | 20.3 |
| 278788 2008 $SF_{191}$ | 15.8 | X | 199.78397 | 182.95093 | 256.84123 | 3.82823 | 0.0303118 | 0.21207816 | 2.7848731 | 21 | 6 28.9 | 19.6 |
| 278789 2008 $SC_{196}$ | 16.6 | X | 357.45164 | 256.36857 | 41.76388 | 4.24483 | 0.0757494 | 0.21258099 | 2.7804799 | 21 | 7 23.6 | 20.0 |
| 278790 2008 $SX_{196}$ | 16.6 | X | 350.80056 | 137.90589 | 192.91008 | 5.31474 | 0.0272460 | 0.21710748 | 2.7416975 | 21 | 8 24.8 | 20.1 |
| 278791 2008 $SL_{198}$ | 16.3 | X | 282.10430 | 219.64768 | 122.23389 | 3.03258 | 0.1068045 | 0.20595336 | 2.8398155 | 21 | 5 25.2 | 20.3 |
| 278792 2008 $SK_{202}$ | 15.6 | X | 236.52353 | 123.93164 | 27.57744 | 10.16881 | 0.0330692 | 0.15341002 | 3.4559456 | 21 | 11 4.6 | 20.5 |
| 278793 2008 $SA_{204}$ | 16.7 | X | 78.52936 | 143.27105 | 187.14298 | 8.66173 | 0.1766825 | 0.23928745 | 2.5695443 | 21 | — | — |
| 278794 2008 $SW_{207}$ | 16.0 | X | 107.76785 | 215.75248 | 103.94464 | 15.29767 | 0.2108152 | 0.24525615 | 2.5276840 | 21 | — | — |
| 278795 2008 $SC_{210}$ | 17.6 | X | 67.68121 | 301.33771 | 347.20626 | 0.29690 | 0.1645514 | 0.23215652 | 2.6218960 | 21 | 11 5.3 | 21.2 |
| 278796 2008 $SN_{218}$ | 16.7 | X | 344.58362 | 255.62411 | 110.96326 | 4.31394 | 0.0930573 | 0.22971807 | 2.6404175 | 21 | 10 10.1 | 19.7 |
| 278797 2008 $SS_{218}$ | 16.8 | X | 191.90055 | 75.36097 | 236.67348 | 3.85634 | 0.2428069 | 0.26566479 | 2.3965145 | 21 | 1 9.6 | 20.8 |
| 278798 2008 $SE_{229}$ | 16.8 | X | 127.49012 | 346.16892 | 291.53067 | 3.99162 | 0.1403349 | 0.24339664 | 2.5405417 | 21 | 12 21.1 | 20.9 |
| 278799 2008 $SY_{232}$ | 16.8 | X | 280.31086 | 349.88347 | 52.67515 | 5.77490 | 0.0452986 | 0.22045459 | 2.7138757 | 21 | 8 24.6 | 20.4 |
| 278800 2008 $ST_{233}$ | 16.8 | X | 56.47556 | 151.57180 | 95.99839 | 3.30484 | 0.0592963 | 0.21856266 | 2.7295145 | 21 | 8 12.2 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278801 2008 $SJ_{235}$ | 16.2 | X | 49.32183 | 90.58861 | 171.98010 | 9.12978 | 0.0680125 | 0.22094347 | 2.7098709 | 21 | 8 21.5 | 19.8 |
| 278802 2008 $SK_{238}$ | 16.4 | X | 55.66187 | 220.99807 | 55.04356 | 7.05670 | 0.0740601 | 0.22207427 | 2.7006640 | 21 | 9 23.9 | 20.0 |
| 278803 2008 $ST_{238}$ | 16.4 | X | 27.65839 | 331.71521 | 159.81451 | 3.87694 | 0.2048415 | 0.18284710 | 3.0742841 | 21 | 1 29.6 | 19.4 |
| 278804 2008 $SM_{241}$ | 16.4 | X | 268.79651 | 0.80470 | 61.74451 | 3.97635 | 0.0897603 | 0.22152738 | 2.7051070 | 21 | 8 27.9 | 19.9 |
| 278805 2008 $SX_{242}$ | 16.5 | X | 96.48458 | 112.02986 | 202.47305 | 7.96303 | 0.1733670 | 0.23975801 | 2.5661811 | 21 | — | — |
| 278806 2008 $SC_{244}$ | 16.2 | X | 66.63424 | 50.84551 | 5.24283 | 6.29163 | 0.0736002 | 0.17708004 | 3.1406749 | 21 | — | — |
| 278807 2008 $SQ_{244}$ | 16.5 | X | 204.67783 | 146.34346 | 246.19895 | 1.07832 | 0.0778123 | 0.20317091 | 2.8656845 | 21 | 5 3.1 | 20.8 |
| 278808 2008 $SY_{244}$ | 16.5 | X | 194.07743 | 349.69390 | 186.31087 | 9.27776 | 0.0030011 | 0.23164351 | 2.6257656 | 21 | 11 1.3 | 20.1 |
| 278809 2008 $SS_{246}$ | 16.8 | X | 292.17538 | 192.98735 | 202.06063 | 5.42339 | 0.0303515 | 0.22182489 | 2.7026877 | 21 | 8 28.3 | 20.4 |
| 278810 2008 $SH_{248}$ | 16.8 | X | 221.67310 | 213.55669 | 174.32686 | 2.08779 | 0.0781124 | 0.20372089 | 2.8605245 | 21 | 5 16.5 | 20.9 |
| 278811 2008 $SW_{248}$ | 17.4 | X | 182.80725 | 108.06595 | 231.15365 | 3.87367 | 0.2488910 | 0.26879561 | 2.3778691 | 21 | 2 2.9 | 21.5 |
| 278812 2008 $SG_{253}$ | 15.9 | X | 144.62215 | 234.43777 | 181.48611 | 10.83261 | 0.0802807 | 0.19160250 | 2.9799017 | 21 | 3 30.3 | 20.2 |
| 278813 2008 $SV_{253}$ | 16.6 | X | 353.30821 | 250.08626 | 92.80780 | 3.64376 | 0.0982818 | 0.22414721 | 2.6839875 | 21 | 9 20.6 | 19.6 |
| 278814 2008 $SC_{255}$ | 16.2 | X | 6.73883 | 141.00227 | 152.93142 | 7.28206 | 0.0515538 | 0.21534516 | 2.7566353 | 21 | 7 29.9 | 19.7 |
| 278815 2008 $SO_{255}$ | 16.0 | X | 249.58058 | 10.67013 | 242.37125 | 3.58122 | 0.1204881 | 0.18241624 | 3.0791231 | 21 | 1 2.1 | 20.8 |
| 278816 2008 $SQ_{255}$ | 16.1 | X | 82.05516 | 323.14698 | 182.97407 | 11.64134 | 0.0637838 | 0.19682029 | 2.9270006 | 21 | 5 5.7 | 20.2 |
| 278817 2008 $SD_{256}$ | 16.4 | X | 40.58699 | 64.77293 | 6.62720 | 0.87417 | 0.1332842 | 0.17180999 | 3.2045750 | 21 | — | — |
| 278818 2008 $SL_{257}$ | 16.1 | X | 81.86284 | 66.82208 | 217.90452 | 13.64168 | 0.0907820 | 0.22780886 | 2.6551495 | 21 | 11 7.3 | 19.8 |
| 278819 2008 $SS_{258}$ | 16.2 | X | 354.79912 | 117.01459 | 236.11297 | 11.40831 | 0.1839645 | 0.22744774 | 2.6579591 | 21 | 10 8.0 | 18.9 |
| 278820 2008 $SL_{261}$ | 16.5 | X | 349.56793 | 131.54259 | 164.16508 | 4.61845 | 0.0377361 | 0.21065917 | 2.7973650 | 21 | 7 6.6 | 20.1 |
| 278821 2008 $ST_{261}$ | 17.2 | X | 281.91955 | 55.10303 | 297.81948 | 1.40037 | 0.0858594 | 0.21247743 | 2.7813833 | 21 | 6 10.8 | 20.9 |
| 278822 2008 $SF_{262}$ | 16.2 | X | 62.94081 | 29.71801 | 51.89330 | 2.97471 | 0.0316610 | 0.18134155 | 3.0912764 | 21 | 1 16.5 | 20.3 |
| 278823 2008 $SZ_{263}$ | 16.5 | X | 313.25099 | 254.48364 | 82.64057 | 2.72053 | 0.0770695 | 0.21124066 | 2.7922291 | 21 | 7 5.9 | 19.8 |
| 278824 2008 $SF_{266}$ | 16.0 | X | 311.05305 | 256.70809 | 57.33429 | 3.22922 | 0.0325680 | 0.20677495 | 2.8322882 | 21 | 6 6.8 | 19.6 |
| 278825 2008 $SS_{268}$ | 16.0 | X | 266.20022 | 274.83753 | 112.70563 | 8.81209 | 0.0564445 | 0.21242696 | 2.7818239 | 21 | 7 10.9 | 19.8 |
| 278826 2008 $SY_{268}$ | 15.9 | X | 281.07236 | 123.51395 | 260.96113 | 7.23973 | 0.0667335 | 0.21666246 | 2.7454504 | 21 | 7 23.7 | 19.7 |
| 278827 2008 $SV_{269}$ | 16.4 | X | 35.86265 | 215.62744 | 104.36879 | 1.98138 | 0.1894550 | 0.22570947 | 2.6715883 | 21 | 11 8.8 | 19.7 |
| 278828 2008 $SA_{272}$ | 14.9 | X | 127.52759 | 292.97296 | 93.43800 | 13.84226 | 0.1944026 | 0.18124127 | 3.0924165 | 21 | 2 22.5 | 19.8 |
| 278829 2008 $SV_{272}$ | 15.8 | X | 199.45994 | 288.80227 | 45.68818 | 1.26160 | 0.0508498 | 0.18145043 | 3.0900397 | 21 | 2 18.9 | 20.3 |
| 278830 2008 $SB_{273}$ | 16.1 | X | 338.45792 | 173.18953 | 178.54213 | 14.47895 | 0.2141164 | 0.22101936 | 2.7092506 | 21 | 8 28.8 | 18.6 |
| 278831 2008 $SS_{285}$ | 17.0 | X | 96.04728 | 283.05562 | 334.88081 | 3.22012 | 0.1461644 | 0.22884656 | 2.6471169 | 21 | 10 24.9 | 20.9 |
| 278832 2008 $ST_{286}$ | 15.2 | X | 330.04107 | 5.28732 | 253.73974 | 12.15187 | 0.1036204 | 0.20208048 | 2.8759841 | 21 | 4 8.4 | 19.0 |
| 278833 2008 $SN_{287}$ | 16.3 | X | 138.27165 | 106.81727 | 324.69915 | 5.35449 | 0.0688866 | 0.19319758 | 2.9634772 | 21 | 4 7.0 | 20.6 |
| 278834 2008 $SR_{288}$ | 15.9 | X | 120.98139 | 79.93814 | 167.47705 | 12.88333 | 0.2295349 | 0.23172766 | 2.6251299 | 21 | 11 13.8 | 20.6 |
| 278835 2008 $SB_{289}$ | 16.2 | X | 41.80713 | 135.19401 | 7.87223 | 8.97982 | 0.0679447 | 0.18882809 | 3.0090194 | 21 | 3 7.5 | 20.0 |
| 278836 2008 $SC_{289}$ | 16.6 | X | 25.81735 | 279.00118 | 357.95949 | 3.91280 | 0.0959594 | 0.21785573 | 2.7354161 | 21 | 8 11.4 | 19.8 |
| 278837 2008 $SQ_{295}$ | 15.9 | X | 321.30378 | 14.18285 | 309.40546 | 13.61365 | 0.1803362 | 0.21895053 | 2.7262900 | 21 | 6 15.7 | 19.1 |
| 278838 2008 $ST_{300}$ | 16.8 | X | 331.16171 | 309.55674 | 49.90949 | 5.08900 | 0.0912956 | 0.22423039 | 2.6833237 | 21 | 9 6.7 | 19.9 |
| 278839 2008 $SL_{301}$ | 16.0 | X | 251.69218 | 294.39736 | 107.69755 | 4.48289 | 0.0243623 | 0.21381458 | 2.7697751 | 21 | 7 16.2 | 19.6 |
| 278840 2008 $SE_{303}$ | 16.0 | X | 131.89831 | 172.97671 | 182.44298 | 10.51491 | 0.0546019 | 0.18254274 | 3.0777004 | 21 | — | — |
| 278841 2008 $SH_{304}$ | 16.3 | X | 3.69284 | 188.30526 | 114.26863 | 7.07343 | 0.0405773 | 0.21575369 | 2.7531543 | 21 | 8 7.7 | 19.7 |
| 278842 2008 $SJ_{304}$ | 16.5 | X | 33.18018 | 185.00245 | 139.39919 | 7.37614 | 0.1103127 | 0.22843566 | 2.6502903 | 21 | 11 1.4 | 19.9 |
| 278843 2008 $SV_{305}$ | 16.2 | X | 348.68774 | 173.89504 | 175.94838 | 10.61282 | 0.0263500 | 0.22491788 | 2.6778530 | 21 | 9 18.9 | 19.6 |
| 278844 2008 $SE_{308}$ | 16.6 | X | 305.27072 | 183.55245 | 155.28996 | 5.47243 | 0.0986829 | 0.20662553 | 2.8336534 | 21 | 6 23.1 | 20.3 |
| 278845 2008 $SV_{308}$ | 17.0 | X | 69.88446 | 261.21465 | 49.83468 | 4.83462 | 0.1330548 | 0.23747196 | 2.5826239 | 21 | 12 2.6 | 20.5 |
| 278846 2008 $SH_{309}$ | 15.6 | X | 74.95770 | 29.18380 | 50.19123 | 14.95285 | 0.1001364 | 0.17977086 | 3.1092562 | 21 | 2 12.1 | 19.9 |
| 278847 2008 $TX_{1}$ | 16.2 | X | 310.59157 | 141.74443 | 212.54162 | 5.34537 | 0.0287144 | 0.21761299 | 2.7374498 | 21 | 7 29.8 | 19.9 |
| 278848 2008 $TX_{2}$ | 16.1 | X | 77.25496 | 253.25498 | 212.26569 | 9.18676 | 0.0472971 | 0.19026222 | 2.9938797 | 21 | 3 1.6 | 20.3 |
| 278849 2008 $TU_{5}$ | 16.3 | X | 136.36259 | 267.12578 | 7.74081 | 5.92416 | 0.0947168 | 0.24284722 | 2.5443721 | 21 | 12 25.7 | 20.2 |
| 278850 2008 $TU_{7}$ | 16.9 | X | 260.81812 | 271.40300 | 98.87651 | 1.71842 | 0.0883938 | 0.21027985 | 2.8007281 | 21 | 6 6.5 | 20.7 |
| 278851 2008 $TV_{8}$ | 15.9 | X | 224.21655 | 309.87774 | 121.54283 | 7.40024 | 0.0630922 | 0.21665123 | 2.7455453 | 21 | 7 15.4 | 19.6 |
| 278852 2008 $TM_{16}$ | 16.2 | X | 260.06334 | 293.23623 | 84.98987 | 10.36226 | 0.1831020 | 0.21123465 | 2.7922820 | 21 | 6 4.4 | 20.5 |
| 278853 2008 $TG_{17}$ | 16.8 | X | 351.67021 | 311.38028 | 13.01627 | 3.15876 | 0.1472529 | 0.21821453 | 2.7324168 | 21 | 8 21.0 | 19.6 |
| 278854 2008 $TS_{20}$ | 16.3 | X | 40.28636 | 257.13129 | 218.68779 | 13.82077 | 0.0667838 | 0.17849261 | 3.1240829 | 21 | 1 25.7 | 20.7 |
| 278855 2008 $TX_{21}$ | 16.0 | X | 110.93603 | 157.02525 | 230.88708 | 2.56677 | 0.1696342 | 0.17792109 | 3.1307695 | 21 | 1 29.7 | 20.4 |
| 278856 2008 $TZ_{22}$ | 16.4 | X | 137.24784 | 320.99128 | 147.01185 | 2.64203 | 0.0200516 | 0.20313918 | 2.8659829 | 21 | 5 19.2 | 20.3 |
| 278857 2008 $TY_{24}$ | 16.1 | X | 1.52451 | 73.26617 | 37.74538 | 9.92806 | 0.0640550 | 0.17490048 | 3.1667131 | 21 | — | — |
| 278858 2008 $TW_{27}$ | 16.2 | X | 112.25080 | 359.41835 | 55.27002 | 2.28274 | 0.1393927 | 0.18492784 | 3.0511801 | 21 | 3 1.0 | 20.5 |
| 278859 2008 $TL_{29}$ | 17.6 | X | 62.92058 | 127.52065 | 185.85651 | 4.82925 | 0.1702468 | 0.23680275 | 2.5874873 | 21 | 12 3.3 | 21.2 |
| 278860 2008 $TN_{29}$ | 16.5 | X | 293.67481 | 271.48795 | 96.42139 | 4.65288 | 0.2232904 | 0.21804026 | 2.7338725 | 21 | 6 25.6 | 19.7 |
| 278861 2008 $TR_{30}$ | 16.4 | X | 246.79945 | 130.54716 | 196.22041 | 1.58559 | 0.0948879 | 0.19743055 | 2.9209659 | 21 | 3 27.1 | 20.6 |
| 278862 2008 $TG_{33}$ | 16.9 | X | 61.30338 | 166.66839 | 182.60116 | 4.22656 | 0.1940826 | 0.24026894 | 2.5625418 | 21 | — | — |
| 278863 2008 $TO_{35}$ | 16.5 | X | 308.67667 | 167.40199 | 201.69209 | 5.54540 | 0.0332948 | 0.22017951 | 2.7161356 | 21 | 8 15.8 | 20.0 |
| 278864 2008 $TT_{38}$ | 16.2 | X | 25.54333 | 92.17700 | 12.72209 | 9.46350 | 0.0662256 | 0.17454684 | 3.1709889 | 21 | — | — |
| 278865 2008 $TW_{44}$ | 16.3 | X | 308.53868 | 161.87900 | 36.51518 | 14.69975 | 0.0970581 | 0.17682724 | 3.1436675 | 21 | 1 5.1 | 21.0 |
| 278866 2008 $TP_{49}$ | 16.5 | X | 155.84302 | 302.41708 | 192.02381 | 6.28930 | 0.0186867 | 0.21292544 | 2.7774805 | 21 | 7 14.7 | 20.5 |
| 278867 2008 $TR_{53}$ | 16.9 | X | 87.31477 | 83.08028 | 167.71414 | 4.25649 | 0.0960398 | 0.22514881 | 2.6760216 | 21 | 10 2.1 | 20.7 |
| 278868 2008 $TT_{56}$ | 15.5 | X | 136.16148 | 334.19932 | 25.82646 | 10.85416 | 0.0375627 | 0.17933966 | 3.1142381 | 21 | 1 10.7 | 20.1 |
| 278869 2008 $TD_{57}$ | 16.7 | X | 0.05743 | 132.70202 | 186.33771 | 1.32561 | 0.0430086 | 0.21965643 | 2.7204459 | 21 | 8 24.0 | 19.9 |
| 278870 2008 $TX_{57}$ | 16.7 | X | 243.27282 | 319.61079 | 24.10845 | 2.14365 | 0.0776050 | 0.20022504 | 2.8937241 | 21 | 4 14.6 | 21.0 |
| 278871 2008 $TC_{58}$ | 16.4 | X | 348.90302 | 286.07459 | 30.31032 | 7.01782 | 0.0606753 | 0.21686348 | 2.7437536 | 21 | 8 6.5 | 19.8 |
| 278872 2008 $TG_{62}$ | 16.0 | X | 65.21004 | 238.72755 | 211.55077 | 8.98487 | 0.0684732 | 0.18133954 | 3.0912992 | 21 | 1 29.9 | 20.2 |
| 278873 2008 $TH_{62}$ | 16.8 | X | 119.06962 | 233.25492 | 236.00204 | 0.86817 | 0.0177153 | 0.19817246 | 2.9136710 | 21 | 4 26.8 | 20.6 |
| 278874 2008 $TS_{62}$ | 16.4 | X | 92.89780 | 40.00829 | 217.47778 | 4.02647 | 0.0591466 | 0.22577532 | 2.6710688 | 21 | 10 11.5 | 20.2 |
| 278875 2008 $TC_{63}$ | 16.0 | X | 318.89127 | 278.36960 | 103.58148 | 9.76987 | 0.1832215 | 0.22424943 | 2.6831719 | 21 | 9 10.6 | 18.8 |
| 278876 2008 $TM_{64}$ | 16.4 | X | 173.95452 | 186.21471 | 185.22106 | 2.25658 | 0.1315571 | 0.18985634 | 2.9981451 | 21 | 3 9.8 | 21.1 |
| 278877 2008 $TA_{68}$ | 16.0 | X | 336.40686 | 137.04058 | 47.70569 | 11.88134 | 0.0907890 | 0.18111827 | 3.0938164 | 21 | 1 26.1 | 20.3 |
| 278878 2008 $TS_{69}$ | 16.0 | X | 37.96218 | 47.86549 | 63.40679 | 6.31290 | 0.1092840 | 0.17775473 | 3.1327226 | 21 | 1 23.9 | 19.9 |
| 278879 2008 $TF_{71}$ | 16.7 | X | 356.52187 | 220.22356 | 87.72809 | 4.74566 | 0.1162918 | 0.21619195 | 2.7494324 | 21 | 8 5.6 | 19.7 |
| 278880 2008 $TX_{73}$ | 16.1 | X | 353.39782 | 14.30763 | 306.21785 | 1.74216 | 0.0703347 | 0.21597409 | 2.7512810 | 21 | 8 16.2 | 19.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278881 2008 $TC_{76}$ | 16.0 | X | 11.30170 | 111.39655 | 15.37296 | 10.56258 | 0.0632136 | 0.18011027 | 3.1053489 | 21 | 1 3.9 | 20.3 |
| 278882 2008 $TH_{77}$ | 17.5 | X | 215.16689 | 263.74555 | 22.39888 | 4.12734 | 0.1973041 | 0.26419460 | 2.4053969 | 21 | — | — |
| 278883 2008 $TL_{78}$ | 17.4 | X | 124.73770 | 291.29721 | 181.43358 | 5.93239 | 0.1622945 | 0.27602855 | 2.3361463 | 21 | 5 23.5 | 20.7 |
| 278884 2008 $TF_{79}$ | 16.4 | X | 348.56056 | 92.92762 | 182.17211 | 7.42768 | 0.1920726 | 0.21292548 | 2.7774801 | 21 | 5 28.7 | 19.2 |
| 278885 2008 $TF_{82}$ | 16.8 | X | 37.99753 | 335.84476 | 346.55090 | 4.47529 | 0.1985176 | 0.23346061 | 2.6121231 | 21 | 11 15.6 | 20.1 |
| 278886 2008 $TD_{84}$ | 16.3 | X | 142.80696 | 175.42302 | 203.20874 | 7.99473 | 0.0858992 | 0.18584921 | 3.0410874 | 21 | 2 9.6 | 20.9 |
| 278887 2008 $TA_{86}$ | 16.2 | X | 133.84537 | 209.99421 | 13.35600 | 13.22995 | 0.1139769 | 0.23016429 | 2.6370038 | 21 | 10 17.7 | 20.2 |
| 278888 2008 $TP_{87}$ | 16.4 | X | 356.43697 | 141.41277 | 178.01574 | 8.66695 | 0.2259800 | 0.22191417 | 2.7019628 | 21 | 8 23.5 | 18.8 |
| 278889 2008 $TC_{88}$ | 16.1 | X | 335.73697 | 290.33696 | 85.69133 | 3.49221 | 0.2183586 | 0.22574661 | 2.6712953 | 21 | 10 5.4 | 18.2 |
| 278890 2008 $TK_{88}$ | 15.9 | X | 81.93536 | 16.13759 | 50.80949 | 13.96792 | 0.0900146 | 0.17974450 | 3.1095603 | 21 | 2 3.5 | 20.3 |
| 278891 2008 $TL_{94}$ | 16.2 | X | 235.78290 | 172.15955 | 110.81638 | 2.64589 | 0.1930118 | 0.18930607 | 3.0039522 | 21 | 1 20.1 | 21.2 |
| 278892 2008 $TZ_{103}$ | 17.1 | X | 295.29366 | 212.41143 | 191.13514 | 4.99241 | 0.0628735 | 0.22166328 | 2.7040012 | 21 | 9 9.9 | 20.6 |
| 278893 2008 $TV_{104}$ | 16.7 | X | 275.23988 | 279.37742 | 8.32280 | 4.23771 | 0.0230943 | 0.19337452 | 2.9616692 | 21 | 3 20.9 | 20.8 |
| 278894 2008 $TD_{108}$ | 16.3 | X | 300.33957 | 62.38998 | 122.95576 | 5.17706 | 0.1095852 | 0.17692908 | 3.1424611 | 21 | — | — |
| 278895 2008 $TG_{108}$ | 16.1 | X | 318.50974 | 72.70567 | 78.11199 | 6.17408 | 0.1463475 | 0.17135579 | 3.2102352 | 21 | — | — |
| 278896 2008 $TL_{108}$ | 16.0 | X | 168.48251 | 62.30348 | 159.54058 | 6.54544 | 0.1927681 | 0.23798427 | 2.5789161 | 21 | 11 20.5 | 20.4 |
| 278897 2008 $TO_{108}$ | 17.1 | X | 57.44381 | 270.43091 | 28.12894 | 14.18608 | 0.1432655 | 0.23156924 | 2.6263270 | 21 | 11 1.2 | 20.7 |
| 278898 2008 $TU_{111}$ | 15.9 | X | 139.48145 | 17.45215 | 10.49324 | 12.58389 | 0.1517498 | 0.18510878 | 3.0491915 | 21 | 3 2.6 | 20.6 |
| 278899 2008 $TO_{113}$ | 17.3 | X | 130.19212 | 171.27634 | 144.82161 | 3.13149 | 0.1351508 | 0.24785754 | 2.5099667 | 21 | — | — |
| 278900 2008 $TK_{114}$ | 16.2 | X | 203.12722 | 223.58182 | 173.68769 | 5.39847 | 0.0329122 | 0.19985397 | 2.8973048 | 21 | 5 10.4 | 20.3 |
| 278901 2008 $TC_{115}$ | 16.0 | X | 145.14461 | 55.77395 | 335.09778 | 9.37122 | 0.1277457 | 0.18775248 | 3.0205006 | 21 | 3 4.2 | 20.6 |
| 278902 2008 $TV_{118}$ | 16.9 | X | 282.75177 | 205.70463 | 206.60399 | 5.38217 | 0.0336122 | 0.22395467 | 2.6855256 | 21 | 9 7.3 | 20.4 |
| 278903 2008 $TX_{123}$ | 16.3 | X | 154.99754 | 189.15489 | 225.23800 | 2.27501 | 0.0212651 | 0.19633944 | 2.9317776 | 21 | 4 1.9 | 20.4 |
| 278904 2008 $TV_{129}$ | 16.4 | X | 43.23780 | 149.89433 | 325.23154 | 3.61396 | 0.0965612 | 0.18081434 | 3.0972824 | 21 | 2 3.5 | 20.3 |
| 278905 2008 $TF_{130}$ | 16.8 | X | 312.90521 | 23.58959 | 327.85608 | 3.63649 | 0.0874524 | 0.21566657 | 2.7538957 | 21 | 7 24.6 | 20.3 |
| 278906 2008 $TB_{144}$ | 16.9 | X | 246.35412 | 343.58577 | 57.76382 | 0.61104 | 0.0788477 | 0.21290336 | 2.7776725 | 21 | 6 30.9 | 20.8 |
| 278907 2008 $TQ_{144}$ | 16.7 | X | 303.18960 | 184.99311 | 165.85043 | 2.19707 | 0.1120359 | 0.21623656 | 2.7490542 | 21 | 7 4.2 | 20.2 |
| 278908 2008 $TW_{145}$ | 17.1 | X | 271.86042 | 354.80516 | 26.90694 | 6.72710 | 0.0645262 | 0.21474520 | 2.7617672 | 21 | 7 10.5 | 20.9 |
| 278909 2008 $TG_{147}$ | 16.9 | X | 181.19678 | 266.75654 | 150.21112 | 2.65830 | 0.0632105 | 0.20185206 | 2.8781533 | 21 | 5 9.4 | 21.1 |
| 278910 2008 $TP_{148}$ | 16.3 | X | 94.97341 | 251.53899 | 168.11725 | 4.20807 | 0.1712996 | 0.18236136 | 3.0797408 | 21 | 2 17.3 | 20.4 |
| 278911 2008 $TG_{149}$ | 16.8 | X | 265.73666 | 262.61767 | 158.58436 | 4.04601 | 0.0780622 | 0.22007801 | 2.7169707 | 21 | 8 21.3 | 20.5 |
| 278912 2008 $TN_{149}$ | 16.2 | X | 125.66472 | 29.95078 | 80.15804 | 3.04349 | 0.0300766 | 0.20196033 | 2.8771246 | 21 | 5 8.4 | 20.1 |
| 278913 2008 $TQ_{150}$ | 16.8 | X | 336.64739 | 283.03467 | 34.21468 | 5.66583 | 0.0612788 | 0.21642551 | 2.7474539 | 21 | 7 17.6 | 20.2 |
| 278914 2008 $TJ_{156}$ | 16.2 | X | 112.06992 | 320.25537 | 331.85072 | 4.25986 | 0.1760840 | 0.23806536 | 2.5783304 | 21 | 12 24.9 | 20.4 |
| 278915 2008 $TN_{157}$ | 16.5 | X | 3.11108 | 236.73484 | 124.02205 | 12.51602 | 0.2074173 | 0.23077221 | 2.6323706 | 21 | 11 17.8 | 19.4 |
| 278916 2008 $TU_{157}$ | 17.1 | X | 177.28618 | 240.53953 | 70.13092 | 16.59499 | 0.2836817 | 0.26118398 | 2.4238460 | 21 | — | — |
| 278917 2008 $TG_{163}$ | 15.7 | X | 80.56517 | 12.34049 | 67.50532 | 16.37548 | 0.1731948 | 0.18115903 | 3.0933524 | 21 | 3 4.6 | 20.0 |
| 278918 2008 $TC_{164}$ | 15.7 | X | 2.60456 | 224.51501 | 97.26690 | 15.22549 | 0.0926658 | 0.22062345 | 2.7124908 | 21 | 9 11.0 | 19.2 |
| 278919 2008 $TL_{164}$ | 15.6 | X | 65.37537 | 222.76312 | 98.61394 | 22.92384 | 0.0852330 | 0.23176720 | 2.6248313 | 21 | 12 7.3 | 19.4 |
| 278920 2008 $TW_{165}$ | 16.2 | X | 295.54058 | 275.24522 | 122.94485 | 6.23258 | 0.0761848 | 0.22075956 | 2.7113757 | 21 | 9 3.9 | 19.5 |
| 278921 2008 $TK_{172}$ | 16.1 | X | 169.07336 | 311.33033 | 36.20249 | 2.15532 | 0.0859634 | 0.18066400 | 3.0990004 | 21 | 2 4.6 | 20.9 |
| 278922 2008 $TZ_{176}$ | 16.0 | X | 329.16699 | 248.41481 | 110.29142 | 14.13912 | 0.2220716 | 0.22111410 | 2.7084767 | 21 | 8 22.3 | 18.6 |
| 278923 2008 $TO_{182}$ | 15.6 | X | 358.21480 | 258.59178 | 155.90274 | 6.56146 | 0.1357832 | 0.15475678 | 3.4358663 | 21 | 12 18.2 | 19.9 |
| 278924 2008 $TY_{183}$ | 16.3 | X | 108.79602 | 48.94617 | 242.94099 | 7.77415 | 0.1546129 | 0.23947896 | 2.5681742 | 21 | 12 20.6 | 20.4 |
| 278925 2008 $TE_{185}$ | 16.4 | X | 119.55727 | 325.74610 | 93.91316 | 8.68640 | 0.1570877 | 0.18564394 | 3.0433288 | 21 | 3 20.8 | 21.0 |
| 278926 2008 $TM_{185}$ | 16.6 | X | 309.88516 | 242.24250 | 137.66546 | 3.28163 | 0.1174438 | 0.21771695 | 2.7365784 | 21 | 8 24.9 | 19.6 |
| 278927 2008 $UJ_{3}$ | 15.2 | X | 88.91889 | 348.56269 | 54.63709 | 16.53597 | 0.0801848 | 0.17656571 | 3.1467710 | 21 | 1 10.6 | 19.7 |
| 278928 2008 $UW_{4}$ | 16.2 | X | 161.41274 | 131.86424 | 230.00518 | 21.40493 | 0.2867425 | 0.26423684 | 2.4051406 | 21 | 2 9.2 | 20.7 |
| 278929 2008 $UH_{7}$ | 15.3 | X | 263.91929 | 287.88338 | 84.31123 | 21.19883 | 0.2853125 | 0.21059410 | 2.7979412 | 21 | 5 23.9 | 20.0 |
| 278930 2008 $UO_{7}$ | 15.4 | X | 135.30248 | 179.52765 | 231.27482 | 9.00084 | 0.1165581 | 0.18538732 | 3.0461365 | 21 | 3 14.5 | 20.1 |
| 278931 2008 $UQ_{11}$ | 16.5 | X | 161.86293 | 34.51621 | 342.19897 | 3.25570 | 0.0769281 | 0.18998917 | 2.9967475 | 21 | 2 28.8 | 20.9 |
| 278932 2008 $UE_{13}$ | 16.8 | X | 239.26222 | 93.17656 | 248.41671 | 0.95086 | 0.0743777 | 0.20003588 | 2.8955481 | 21 | 4 7.5 | 20.9 |
| 278933 2008 $UF_{13}$ | 17.2 | X | 53.82540 | 314.06345 | 347.63669 | 1.90472 | 0.0926562 | 0.22993238 | 2.6387766 | 21 | 10 24.8 | 20.5 |
| 278934 2008 $UO_{13}$ | 15.7 | X | 36.06546 | 88.01330 | 195.89272 | 30.39601 | 0.1396704 | 0.22358922 | 2.6884511 | 21 | 9 8.7 | 19.3 |
| 278935 2008 $UK_{21}$ | 16.4 | X | 121.26378 | 237.81326 | 215.06298 | 4.92258 | 0.0432031 | 0.19409039 | 2.9543823 | 21 | 4 12.2 | 20.6 |
| 278936 2008 $UL_{21}$ | 16.1 | X | 41.33298 | 101.57348 | 356.74578 | 1.34011 | 0.0680875 | 0.17735148 | 3.1374695 | 21 | 1 10.6 | 20.1 |
| 278937 2008 $UR_{25}$ | 17.2 | X | 123.76545 | 240.40703 | 31.90412 | 3.26385 | 0.0884793 | 0.23805730 | 2.5783887 | 21 | 12 8.2 | 21.0 |
| 278938 2008 $UW_{27}$ | 15.8 | X | 146.76376 | 203.23490 | 210.06220 | 7.13488 | 0.1842243 | 0.18895764 | 3.0076439 | 21 | 4 6.4 | 20.5 |
| 278939 2008 $UQ_{34}$ | 15.7 | X | 7.79817 | 65.94647 | 56.30470 | 15.59352 | 0.0549074 | 0.17249221 | 3.1961199 | 21 | — | — |
| 278940 2008 $UD_{41}$ | 16.2 | X | 209.62301 | 87.12120 | 240.03542 | 2.10111 | 0.1493675 | 0.18670729 | 3.0317627 | 21 | 2 18.2 | 21.1 |
| 278941 2008 $UU_{42}$ | 15.3 | X | 4.57757 | 94.71178 | 51.56394 | 17.23629 | 0.0922623 | 0.17426686 | 3.1743844 | 21 | 1 19.5 | 19.7 |
| 278942 2008 $UF_{45}$ | 16.8 | X | 80.30517 | 75.65007 | 173.40388 | 5.66443 | 0.0177571 | 0.21997242 | 2.7178401 | 21 | 9 8.2 | 20.4 |
| 278943 2008 $UA_{48}$ | 16.0 | X | 118.55663 | 186.85733 | 212.66466 | 9.76120 | 0.0990904 | 0.18294825 | 3.0731508 | 21 | 2 8.6 | 20.5 |
| 278944 2008 $UR_{52}$ | 15.8 | X | 258.98789 | 63.12719 | 239.16223 | 8.35680 | 0.1161323 | 0.18866310 | 3.0107734 | 21 | 3 5.8 | 20.6 |
| 278945 2008 $UH_{55}$ | 16.5 | X | 88.72805 | 40.26026 | 207.34319 | 7.94225 | 0.1362886 | 0.22644372 | 2.6658101 | 21 | 10 3.0 | 20.3 |
| 278946 2008 $UJ_{60}$ | 16.5 | X | 95.09319 | 72.09267 | 232.25467 | 13.26995 | 0.2210168 | 0.23817657 | 2.5775278 | 21 | 12 26.1 | 20.9 |
| 278947 2008 $UF_{61}$ | 16.4 | X | 205.75973 | 11.28398 | 14.94486 | 5.80412 | 0.0762715 | 0.19664810 | 2.9287089 | 21 | 4 26.0 | 20.7 |
| 278948 2008 $UR_{62}$ | 15.2 | X | 31.15705 | 51.23112 | 32.20153 | 8.98752 | 0.0929126 | 0.16936295 | 3.2353686 | 21 | — | — |
| 278949 2008 $UP_{63}$ | 15.6 | X | 116.37514 | 8.74768 | 39.33460 | 10.37098 | 0.1081384 | 0.18099221 | 3.0952529 | 21 | 2 26.2 | 20.2 |
| 278950 2008 $UZ_{63}$ | 16.8 | X | 313.14205 | 221.54222 | 145.95882 | 7.05577 | 0.0519998 | 0.21980033 | 2.7192585 | 21 | 8 20.2 | 20.2 |
| 278951 2008 $UU_{64}$ | 15.2 | X | 225.77422 | 255.15551 | 19.27599 | 10.40400 | 0.0596812 | 0.17591380 | 3.1545405 | 21 | 1 9.3 | 20.1 |
| 278952 2008 $UF_{70}$ | 15.6 | X | 200.20891 | 347.27027 | 13.84638 | 10.08767 | 0.1201831 | 0.19005248 | 2.9960820 | 21 | 3 23.3 | 20.3 |
| 278953 2008 $UN_{72}$ | 15.3 | X | 333.45314 | 139.34530 | 32.68510 | 11.03586 | 0.0258634 | 0.17305258 | 3.1892164 | 21 | 1 15.6 | 19.9 |
| 278954 2008 $UY_{72}$ | 15.2 | X | 148.63169 | 335.04068 | 22.01272 | 10.88414 | 0.0434513 | 0.17538722 | 3.1608514 | 21 | 1 24.4 | 20.0 |
| 278955 2008 $UU_{74}$ | 15.6 | X | 116.76977 | 332.39888 | 13.90723 | 4.88148 | 0.1663941 | 0.16898802 | 3.2401524 | 21 | — | — |
| 278956 Shei–Pa | 15.4 | X | 37.95183 | 38.70501 | 51.88424 | 22.78551 | 0.1127824 | 0.17228494 | 3.1986828 | 21 | — | — |
| 278957 2008 $UG_{84}$ | 16.0 | X | 121.53847 | 239.95031 | 25.01889 | 12.58545 | 0.2147622 | 0.23494071 | 2.6011408 | 21 | 11 29.2 | 20.6 |
| 278958 2008 $UX_{90}$ | 16.7 | X | 351.76454 | 129.97406 | 216.17194 | 4.76474 | 0.0741461 | 0.22220170 | 2.6996313 | 21 | 9 17.6 | 19.9 |
| 278959 2008 $UF_{92}$ | 15.9 | X | 269.99099 | 309.69487 | 66.05302 | 10.33314 | 0.2376038 | 0.21228922 | 2.7830270 | 21 | 6 4.3 | 20.2 |
| 278960 2008 $UE_{94}$ | 16.6 | X | 15.84051 | 286.81782 | 73.21455 | 13.43221 | 0.2927977 | 0.23095863 | 2.6309540 | 21 | 12 18.6 | 19.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 278961 2008 $UO_{94}$ | 16.1 | X | 27.55817 | 295.45055 | 72.87536 | 24.79997 | 0.2758290 | 0.23311352 | 2.6147153 | 21 | — | — |
| 278962 2008 $UD_{96}$ | 16.1 | X | 299.25217 | 260.48570 | 105.88878 | 6.06682 | 0.0120716 | 0.21476264 | 2.7616177 | 21 | 8 3.9 | 19.9 |
| 278963 2008 $UD_{97}$ | 16.1 | X | 39.53174 | 238.17356 | 81.34079 | 5.85572 | 0.0638986 | 0.22609376 | 2.6685601 | 21 | 10 26.9 | 19.5 |
| 278964 2008 $UV_{98}$ | 16.5 | X | 39.54897 | 273.17605 | 96.61857 | 4.56919 | 0.2310649 | 0.23615536 | 2.5922139 | 21 | — | — |
| 278965 2008 $UZ_{101}$ | 16.1 | X | 35.97459 | 227.23198 | 219.99095 | 8.59193 | 0.0649157 | 0.17425239 | 3.1745601 | 21 | — | — |
| 278966 2008 $UY_{105}$ | 16.7 | X | 290.96483 | 134.10187 | 217.22178 | 5.99542 | 0.0471773 | 0.21263065 | 2.7800470 | 21 | 6 26.7 | 20.4 |
| 278967 2008 $UM_{114}$ | 16.4 | X | 134.26805 | 84.88262 | 318.75193 | 2.22864 | 0.1352295 | 0.18478303 | 3.0527740 | 21 | 3 9.7 | 20.9 |
| 278968 2008 $UR_{115}$ | 15.9 | X | 294.67017 | 280.88672 | 281.25052 | 6.30186 | 0.0739416 | 0.17396742 | 3.1780259 | 21 | — | — |
| 278969 2008 $UU_{129}$ | 17.1 | X | 70.71397 | 309.10198 | 23.00522 | 4.30047 | 0.2104028 | 0.23876967 | 2.5732577 | 21 | — | — |
| 278970 2008 $UD_{131}$ | 16.2 | X | 335.45107 | 62.84217 | 249.04870 | 2.65050 | 0.0839548 | 0.21029289 | 2.8006123 | 21 | 7 4.8 | 19.7 |
| 278971 2008 $UL_{144}$ | 17.6 | X | 84.31547 | 141.11575 | 80.57998 | 2.25674 | 0.1193207 | 0.28862556 | 2.2676683 | 21 | 8 29.2 | 20.4 |
| 278972 2008 $UN_{154}$ | 15.4 | X | 43.71680 | 67.17760 | 38.28646 | 11.17727 | 0.0484041 | 0.17901663 | 3.1179834 | 21 | 1 24.5 | 19.7 |
| 278973 2008 $UO_{159}$ | 15.6 | X | 180.16255 | 14.49343 | 9.73770 | 8.89735 | 0.1860268 | 0.19156542 | 2.9802862 | 21 | 4 1.3 | 20.6 |
| 278974 2008 $UF_{160}$ | 16.1 | X | 42.92126 | 313.35706 | 42.01835 | 5.75983 | 0.2314671 | 0.23302001 | 2.6154147 | 21 | — | — |
| 278975 2008 $UZ_{162}$ | 16.2 | X | 343.92097 | 65.59703 | 260.02373 | 3.43368 | 0.1268437 | 0.21711906 | 2.7416000 | 21 | 8 5.2 | 19.1 |
| 278976 2008 $UM_{166}$ | 15.8 | X | 144.34881 | 263.54442 | 57.44151 | 4.91755 | 0.0299778 | 0.16957591 | 3.2326593 | 21 | — | — |
| 278977 2008 $UQ_{168}$ | 16.6 | X | 45.92103 | 184.98439 | 156.20230 | 2.33033 | 0.2233170 | 0.23450900 | 2.6043322 | 21 | 12 24.6 | 20.1 |
| 278978 2008 $UX_{169}$ | 16.0 | X | 126.19367 | 55.38439 | 345.32169 | 8.32154 | 0.0901264 | 0.18540484 | 3.0459446 | 21 | 2 21.6 | 20.4 |
| 278979 2008 $UN_{173}$ | 16.1 | X | 166.28803 | 300.16151 | 29.98550 | 1.64668 | 0.1306778 | 0.17729876 | 3.1380914 | 21 | 1 16.1 | 20.9 |
| 278980 2008 $UM_{176}$ | 15.9 | X | 317.53252 | 140.21153 | 28.69153 | 12.39950 | 0.0819971 | 0.17304638 | 3.1892927 | 21 | — | — |
| 278981 2008 $UX_{177}$ | 16.3 | X | 68.84079 | 61.26020 | 359.91751 | 3.38403 | 0.0634322 | 0.17502948 | 3.1651569 | 21 | 1 3.5 | 20.6 |
| 278982 2008 $UD_{183}$ | 16.0 | X | 137.16948 | 201.95574 | 187.51631 | 4.83708 | 0.0449261 | 0.18392677 | 3.0622413 | 21 | 2 12.9 | 20.5 |
| 278983 2008 $UM_{190}$ | 15.7 | X | 98.42147 | 282.67640 | 356.85070 | 26.51781 | 0.1165383 | 0.23446558 | 2.6046537 | 21 | 11 10.1 | 20.2 |
| 278984 2008 $UZ_{193}$ | 15.7 | X | 145.89325 | 184.20651 | 219.01033 | 10.89642 | 0.1361021 | 0.18445117 | 3.0564346 | 21 | 3 18.8 | 20.5 |
| 278985 2008 $UU_{195}$ | 15.5 | X | 193.50316 | 272.41609 | 88.61222 | 12.47235 | 0.1210238 | 0.19079402 | 2.9883139 | 21 | 3 21.9 | 20.4 |
| 278986 Chenshuchu | 16.1 | X | 265.72516 | 214.37811 | 120.98253 | 3.07139 | 0.0762285 | 0.20095626 | 2.8867003 | 21 | 5 1.5 | 20.2 |
| 278987 2008 $UW_{205}$ | 15.6 | X | 80.18705 | 169.09059 | 180.89435 | 5.95271 | 0.1761471 | 0.24018024 | 2.5631727 | 21 | — | — |
| 278988 2008 $UU_{209}$ | 16.6 | X | 25.94373 | 276.33392 | 14.00899 | 2.76007 | 0.1967398 | 0.22004125 | 2.7172732 | 21 | 9 12.9 | 19.5 |
| 278989 2008 $UV_{210}$ | 16.8 | X | 260.85015 | 40.47023 | 293.74574 | 1.19115 | 0.0148957 | 0.19802073 | 2.9151592 | 21 | 4 30.6 | 20.8 |
| 278990 2008 $UO_{211}$ | 15.5 | X | 45.46254 | 61.57718 | 48.39578 | 10.10728 | 0.0804830 | 0.18003594 | 3.1062036 | 21 | 2 3.1 | 19.6 |
| 278991 2008 $UH_{214}$ | 16.0 | X | 99.86328 | 186.83250 | 252.38418 | 9.49591 | 0.0970004 | 0.18535066 | 3.0465382 | 21 | 3 4.1 | 20.4 |
| 278992 2008 $UN_{214}$ | 15.8 | X | 203.80072 | 190.52722 | 236.69659 | 14.53994 | 0.1178085 | 0.20509656 | 2.8477190 | 21 | 6 13.4 | 20.4 |
| 278993 2008 $UD_{216}$ | 16.3 | X | 100.72699 | 206.12647 | 124.08827 | 11.90690 | 0.1432513 | 0.24192764 | 2.5508156 | 21 | — | — |
| 278994 2008 $UJ_{218}$ | 15.9 | X | 84.61736 | 19.08844 | 237.94745 | 13.02749 | 0.2125707 | 0.22248456 | 2.6973427 | 21 | 10 17.2 | 20.2 |
| 278995 2008 $US_{223}$ | 16.1 | X | 340.91849 | 265.29569 | 86.13454 | 7.16040 | 0.0500426 | 0.21824485 | 2.7321637 | 21 | 9 13.1 | 19.6 |
| 278996 2008 $UV_{223}$ | 16.3 | X | 312.89836 | 254.75953 | 98.11372 | 3.18021 | 0.2269934 | 0.21535290 | 2.7565692 | 21 | 7 4.9 | 19.5 |
| 278997 2008 $UC_{224}$ | 15.4 | X | 308.08826 | 267.40320 | 290.89818 | 7.86456 | 0.0455063 | 0.17450244 | 3.1715267 | 21 | 1 10.9 | 19.8 |
| 278998 2008 $UJ_{226}$ | 17.1 | X | 245.03016 | 226.06653 | 70.52541 | 5.98617 | 0.2500834 | 0.27043350 | 2.3682583 | 21 | 2 1.6 | 21.2 |
| 278999 2008 $UF_{235}$ | 16.7 | X | 125.83755 | 351.59603 | 287.25085 | 3.67172 | 0.2089984 | 0.24192199 | 2.5508553 | 21 | 12 22.1 | 20.8 |
| 279000 2008 $UF_{241}$ | 16.3 | X | 133.09365 | 350.84609 | 317.27655 | 4.73396 | 0.2178277 | 0.24512612 | 2.5285778 | 21 | — | — |
| 279001 2008 $UK_{249}$ | 15.9 | X | 31.49939 | 66.94116 | 75.70780 | 2.05477 | 0.0711182 | 0.18343935 | 3.0676635 | 21 | 2 19.9 | 19.8 |
| 279002 2008 $UA_{256}$ | 16.7 | X | 291.32735 | 112.57969 | 184.50323 | 1.85699 | 0.0705829 | 0.19648144 | 2.9303649 | 21 | 4 14.6 | 20.8 |
| 279003 2008 $UD_{256}$ | 15.9 | X | 22.40261 | 260.56949 | 218.70180 | 8.75187 | 0.0613607 | 0.17443729 | 3.1723164 | 21 | 1 8.6 | 20.2 |
| 279004 2008 $UO_{256}$ | 16.2 | X | 3.25529 | 276.76076 | 57.20440 | 6.07220 | 0.1621663 | 0.22172647 | 2.7034874 | 21 | 9 30.9 | 19.0 |
| 279005 2008 $UQ_{256}$ | 16.1 | X | 224.69665 | 264.83863 | 80.21296 | 3.70215 | 0.0395693 | 0.19126920 | 2.9833625 | 21 | 3 31.9 | 20.4 |
| 279006 2008 $UU_{260}$ | 16.1 | X | 306.52189 | 255.11544 | 76.19888 | 5.82180 | 0.1198487 | 0.20889737 | 2.8130712 | 21 | 6 11.2 | 19.6 |
| 279007 2008 $UP_{274}$ | 16.9 | X | 287.96775 | 135.37390 | 45.42572 | 7.79140 | 0.1262861 | 0.24359528 | 2.5391604 | 21 | — | — |
| 279008 2008 $UK_{277}$ | 15.4 | X | 93.37766 | 203.62834 | 216.81557 | 8.36376 | 0.0169793 | 0.18016120 | 3.1047637 | 21 | 1 24.5 | 19.9 |
| 279009 2008 $UV_{279}$ | 16.4 | X | 325.02263 | 154.08476 | 213.14207 | 13.80745 | 0.0685778 | 0.21945984 | 2.7220704 | 21 | 8 31.6 | 20.1 |
| 279010 2008 $UN_{281}$ | 15.5 | X | 96.55101 | 34.12282 | 55.52287 | 6.00735 | 0.0458042 | 0.18284944 | 3.0742578 | 21 | 3 13.8 | 19.8 |
| 279011 2008 $UQ_{281}$ | 16.3 | X | 182.25576 | 80.09663 | 253.69199 | 1.15146 | 0.0984853 | 0.17899408 | 3.1182452 | 21 | 2 1.5 | 21.1 |
| 279012 2008 $UU_{287}$ | 17.3 | X | 116.42805 | 145.59496 | 161.27113 | 3.43472 | 0.1750211 | 0.24249381 | 2.5468436 | 21 | — | — |
| 279013 2008 $UX_{288}$ | 16.2 | X | 329.38964 | 247.01289 | 68.52636 | 5.34730 | 0.0613008 | 0.21017411 | 2.8016674 | 21 | 7 2.6 | 19.8 |
| 279014 2008 $UZ_{288}$ | 16.4 | X | 169.85592 | 303.15317 | 147.58125 | 2.70767 | 0.0314749 | 0.20283965 | 2.8688036 | 21 | 6 6.9 | 20.4 |
| 279015 2008 $UV_{290}$ | 16.0 | X | 189.27730 | 247.56490 | 85.91262 | 10.46881 | 0.0345258 | 0.17749481 | 3.1357802 | 21 | 2 9.1 | 20.7 |
| 279016 2008 $UR_{291}$ | 15.6 | X | 294.12441 | 200.01258 | 25.85013 | 10.58410 | 0.1682383 | 0.18176666 | 3.0864546 | 21 | 1 11.9 | 20.4 |
| 279017 2008 $UJ_{295}$ | 16.1 | X | 256.12793 | 265.58510 | 34.50405 | 8.43930 | 0.0431199 | 0.18931266 | 3.0038825 | 21 | 3 14.5 | 20.5 |
| 279018 2008 $UP_{295}$ | 16.5 | X | 101.75082 | 26.75423 | 246.97352 | 4.77320 | 0.2108824 | 0.23139885 | 2.6276161 | 21 | 11 25.2 | 20.7 |
| 279019 2008 $UJ_{307}$ | 16.4 | X | 44.60588 | 253.13068 | 116.09048 | 8.31004 | 0.2668315 | 0.23936293 | 2.5690040 | 21 | — | — |
| 279020 2008 $UH_{331}$ | 16.6 | X | 352.17101 | 41.32097 | 276.66941 | 3.27986 | 0.1291092 | 0.21857925 | 2.7293764 | 21 | 8 9.9 | 19.5 |
| 279021 2008 $UZ_{339}$ | 15.8 | X | 267.82437 | 7.31928 | 266.10337 | 2.23885 | 0.0659970 | 0.18444967 | 3.0564512 | 21 | 2 17.4 | 20.2 |
| 279022 2008 $UA_{340}$ | 16.2 | X | 280.13267 | 296.97433 | 317.46743 | 1.12855 | 0.0455178 | 0.18213850 | 3.0822525 | 21 | 2 12.4 | 20.6 |
| 279023 2008 $US_{351}$ | 15.7 | X | 74.77971 | 24.88787 | 58.90417 | 12.48219 | 0.0613663 | 0.18095927 | 3.0956285 | 21 | 2 10.9 | 20.1 |
| 279024 2008 $UZ_{354}$ | 15.9 | X | 222.21155 | 231.81119 | 73.15716 | 5.97694 | 0.1707905 | 0.18173949 | 3.0867623 | 21 | 2 6.4 | 21.0 |
| 279025 2008 $UT_{357}$ | 15.4 | X | 109.27415 | 200.23795 | 216.96252 | 27.11246 | 0.1318571 | 0.17924459 | 3.1153392 | 21 | 2 19.7 | 20.4 |
| 279026 2008 $UY_{359}$ | 15.4 | X | 223.03052 | 52.00407 | 231.98821 | 16.30737 | 0.1091374 | 0.17413485 | 3.1759885 | 21 | 1 11.2 | 20.7 |
| 279027 2008 $UJ_{360}$ | 16.0 | X | 273.97837 | 316.68846 | 309.27628 | 2.69292 | 0.0714943 | 0.18387487 | 3.0628176 | 21 | 2 15.4 | 20.3 |
| 279028 2008 $UB_{362}$ | 15.7 | X | 100.67483 | 258.02181 | 145.35285 | 12.32475 | 0.0799612 | 0.17653168 | 3.1471754 | 21 | 1 23.8 | 20.1 |
| 279029 2008 $UD_{364}$ | 14.4 | X | 9.60317 | 189.14025 | 273.71321 | 20.84621 | 0.0768775 | 0.16970696 | 3.2309950 | 21 | — | — |
| 279030 2008 $UR_{365}$ | 16.9 | X | 304.66569 | 153.32186 | 196.08350 | 4.35746 | 0.0857792 | 0.21346301 | 2.7728154 | 21 | 7 7.9 | 20.4 |
| 279031 2008 $UF_{368}$ | 16.6 | X | 60.62272 | 171.63768 | 181.15297 | 3.55487 | 0.2143463 | 0.23738020 | 2.5832894 | 21 | — | — |
| 279032 2008 $UX_{368}$ | 15.8 | X | 228.32272 | 273.02089 | 81.09020 | 11.54401 | 0.1574535 | 0.19496498 | 2.9455404 | 21 | 4 12.6 | 20.7 |
| 279033 2008 $UZ_{368}$ | 15.2 | X | 42.50697 | 25.88089 | 81.82263 | 16.11201 | 0.0334892 | 0.17450174 | 3.1715352 | 21 | 1 24.6 | 19.7 |
| 279034 2008 $VQ_{3}$ | 16.5 | X | 63.55676 | 277.51847 | 73.05374 | 12.37502 | 0.2118488 | 0.23912156 | 2.5707325 | 21 | — | — |
| 279035 Mara | 16.3 | X | 264.95013 | 235.92839 | 151.50567 | 6.13907 | 0.0823739 | 0.20939424 | 2.8086194 | 21 | 7 4.9 | 20.3 |
| 279036 2008 $VA_{13}$ | 15.3 | X | 36.78764 | 271.67679 | 251.70956 | 14.79073 | 0.1811351 | 0.18000635 | 3.1065439 | 21 | 3 26.3 | 19.1 |
| 279037 2008 $VU_{13}$ | 16.5 | X | 295.05247 | 254.05649 | 95.77694 | 4.32416 | 0.1180841 | 0.20916351 | 2.8106846 | 21 | 6 19.9 | 20.1 |
| 279038 2008 $VD_{20}$ | 16.5 | X | 331.60301 | 145.76776 | 130.56850 | 3.10641 | 0.1166599 | 0.19910077 | 2.9046072 | 21 | 5 8.5 | 20.0 |
| 279039 2008 $VZ_{20}$ | 15.9 | X | 353.95474 | 155.08021 | 58.44055 | 19.84315 | 0.1131743 | 0.18879527 | 3.0093681 | 21 | 4 2.3 | 19.9 |
| 279040 2008 $VD_{24}$ | 16.0 | X | 80.77837 | 236.20400 | 209.06860 | 6.58463 | 0.0410051 | 0.17736753 | 3.1372802 | 21 | 2 11.5 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279041 2008 $VS_{25}$ | 16.9 | X | 34.51481 | 140.27143 | 167.46635 | 4.68194 | 0.0863325 | 0.22327941 | 2.6909374 | 21 | 10 5.6 | 20.1 |
| 279042 2008 $VH_{33}$ | 15.7 | X | 53.12194 | 359.04292 | 72.46350 | 10.35065 | 0.0455395 | 0.17123181 | 3.2117846 | 21 | — | — |
| 279043 2008 $VT_{33}$ | 17.0 | X | 30.52577 | 243.18386 | 122.08707 | 3.55421 | 0.1954789 | 0.23351109 | 2.6117466 | 21 | 12 31.9 | 20.4 |
| 279044 2008 $VD_{38}$ | 15.9 | X | 122.35037 | 327.89129 | 108.47521 | 5.71900 | 0.0420808 | 0.18716662 | 3.0268004 | 21 | 3 27.9 | 20.2 |
| 279045 2008 $VZ_{42}$ | 17.2 | X | 120.66935 | 221.28785 | 83.54697 | 4.94465 | 0.1706525 | 0.24630407 | 2.5205094 | 21 | — | — |
| 279046 2008 $VG_{50}$ | 16.0 | X | 113.19321 | 196.72526 | 224.77755 | 11.90712 | 0.1511698 | 0.18449288 | 3.0559739 | 21 | 3 6.6 | 20.7 |
| 279047 2008 $VC_{51}$ | 15.7 | X | 88.56830 | 17.95761 | 47.65575 | 6.43627 | 0.0159979 | 0.17536052 | 3.1611723 | 21 | 1 30.2 | 20.2 |
| 279048 2008 $VM_{54}$ | 18.0 | X | 174.26967 | 269.73316 | 310.84082 | 2.34564 | 0.1055139 | 0.31105082 | 2.1573229 | 21 | 12 7.9 | 20.9 |
| 279049 2008 $VO_{58}$ | 15.7 | X | 292.70027 | 331.01745 | 233.65298 | 10.75533 | 0.0255639 | 0.17576310 | 3.1563434 | 21 | 1 1.4 | 20.3 |
| 279050 2008 $VN_{59}$ | 16.8 | X | 95.95317 | 274.28981 | 60.01491 | 6.56540 | 0.2614000 | 0.24380467 | 2.5377064 | 21 | — | — |
| 279051 2008 $VE_{64}$ | 14.7 | X | 297.91090 | 324.06344 | 254.68853 | 19.08745 | 0.0354509 | 0.17940393 | 3.1134943 | 21 | 1 18.2 | 19.4 |
| 279052 2008 $VE_{67}$ | 15.4 | X | 188.71294 | 236.80537 | 76.33044 | 10.23053 | 0.0582283 | 0.17404862 | 3.1770374 | 21 | 1 15.3 | 20.3 |
| 279053 2008 $VC_{75}$ | 16.9 | X | 75.71674 | 176.07209 | 167.02499 | 9.27126 | 0.1941238 | 0.24097640 | 2.5575239 | 21 | — | — |
| 279054 2008 $VD_{77}$ | 16.3 | X | 315.62485 | 246.85461 | 89.42075 | 8.84005 | 0.0603776 | 0.20843418 | 2.8172373 | 21 | 7 10.6 | 19.9 |
| 279055 2008 $VJ_{77}$ | 15.2 | X | 352.10033 | 124.84323 | 79.55051 | 17.15006 | 0.0575907 | 0.18467805 | 3.0539308 | 21 | 3 22.6 | 19.6 |
| 279056 2008 $WY$ | 16.2 | X | 218.79629 | 307.71907 | 29.66238 | 9.84434 | 0.0857329 | 0.19062648 | 2.9900645 | 21 | 3 15.9 | 20.9 |
| 279057 2008 $WK_{1}$ | 15.9 | X | 91.77184 | 75.45736 | 245.07099 | 9.38009 | 0.1989260 | 0.23688682 | 2.5868750 | 21 | — | — |
| 279058 2008 $WU_{3}$ | 16.6 | X | 351.97465 | 247.47384 | 40.53800 | 3.53408 | 0.0611086 | 0.20864378 | 2.8153502 | 21 | 6 29.6 | 20.1 |
| 279059 2008 $WT_{4}$ | 16.8 | X | 298.26515 | 275.58763 | 40.82999 | 2.58930 | 0.0549734 | 0.20297398 | 2.8675377 | 21 | 5 20.2 | 20.6 |
| 279060 2008 $WB_{9}$ | 17.0 | X | 37.96979 | 175.27371 | 138.93395 | 2.64432 | 0.1189494 | 0.22555092 | 2.6728401 | 21 | 10 24.7 | 20.2 |
| 279061 2008 $WJ_{10}$ | 15.4 | X | 107.42742 | 311.65704 | 102.80014 | 2.64498 | 0.0650027 | 0.17882747 | 3.1201817 | 21 | 2 13.4 | 19.8 |
| 279062 2008 $WG_{16}$ | 16.4 | X | 120.96765 | 164.82081 | 251.70006 | 5.42517 | 0.0993220 | 0.18475504 | 3.0530824 | 21 | 3 4.2 | 20.9 |
| 279063 2008 $WW_{21}$ | 16.0 | X | 50.49325 | 264.79240 | 55.55735 | 13.68361 | 0.1775041 | 0.22937286 | 2.6430661 | 21 | 11 25.9 | 19.5 |
| 279064 2008 $WX_{21}$ | 15.4 | X | 261.61244 | 258.08867 | 44.32160 | 10.26138 | 0.0506470 | 0.18920108 | 3.0050634 | 21 | 3 23.8 | 19.8 |
| 279065 2008 $WE_{27}$ | 15.6 | X | 330.70008 | 321.97970 | 249.63277 | 6.23060 | 0.0930839 | 0.18177755 | 3.0863313 | 21 | 2 13.9 | 19.9 |
| 279066 2008 $WU_{38}$ | 16.9 | X | 97.83420 | 250.31171 | 68.51357 | 5.53930 | 0.2806391 | 0.24077779 | 2.5589301 | 21 | — | — |
| 279067 2008 $WF_{45}$ | 16.2 | X | 234.70074 | 260.04087 | 63.87756 | 3.87961 | 0.0936887 | 0.18725584 | 3.0258389 | 21 | 3 14.4 | 20.8 |
| 279068 2008 $WM_{47}$ | 16.6 | X | 259.91660 | 243.17147 | 68.12453 | 2.22219 | 0.0258498 | 0.18763249 | 3.0217882 | 21 | 4 1.5 | 20.8 |
| 279069 2008 $WH_{58}$ | 16.4 | X | 329.30287 | 286.49692 | 70.68156 | 6.93651 | 0.1246947 | 0.21648565 | 2.7469450 | 21 | 8 29.1 | 19.5 |
| 279070 2008 $WV_{67}$ | 15.8 | X | 274.40287 | 258.70236 | 75.82119 | 11.90884 | 0.1443147 | 0.19918388 | 2.9037993 | 21 | 5 4.1 | 20.1 |
| 279071 2008 $WV_{71}$ | 15.6 | X | 99.68379 | 15.65409 | 35.53879 | 11.93906 | 0.0534823 | 0.18112695 | 3.0937176 | 21 | 2 1.6 | 20.1 |
| 279072 2008 $WX_{74}$ | 16.0 | X | 323.62923 | 114.89559 | 53.49385 | 11.19132 | 0.0415015 | 0.17496393 | 3.1659475 | 21 | — | — |
| 279073 2008 $WK_{77}$ | 15.8 | X | 213.12582 | 233.54251 | 88.02691 | 7.52757 | 0.0728520 | 0.18176405 | 3.0864842 | 21 | 2 20.0 | 20.5 |
| 279074 2008 $WX_{77}$ | 16.7 | X | 357.91887 | 158.17522 | 154.85421 | 3.12547 | 0.1398613 | 0.21244588 | 2.7816587 | 21 | 8 14.4 | 19.4 |
| 279075 2008 $WU_{79}$ | 15.7 | X | 192.93982 | 284.63098 | 88.29547 | 10.69846 | 0.1501297 | 0.18961189 | 3.0007213 | 21 | 4 4.1 | 20.7 |
| 279076 2008 $WM_{83}$ | 15.3 | X | 241.79046 | 247.48681 | 100.21250 | 10.59952 | 0.0786030 | 0.19249122 | 2.9707226 | 21 | 4 23.5 | 19.9 |
| 279077 2008 $WG_{88}$ | 16.0 | X | 150.33399 | 300.15992 | 67.45995 | 3.74797 | 0.0701741 | 0.18029783 | 3.1031949 | 21 | 2 7.7 | 20.5 |
| 279078 2008 $WP_{88}$ | 16.1 | X | 288.13887 | 306.35795 | 69.26483 | 7.09325 | 0.0764857 | 0.21010993 | 2.8022379 | 21 | 7 23.0 | 19.9 |
| 279079 2008 $WF_{92}$ | 16.1 | X | 235.24297 | 292.43656 | 38.62074 | 3.37302 | 0.0643707 | 0.18948489 | 3.0020621 | 21 | 3 24.4 | 20.6 |
| 279080 2008 $WM_{98}$ | 15.5 | X | 118.73445 | 280.08442 | 147.53942 | 10.52207 | 0.1005870 | 0.18252270 | 3.0779257 | 21 | 3 20.6 | 19.9 |
| 279081 2008 $WG_{99}$ | 15.7 | X | 139.77340 | 358.51831 | 67.22764 | 11.24011 | 0.1003911 | 0.18828420 | 3.0148113 | 21 | 4 12.6 | 20.3 |
| 279082 2008 $WC_{101}$ | 15.4 | X | 358.44240 | 344.48101 | 69.65151 | 11.72086 | 0.1092225 | 0.15468970 | 3.4368595 | 21 | 12 15.2 | 19.7 |
| 279083 2008 $WW_{102}$ | 15.9 | X | 205.22764 | 252.29561 | 60.50346 | 10.38273 | 0.0647425 | 0.17926884 | 3.1150582 | 21 | 2 2.5 | 20.7 |
| 279084 2008 $WD_{104}$ | 16.1 | X | 173.05548 | 250.19975 | 80.99517 | 2.41769 | 0.0752655 | 0.17427043 | 3.1743410 | 21 | 1 20.5 | 20.8 |
| 279085 2008 $WW_{105}$ | 15.5 | X | 38.56246 | 356.00658 | 95.97360 | 17.80081 | 0.0845765 | 0.17158602 | 3.2073630 | 21 | — | — |
| 279086 2008 $WB_{110}$ | 16.2 | X | 259.02982 | 5.97977 | 284.43808 | 1.66850 | 0.0473153 | 0.18412583 | 3.0600339 | 21 | 3 2.2 | 20.6 |
| 279087 2008 $WQ_{110}$ | 16.2 | X | 155.26152 | 262.05611 | 59.64688 | 0.94734 | 0.1367652 | 0.17036713 | 3.2226429 | 21 | — | — |
| 279088 2008 $WA_{116}$ | 15.4 | X | 190.33129 | 289.63666 | 72.53449 | 12.63801 | 0.1187686 | 0.18469013 | 3.0537977 | 21 | 3 21.3 | 20.4 |
| 279089 2008 $WO_{130}$ | 15.8 | X | 25.43585 | 246.67368 | 104.36878 | 13.43301 | 0.2468542 | 0.22785015 | 2.6548287 | 21 | 12 14.5 | 19.0 |
| 279090 2008 $WH_{131}$ | 14.9 | X | 90.98216 | 298.43773 | 97.35132 | 23.29441 | 0.1522922 | 0.17106902 | 3.2138219 | 21 | 1 14.1 | 19.2 |
| 279091 2008 $WL_{131}$ | 15.2 | X | 220.09105 | 61.76414 | 231.36488 | 7.76861 | 0.0518212 | 0.17427144 | 3.1743287 | 21 | 1 21.8 | 20.1 |
| 279092 2008 $WW_{132}$ | 15.3 | X | 342.26777 | 69.17235 | 143.25685 | 10.76699 | 0.0494909 | 0.18321699 | 3.0701451 | 21 | 3 12.3 | 19.4 |
| 279093 2008 $WM_{136}$ | 15.6 | X | 16.45051 | 88.60666 | 69.57578 | 23.70050 | 0.2431662 | 0.17433450 | 3.1735632 | 21 | 2 25.1 | 19.3 |
| 279094 2008 $WJ_{139}$ | 15.0 | X | 176.36103 | 236.08096 | 106.57611 | 10.51385 | 0.0698712 | 0.17466970 | 3.1695018 | 21 | 2 6.9 | 19.8 |
| 279095 2008 $WL_{139}$ | 15.6 | X | 131.92572 | 195.09955 | 241.99287 | 6.11644 | 0.1683921 | 0.18287751 | 3.0739433 | 21 | 4 19.4 | 20.4 |
| 279096 2008 $XZ_{6}$ | 15.7 | X | 193.86053 | 305.74956 | 30.37654 | 9.85726 | 0.0244141 | 0.17958146 | 3.1114420 | 21 | 2 18.4 | 20.3 |
| 279097 2008 $XB_{9}$ | 16.0 | X | 84.74097 | 199.37440 | 112.23489 | 8.90775 | 0.2068093 | 0.23287779 | 2.6164795 | 21 | 12 25.4 | 20.1 |
| 279098 2008 $XB_{11}$ | 16.6 | X | 40.34079 | 148.45198 | 194.38152 | 7.63829 | 0.3029514 | 0.23161107 | 2.6260108 | 21 | 12 29.9 | 20.5 |
| 279099 2008 $YS_{26}$ | 15.6 | X | 5.26993 | 49.11246 | 99.79609 | 17.02992 | 0.0574430 | 0.17298146 | 3.1900906 | 21 | 1 24.3 | 19.9 |
| 279100 2008 $YW_{30}$ | 15.6 | X | 71.49446 | 38.95892 | 276.85928 | 12.03430 | 0.1857016 | 0.23304772 | 2.6152075 | 21 | 12 16.0 | 19.5 |
| 279101 2008 $YZ_{42}$ | 16.3 | X | 113.16121 | 254.12817 | 67.96900 | 6.15744 | 0.2628725 | 0.24148948 | 2.5539001 | 21 | — | — |
| 279102 2008 $YC_{44}$ | 16.0 | X | 232.85546 | 233.86027 | 101.22543 | 14.05789 | 0.1477443 | 0.18295102 | 3.0731198 | 21 | 3 28.0 | 21.2 |
| 279103 2008 $YN_{152}$ | 15.6 | X | 300.51512 | 358.46978 | 312.44298 | 15.09941 | 0.0960845 | 0.18621152 | 3.0371414 | 21 | 5 5.5 | 20.1 |
| 279104 2008 $YA_{157}$ | 15.9 | X | 278.88111 | 30.98601 | 302.41388 | 11.31198 | 0.0722904 | 0.18737897 | 3.0245132 | 21 | 5 12.3 | 20.4 |
| 279105 2009 $AO_{8}$ | 16.3 | X | 137.52278 | 238.92333 | 172.07219 | 8.44522 | 0.0868307 | 0.18248363 | 3.0783650 | 21 | 3 17.9 | 20.7 |
| 279106 2009 $AU_{26}$ | 15.9 | X | 326.22068 | 346.15433 | 305.45841 | 16.20720 | 0.0731999 | 0.18723976 | 3.0260122 | 21 | 5 22.9 | 20.2 |
| 279107 2009 $AB_{28}$ | 16.3 | X | 206.06492 | 113.63632 | 295.06530 | 12.16257 | 0.1835042 | 0.19273651 | 2.9682016 | 21 | 5 20.4 | 21.4 |
| 279108 2009 $BM_{84}$ | 15.2 | X | 173.29928 | 74.19765 | 300.62555 | 8.57171 | 0.0792198 | 0.17320032 | 3.1874026 | 21 | 3 8.9 | 20.1 |
| 279109 2009 $BX_{150}$ | 15.7 | X | 301.19549 | 298.79746 | 93.73025 | 13.20366 | 0.2961956 | 0.21027288 | 2.8007899 | 21 | 7 30.6 | 19.0 |
| 279110 2009 $CD_{37}$ | 14.6 | X | 11.84743 | 30.75022 | 294.80709 | 7.79853 | 0.1593793 | 0.12360392 | 3.9913016 | 21 | 9 13.8 | 19.5 |
| 279111 2009 $FX_{55}$ | 17.2 | X | 262.87915 | 69.62419 | 57.77252 | 26.49379 | 0.1441489 | 0.36868950 | 1.9261741 | 21 | 12 3.2 | 18.4 |
| 279112 2009 $HG_{1}$ | 16.1 | X | 264.68972 | 200.29637 | 72.49699 | 13.66276 | 0.1170459 | 0.22917247 | 2.6446066 | 21 | 2 5.9 | 20.3 |
| 279113 2009 $HE_{65}$ | 15.9 | X | 12.67968 | 87.14458 | 183.66152 | 16.67880 | 0.0611440 | 0.17521535 | 3.1629181 | 21 | 7 6.3 | 20.4 |
| 279114 2009 $HM_{66}$ | 16.2 | X | 273.47762 | 160.38866 | 87.86979 | 16.39562 | 0.1411506 | 0.22683950 | 2.6627083 | 21 | 1 10.7 | 20.3 |
| 279115 2009 $HA_{99}$ | 17.3 | X | 19.46368 | 281.30692 | 132.76861 | 4.90335 | 0.0782582 | 0.29067707 | 2.2569860 | 21 | — | — |
| 279116 2009 $JK$ | 16.3 | X | 271.48696 | 6.44988 | 226.91467 | 12.08976 | 0.2259768 | 0.22423539 | 2.6832838 | 21 | — | — |
| 279117 2009 $KJ_{7}$ | 16.0 | X | 126.97446 | 249.50505 | 51.10575 | 13.47372 | 0.1703614 | 0.20157022 | 2.8808356 | 21 | — | — |
| 279118 2009 $MK_{9}$ | 15.6 | X | 48.69013 | 65.57718 | 278.24477 | 8.94229 | 0.0852040 | 0.18809741 | 3.0168068 | 21 | 12 2.5 | 19.7 |
| 279119 Khamatova | 16.9 | X | 122.73825 | 133.17402 | 267.92468 | 6.12765 | 0.1081384 | 0.28650101 | 2.2788651 | 21 | 1 30.2 | 19.6 |
| 279120 2009 $ON_{10}$ | 16.7 | X | 65.65586 | 352.31074 | 359.20030 | 10.04741 | 0.3601196 | 0.26860382 | 2.3790008 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279121 2009 $OP_{22}$ | 16.9 | X | 350.43691 | 90.99235 | 284.74862 | 6.32882 | 0.2470442 | 0.25382455 | 2.4704741 | 21 | 11 18.7 | 18.8 |
| 279122 2009 $OO_{23}$ | 17.1 | X | 19.28433 | 346.05283 | 12.80719 | 2.18847 | 0.2280947 | 0.25804611 | 2.4434559 | 21 | 12 18.9 | 19.8 |
| 279123 2009 $PS_{2}$ | 15.9 | X | 34.05240 | 20.20681 | 335.30851 | 15.25799 | 0.2153690 | 0.26036529 | 2.4289244 | 21 | — | — |
| 279124 2009 $PV_{4}$ | 16.2 | X | 324.44968 | 251.01185 | 160.20497 | 14.58612 | 0.0638850 | 0.25692997 | 2.4505273 | 21 | 11 15.2 | 19.3 |
| 279125 2009 $PD_{7}$ | 17.2 | X | 353.43865 | 224.00977 | 176.11720 | 6.10800 | 0.1706405 | 0.25818629 | 2.4425714 | 21 | 12 24.1 | 19.6 |
| 279126 2009 $PU_{16}$ | 16.7 | X | 218.45346 | 195.91778 | 195.60434 | 4.79419 | 0.2463879 | 0.22484719 | 2.6784142 | 21 | 5 8.9 | 21.3 |
| 279127 2009 $QT_{11}$ | 17.6 | X | 191.39529 | 209.47180 | 131.35428 | 5.81340 | 0.1376745 | 0.29504631 | 2.2346487 | 21 | 2 4.2 | 20.9 |
| 279128 2009 $QW_{15}$ | 17.2 | X | 73.28522 | 208.37704 | 159.91842 | 6.88025 | 0.1344468 | 0.26917954 | 2.3756075 | 21 | — | — |
| 279129 2009 $QU_{29}$ | 17.2 | X | 71.24998 | 199.49352 | 170.15147 | 1.69043 | 0.1717263 | 0.27030609 | 2.3690024 | 21 | — | — |
| 279130 2009 $QO_{39}$ | 17.7 | X | 207.16162 | 330.82800 | 359.01592 | 2.94077 | 0.1810333 | 0.29416028 | 2.2391337 | 21 | 2 7.9 | 21.1 |
| 279131 2009 $QU_{39}$ | 17.7 | X | 66.52022 | 28.83281 | 335.09439 | 3.84077 | 0.1597472 | 0.26873795 | 2.3782092 | 21 | — | — |
| 279132 2009 $QE_{45}$ | 17.3 | X | 137.90751 | 317.60872 | 29.03322 | 6.11084 | 0.1845670 | 0.28213626 | 2.3023081 | 21 | — | — |
| 279133 2009 $QU_{51}$ | 17.8 | X | 220.08065 | 156.66681 | 179.72538 | 5.49309 | 0.1527180 | 0.29927294 | 2.2135589 | 21 | 2 25.3 | 21.0 |
| 279134 2009 $RS_{6}$ | 17.0 | X | 54.33054 | 194.18452 | 195.11094 | 6.67704 | 0.1156212 | 0.27027437 | 2.3691877 | 21 | — | — |
| 279135 2009 $RD_{8}$ | 16.8 | X | 84.01293 | 79.05686 | 358.20603 | 7.21435 | 0.1646610 | 0.19907288 | 2.9048785 | 21 | 2 22.6 | 20.5 |
| 279136 2009 $RW_{16}$ | 18.0 | X | 253.98040 | 191.63326 | 141.19035 | 1.30984 | 0.1859637 | 0.30421157 | 2.1895367 | 21 | 3 24.4 | 21.3 |
| 279137 2009 $RQ_{28}$ | 17.0 | X | 85.66930 | 108.40510 | 240.14824 | 3.79409 | 0.2105213 | 0.26814338 | 2.3817234 | 21 | — | — |
| 279138 2009 $RU_{28}$ | 18.3 | X | 146.49169 | 190.63859 | 170.12568 | 6.68298 | 0.1344108 | 0.28612049 | 2.2808851 | 21 | 1 11.8 | 21.3 |
| 279139 2009 $RL_{39}$ | 16.6 | X | 202.10622 | 226.82956 | 277.05474 | 6.20488 | 0.1354936 | 0.24229632 | 2.5482273 | 21 | 9 14.9 | 20.5 |
| 279140 2009 $RA_{44}$ | 16.4 | X | 161.56823 | 76.87826 | 359.59070 | 8.01086 | 0.0525560 | 0.21823126 | 2.7322771 | 21 | 5 6.6 | 20.4 |
| 279141 2009 $RO_{50}$ | 17.7 | X | 342.37507 | 121.05235 | 18.35892 | 3.80568 | 0.0779570 | 0.27331190 | 2.3516013 | 21 | — | — |
| 279142 2009 $RW_{62}$ | 16.7 | X | 180.27348 | 9.31339 | 47.96962 | 5.86414 | 0.1143616 | 0.22050582 | 2.7134554 | 21 | 5 7.9 | 20.7 |
| 279143 2009 $RB_{65}$ | 17.3 | X | 160.28881 | 249.34146 | 178.25239 | 2.72110 | 0.1276947 | 0.21397018 | 2.7684321 | 21 | 5 2.4 | 21.6 |
| 279144 2009 $SW_{13}$ | 15.2 | X | 279.53981 | 275.88682 | 104.39844 | 10.93463 | 0.1057550 | 0.14752047 | 3.5473268 | 21 | 7 10.9 | 20.2 |
| 279145 2009 $SA_{18}$ | 15.3 | X | 69.59181 | 321.42014 | 47.99243 | 17.86848 | 0.1996340 | 0.18140216 | 3.0905878 | 21 | — | — |
| 279146 2009 $SS_{18}$ | 16.6 | X | 15.86449 | 56.57768 | 325.02926 | 14.23811 | 0.2042861 | 0.26309762 | 2.4120785 | 21 | — | — |
| 279147 2009 $SR_{34}$ | 16.6 | X | 242.26985 | 21.12886 | 341.31140 | 3.76932 | 0.0822181 | 0.22058241 | 2.7128272 | 21 | 5 3.8 | 20.6 |
| 279148 2009 $SQ_{36}$ | 15.9 | X | 330.18454 | 86.35313 | 7.40118 | 9.44974 | 0.0994209 | 0.17576780 | 3.1562871 | 21 | 12 27.2 | 20.0 |
| 279149 2009 $SB_{38}$ | 17.4 | X | 306.20485 | 143.24478 | 1.09621 | 2.99461 | 0.1179876 | 0.26514712 | 2.3996327 | 21 | — | — |
| 279150 2009 $SL_{45}$ | 17.3 | X | 286.17952 | 264.16693 | 335.23034 | 5.21422 | 0.1543874 | 0.28744284 | 2.2738844 | 21 | — | — |
| 279151 2009 $SD_{49}$ | 15.9 | X | 63.18311 | 53.28937 | 322.84657 | 9.13866 | 0.2356763 | 0.18137593 | 3.0908857 | 21 | — | — |
| 279152 2009 $SD_{70}$ | 17.5 | X | 260.72243 | 291.13546 | 351.91960 | 7.65126 | 0.0949405 | 0.29550713 | 2.2323249 | 21 | 2 3.9 | 20.6 |
| 279153 2009 $SR_{73}$ | 17.6 | X | 295.77725 | 178.12204 | 214.18957 | 1.65477 | 0.1409447 | 0.24127391 | 2.5554211 | 21 | 8 16.3 | 20.4 |
| 279154 2009 $SG_{74}$ | 16.0 | X | 32.31003 | 296.79870 | 105.50505 | 4.50832 | 0.1963580 | 0.17859349 | 3.1229063 | 21 | — | — |
| 279155 2009 $SB_{79}$ | 16.6 | X | 204.11572 | 251.31966 | 313.61458 | 5.23712 | 0.0994293 | 0.26105794 | 2.4246261 | 21 | 12 13.2 | 19.9 |
| 279156 2009 $SR_{90}$ | 17.8 | X | 339.26410 | 211.04545 | 314.21500 | 5.21615 | 0.0427436 | 0.28349907 | 2.2949239 | 21 | — | — |
| 279157 2009 $SG_{113}$ | 17.1 | X | 18.80438 | 151.31945 | 336.90454 | 6.86421 | 0.1788494 | 0.27936911 | 2.3174860 | 21 | — | — |
| 279158 2009 $SO_{123}$ | 17.7 | X | 155.32794 | 210.36131 | 258.38905 | 4.66056 | 0.0633959 | 0.30784467 | 2.1722758 | 21 | 6 11.4 | 20.4 |
| 279159 2009 $SJ_{131}$ | 16.2 | X | 247.03927 | 345.00788 | 33.08563 | 9.76141 | 0.0316589 | 0.22456238 | 2.6806784 | 21 | 6 4.8 | 20.0 |
| 279160 2009 $SU_{132}$ | 17.4 | X | 125.31070 | 208.37075 | 124.71795 | 2.27111 | 0.2048517 | 0.27377690 | 2.3489378 | 21 | — | — |
| 279161 2009 $SV_{133}$ | 16.8 | X | 158.61716 | 331.08796 | 99.45793 | 3.26898 | 0.0585930 | 0.21517688 | 2.7580723 | 21 | 4 30.1 | 20.7 |
| 279162 2009 $SM_{134}$ | 17.5 | X | 133.13568 | 252.13042 | 72.33992 | 4.14023 | 0.1775760 | 0.27310034 | 2.3528156 | 21 | — | — |
| 279163 2009 $SX_{135}$ | 17.0 | X | 301.75193 | 156.07214 | 213.13013 | 4.49763 | 0.1818122 | 0.23591343 | 2.5939858 | 21 | 7 16.0 | 19.9 |
| 279164 2009 $SJ_{146}$ | 17.3 | X | 145.80222 | 29.10457 | 25.61191 | 6.17132 | 0.1168149 | 0.29168102 | 2.2518041 | 21 | 3 23.5 | 20.2 |
| 279165 2009 $SA_{147}$ | 16.4 | X | 147.42198 | 237.39418 | 156.84355 | 4.53243 | 0.1463543 | 0.20369563 | 2.8607609 | 21 | 3 11.8 | 20.7 |
| 279166 2009 $SP_{156}$ | 17.7 | X | 74.87138 | 171.84255 | 180.62153 | 6.30196 | 0.1303562 | 0.26513996 | 2.3996759 | 21 | — | — |
| 279167 2009 $SP_{160}$ | 16.9 | X | 158.31465 | 199.74720 | 252.35015 | 2.68873 | 0.0879339 | 0.21808458 | 2.7335021 | 21 | 5 28.1 | 20.8 |
| 279168 2009 $SS_{160}$ | 17.3 | X | 283.18323 | 37.67991 | 307.75964 | 1.57664 | 0.0732778 | 0.22570098 | 2.6716553 | 21 | 6 3.7 | 20.9 |
| 279169 2009 $ST_{166}$ | 16.8 | X | 153.77494 | 237.25112 | 189.21058 | 8.95148 | 0.1492790 | 0.21198092 | 2.7857248 | 21 | 4 26.7 | 21.1 |
| 279170 2009 $SW_{204}$ | 18.0 | X | 154.16428 | 302.65916 | 11.21250 | 2.20625 | 0.2229827 | 0.27647290 | 2.3336426 | 21 | — | — |
| 279171 2009 $ST_{215}$ | 17.5 | X | 65.77315 | 122.47403 | 9.26815 | 4.44864 | 0.0601877 | 0.29403264 | 2.2397817 | 21 | 3 7.6 | 19.6 |
| 279172 2009 $SU_{241}$ | 16.1 | X | 31.19932 | 334.48670 | 340.12954 | 14.89370 | 0.1157977 | 0.24445819 | 2.5331816 | 21 | 10 9.5 | 19.4 |
| 279173 2009 $ST_{257}$ | 17.4 | X | 2.11140 | 21.48933 | 40.40139 | 2.74920 | 0.1956023 | 0.26057041 | 2.4276495 | 21 | — | — |
| 279174 2009 $SM_{265}$ | 17.6 | X | 120.58540 | 307.97067 | 6.63627 | 4.88145 | 0.2134553 | 0.26809480 | 2.3820111 | 21 | — | — |
| 279175 2009 $SM_{274}$ | 17.5 | X | 82.91369 | 24.17360 | 28.35678 | 4.53804 | 0.1338884 | 0.27814296 | 2.3242919 | 21 | — | — |
| 279176 2009 $SM_{277}$ | 16.6 | X | 43.79356 | 339.25782 | 151.15701 | 4.74320 | 0.1122287 | 0.20256908 | 2.8713575 | 21 | 2 19.7 | 19.9 |
| 279177 2009 $SE_{281}$ | 17.5 | X | 51.15967 | 258.03873 | 73.42248 | 3.39805 | 0.2017354 | 0.25693130 | 2.4505188 | 21 | 12 19.8 | 20.9 |
| 279178 2009 $SW_{281}$ | 17.0 | X | 248.81390 | 273.05210 | 109.14010 | 3.75992 | 0.0807415 | 0.22712049 | 2.6605117 | 21 | 6 8.2 | 20.7 |
| 279179 2009 $SU_{289}$ | 18.1 | X | 29.40439 | 347.44279 | 146.02142 | 3.67554 | 0.1036730 | 0.28135945 | 2.3065438 | 21 | 1 8.2 | 20.2 |
| 279180 2009 $SW_{290}$ | 17.9 | X | 30.50292 | 346.21897 | 105.97431 | 3.88623 | 0.1326846 | 0.27166896 | 2.3610728 | 21 | — | — |
| 279181 2009 $SF_{300}$ | 16.1 | X | 41.03561 | 239.70519 | 219.24209 | 8.13845 | 0.0870863 | 0.18514985 | 3.0487406 | 21 | 1 7.7 | 20.0 |
| 279182 2009 $SM_{336}$ | 17.8 | X | 66.95134 | 322.93912 | 171.80300 | 6.24798 | 0.1346998 | 0.29199982 | 2.2501648 | 21 | 3 23.0 | 19.7 |
| 279183 2009 $SZ_{336}$ | 16.8 | X | 80.50114 | 241.72517 | 98.55519 | 7.36047 | 0.2798978 | 0.26788634 | 2.3832467 | 21 | — | — |
| 279184 2009 $SG_{339}$ | 16.6 | X | 304.78991 | 214.19019 | 194.66205 | 6.30479 | 0.2889651 | 0.23926687 | 2.5696916 | 21 | 8 30.6 | 19.1 |
| 279185 2009 $SS_{339}$ | 17.1 | X | 188.26680 | 2.48302 | 51.21981 | 6.98287 | 0.0875035 | 0.29560845 | 2.2318148 | 21 | 5 6.8 | 19.9 |
| 279186 2009 $SD_{343}$ | 17.2 | X | 63.56362 | 295.34281 | 95.81467 | 3.44317 | 0.2171497 | 0.18493608 | 3.0510895 | 21 | — | — |
| 279187 2009 $SB_{350}$ | 18.1 | X | 170.11951 | 110.24242 | 297.19731 | 2.03549 | 0.1263573 | 0.29606011 | 2.2295444 | 21 | 4 8.1 | 21.1 |
| 279188 2009 $SF_{356}$ | 16.6 | X | 230.93359 | 185.28719 | 58.95007 | 7.25443 | 0.0660382 | 0.26622477 | 2.3931527 | 21 | — | — |
| 279189 2009 $SG_{359}$ | 16.8 | X | 64.58522 | 79.45065 | 261.31240 | 5.05254 | 0.1269345 | 0.25926885 | 2.4357674 | 21 | — | — |
| 279190 2009 $SL_{360}$ | 16.1 | X | 79.91615 | 204.29295 | 187.79601 | 10.35037 | 0.1220279 | 0.18406730 | 3.0606826 | 21 | — | — |
| 279191 2009 $SS_{361}$ | 16.1 | X | 258.06865 | 266.77024 | 124.23588 | 5.83316 | 0.1037650 | 0.21555352 | 2.7548585 | 21 | 6 28.2 | 19.9 |
| 279192 2009 $TY_{2}$ | 16.0 | X | 226.15887 | 286.76755 | 108.38548 | 13.62055 | 0.0578599 | 0.22380005 | 2.6867624 | 21 | 6 2.7 | 20.0 |
| 279193 2009 $TE_{3}$ | 17.1 | X | 148.74607 | 234.96318 | 214.15913 | 6.68513 | 0.0834208 | 0.29961215 | 2.2118878 | 21 | 5 8.3 | 19.8 |
| 279194 2009 $TF_{3}$ | 17.4 | X | 252.55490 | 126.71167 | 220.58663 | 7.98471 | 0.1534647 | 0.30421824 | 2.1895047 | 21 | 4 12.2 | 20.5 |
| 279195 2009 $TV_{3}$ | 16.5 | X | 12.18851 | 0.98191 | 21.28889 | 23.27143 | 0.1668763 | 0.25774517 | 2.4453575 | 21 | 12 30.9 | 19.9 |
| 279196 2009 $TG_{5}$ | 16.7 | X | 119.00058 | 11.73582 | 13.82238 | 6.81014 | 0.1381201 | 0.27807254 | 2.3246843 | 21 | 1 13.8 | 19.5 |
| 279197 2009 $TZ_{12}$ | 17.7 | X | 221.18984 | 219.30966 | 81.80599 | 4.22699 | 0.1546580 | 0.28834891 | 2.2691185 | 21 | 1 15.9 | 21.3 |
| 279198 2009 $TJ_{17}$ | 15.7 | X | 61.45393 | 268.95590 | 112.78607 | 6.56219 | 0.1610440 | 0.18027468 | 3.1034605 | 21 | — | — |
| 279199 2009 $TJ_{25}$ | 17.4 | X | 109.23581 | 112.48086 | 12.76545 | 2.87277 | 0.0577263 | 0.29972904 | 2.2113127 | 21 | 5 1.8 | 19.9 |
| 279200 2009 $TU_{27}$ | 16.1 | X | 240.11067 | 277.63464 | 82.92422 | 6.61769 | 0.1601754 | 0.21872427 | 2.7281698 | 21 | 4 26.4 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279201 2009 $TF_{42}$ | 16.6 | X | 189.19619 | 349.82371 | 60.29447 | 5.33481 | 0.0647970 | 0.21794137 | 2.7346994 | 21 | 5 8.2 | 20.5 |
| 279202 2009 $TO_{43}$ | 16.6 | X | 129.28387 | 277.04731 | 197.68342 | 6.39217 | 0.0097030 | 0.21381648 | 2.7697587 | 21 | 5 15.9 | 20.5 |
| 279203 2009 $TM_{45}$ | 17.0 | X | 280.68056 | 219.38623 | 156.21901 | 11.73596 | 0.2446146 | 0.23291940 | 2.6161678 | 21 | 6 16.2 | 20.8 |
| 279204 2009 $UM_{8}$ | 13.3 | X | 358.14845 | 199.20530 | 177.15246 | 18.56146 | 0.0725929 | 0.08334661 | 5.1905184 | 21 | 10 20.1 | 19.9 |
| 279205 2009 $UJ_{29}$ | 17.5 | X | 51.61119 | 209.96060 | 217.01322 | 4.93165 | 0.1120994 | 0.26981030 | 2.3719036 | 21 | — | — |
| 279206 2009 $UP_{31}$ | 17.5 | X | 112.04056 | 4.59547 | 37.41230 | 7.24533 | 0.1064423 | 0.27906596 | 2.3191641 | 21 | 1 21.6 | 20.2 |
| 279207 2009 $UW_{34}$ | 17.7 | X | 129.27021 | 158.19204 | 227.11748 | 4.12129 | 0.0690535 | 0.27770938 | 2.3267105 | 21 | 1 14.3 | 20.6 |
| 279208 2009 $UQ_{35}$ | 16.9 | X | 326.11644 | 86.01485 | 266.17073 | 0.99719 | 0.2477874 | 0.23621884 | 2.5917495 | 21 | 7 28.9 | 18.9 |
| 279209 2009 $UB_{38}$ | 16.7 | X | 235.71496 | 227.17909 | 89.93929 | 3.10105 | 0.0534144 | 0.20374728 | 2.8602775 | 21 | 3 7.3 | 20.8 |
| 279210 2009 $UW_{40}$ | 17.2 | X | 286.62597 | 306.79789 | 181.24695 | 6.47773 | 0.1420370 | 0.26045486 | 2.4283675 | 21 | 12 21.4 | 19.8 |
| 279211 2009 $UK_{41}$ | 17.0 | X | 249.97593 | 312.09946 | 41.93420 | 2.44522 | 0.2181279 | 0.22191801 | 2.7019316 | 21 | 4 20.7 | 21.3 |
| 279212 2009 $UR_{43}$ | 17.1 | X | 127.62513 | 37.19246 | 64.36154 | 1.35815 | 0.0316037 | 0.21383364 | 2.7696105 | 21 | 4 28.6 | 20.8 |
| 279213 2009 $UP_{45}$ | 17.4 | X | 119.82666 | 26.10959 | 39.16212 | 5.03384 | 0.1176633 | 0.28586753 | 2.2822305 | 21 | 3 6.7 | 20.2 |
| 279214 2009 $UV_{45}$ | 16.6 | X | 269.29969 | 270.46566 | 42.57681 | 4.96795 | 0.0611103 | 0.21274165 | 2.7790799 | 21 | 4 8.1 | 20.4 |
| 279215 2009 $UY_{56}$ | 16.3 | X | 160.56062 | 327.84369 | 25.55149 | 5.68281 | 0.0670672 | 0.19621066 | 2.9330602 | 21 | 1 30.6 | 20.6 |
| 279216 2009 $UQ_{69}$ | 15.9 | X | 13.76836 | 255.14953 | 213.08001 | 13.81646 | 0.3147459 | 0.18054736 | 3.1003350 | 21 | — | — |
| 279217 2009 $UO_{71}$ | 16.9 | X | 104.74135 | 14.80306 | 25.44205 | 7.19848 | 0.1386026 | 0.27600948 | 2.3362540 | 21 | 1 13.4 | 19.5 |
| 279218 2009 $UY_{72}$ | 16.6 | X | 257.42212 | 1.26504 | 64.39474 | 5.64159 | 0.0856349 | 0.23163814 | 2.6258062 | 21 | 8 18.7 | 20.2 |
| 279219 2009 $UH_{83}$ | 17.1 | X | 84.78152 | 42.05817 | 65.54379 | 5.55124 | 0.0464792 | 0.28547105 | 2.2843431 | 21 | 3 4.7 | 19.7 |
| 279220 2009 $UJ_{87}$ | 16.4 | X | 258.74480 | 211.04453 | 231.69947 | 12.94869 | 0.1834290 | 0.23492163 | 2.6012817 | 21 | 8 20.5 | 20.4 |
| 279221 2009 $UY_{91}$ | 16.3 | X | 349.05616 | 278.19888 | 350.14950 | 8.91620 | 0.0673437 | 0.21846722 | 2.7303094 | 21 | 5 25.0 | 19.9 |
| 279222 2009 $UC_{97}$ | 15.8 | X | 49.87979 | 166.98019 | 250.64440 | 8.87560 | 0.1750133 | 0.18112935 | 3.0936903 | 21 | — | — |
| 279223 2009 $UP_{99}$ | 17.0 | X | 359.99924 | 30.34217 | 205.19975 | 5.26970 | 0.1278723 | 0.29831930 | 2.2182738 | 21 | 4 13.9 | 18.9 |
| 279224 2009 $UU_{99}$ | 17.7 | X | 180.40224 | 306.21822 | 73.36148 | 2.89221 | 0.1222560 | 0.29091123 | 2.2557747 | 21 | 3 16.2 | 21.0 |
| 279225 2009 $UL_{101}$ | 17.2 | X | 335.16429 | 187.25384 | 158.79234 | 2.38002 | 0.1847604 | 0.23720125 | 2.5845884 | 21 | 8 17.5 | 19.3 |
| 279226 Demisroussos | 16.3 | X | 42.61696 | 161.61142 | 300.73667 | 6.12720 | 0.1306645 | 0.19156684 | 2.9802714 | 21 | 1 15.8 | 19.8 |
| 279227 2009 $UZ_{104}$ | 15.5 | X | 315.49489 | 92.78389 | 53.25620 | 13.00149 | 0.1069640 | 0.18178635 | 3.0862318 | 21 | — | — |
| 279228 2009 $UK_{109}$ | 17.1 | X | 274.41272 | 57.69018 | 33.44801 | 4.06488 | 0.1613619 | 0.23982721 | 2.5656875 | 21 | 10 3.4 | 20.0 |
| 279229 2009 $UK_{121}$ | 17.6 | X | 116.13346 | 114.14379 | 222.28522 | 3.56005 | 0.1539703 | 0.26996058 | 2.3710232 | 21 | — | — |
| 279230 2009 $UX_{122}$ | 18.1 | X | 58.28230 | 66.69928 | 118.30876 | 5.03401 | 0.0711174 | 0.30020392 | 2.2089801 | 21 | 5 16.6 | 20.3 |
| 279231 2009 $UD_{128}$ | 16.5 | X | 298.88008 | 238.39733 | 70.25808 | 5.33749 | 0.0997796 | 0.21667173 | 2.7453721 | 21 | 5 4.2 | 20.2 |
| 279232 2009 $UJ_{130}$ | 17.1 | X | 169.51098 | 269.94524 | 55.63805 | 22.47668 | 0.0781194 | 0.35972299 | 1.9580507 | 21 | — | — |
| 279233 2009 $UT_{139}$ | 15.7 | X | 59.12361 | 41.95085 | 343.62055 | 8.69367 | 0.1001377 | 0.17973729 | 3.1096434 | 21 | — | — |
| 279234 2009 $US_{144}$ | 17.0 | X | 185.45482 | 45.42673 | 271.25214 | 4.57349 | 0.1808928 | 0.28201289 | 2.3029795 | 21 | 1 3.8 | 20.5 |
| 279235 2009 $UF_{146}$ | 17.4 | X | 93.27124 | 78.20516 | 62.57801 | 6.74536 | 0.0517347 | 0.29472431 | 2.2362760 | 21 | 5 2.6 | 19.9 |
| 279236 2009 $UA_{147}$ | 16.7 | X | 123.18746 | 314.03209 | 245.42345 | 8.07684 | 0.1491686 | 0.22931450 | 2.6435146 | 21 | 9 6.8 | 21.0 |
| 279237 2009 $UT_{148}$ | 17.0 | X | 229.85915 | 220.46767 | 232.07286 | 6.36013 | 0.0629465 | 0.23236721 | 2.6203109 | 21 | 8 17.2 | 20.7 |
| 279238 2009 $UZ_{150}$ | 16.9 | X | 341.55879 | 259.12360 | 56.09977 | 6.10276 | 0.1703347 | 0.23181036 | 2.6245055 | 21 | 7 15.9 | 19.4 |
| 279239 2009 $UK_{152}$ | 14.9 | X | 135.85525 | 344.38027 | 133.06160 | 9.53532 | 0.2204360 | 0.12637070 | 3.9328295 | 21 | 6 18.2 | 21.2 |
| 279240 2009 $VV$ | 15.6 | X | 0.04674 | 134.44492 | 316.21695 | 16.72487 | 0.1847627 | 0.17804145 | 3.1293584 | 21 | — | — |
| 279241 2009 $VD_{8}$ | 15.8 | X | 1.79958 | 208.81370 | 239.01659 | 9.40187 | 0.1967115 | 0.17577227 | 3.1562336 | 21 | — | — |
| 279242 2009 $VL_{16}$ | 16.8 | X | 179.90335 | 93.45683 | 60.28603 | 5.21791 | 0.0869057 | 0.22905887 | 2.6454810 | 21 | 9 12.1 | 20.8 |
| 279243 2009 $VD_{24}$ | 16.2 | X | 292.93212 | 7.31059 | 67.29507 | 15.04705 | 0.0175157 | 0.23798128 | 2.5789377 | 21 | 10 31.7 | 19.7 |
| 279244 2009 $VN_{25}$ | 15.9 | X | 218.53091 | 348.88313 | 87.51867 | 16.01182 | 0.0696270 | 0.21829535 | 2.7317423 | 21 | 7 15.1 | 19.9 |
| 279245 2009 $VU_{33}$ | 16.5 | X | 192.79518 | 272.41242 | 236.48217 | 13.45910 | 0.0863311 | 0.23557210 | 2.5964909 | 21 | 9 11.8 | 20.7 |
| 279246 2009 $VH_{34}$ | 16.5 | X | 340.94662 | 233.30624 | 258.42731 | 4.11540 | 0.1456249 | 0.18035440 | 3.1025459 | 21 | — | — |
| 279247 2009 $VZ_{35}$ | 16.4 | X | 218.95375 | 303.47237 | 340.46962 | 3.44749 | 0.0357445 | 0.19101088 | 2.9860516 | 21 | 1 9.6 | 20.7 |
| 279248 2009 $VH_{38}$ | 17.2 | X | 98.31566 | 153.89981 | 263.24582 | 4.08560 | 0.1763562 | 0.27606573 | 2.3359366 | 21 | 1 30.1 | 19.6 |
| 279249 2009 $VD_{39}$ | 17.0 | X | 59.85641 | 3.40498 | 50.28391 | 7.81481 | 0.0925261 | 0.26635699 | 2.3923606 | 21 | — | — |
| 279250 2009 $VL_{40}$ | 15.9 | X | 340.77409 | 270.08502 | 211.16134 | 4.79742 | 0.1089699 | 0.17925987 | 3.1151622 | 21 | — | — |
| 279251 2009 $VD_{42}$ | 16.6 | X | 155.31924 | 310.02787 | 176.91371 | 8.93588 | 0.1853707 | 0.21884450 | 2.7271705 | 21 | 7 12.1 | 21.3 |
| 279252 2009 $VU_{44}$ | 17.6 | X | 335.91054 | 340.97396 | 231.56651 | 4.28358 | 0.0519311 | 0.28489400 | 2.2874267 | 21 | 2 8.6 | 20.3 |
| 279253 2009 $VL_{45}$ | 16.2 | X | 222.45995 | 34.01903 | 324.13573 | 3.58573 | 0.0825090 | 0.20899935 | 2.8121561 | 21 | 4 7.2 | 20.4 |
| 279254 2009 $VN_{46}$ | 16.4 | X | 64.16296 | 269.41651 | 198.80181 | 5.35013 | 0.0367180 | 0.19675914 | 2.9276070 | 21 | 2 14.8 | 20.5 |
| 279255 2009 $VE_{47}$ | 17.4 | X | 315.85138 | 349.55970 | 207.27159 | 5.91710 | 0.1610974 | 0.27360941 | 2.3498963 | 21 | — | — |
| 279256 2009 $VS_{48}$ | 16.3 | X | 212.45326 | 56.02691 | 63.76241 | 31.25890 | 0.2608102 | 0.22733431 | 2.6588432 | 21 | 9 5.2 | 21.5 |
| 279257 2009 $VB_{52}$ | 16.2 | X | 48.42286 | 209.02648 | 229.42862 | 7.69480 | 0.1849564 | 0.18409322 | 3.0603952 | 21 | — | — |
| 279258 2009 $VK_{56}$ | 17.3 | X | 352.16182 | 53.65191 | 266.54518 | 0.20631 | 0.1130148 | 0.23545877 | 2.5973241 | 21 | 8 15.5 | 19.8 |
| 279259 2009 $VF_{62}$ | 17.4 | X | 255.82009 | 73.78853 | 41.05716 | 3.16224 | 0.1531747 | 0.23935652 | 2.5690499 | 21 | 10 10.3 | 20.8 |
| 279260 2009 $VX_{65}$ | 17.1 | X | 249.75759 | 178.80843 | 42.81798 | 9.19962 | 0.0310581 | 0.26654872 | 2.3912133 | 21 | — | — |
| 279261 2009 $VZ_{70}$ | 16.0 | X | 86.05857 | 218.36545 | 73.38447 | 8.69895 | 0.2141089 | 0.24386166 | 2.5373110 | 21 | 12 4.9 | 19.9 |
| 279262 2009 $VX_{71}$ | 17.3 | X | 140.72917 | 29.67279 | 31.19329 | 5.12709 | 0.1037030 | 0.28838633 | 2.2689222 | 21 | 3 24.4 | 20.2 |
| 279263 2009 $VP_{73}$ | 17.4 | X | 349.92033 | 231.62947 | 216.79049 | 4.50219 | 0.1178322 | 0.26049497 | 2.4281182 | 21 | — | — |
| 279264 2009 $VK_{78}$ | 17.1 | X | 145.06667 | 295.68941 | 96.99256 | 6.32602 | 0.1159125 | 0.28417553 | 2.2912805 | 21 | 2 22.8 | 20.1 |
| 279265 2009 $VJ_{86}$ | 15.7 | X | 151.70253 | 282.33610 | 187.28577 | 2.56577 | 0.1725303 | 0.12782015 | 3.9030415 | 21 | 6 19.0 | 21.9 |
| 279266 2009 $VY_{96}$ | 16.9 | X | 241.78428 | 185.69427 | 58.71797 | 7.54565 | 0.1282227 | 0.26697804 | 2.3886491 | 21 | — | — |
| 279267 2009 $VF_{103}$ | 16.5 | X | 331.02129 | 342.25347 | 74.17466 | 4.77929 | 0.1890353 | 0.24186141 | 2.5512812 | 21 | 11 28.5 | 18.6 |
| 279268 2009 $VX_{109}$ | 17.1 | X | 246.21558 | 281.67239 | 178.71123 | 3.60832 | 0.1308564 | 0.23468903 | 2.6030002 | 21 | 9 10.6 | 20.8 |
| 279269 2009 $VS_{110}$ | 15.4 | X | 352.93784 | 357.85340 | 89.09767 | 9.13007 | 0.0503286 | 0.17662814 | 3.1460294 | 21 | — | — |
| 279270 2009 $VY_{112}$ | 16.2 | X | 272.34992 | 91.32542 | 270.33643 | 5.92747 | 0.0521639 | 0.21889287 | 2.7267687 | 21 | 6 14.8 | 20.0 |
| 279271 2009 $VR_{114}$ | 16.5 | X | 220.48413 | 348.63270 | 78.39303 | 6.27576 | 0.1470268 | 0.21667721 | 2.7453258 | 21 | 6 28.7 | 20.7 |
| 279272 2009 $VV_{114}$ | 17.6 | X | 5.97231 | 28.10507 | 155.80975 | 1.66297 | 0.1331919 | 0.28473990 | 2.2882519 | 21 | 2 5.7 | 19.5 |
| 279273 2009 $WF_{1}$ | 16.9 | X | 179.27811 | 303.12040 | 65.64545 | 25.90153 | 0.2106757 | 0.28922378 | 2.2645403 | 21 | 3 21.5 | 21.2 |
| 279274 Shurpakov | 16.8 | X | 10.56652 | 106.20146 | 357.57741 | 5.82774 | 0.2680859 | 0.17731129 | 3.1379435 | 21 | — | — |
| 279275 2009 $WC_{9}$ | 16.4 | X | 228.52561 | 244.45217 | 218.26109 | 6.28238 | 0.1582612 | 0.23057196 | 2.6338946 | 21 | 8 18.6 | 20.5 |
| 279276 2009 $WB_{14}$ | 17.8 | X | 22.17893 | 45.93421 | 188.04778 | 5.27149 | 0.1214693 | 0.30218614 | 2.1993095 | 21 | 5 30.9 | 19.5 |
| 279277 2009 $WK_{15}$ | 17.7 | X | 302.05941 | 174.42703 | 175.02582 | 3.04560 | 0.1222242 | 0.31017354 | 2.1613887 | 21 | 6 27.9 | 19.7 |
| 279278 2009 $WV_{28}$ | 15.4 | X | 332.94052 | 95.88062 | 67.09287 | 10.23596 | 0.0423653 | 0.18576401 | 3.0420171 | 21 | — | — |
| 279279 2009 $WB_{29}$ | 16.8 | X | 284.12514 | 16.02564 | 66.39179 | 8.17537 | 0.0971645 | 0.24034552 | 2.5619975 | 21 | 10 18.7 | 19.9 |
| 279280 2009 $WN_{29}$ | 17.5 | X | 80.54662 | 304.13249 | 169.53716 | 2.83023 | 0.1086712 | 0.28872220 | 2.2671622 | 21 | 3 11.6 | 19.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279281 2009 $WY_{32}$ | 17.5 | X | 10.40275 | 15.44951 | 69.34918 | 4.10430 | 0.1079767 | 0.25999091 | 2.4312555 | 21 | — | — |
| 279282 2009 $WF_{35}$ | 13.6 | X | 320.01259 | 42.37412 | 11.01413 | 6.60520 | 0.0232795 | 0.08106860 | 5.2873037 | 21 | 10 12.9 | 20.5 |
| 279283 2009 $WS_{36}$ | 16.5 | X | 172.15125 | 333.69206 | 12.29057 | 1.83803 | 0.1241444 | 0.19528922 | 2.9422791 | 21 | 2 5.9 | 21.0 |
| 279284 2009 $WT_{36}$ | 17.6 | X | 202.98999 | 27.12708 | 49.17869 | 5.75323 | 0.0879312 | 0.30507061 | 2.1854245 | 21 | 6 24.6 | 20.6 |
| 279285 2009 $WW_{53}$ | 15.9 | X | 16.88184 | 169.08588 | 266.83887 | 7.07608 | 0.2127535 | 0.17598324 | 3.1537106 | 21 | — | — |
| 279286 2009 $WY_{75}$ | 16.5 | X | 156.28977 | 37.44379 | 83.74912 | 8.57047 | 0.1727722 | 0.21600593 | 2.7510106 | 21 | 7 6.6 | 20.9 |
| 279287 2009 $WC_{77}$ | 15.8 | X | 342.30084 | 27.12502 | 15.74838 | 5.22720 | 0.0190259 | 0.15989814 | 3.3618147 | 21 | 11 6.8 | 20.5 |
| 279288 2009 $WU_{81}$ | 17.1 | X | 341.04764 | 322.07436 | 151.46278 | 9.18544 | 0.1611481 | 0.25907545 | 2.4369795 | 21 | — | — |
| 279289 2009 $WS_{99}$ | 16.0 | X | 44.11280 | 348.74915 | 38.77681 | 4.96091 | 0.0900919 | 0.17513769 | 3.1638530 | 21 | — | — |
| 279290 2009 $WX_{101}$ | 16.1 | X | 197.67258 | 298.91475 | 352.49547 | 5.42618 | 0.0959848 | 0.18592909 | 3.0402164 | 21 | — | — |
| 279291 2009 $WO_{104}$ | 15.2 | X | 89.64712 | 244.80574 | 114.07560 | 10.49328 | 0.0970652 | 0.17714999 | 3.1398480 | 21 | — | — |
| 279292 2009 $WS_{107}$ | 17.5 | X | 37.98376 | 347.49111 | 107.12941 | 2.26059 | 0.1496082 | 0.27108668 | 2.3644525 | 21 | — | — |
| 279293 2009 $WW_{117}$ | 16.7 | X | 78.16687 | 186.46965 | 262.89903 | 0.90414 | 0.0423335 | 0.19423802 | 2.9528851 | 21 | 2 12.2 | 20.7 |
| 279294 2009 $WT_{125}$ | 16.8 | X | 290.02795 | 330.82710 | 237.13440 | 6.04350 | 0.0842998 | 0.26957873 | 2.3732617 | 21 | — | — |
| 279295 2009 $WB_{129}$ | 16.5 | X | 243.25167 | 262.07390 | 5.86745 | 1.19238 | 0.0497560 | 0.19240643 | 2.9715953 | 21 | 1 16.2 | 20.7 |
| 279296 2009 $WL_{140}$ | 15.5 | X | 34.61493 | 309.02029 | 81.98464 | 10.45975 | 0.0582400 | 0.17320783 | 3.1873105 | 21 | — | — |
| 279297 2009 $WN_{142}$ | 16.7 | X | 255.92855 | 63.99153 | 3.73764 | 4.98416 | 0.0606895 | 0.23104049 | 2.6303325 | 21 | 8 22.3 | 20.2 |
| 279298 2009 $WD_{155}$ | 15.6 | X | 133.31393 | 122.08853 | 292.94155 | 11.48870 | 0.1092982 | 0.19981772 | 2.8976552 | 21 | 3 12.3 | 20.1 |
| 279299 2009 $WJ_{161}$ | 16.6 | X | 163.82876 | 98.57008 | 25.45844 | 3.06597 | 0.0920789 | 0.21957186 | 2.7211444 | 21 | 7 15.5 | 20.6 |
| 279300 2009 $WN_{177}$ | 17.6 | X | 123.70351 | 75.48807 | 330.97115 | 4.12079 | 0.1098892 | 0.28043461 | 2.3116122 | 21 | 2 11.6 | 20.4 |
| 279301 2009 $WX_{179}$ | 16.1 | X | 292.61513 | 280.48677 | 58.48992 | 10.83847 | 0.1478484 | 0.22185020 | 2.7024822 | 21 | 5 26.9 | 19.5 |
| 279302 2009 $WK_{183}$ | 16.8 | X | 116.47391 | 270.66966 | 185.73534 | 3.22662 | 0.0814664 | 0.20097953 | 2.8864774 | 21 | 4 16.3 | 20.7 |
| 279303 2009 $WM_{186}$ | 16.4 | X | 75.08002 | 216.99495 | 47.75907 | 15.41412 | 0.0637241 | 0.23740755 | 2.5830910 | 21 | 10 7.9 | 20.0 |
| 279304 2009 $WL_{191}$ | 16.7 | X | 75.48191 | 151.93172 | 250.18326 | 1.50933 | 0.1545880 | 0.18520491 | 3.0481363 | 21 | — | — |
| 279305 2009 $WC_{194}$ | 16.9 | X | 264.78428 | 213.99530 | 240.58288 | 3.49817 | 0.1406666 | 0.23652771 | 2.5894927 | 21 | 9 24.4 | 20.2 |
| 279306 2009 $WQ_{203}$ | 16.1 | X | 329.77103 | 288.02258 | 239.78738 | 11.00527 | 0.2495647 | 0.17927331 | 3.1150066 | 21 | — | — |
| 279307 2009 $WO_{207}$ | 17.1 | X | 324.60932 | 23.10608 | 309.47831 | 1.81201 | 0.0995779 | 0.22713289 | 2.6604149 | 21 | 7 15.2 | 19.9 |
| 279308 2009 $WM_{216}$ | 15.4 | X | 313.58981 | 41.93613 | 354.99423 | 8.44491 | 0.1203154 | 0.15462933 | 3.4377541 | 21 | 9 15.9 | 19.7 |
| 279309 2009 $WM_{217}$ | 16.8 | X | 340.40857 | 29.73500 | 88.57873 | 7.24400 | 0.0606970 | 0.26385272 | 2.4074744 | 21 | — | — |
| 279310 2009 $WQ_{248}$ | 16.5 | X | 155.11838 | 71.25133 | 30.86386 | 4.39196 | 0.0793232 | 0.21193200 | 2.7861534 | 21 | 6 5.7 | 20.6 |
| 279311 2009 $WC_{252}$ | 15.9 | X | 296.27145 | 298.37343 | 240.60552 | 7.77073 | 0.1416130 | 0.17473274 | 3.1687394 | 21 | — | — |
| 279312 2009 $WF_{259}$ | 16.2 | X | 248.80881 | 314.83657 | 114.18456 | 6.05522 | 0.0080027 | 0.21849235 | 2.7301000 | 21 | 8 21.5 | 19.9 |
| 279313 2009 $WP_{260}$ | 16.9 | X | 322.51400 | 310.42541 | 111.94940 | 6.77698 | 0.0651432 | 0.23756587 | 2.5819432 | 21 | 11 21.2 | 20.0 |
| 279314 2009 $WS_{261}$ | 16.5 | X | 310.51077 | 9.55176 | 41.21350 | 13.21311 | 0.1644614 | 0.23932930 | 2.5692447 | 21 | 10 11.1 | 19.1 |
| 279315 2009 $WX_{261}$ | 16.5 | X | 326.53225 | 8.68165 | 288.05019 | 4.25257 | 0.0271633 | 0.21401200 | 2.7680715 | 21 | 6 5.4 | 20.0 |
| 279316 2009 $WA_{262}$ | 16.0 | X | 350.81550 | 186.97687 | 100.47996 | 8.90378 | 0.0673719 | 0.20895307 | 2.8125713 | 21 | 6 26.7 | 19.3 |
| 279317 2009 $XH_{1}$ | 15.9 | X | 169.64824 | 7.79342 | 96.27169 | 9.06719 | 0.1755327 | 0.21074112 | 2.7966398 | 21 | 6 27.2 | 20.4 |
| 279318 2009 $XC_{5}$ | 16.2 | X | 346.84514 | 17.13604 | 108.93732 | 2.32120 | 0.1354017 | 0.17612467 | 3.1520221 | 21 | — | — |
| 279319 2009 $XM_{6}$ | 14.9 | X | 303.42267 | 308.28691 | 261.57986 | 15.63834 | 0.1895941 | 0.17717901 | 3.1395052 | 21 | — | — |
| 279320 2009 $XZ_{9}$ | 17.4 | X | 118.49056 | 21.14406 | 42.95563 | 4.01637 | 0.1311849 | 0.28777794 | 2.2721189 | 21 | 3 4.6 | 20.1 |
| 279321 2009 $XH_{11}$ | 16.0 | X | 133.05432 | 56.07386 | 97.99653 | 5.98855 | 0.0983259 | 0.21262240 | 2.7801189 | 21 | 7 20.7 | 20.1 |
| 279322 2009 $XN_{13}$ | 15.8 | X | 359.33868 | 244.20735 | 234.32955 | 8.82397 | 0.0675584 | 0.17794184 | 3.1305261 | 21 | — | — |
| 279323 2009 $XX_{14}$ | 15.7 | X | 305.76554 | 94.54915 | 104.14938 | 10.63722 | 0.1319213 | 0.17606679 | 3.1527129 | 21 | — | — |
| 279324 2009 $XU_{16}$ | 16.2 | X | 10.64742 | 55.25624 | 91.59899 | 2.69190 | 0.0978754 | 0.18057168 | 3.1000566 | 21 | 1 24.8 | 20.1 |
| 279325 2009 $XR_{18}$ | 16.2 | X | 285.15648 | 308.53900 | 110.31473 | 11.68594 | 0.1472341 | 0.22903087 | 2.6456966 | 21 | 9 9.6 | 19.6 |
| 279326 2009 $XY_{18}$ | 17.0 | X | 148.72748 | 262.21814 | 106.71734 | 7.48221 | 0.1399922 | 0.27127544 | 2.3633556 | 21 | 1 30.6 | 20.2 |
| 279327 2009 $XZ_{18}$ | 16.0 | X | 177.14811 | 40.02284 | 109.98651 | 12.86057 | 0.0694309 | 0.22051317 | 2.7133950 | 21 | 9 5.6 | 20.2 |
| 279328 2009 $XA_{19}$ | 16.0 | X | 336.44488 | 254.81493 | 109.35833 | 6.93473 | 0.0715117 | 0.22664818 | 2.6642066 | 21 | 9 23.9 | 19.2 |
| 279329 2009 $XC_{19}$ | 16.4 | X | 99.44902 | 31.42684 | 112.50608 | 9.83942 | 0.0375873 | 0.20125452 | 2.8838475 | 21 | 5 22.1 | 20.5 |
| 279330 2009 $XR_{19}$ | 16.9 | X | 292.28496 | 327.61590 | 100.09046 | 2.24708 | 0.0718774 | 0.23153390 | 2.6265943 | 21 | 10 10.7 | 20.1 |
| 279331 2009 $XT_{19}$ | 16.7 | X | 159.97405 | 135.75516 | 315.24252 | 1.01156 | 0.0267901 | 0.20438433 | 2.8543309 | 21 | 5 25.1 | 20.8 |
| 279332 2009 $XY_{19}$ | 16.7 | X | 165.69755 | 359.92346 | 97.11037 | 3.15668 | 0.0437730 | 0.20718062 | 2.8285898 | 21 | 6 10.2 | 20.7 |
| 279333 2009 $XZ_{19}$ | 16.8 | X | 78.16232 | 90.89354 | 98.49623 | 3.22170 | 0.0289701 | 0.20707111 | 2.8295869 | 21 | 6 18.8 | 20.5 |
| 279334 2009 $XM_{24}$ | 17.2 | X | 284.39082 | 7.95123 | 79.95572 | 10.23546 | 0.1293368 | 0.23914509 | 2.5705639 | 21 | 10 23.3 | 20.3 |
| 279335 2009 $XA_{25}$ | 16.0 | X | 78.39029 | 82.67856 | 122.38550 | 9.88749 | 0.0868939 | 0.20882783 | 2.8136958 | 21 | 7 18.9 | 19.7 |
| 279336 2009 $YL$ | 16.2 | X | 211.02253 | 159.45820 | 195.36611 | 7.40088 | 0.0267979 | 0.20364772 | 2.8612097 | 21 | 3 24.7 | 20.3 |
| 279337 2009 $YK_{3}$ | 16.3 | X | 205.11520 | 270.07078 | 135.27891 | 4.62369 | 0.1249304 | 0.20868121 | 2.8150135 | 21 | 5 19.6 | 20.7 |
| 279338 2009 $YX_{3}$ | 15.4 | X | 15.06411 | 34.26169 | 115.75763 | 12.95459 | 0.0984621 | 0.18265048 | 3.0764900 | 21 | 2 4.6 | 19.3 |
| 279339 2009 $YG_{6}$ | 16.3 | X | 109.54113 | 195.37688 | 182.81406 | 6.34086 | 0.1018666 | 0.18652512 | 3.0337363 | 21 | 1 5.5 | 20.6 |
| 279340 2009 $YM_{6}$ | 15.7 | X | 30.38629 | 30.10119 | 86.70674 | 8.62920 | 0.2167916 | 0.18035106 | 3.1025842 | 21 | 1 17.6 | 18.7 |
| 279341 2009 $YM_{7}$ | 17.3 | X | 352.74650 | 265.99204 | 227.37694 | 1.74917 | 0.0456095 | 0.26291113 | 2.4132190 | 21 | — | — |
| 279342 2009 $YZ_{7}$ | 15.2 | X | 253.72615 | 332.60863 | 273.24883 | 8.73184 | 0.0326715 | 0.17952284 | 3.1121194 | 21 | 1 4.8 | 19.8 |
| 279343 2009 $YZ_{9}$ | 16.6 | X | 50.71407 | 203.22860 | 82.36885 | 6.72266 | 0.0848387 | 0.22328455 | 2.6908961 | 21 | 10 1.8 | 20.2 |
| 279344 2009 $YM_{13}$ | 16.6 | X | 155.05252 | 225.47861 | 222.95537 | 3.42684 | 0.0966334 | 0.20406640 | 2.8572948 | 21 | 5 21.3 | 20.9 |
| 279345 2009 $YT_{13}$ | 15.6 | X | 321.01349 | 252.79391 | 307.77112 | 8.58344 | 0.0683017 | 0.18125133 | 3.0923020 | 21 | 1 25.1 | 19.9 |
| 279346 2009 $YL_{19}$ | 16.4 | X | 41.96116 | 293.11153 | 259.10020 | 6.32214 | 0.0950784 | 0.20241577 | 2.8728072 | 21 | 5 8.6 | 19.9 |
| 279347 2009 $YB_{20}$ | 16.1 | X | 266.94687 | 326.29814 | 92.00885 | 14.52496 | 0.0302128 | 0.22663797 | 2.6642865 | 21 | 9 2.5 | 19.9 |
| 279348 2009 $YK_{22}$ | 15.5 | X | 334.71715 | 16.51198 | 121.78048 | 10.86522 | 0.0821425 | 0.17088175 | 3.2161694 | 21 | — | — |
| 279349 2010 $AS_{3}$ | 16.7 | X | 278.44396 | 65.49872 | 59.12872 | 2.82137 | 0.0600725 | 0.23983566 | 2.5656272 | 21 | 12 7.4 | 19.8 |
| 279350 2010 $AW_{8}$ | 16.2 | X | 317.39630 | 200.69545 | 136.18839 | 6.60441 | 0.0478617 | 0.21350515 | 2.7724506 | 21 | 7 14.9 | 19.9 |
| 279351 2010 $AP_{10}$ | 16.5 | X | 121.85006 | 168.94743 | 85.88868 | 9.13837 | 0.1351030 | 0.23369291 | 2.6103918 | 21 | 11 18.4 | 20.6 |
| 279352 2010 $AN_{12}$ | 16.2 | X | 275.79028 | 322.77505 | 109.82887 | 16.33210 | 0.1033836 | 0.22731804 | 2.6589701 | 21 | 9 24.4 | 19.9 |
| 279353 2010 $AV_{14}$ | 16.6 | X | 194.15304 | 50.08308 | 19.86739 | 3.59097 | 0.0779225 | 0.21061138 | 2.7977881 | 21 | 6 7.6 | 20.7 |
| 279354 2010 $AE_{17}$ | 15.8 | X | 187.47156 | 305.22552 | 155.41240 | 8.14504 | 0.1906508 | 0.21267038 | 2.7797007 | 21 | 7 8.0 | 20.5 |
| 279355 2010 $AL_{26}$ | 16.7 | X | 238.00827 | 286.97613 | 142.80779 | 3.85290 | 0.0978581 | 0.21563597 | 2.7541563 | 21 | 7 25.6 | 20.5 |
| 279356 2010 $AL_{33}$ | 16.1 | X | 306.75080 | 316.98591 | 89.80631 | 6.48527 | 0.0450610 | 0.22763164 | 2.6565274 | 21 | 10 8.6 | 19.5 |
| 279357 2010 $AS_{35}$ | 17.0 | X | 173.39675 | 204.13774 | 143.82221 | 7.51371 | 0.1258999 | 0.26758546 | 2.3850329 | 21 | 1 28.6 | 20.4 |
| 279358 2010 $AL_{37}$ | 16.7 | X | 24.81350 | 212.69212 | 111.60642 | 6.18398 | 0.0524150 | 0.22428792 | 2.6828648 | 21 | 10 11.8 | 20.2 |
| 279359 2010 $AO_{50}$ | 15.7 | X | 296.79820 | 339.55861 | 156.81648 | 10.95964 | 0.0896953 | 0.15797205 | 3.3890856 | 21 | 12 26.1 | 20.3 |
| 279360 2010 $AZ_{55}$ | 15.7 | X | 73.54541 | 293.16950 | 126.44304 | 10.56926 | 0.1799871 | 0.17539404 | 3.1607695 | 21 | 1 21.2 | 19.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279361 2010 $AF_{59}$ | 16.5 | X | 280.68887 | 269.98466 | 143.15773 | 7.02390 | 0.1478902 | 0.22694912 | 2.6618508 | 21 | 8 21.2 | 19.9 |
| 279362 2010 $AP_{59}$ | 15.4 | X | 188.16331 | 101.08670 | 340.89254 | 8.36234 | 0.1247723 | 0.20968133 | 2.8060551 | 21 | 6 16.4 | 19.9 |
| 279363 2010 $AV_{59}$ | 15.1 | X | 55.40029 | 354.84537 | 98.66920 | 19.59364 | 0.1988853 | 0.17829575 | 3.1263822 | 21 | 2 7.8 | 18.8 |
| 279364 2010 $AF_{60}$ | 16.5 | X | 254.14852 | 32.90837 | 28.20079 | 6.83980 | 0.0408215 | 0.22118953 | 2.7078608 | 21 | 8 14.9 | 20.2 |
| 279365 2010 $AK_{61}$ | 15.8 | X | 10.33986 | 346.54327 | 153.58177 | 10.88363 | 0.1022434 | 0.17671877 | 3.1449538 | 21 | 1 15.3 | 19.9 |
| 279366 2010 $AU_{68}$ | 15.3 | X | 311.58921 | 99.16340 | 83.50758 | 10.58885 | 0.0473308 | 0.17474840 | 3.1685501 | 21 | — | — |
| 279367 2010 $AO_{72}$ | 15.1 | X | 265.16059 | 151.58832 | 100.03717 | 14.72545 | 0.0472462 | 0.17875514 | 3.1210234 | 21 | 1 24.3 | 19.7 |
| 279368 2010 $AR_{72}$ | 15.6 | X | 18.95314 | 134.58774 | 341.37493 | 8.28452 | 0.0555445 | 0.17503862 | 3.1650468 | 21 | 1 2.7 | 19.9 |
| 279369 2010 $AZ_{73}$ | 15.6 | X | 19.15654 | 168.04128 | 100.53125 | 9.84460 | 0.0820693 | 0.21002383 | 2.8030036 | 21 | 7 16.9 | 18.9 |
| 279370 2010 $AC_{74}$ | 16.2 | X | 251.00700 | 286.78597 | 142.37241 | 13.69201 | 0.1877389 | 0.22275300 | 2.6951752 | 21 | 7 28.7 | 20.2 |
| 279371 2010 $AT_{75}$ | 16.5 | X | 185.51436 | 244.16990 | 195.37896 | 6.98731 | 0.2131409 | 0.21069076 | 2.7970853 | 21 | 6 11.2 | 21.4 |
| 279372 2010 $AZ_{77}$ | 16.5 | X | 295.13619 | 261.12333 | 96.48582 | 3.48303 | 0.0931072 | 0.21536591 | 2.7564582 | 21 | 7 4.6 | 20.1 |
| 279373 2010 $AU_{79}$ | 15.2 | X | 266.90444 | 116.64213 | 127.10161 | 10.23623 | 0.0445160 | 0.17502590 | 3.1652001 | 21 | 1 16.9 | 19.7 |
| 279374 2010 $AE_{80}$ | 16.0 | X | 39.05063 | 290.48008 | 158.28774 | 5.54867 | 0.1250250 | 0.17208383 | 3.2011745 | 21 | — | — |
| 279375 2010 $AC_{81}$ | 15.5 | X | 44.55645 | 321.28508 | 151.36430 | 10.41149 | 0.0914062 | 0.17910912 | 3.1169099 | 21 | 2 1.4 | 19.5 |
| 279376 2010 $BW_{101}$ | 16.0 | X | 144.46762 | 49.20028 | 41.57607 | 0.48879 | 0.2585527 | 0.12510597 | 3.9592904 | 21 | 5 26.9 | 22.4 |
| 279377 Lechmankiewicz | 15.7 | X | 111.62695 | 339.49195 | 90.76674 | 12.50604 | 0.1084233 | 0.18749752 | 3.0232382 | 21 | 3 20.1 | 20.2 |
| 279378 2010 $CS_{2}$ | 16.0 | X | 112.91942 | 265.80221 | 136.82436 | 9.12172 | 0.1499421 | 0.17865269 | 3.1222165 | 21 | 2 17.2 | 20.4 |
| 279379 2010 $CU_{4}$ | 15.6 | X | 51.82254 | 347.05394 | 130.79057 | 6.26822 | 0.1163047 | 0.17992137 | 3.1075220 | 21 | 2 22.5 | 19.4 |
| 279380 2010 $CL_{41}$ | 15.1 | X | 141.82832 | 275.18852 | 100.72534 | 17.29884 | 0.0245219 | 0.17860664 | 3.1227531 | 21 | 2 3.8 | 19.7 |
| 279381 2010 $CD_{42}$ | 15.3 | X | 84.92249 | 309.71867 | 145.34644 | 10.48334 | 0.0139208 | 0.18178531 | 3.0862435 | 21 | 2 27.7 | 19.5 |
| 279382 2010 $CO_{43}$ | 16.3 | X | 182.69053 | 312.24146 | 133.46027 | 11.80193 | 0.1173379 | 0.20623020 | 2.8372735 | 21 | 6 17.0 | 20.9 |
| 279383 2010 $CM_{59}$ | 15.2 | X | 193.55891 | 164.00266 | 155.50878 | 15.21282 | 0.0268543 | 0.17458531 | 3.1705231 | 21 | 1 24.7 | 20.0 |
| 279384 2010 $CB_{60}$ | 15.7 | X | 50.24404 | 357.59114 | 156.47280 | 13.56962 | 0.0852269 | 0.18618311 | 3.0374504 | 21 | 4 5.9 | 19.7 |
| 279385 2010 $CG_{61}$ | 15.3 | X | 124.80055 | 328.47603 | 97.96515 | 13.85216 | 0.2256338 | 0.19115215 | 2.9845803 | 21 | 4 13.1 | 20.2 |
| 279386 2010 $CP_{69}$ | 16.8 | X | 129.91135 | 12.85300 | 131.21205 | 5.16923 | 0.0413647 | 0.20832669 | 2.8182062 | 21 | 6 27.8 | 20.7 |
| 279387 2010 $CA_{70}$ | 15.1 | X | 66.67615 | 354.57359 | 313.29313 | 8.89653 | 0.0665060 | 0.14746430 | 3.5482275 | 21 | 10 29.7 | 20.3 |
| 279388 2010 $CK_{98}$ | 16.4 | X | 323.15990 | 197.30352 | 148.19303 | 5.82190 | 0.0398543 | 0.21287028 | 2.7779602 | 21 | 8 4.9 | 19.8 |
| 279389 2010 $CA_{121}$ | 15.3 | X | 19.66091 | 351.18885 | 139.92110 | 17.62132 | 0.1624541 | 0.17509367 | 3.1643833 | 21 | 1 17.0 | 18.9 |
| 279390 2010 $CW_{142}$ | 16.4 | X | 281.58335 | 79.05361 | 303.18556 | 1.55900 | 0.0215331 | 0.21638390 | 2.7478062 | 21 | 7 30.1 | 20.0 |
| 279391 2010 $CN_{145}$ | 15.8 | X | 182.75510 | 55.61059 | 51.21457 | 8.47184 | 0.0882162 | 0.21376695 | 2.7701865 | 21 | 7 14.2 | 20.1 |
| 279392 2010 $CB_{152}$ | 15.8 | X | 306.95125 | 59.95311 | 172.32594 | 7.55899 | 0.0024867 | 0.18104592 | 3.0946407 | 21 | 2 23.0 | 20.2 |
| 279393 2010 $CE_{160}$ | 16.3 | X | 183.60099 | 272.80289 | 149.55702 | 5.82879 | 0.1637067 | 0.20507588 | 2.8479105 | 21 | 5 20.6 | 21.0 |
| 279394 2010 $CX_{176}$ | 15.7 | X | 353.62907 | 180.60688 | 156.36917 | 18.46843 | 0.2513970 | 0.21642353 | 2.7474706 | 21 | 9 18.7 | 17.8 |
| 279395 2010 $CU_{179}$ | 15.3 | X | 120.54707 | 265.43287 | 170.39636 | 15.28153 | 0.0454432 | 0.18368599 | 3.0649168 | 21 | 3 24.2 | 19.6 |
| 279396 2010 $DK_{77}$ | 15.8 | X | 48.55800 | 330.07636 | 156.26754 | 8.75553 | 0.0422267 | 0.17916766 | 3.1162309 | 21 | 2 21.7 | 20.0 |
| 279397 Dombeck | 15.5 | X | 80.40828 | 10.76707 | 95.49563 | 12.68091 | 0.1088110 | 0.18396527 | 3.0618141 | 21 | 3 25.9 | 19.8 |
| 279398 2010 $EW_{11}$ | 16.0 | X | 337.79420 | 226.20830 | 109.31916 | 6.91494 | 0.0750302 | 0.21304280 | 2.7764604 | 21 | 8 13.2 | 19.4 |
| 279399 2010 $EF_{30}$ | 17.5 | X | 73.16573 | 188.12890 | 348.96553 | 3.93768 | 0.1807391 | 0.27773154 | 2.3265867 | 21 | 6 16.9 | 20.0 |
| 279400 2010 $EK_{37}$ | 17.6 | X | 123.15786 | 344.51339 | 129.57188 | 2.96915 | 0.0727161 | 0.27630896 | 2.3345655 | 21 | 5 11.4 | 20.5 |
| 279401 2010 $EK_{38}$ | 16.7 | X | 276.74679 | 266.34424 | 172.41803 | 3.19336 | 0.0807562 | 0.21464567 | 2.7626209 | 21 | 9 28.7 | 20.3 |
| 279402 2010 $EK_{41}$ | 16.1 | X | 196.49360 | 323.16223 | 185.56154 | 7.69915 | 0.1589316 | 0.21477528 | 2.7615093 | 21 | 9 14.7 | 20.4 |
| 279403 2010 $EW_{44}$ | 15.5 | X | 296.68659 | 130.93036 | 127.75961 | 11.77039 | 0.1369740 | 0.18450438 | 3.0558470 | 21 | 2 26.4 | 19.9 |
| 279404 2010 $EJ_{70}$ | 16.1 | X | 100.13644 | 184.76434 | 188.14750 | 14.18784 | 0.1653513 | 0.24173459 | 2.5521734 | 21 | — | — |
| 279405 2010 $EZ_{83}$ | 15.6 | X | 257.57414 | 130.45074 | 133.15037 | 5.47853 | 0.0475118 | 0.17408460 | 3.1765996 | 21 | 1 29.9 | 20.2 |
| 279406 2010 $EH_{87}$ | 16.2 | X | 288.20253 | 294.57168 | 185.41668 | 11.46352 | 0.1467407 | 0.22898758 | 2.6460300 | 21 | 12 4.6 | 19.3 |
| 279407 2010 $EA_{105}$ | 16.1 | X | 306.77942 | 15.34056 | 141.28764 | 12.15121 | 0.0527962 | 0.24161473 | 2.5530174 | 21 | — | — |
| 279408 2010 $EO_{121}$ | 16.6 | X | 313.44788 | 118.84776 | 150.71448 | 3.09937 | 0.0768244 | 0.18373320 | 3.0643917 | 21 | 4 9.9 | 20.6 |
| 279409 2010 $EZ_{124}$ | 16.7 | X | 226.06632 | 129.01229 | 35.85181 | 10.70375 | 0.0928906 | 0.22602112 | 2.6691319 | 21 | 11 11.8 | 20.6 |
| 279410 McCallon | 16.7 | X | 248.63345 | 151.20325 | 80.47035 | 15.26290 | 0.1100546 | 0.26344061 | 2.4099844 | 21 | — | — |
| 279411 2010 $FM_{6}$ | 15.1 | X | 153.60430 | 288.72116 | 65.67423 | 16.29511 | 0.0520496 | 0.17051546 | 3.2207737 | 21 | 1 28.6 | 20.1 |
| 279412 2010 $FN_{14}$ | 15.8 | X | 310.76932 | 185.55093 | 73.71653 | 5.38905 | 0.0808347 | 0.17594700 | 3.1541436 | 21 | 3 26.5 | 20.2 |
| 279413 2010 $FH_{22}$ | 17.1 | X | 8.43688 | 227.33762 | 33.72797 | 6.06287 | 0.1439086 | 0.27939066 | 2.3173669 | 21 | 6 16.3 | 19.0 |
| 279414 2010 $FE_{101}$ | 16.1 | X | 341.65704 | 349.94377 | 217.24534 | 4.62660 | 0.1320117 | 0.17316200 | 3.1878728 | 21 | 2 21.6 | 20.2 |
| 279415 2010 $GM_{6}$ | 15.7 | X | 27.34971 | 236.05448 | 344.80685 | 8.91289 | 0.0841285 | 0.18683620 | 3.0303680 | 21 | 5 22.9 | 19.7 |
| 279416 2010 $GR_{6}$ | 17.6 | X | 90.19709 | 45.50401 | 244.20894 | 2.19547 | 0.1803429 | 0.29119493 | 2.2543093 | 21 | 12 10.4 | 21.0 |
| 279417 2010 $GA_{29}$ | 17.2 | X | 144.24736 | 25.08118 | 205.61487 | 4.76248 | 0.1015080 | 0.30232129 | 2.1986540 | 21 | 11 18.0 | 20.2 |
| 279418 2010 $GQ_{42}$ | 15.8 | X | 288.27243 | 122.56402 | 115.80552 | 3.64063 | 0.1534413 | 0.17945862 | 3.1128618 | 21 | 1 20.8 | 20.4 |
| 279419 2010 $GX_{111}$ | 16.1 | X | 265.58632 | 79.21830 | 46.87108 | 15.32410 | 0.0346928 | 0.21876495 | 2.7278316 | 21 | 11 19.4 | 19.8 |
| 279420 2010 $GC_{140}$ | 16.2 | X | 66.83800 | 3.43548 | 178.47271 | 5.32199 | 0.0801246 | 0.18605501 | 3.0388445 | 21 | 6 2.3 | 20.3 |
| 279421 2010 $GR_{152}$ | 15.9 | X | 286.22783 | 252.88950 | 313.59232 | 8.88147 | 0.0302425 | 0.17291328 | 3.1909291 | 21 | — | — |
| 279422 2010 $GX_{158}$ | 16.8 | X | 354.31644 | 207.41621 | 64.12174 | 6.29437 | 0.1012648 | 0.27263741 | 2.3554782 | 21 | 6 5.1 | 18.8 |
| 279423 2010 $HS_{111}$ | 15.4 | X | 319.52721 | 48.39663 | 254.93810 | 8.67458 | 0.0426186 | 0.17150393 | 3.2083863 | 21 | 6 4.8 | 19.8 |
| 279424 2010 $JY_{151}$ | 16.2 | X | 356.21140 | 121.08420 | 99.39463 | 4.92847 | 0.1330362 | 0.17427190 | 3.1743232 | 21 | 4 7.2 | 20.0 |
| 279425 2010 $KR_{118}$ | 16.7 | X | 348.39693 | 251.24459 | 63.66449 | 5.57177 | 0.2369113 | 0.26473375 | 2.4021300 | 21 | 8 1.1 | 18.1 |
| 279426 2010 $MU_{8}$ | 16.9 | X | 15.83523 | 189.18112 | 127.99671 | 4.94393 | 0.2015015 | 0.27047166 | 2.3680355 | 21 | 10 14.8 | 19.0 |
| 279427 2010 $MG_{28}$ | 16.6 | X | 87.20652 | 281.06082 | 136.66165 | 8.83628 | 0.2076588 | 0.21508462 | 2.7588610 | 21 | 2 3.4 | 19.9 |
| 279428 2010 $MX_{85}$ | 15.7 | X | 19.84808 | 141.91497 | 192.18680 | 16.16441 | 0.1398602 | 0.18189708 | 3.0849791 | 21 | 10 19.3 | 19.4 |
| 279429 2010 $NY_{11}$ | 16.0 | X | 73.35942 | 222.99083 | 88.12256 | 7.56682 | 0.1095356 | 0.18951083 | 3.0017881 | 21 | 11 26.9 | 20.3 |
| 279430 2010 $NY_{30}$ | 15.6 | X | 4.11111 | 267.05889 | 101.76552 | 10.98937 | 0.1242887 | 0.18328903 | 3.0693405 | 21 | 11 9.7 | 19.5 |
| 279431 2010 $NL_{51}$ | 15.8 | X | 17.14605 | 11.98679 | 344.83680 | 8.75520 | 0.1776266 | 0.18405721 | 3.0607944 | 21 | 11 14.3 | 19.6 |
| 279432 2010 $NF_{63}$ | 17.0 | X | 97.16234 | 332.70702 | 126.56536 | 2.96310 | 0.1636194 | 0.22485018 | 2.6783905 | 21 | 4 5.9 | 20.6 |
| 279433 2010 $NX_{68}$ | 15.7 | X | 281.67630 | 266.84779 | 150.76292 | 5.21818 | 0.1036438 | 0.17068462 | 3.2186454 | 21 | 8 31.2 | 20.1 |
| 279434 2010 $NA_{79}$ | 14.4 | X | 149.08694 | 260.41607 | 94.17676 | 9.83151 | 0.1834913 | 0.12507634 | 3.9599157 | 21 | 2 9.9 | 20.6 |
| 279435 2010 $NL_{111}$ | 15.2 | X | 147.27348 | 214.34326 | 136.67977 | 9.89435 | 0.2885718 | 0.12517251 | 3.9578873 | 21 | 2 9.6 | 21.7 |
| 279436 2010 $NN_{112}$ | 15.2 | X | 49.31768 | 234.42091 | 54.58287 | 10.09293 | 0.0644397 | 0.17532995 | 3.1615397 | 21 | 9 27.1 | 19.6 |
| 279437 2010 $OV_{10}$ | 15.5 | X | 48.99121 | 283.52779 | 31.31160 | 19.75404 | 0.1307529 | 0.18285157 | 3.0742340 | 21 | 11 1.4 | 19.8 |
| 279438 2010 $OO_{20}$ | 15.7 | X | 313.63927 | 224.98533 | 193.82083 | 5.63264 | 0.0215240 | 0.18093596 | 3.0958943 | 21 | 10 25.8 | 19.8 |
| 279439 2010 $OT_{33}$ | 15.7 | X | 90.16622 | 67.94528 | 207.74413 | 15.40218 | 0.0654428 | 0.18118727 | 3.0930309 | 21 | 10 27.2 | 20.1 |
| 279440 2010 $OQ_{99}$ | 16.9 | X | 159.39919 | 81.16655 | 0.91342 | 10.72296 | 0.2778924 | 0.23140455 | 2.6275729 | 21 | 5 22.6 | 21.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279441 2010 $RO_{14}$ | 17.4 | X | 39.36293 | 350.27144 | 25.08359 | 3.53863 | 0.1567729 | 0.28667026 | 2.2779680 | 21 | — | — |
| 279442 2010 $RR_{14}$ | 16.1 | X | 167.31465 | 139.34598 | 164.04012 | 12.24343 | 0.2019391 | 0.21419702 | 2.7664772 | 21 | — | — |
| 279443 2010 $RZ_{45}$ | 17.1 | X | 298.98089 | 194.52828 | 185.19986 | 5.03585 | 0.1537622 | 0.26287331 | 2.4134505 | 21 | 8 1.4 | 19.8 |
| 279444 2010 $RY_{46}$ | 16.0 | X | 308.47928 | 216.96196 | 195.74769 | 9.55518 | 0.0734723 | 0.17963000 | 3.1108815 | 21 | 10 5.8 | 19.9 |
| 279445 2010 $RE_{51}$ | 16.0 | X | 340.70859 | 215.89360 | 181.97898 | 9.94011 | 0.0979233 | 0.18349106 | 3.0670871 | 21 | 11 6.3 | 19.8 |
| 279446 2010 $RM_{59}$ | 17.2 | X | 42.59541 | 80.90652 | 213.49571 | 6.78216 | 0.1215350 | 0.26986558 | 2.3715796 | 21 | 10 9.2 | 20.0 |
| 279447 2010 $RA_{61}$ | 15.6 | X | 52.49036 | 286.58700 | 8.51883 | 10.39417 | 0.0766633 | 0.17714458 | 3.1399120 | 21 | 10 5.4 | 19.8 |
| 279448 2010 $RK_{65}$ | 16.9 | X | 341.67792 | 22.68453 | 331.57028 | 9.69992 | 0.1595343 | 0.26742169 | 2.3860066 | 21 | 9 17.3 | 18.9 |
| 279449 2010 $RW_{69}$ | 17.0 | X | 269.86380 | 303.23608 | 127.52342 | 3.47196 | 0.1432816 | 0.26344319 | 2.4099687 | 21 | 9 3.5 | 19.7 |
| 279450 2010 $RP_{70}$ | 17.5 | X | 60.77205 | 282.70510 | 137.95968 | 6.28195 | 0.2156413 | 0.29808153 | 2.2194532 | 21 | — | — |
| 279451 2010 $RC_{76}$ | 16.4 | X | 356.77575 | 245.09319 | 76.18294 | 3.53157 | 0.2075544 | 0.26703391 | 2.3883159 | 21 | 9 6.8 | 18.0 |
| 279452 2010 $RV_{77}$ | 16.5 | X | 159.93265 | 308.23019 | 23.47651 | 6.54354 | 0.1281658 | 0.21585215 | 2.7523170 | 21 | 1 5.3 | 20.8 |
| 279453 2010 $RX_{81}$ | 16.2 | X | 335.99845 | 260.70380 | 165.05872 | 4.23905 | 0.0788444 | 0.18974019 | 2.9993685 | 21 | 12 4.3 | 19.9 |
| 279454 2010 $RV_{88}$ | 15.7 | X | 324.69679 | 196.31593 | 181.24039 | 11.41364 | 0.0803320 | 0.17428586 | 3.1741536 | 21 | 9 12.5 | 19.9 |
| 279455 2010 $RF_{99}$ | 16.8 | X | 118.93279 | 188.35587 | 295.55799 | 3.33640 | 0.1571142 | 0.23834991 | 2.5762780 | 21 | 5 31.4 | 20.5 |
| 279456 2010 $RX_{105}$ | 16.4 | X | 293.41188 | 49.73430 | 3.46355 | 4.24293 | 0.1690637 | 0.17213537 | 3.2005355 | 21 | 9 2.2 | 20.6 |
| 279457 2010 $RR_{112}$ | 16.3 | X | 162.32989 | 105.70130 | 210.74652 | 13.67686 | 0.0981606 | 0.21260344 | 2.7802842 | 21 | — | — |
| 279458 2010 $RT_{114}$ | 15.7 | X | 291.85671 | 198.92590 | 214.16907 | 9.08481 | 0.0830747 | 0.17363029 | 3.1821383 | 21 | 9 8.2 | 20.1 |
| 279459 2010 $RJ_{115}$ | 16.3 | X | 336.62402 | 207.84821 | 310.10196 | 4.28528 | 0.1003004 | 0.21136961 | 2.7910932 | 21 | — | — |
| 279460 2010 $RA_{153}$ | 15.8 | X | 234.93847 | 304.52352 | 176.56063 | 10.19781 | 0.0717284 | 0.17730114 | 3.1380633 | 21 | 9 27.1 | 20.3 |
| 279461 2010 $RO_{156}$ | 15.8 | X | 24.22065 | 176.49365 | 162.59979 | 9.68798 | 0.0860264 | 0.18063400 | 3.0993435 | 21 | 10 27.2 | 19.9 |
| 279462 2010 $RJ_{179}$ | 17.3 | X | 13.89232 | 295.65124 | 48.48778 | 3.35328 | 0.1797106 | 0.27424670 | 2.3462544 | 21 | 11 15.1 | 19.4 |
| 279463 2010 $SA_{38}$ | 16.2 | X | 104.93169 | 210.96805 | 159.86389 | 9.82687 | 0.1588551 | 0.21079151 | 2.7961941 | 21 | — | — |
| 279464 2010 $TH_{160}$ | 16.2 | X | 172.57275 | 310.65171 | 32.91682 | 14.32171 | 0.0355829 | 0.21968581 | 2.7202034 | 21 | 1 28.0 | 20.3 |
| 279465 2010 $TU_{165}$ | 17.2 | X | 311.72058 | 301.43457 | 95.53748 | 7.87574 | 0.1192297 | 0.26846249 | 2.3798357 | 21 | 10 3.2 | 19.7 |
| 279466 2010 $UO_{6}$ | 15.9 | X | 124.99154 | 311.19040 | 144.95120 | 34.67301 | 0.2362879 | 0.21244774 | 2.7816425 | 21 | 5 22.0 | 21.1 |
| 279467 2010 $UJ_{72}$ | 17.7 | X | 207.75216 | 45.20570 | 288.60132 | 2.19273 | 0.1841718 | 0.31547085 | 2.1371248 | 21 | 2 9.4 | 20.9 |
| 279468 2010 $UR_{83}$ | 15.6 | X | 242.44750 | 53.58553 | 76.70632 | 10.16351 | 0.0992144 | 0.17349284 | 3.1838188 | 21 | 10 17.2 | 20.3 |
| 279469 2010 $UW_{86}$ | 15.4 | X | 119.60673 | 306.50899 | 338.75273 | 10.02039 | 0.0851340 | 0.18868707 | 3.0105184 | 21 | 12 10.8 | 20.2 |
| 279470 2010 $UJ_{95}$ | 16.1 | X | 154.97487 | 343.69194 | 58.48069 | 10.96610 | 0.2050576 | 0.22737402 | 2.6585336 | 21 | 4 4.3 | 20.5 |
| 279471 2010 $VC_{23}$ | 16.1 | X | 287.19681 | 313.46231 | 132.87170 | 1.64159 | 0.1230864 | 0.17666401 | 3.1456036 | 21 | 10 12.5 | 20.3 |
| 279472 2010 $VV_{26}$ | 16.2 | X | 303.42072 | 242.34488 | 66.70616 | 12.33170 | 0.0749476 | 0.23525381 | 2.5988324 | 21 | 5 13.9 | 19.5 |
| 279473 2010 $VJ_{30}$ | 17.1 | X | 291.23350 | 302.36850 | 111.04322 | 8.28057 | 0.0903581 | 0.26278231 | 2.4140076 | 21 | 9 23.9 | 19.9 |
| 279474 2010 $VX_{62}$ | 17.0 | X | 9.78968 | 128.48572 | 272.68519 | 5.82596 | 0.1122003 | 0.27487360 | 2.3426857 | 21 | — | — |
| 279475 2010 $VC_{70}$ | 17.2 | X | 314.85336 | 163.92695 | 236.91675 | 5.52302 | 0.1315345 | 0.26425175 | 2.4050501 | 21 | 10 5.9 | 19.5 |
| 279476 2010 $VP_{88}$ | 16.7 | X | 177.09460 | 106.13795 | 73.71786 | 7.92470 | 0.1096478 | 0.26560931 | 2.3968482 | 21 | 10 15.9 | 20.3 |
| 279477 2010 $VU_{94}$ | 16.4 | X | 343.58420 | 202.13176 | 57.35342 | 5.24308 | 0.1777643 | 0.23764615 | 2.5813617 | 21 | 4 23.2 | 19.0 |
| 279478 2010 $VE_{112}$ | 17.1 | X | 128.84104 | 55.21477 | 223.79066 | 6.29726 | 0.1143991 | 0.27775126 | 2.3264766 | 21 | 12 28.8 | 20.6 |
| 279479 2010 $VL_{194}$ | 15.7 | X | 135.78161 | 75.70602 | 306.55278 | 9.19621 | 0.0892820 | 0.19542924 | 2.9408735 | 21 | 2 6.6 | 19.9 |
| 279480 2010 $VL_{198}$ | 16.7 | X | 237.15672 | 145.93689 | 301.70714 | 8.06156 | 0.2102550 | 0.24035653 | 2.5619192 | 21 | 8 4.9 | 20.5 |
| 279481 2010 $WG_{10}$ | 15.4 | X | 91.26788 | 37.96754 | 248.95887 | 7.33811 | 0.1173083 | 0.17849476 | 3.1240579 | 21 | 11 15.5 | 20.0 |
| 279482 2010 $WJ_{14}$ | 16.9 | X | 108.60007 | 278.86116 | 127.80203 | 2.45997 | 0.0663339 | 0.21054627 | 2.7983650 | 21 | 1 29.9 | 20.6 |
| 279483 2010 $WW_{16}$ | 16.8 | X | 219.87665 | 57.95636 | 280.05824 | 4.07506 | 0.1072278 | 0.22309804 | 2.6923956 | 21 | 3 7.8 | 20.9 |
| 279484 2010 $WJ_{29}$ | 15.7 | X | 123.70660 | 106.37062 | 201.82210 | 9.08252 | 0.0794855 | 0.19155378 | 2.9804069 | 21 | — | — |
| 279485 2010 $XE_{4}$ | 15.4 | X | 199.89493 | 339.84019 | 274.96958 | 10.42506 | 0.1285793 | 0.18532740 | 3.0467931 | 21 | — | — |
| 279486 2010 $XM_{4}$ | 17.5 | X | 29.02680 | 253.45604 | 124.98062 | 4.67670 | 0.1532710 | 0.27839376 | 2.3228957 | 21 | — | — |
| 279487 2010 $XT_{38}$ | 13.1 | X | 303.37357 | 2.31928 | 83.78463 | 27.46445 | 0.0664445 | 0.08094145 | 5.2928395 | 21 | 11 6.4 | 20.1 |
| 279488 2010 $XN_{46}$ | 17.7 | X | 33.97343 | 246.11608 | 175.10816 | 4.93744 | 0.0882289 | 0.28832518 | 2.2692430 | 21 | — | — |
| 279489 2010 $XY_{49}$ | 16.8 | X | 153.33666 | 268.11950 | 165.49648 | 6.32597 | 0.0934496 | 0.22805842 | 2.6532121 | 21 | 4 30.5 | 20.7 |
| 279490 2010 $XG_{57}$ | 16.3 | X | 266.99172 | 203.94522 | 325.68224 | 11.02665 | 0.1892657 | 0.26371960 | 2.4082844 | 21 | — | — |
| 279491 2010 $YD_{2}$ | 15.9 | X | 61.32314 | 96.81754 | 36.23858 | 8.37875 | 0.0821536 | 0.20905752 | 2.8116344 | 21 | 3 22.1 | 19.4 |
| 279492 2011 $AX_{5}$ | 16.1 | X | 84.80782 | 248.55087 | 316.98236 | 12.56053 | 0.1276346 | 0.22876585 | 2.6477395 | 21 | 8 4.7 | 19.5 |
| 279493 2011 $AA_{11}$ | 17.3 | X | 184.33829 | 126.02127 | 94.46050 | 3.52399 | 0.1391637 | 0.26021412 | 2.4298650 | 21 | 12 7.7 | 20.9 |
| 279494 2011 $AE_{15}$ | 15.4 | X | 211.71869 | 149.09053 | 137.14681 | 15.09250 | 0.1762511 | 0.17308886 | 3.1887708 | 21 | 1 7.1 | 20.8 |
| 279495 2011 $AA_{16}$ | 17.2 | X | 186.32379 | 57.02765 | 49.49243 | 4.82235 | 0.2078188 | 0.23434264 | 2.6055646 | 21 | 7 15.7 | 21.6 |
| 279496 2011 $AE_{19}$ | 16.0 | X | 116.39508 | 336.57065 | 322.99039 | 9.15251 | 0.0383486 | 0.17653148 | 3.1471777 | 21 | 12 20.3 | 20.7 |
| 279497 2011 $AK_{23}$ | 15.8 | X | 35.45786 | 286.06363 | 130.66761 | 7.08738 | 0.0639011 | 0.18386772 | 3.0628970 | 21 | — | — |
| 279498 2011 $AY_{28}$ | 17.6 | X | 161.19204 | 272.31259 | 128.05924 | 5.80476 | 0.0784012 | 0.30626009 | 2.1797622 | 21 | 3 16.9 | 20.4 |
| 279499 2011 $AU_{36}$ | 16.2 | X | 17.04897 | 104.30119 | 312.06139 | 7.99367 | 0.0682800 | 0.17483792 | 3.1674684 | 21 | — | — |
| 279500 2011 $AS_{42}$ | 15.0 | X | 132.66355 | 103.71398 | 96.60024 | 10.99801 | 0.0110933 | 0.14956864 | 3.5148679 | 21 | 9 10.6 | 20.2 |
| 279501 2011 $AE_{43}$ | 17.4 | X | 121.45762 | 71.94308 | 312.63314 | 5.13261 | 0.0941142 | 0.29137055 | 2.2534034 | 21 | 1 4.3 | 19.9 |
| 279502 2011 $AQ_{46}$ | 17.6 | X | 289.05769 | 195.31145 | 297.21724 | 0.66243 | 0.1284142 | 0.26400880 | 2.4065254 | 21 | — | — |
| 279503 2011 $AW_{50}$ | 15.6 | X | 243.66552 | 71.23112 | 147.41334 | 8.00394 | 0.1165034 | 0.17780840 | 3.1320921 | 21 | — | — |
| 279504 2011 $AC_{52}$ | 15.1 | X | 121.74650 | 340.53727 | 120.31982 | 13.43656 | 0.0661362 | 0.20049502 | 2.8911258 | 21 | 5 1.8 | 19.5 |
| 279505 2011 $AD_{52}$ | 15.7 | X | 52.70124 | 127.14491 | 5.86636 | 11.64560 | 0.1768658 | 0.19314332 | 2.9640322 | 21 | 3 19.5 | 18.9 |
| 279506 2011 $AQ_{55}$ | 16.3 | X | 21.74905 | 252.08818 | 175.81648 | 5.30455 | 0.3520881 | 0.18902926 | 3.0068842 | 21 | — | — |
| 279507 2011 $AL_{57}$ | 16.7 | X | 116.23130 | 179.26553 | 122.64086 | 12.25397 | 0.2215020 | 0.26793755 | 2.3829430 | 21 | — | — |
| 279508 2011 $AO_{58}$ | 17.0 | X | 32.40049 | 65.03405 | 125.78660 | 4.25916 | 0.0312355 | 0.21452308 | 2.7636733 | 21 | 4 19.6 | 20.5 |
| 279509 2011 $AH_{61}$ | 16.7 | X | 289.67413 | 190.03664 | 59.98494 | 2.91231 | 0.0112631 | 0.20377105 | 2.8600551 | 21 | 2 20.9 | 20.6 |
| 279510 2011 $AZ_{70}$ | 15.3 | X | 291.04949 | 218.60047 | 305.25696 | 10.23426 | 0.0604976 | 0.18177709 | 3.0863366 | 21 | — | — |
| 279511 2011 $AQ_{72}$ | 13.3 | X | 359.64892 | 323.77440 | 105.82722 | 6.35434 | 0.0373682 | 0.08348534 | 5.1847667 | 21 | 12 16.3 | 20.0 |
| 279512 2011 $AK_{74}$ | 15.4 | X | 354.12992 | 310.62537 | 136.59677 | 15.99722 | 0.0653290 | 0.17844416 | 3.1246484 | 21 | — | — |
| 279513 2011 $AB_{77}$ | 15.6 | X | 203.47459 | 2.14950 | 285.33977 | 10.77684 | 0.1126854 | 0.19010414 | 2.9955392 | 21 | — | — |
| 279514 2011 $AO_{77}$ | 16.5 | X | 70.02953 | 44.83997 | 111.31675 | 18.07116 | 0.2413395 | 0.21073435 | 2.7966997 | 21 | 5 31.1 | 20.2 |
| 279515 2011 $BU_{3}$ | 15.8 | X | 223.15952 | 259.05771 | 305.62999 | 6.36593 | 0.0395772 | 0.17446026 | 3.1720379 | 21 | 12 26.1 | 20.3 |
| 279516 2011 $BB_{7}$ | 16.3 | X | 295.64076 | 163.34990 | 106.76944 | 3.32688 | 0.1022300 | 0.20950714 | 2.8076103 | 21 | 3 11.9 | 20.1 |
| 279517 2011 $BS_{9}$ | 15.4 | X | 77.65186 | 43.72781 | 307.09059 | 8.66280 | 0.0980679 | 0.17727481 | 3.1383740 | 21 | — | — |
| 279518 2011 $BD_{18}$ | 16.4 | X | 310.80283 | 5.19263 | 307.41071 | 5.02514 | 0.0396562 | 0.22452863 | 2.6809470 | 21 | 6 2.3 | 19.9 |
| 279519 2011 $BB_{22}$ | 17.1 | X | 227.52074 | 99.56588 | 267.26165 | 4.79500 | 0.0842063 | 0.22087052 | 2.7104676 | 21 | 4 22.4 | 21.2 |
| 279520 2011 $BZ_{24}$ | 17.4 | X | 97.83409 | 139.31584 | 298.25859 | 3.58023 | 0.1454826 | 0.30040140 | 2.2080119 | 21 | 2 17.3 | 19.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279521 2011 $BW_{26}$ | 16.8 | X | 305.49361 | 335.24602 | 131.59799 | 6.58976 | 0.1191669 | 0.26445774 | 2.4038011 | 21 | 12 28.7 | 19.2 |
| 279522 2011 $BG_{27}$ | 17.3 | X | 184.44229 | 127.07101 | 322.12460 | 3.61730 | 0.1452310 | 0.22910507 | 2.6451253 | 21 | 6 21.8 | 21.5 |
| 279523 2011 $BK_{27}$ | 16.1 | X | 243.73089 | 259.89136 | 303.36218 | 4.09810 | 0.1224088 | 0.17083932 | 3.2167019 | 21 | — | — |
| 279524 2011 $BZ_{27}$ | 17.3 | X | 263.20462 | 54.99524 | 142.42651 | 2.35861 | 0.1626901 | 0.26760408 | 2.3849223 | 21 | — | — |
| 279525 2011 $BM_{33}$ | 16.1 | X | 95.96060 | 275.22223 | 133.78111 | 9.98834 | 0.0467452 | 0.19282422 | 2.9673014 | 21 | 1 17.2 | 20.1 |
| 279526 2011 $BE_{51}$ | 16.6 | X | 231.69683 | 170.06796 | 78.44826 | 6.02640 | 0.1068052 | 0.27513337 | 2.3412109 | 21 | — | — |
| 279527 2011 $BJ_{51}$ | 17.1 | X | 259.35941 | 355.81870 | 173.64875 | 4.20618 | 0.1388722 | 0.26313086 | 2.4118753 | 21 | — | — |
| 279528 2011 $BE_{52}$ | 15.7 | X | 202.08219 | 191.35079 | 114.89007 | 10.40754 | 0.0474508 | 0.19274514 | 2.9681129 | 21 | 1 16.9 | 19.9 |
| 279529 2011 $BF_{52}$ | 15.7 | X | 296.92479 | 39.11620 | 90.83294 | 5.24529 | 0.0964078 | 0.17221546 | 3.1995430 | 21 | 12 21.2 | 19.9 |
| 279530 2011 $BM_{52}$ | 17.1 | X | 196.21752 | 73.29764 | 16.39289 | 6.15396 | 0.1986519 | 0.23294509 | 2.6159755 | 21 | 7 2.9 | 21.6 |
| 279531 2011 $BL_{53}$ | 15.9 | X | 292.53526 | 89.73191 | 42.82686 | 0.87824 | 0.1448005 | 0.17171440 | 3.2057642 | 21 | 12 12.5 | 19.7 |
| 279532 2011 $BG_{54}$ | 15.9 | X | 255.82200 | 197.50943 | 128.25823 | 6.07796 | 0.0680474 | 0.21215108 | 2.7842350 | 21 | 4 9.0 | 19.9 |
| 279533 2011 $BA_{58}$ | 16.3 | X | 316.12119 | 179.90501 | 115.73169 | 4.56993 | 0.1753720 | 0.21782345 | 2.7356863 | 21 | 4 30.5 | 19.6 |
| 279534 2011 $BT_{58}$ | 17.2 | X | 356.33239 | 295.94159 | 330.82946 | 2.78562 | 0.0485570 | 0.22165359 | 2.7040800 | 21 | 6 6.2 | 20.5 |
| 279535 2011 $BQ_{60}$ | 17.3 | X | 297.20948 | 67.92285 | 27.09363 | 4.34296 | 0.1750588 | 0.26045279 | 2.4283804 | 21 | 11 18.2 | 19.5 |
| 279536 2011 $CV$ | 16.5 | X | 352.42937 | 52.52227 | 13.91916 | 6.63923 | 0.0895284 | 0.26417594 | 2.4055102 | 21 | — | — |
| 279537 2011 $CP_{6}$ | 17.6 | X | 31.89604 | 253.72030 | 303.85752 | 6.36381 | 0.0681023 | 0.30550661 | 2.1833447 | 21 | 4 12.2 | 19.8 |
| 279538 2011 $CE_{7}$ | 16.5 | X | 329.87110 | 306.87232 | 154.98885 | 22.56504 | 0.2281207 | 0.27039932 | 2.3684578 | 21 | — | — |
| 279539 2011 $CM_{10}$ | 15.6 | X | 38.21794 | 319.66349 | 115.83223 | 9.42072 | 0.0757028 | 0.18529806 | 3.0471147 | 21 | — | — |
| 279540 2011 $CJ_{16}$ | 15.8 | X | 79.59232 | 108.38683 | 307.59689 | 8.30066 | 0.0561307 | 0.18964080 | 3.0004164 | 21 | 1 7.5 | 19.7 |
| 279541 2011 $CZ_{17}$ | 17.2 | X | 297.33321 | 109.53051 | 357.27374 | 2.23642 | 0.1619251 | 0.26175318 | 2.4203309 | 21 | 12 8.7 | 19.4 |
| 279542 2011 $CR_{18}$ | 15.3 | X | 328.29244 | 333.39804 | 143.76321 | 11.24173 | 0.1840579 | 0.17658700 | 3.1465181 | 21 | — | — |
| 279543 2011 $CZ_{22}$ | 16.8 | X | 265.37703 | 147.91683 | 192.24495 | 4.89537 | 0.0589630 | 0.21780096 | 2.7358746 | 21 | 5 7.9 | 20.5 |
| 279544 2011 $CV_{23}$ | 15.7 | X | 200.66423 | 221.20606 | 138.03365 | 12.74200 | 0.0210418 | 0.20611640 | 2.8383177 | 21 | 3 21.8 | 19.8 |
| 279545 2011 $CU_{29}$ | 16.8 | X | 220.50922 | 326.39134 | 275.44093 | 3.47823 | 0.0667275 | 0.27268471 | 2.3552058 | 21 | — | — |
| 279546 2011 $CA_{34}$ | 16.7 | X | 293.61117 | 321.62466 | 323.63400 | 3.47956 | 0.0303258 | 0.21277748 | 2.7787679 | 21 | 4 4.6 | 20.6 |
| 279547 2011 $CL_{34}$ | 16.4 | X | 4.17638 | 64.33489 | 28.71320 | 4.69742 | 0.1031948 | 0.18051715 | 3.1006808 | 21 | — | — |
| 279548 2011 $CU_{34}$ | 17.2 | X | 314.98753 | 177.90326 | 319.08230 | 4.97826 | 0.1025817 | 0.27057211 | 2.3674494 | 21 | — | — |
| 279549 2011 $CP_{39}$ | 15.4 | X | 138.57641 | 211.09310 | 115.10429 | 10.75085 | 0.0711566 | 0.18038247 | 3.1022240 | 21 | — | — |
| 279550 2011 $CE_{42}$ | 16.5 | X | 26.32285 | 296.18257 | 181.34881 | 10.85985 | 0.2560549 | 0.19209354 | 2.9748213 | 21 | 1 1.5 | 19.4 |
| 279551 2011 $CK_{42}$ | 17.5 | X | 296.62474 | 344.54511 | 231.20201 | 2.86191 | 0.2052353 | 0.28051460 | 2.3111727 | 21 | — | — |
| 279552 2011 $CD_{44}$ | 17.8 | X | 128.80309 | 71.48282 | 30.15314 | 3.88392 | 0.0862457 | 0.30950982 | 2.1644776 | 21 | 4 28.9 | 20.2 |
| 279553 2011 $CF_{47}$ | 15.0 | X | 305.31918 | 170.53504 | 332.64246 | 26.86034 | 0.0682334 | 0.17825954 | 3.1268054 | 21 | — | — |
| 279554 2011 $CX_{57}$ | 17.1 | X | 93.52191 | 95.96408 | 321.65800 | 10.87850 | 0.2589509 | 0.19923074 | 2.9033439 | 21 | 2 22.0 | 20.9 |
| 279555 2011 $CT_{66}$ | 17.2 | X | 66.92484 | 336.90880 | 217.51711 | 1.71385 | 0.1211243 | 0.22026867 | 2.7154026 | 21 | 6 23.6 | 20.7 |
| 279556 2011 $CU_{68}$ | 15.7 | X | 261.24429 | 289.98472 | 61.25094 | 12.71927 | 0.0878983 | 0.21007458 | 2.8025523 | 21 | 5 14.0 | 19.7 |
| 279557 2011 $CZ_{68}$ | 16.7 | X | 240.37415 | 205.51572 | 6.39438 | 7.14427 | 0.0735648 | 0.26900108 | 2.3766580 | 21 | — | — |
| 279558 2011 $CV_{72}$ | 15.8 | X | 117.21353 | 278.23494 | 293.13017 | 13.08458 | 0.1215229 | 0.23329551 | 2.6133553 | 21 | 9 10.9 | 20.0 |
| 279559 2011 $CV_{74}$ | 17.4 | X | 324.74015 | 137.88989 | 357.29938 | 4.35322 | 0.1680979 | 0.27283633 | 2.3543332 | 21 | — | — |
| 279560 2011 $CF_{77}$ | 17.2 | X | 251.57536 | 212.35658 | 327.12808 | 4.14156 | 0.1347389 | 0.26263044 | 2.4149381 | 21 | — | — |
| 279561 2011 $CF_{78}$ | 15.6 | X | 233.19733 | 86.62765 | 177.31180 | 9.35984 | 0.0371057 | 0.17776726 | 3.1325754 | 21 | 1 2.9 | 20.4 |
| 279562 2011 $CH_{78}$ | 16.8 | X | 319.91133 | 73.60484 | 234.35329 | 1.48415 | 0.0661193 | 0.22071746 | 2.7117205 | 21 | 6 6.7 | 20.0 |
| 279563 2011 $DF_{1}$ | 16.4 | X | 286.38811 | 13.46161 | 285.10951 | 2.87093 | 0.0778005 | 0.21038433 | 2.7998007 | 21 | 4 5.8 | 20.4 |
| 279564 2011 $DO_{1}$ | 16.5 | X | 275.08535 | 35.89105 | 334.11145 | 5.78368 | 0.0679188 | 0.22347591 | 2.6893598 | 21 | 6 27.8 | 20.1 |
| 279565 2011 $DT_{1}$ | 14.9 | X | 160.62538 | 294.02203 | 161.64609 | 14.72765 | 0.2076243 | 0.12653757 | 3.9293712 | 21 | 6 12.9 | 21.5 |
| 279566 2011 $DF_{3}$ | 17.3 | X | 258.68728 | 156.52527 | 344.95853 | 6.06560 | 0.0482103 | 0.25569005 | 2.4584431 | 21 | 12 6.0 | 20.4 |
| 279567 2011 $DP_{4}$ | 15.3 | X | 345.86252 | 135.89979 | 342.85599 | 22.04039 | 0.0193326 | 0.17657601 | 3.1466487 | 21 | — | — |
| 279568 2011 $DG_{8}$ | 16.2 | X | 321.05402 | 65.40572 | 72.98695 | 2.07258 | 0.1254753 | 0.17219736 | 3.1997672 | 21 | — | — |
| 279569 2011 $DJ_{8}$ | 16.7 | X | 141.99830 | 337.92877 | 151.47159 | 5.84019 | 0.1110702 | 0.21800231 | 2.7341898 | 21 | 6 29.0 | 20.8 |
| 279570 2011 $DN_{8}$ | 16.5 | X | 198.24098 | 52.72384 | 8.22333 | 5.37890 | 0.0661132 | 0.21393773 | 2.7687121 | 21 | 5 31.1 | 20.6 |
| 279571 2011 $DN_{10}$ | 17.0 | X | 288.99764 | 150.31509 | 113.56656 | 6.62398 | 0.1794247 | 0.28456809 | 2.2891729 | 21 | 2 1.9 | 20.3 |
| 279572 2011 $DU_{12}$ | 15.9 | X | 335.55777 | 357.31669 | 155.29622 | 5.90867 | 0.1025874 | 0.17925322 | 3.1152392 | 21 | — | — |
| 279573 2011 $DZ_{12}$ | 16.3 | X | 123.73837 | 281.57220 | 307.44539 | 8.56198 | 0.0832152 | 0.24020527 | 2.5629946 | 21 | 10 10.8 | 20.3 |
| 279574 2011 $DH_{14}$ | 16.9 | X | 268.62026 | 10.04604 | 319.29988 | 5.52047 | 0.0534171 | 0.21440494 | 2.7646884 | 21 | 4 25.4 | 20.9 |
| 279575 2011 $DN_{15}$ | 18.1 | X | 258.88275 | 16.06014 | 258.33225 | 1.77674 | 0.1263115 | 0.28861027 | 2.2677484 | 21 | 1 18.4 | 21.3 |
| 279576 2011 $DZ_{17}$ | 16.6 | X | 343.38162 | 122.45984 | 34.89245 | 2.08921 | 0.1023486 | 0.18232740 | 3.0801233 | 21 | — | — |
| 279577 2011 $DY_{22}$ | 16.3 | X | 176.22950 | 339.13372 | 17.28004 | 6.96072 | 0.2794556 | 0.28394443 | 2.2925236 | 21 | 2 22.4 | 20.2 |
| 279578 2011 $DF_{23}$ | 17.5 | X | 274.72712 | 200.90007 | 63.15198 | 2.75971 | 0.1142395 | 0.28292795 | 2.2980112 | 21 | 1 24.8 | 20.8 |
| 279579 2011 $DG_{23}$ | 16.7 | X | 143.80071 | 224.13985 | 351.35459 | 5.44488 | 0.0874526 | 0.23807045 | 2.5782937 | 21 | 10 18.2 | 20.6 |
| 279580 2011 $DJ_{23}$ | 16.6 | X | 124.46977 | 326.24741 | 166.10481 | 4.02238 | 0.0659629 | 0.21353027 | 2.7722332 | 21 | 6 8.8 | 20.5 |
| 279581 2011 $DR_{23}$ | 16.6 | X | 146.59227 | 38.58466 | 83.39656 | 5.42776 | 0.0222012 | 0.21464565 | 2.7626211 | 21 | 6 17.6 | 20.3 |
| 279582 2011 $DP_{28}$ | 17.4 | X | 32.75561 | 242.92303 | 151.95474 | 3.14779 | 0.1959379 | 0.26955388 | 2.3734076 | 21 | — | — |
| 279583 2011 $DE_{42}$ | 17.4 | X | 180.33649 | 100.38552 | 355.30672 | 4.14215 | 0.1130980 | 0.22232192 | 2.6986581 | 21 | 6 26.2 | 21.5 |
| 279584 2011 $DY_{46}$ | 16.6 | X | 118.27702 | 184.38283 | 356.85904 | 5.96420 | 0.0611835 | 0.22622902 | 2.6674964 | 21 | 8 6.2 | 20.3 |
| 279585 2011 $DX_{49}$ | 15.4 | X | 333.26792 | 107.94892 | 351.20327 | 17.72564 | 0.1169551 | 0.17092536 | 3.2156224 | 21 | — | — |
| 279586 2011 $EE$ | 16.2 | X | 157.90063 | 333.42697 | 140.88662 | 6.02987 | 0.0190894 | 0.21608164 | 2.7503680 | 21 | 6 21.9 | 20.1 |
| 279587 2011 $EJ_{3}$ | 15.8 | X | 299.17344 | 182.62530 | 341.53726 | 8.36851 | 0.0189575 | 0.17155322 | 3.2077718 | 21 | — | — |
| 279588 2011 $ER_{3}$ | 16.2 | X | 51.87361 | 59.87717 | 358.52034 | 5.61299 | 0.0799747 | 0.17520183 | 3.1630808 | 21 | — | — |
| 279589 2011 $EB_{6}$ | 17.1 | X | 358.80959 | 47.14683 | 123.00215 | 3.57748 | 0.1018112 | 0.28268085 | 2.2993502 | 21 | 1 9.5 | 19.4 |
| 279590 2011 $EO_{6}$ | 17.5 | X | 159.19433 | 247.52695 | 277.79735 | 2.22147 | 0.0977361 | 0.23541474 | 2.5976479 | 21 | 9 1.2 | 21.5 |
| 279591 2011 $EY_{6}$ | 17.8 | X | 300.82483 | 331.33933 | 263.58986 | 3.17725 | 0.1153482 | 0.28845414 | 2.2685666 | 21 | 1 14.3 | 20.8 |
| 279592 2011 $EB_{8}$ | 17.6 | X | 2.10409 | 212.41119 | 32.22603 | 5.16986 | 0.1461621 | 0.29724976 | 2.2235917 | 21 | 5 1.9 | 19.2 |
| 279593 2011 $EL_{8}$ | 17.3 | X | 110.56964 | 192.94306 | 34.14405 | 2.41196 | 0.1310317 | 0.23733881 | 2.5835897 | 21 | 10 2.7 | 21.2 |
| 279594 2011 $ET_{9}$ | 16.8 | X | 209.95186 | 60.39168 | 184.00749 | 6.21964 | 0.0849191 | 0.26231164 | 2.4168944 | 21 | — | — |
| 279595 2011 $EU_{9}$ | 18.0 | X | 167.17067 | 275.47935 | 201.94079 | 2.08756 | 0.1919589 | 0.22403620 | 2.6848740 | 21 | 7 11.7 | 22.5 |
| 279596 2011 $EW_{9}$ | 16.0 | X | 202.99850 | 114.38143 | 182.58687 | 9.83306 | 0.0407997 | 0.17940420 | 3.1134912 | 21 | 1 8.1 | 20.7 |
| 279597 2011 $EE_{12}$ | 14.9 | X | 245.40502 | 150.17287 | 98.78718 | 12.33895 | 0.1537348 | 0.17159670 | 3.2072300 | 21 | — | — |
| 279598 2011 $EL_{12}$ | 18.1 | X | 214.06747 | 43.13275 | 191.26920 | 0.84247 | 0.1498766 | 0.26133795 | 2.4228939 | 21 | — | — |
| 279599 2011 $ER_{13}$ | 16.7 | X | 126.01185 | 79.44542 | 86.07895 | 13.57753 | 0.2069559 | 0.22328179 | 2.6909183 | 21 | 8 8.6 | 21.2 |
| 279600 2011 $EA_{14}$ | 16.2 | X | 118.86258 | 352.71350 | 78.10544 | 3.63833 | 0.0931131 | 0.19420874 | 2.9531820 | 21 | 3 21.8 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279601 2011 $ET_{16}$ | 16.4 | X | 102.29821 | 344.49969 | 150.03295 | 7.23870 | 0.0687192 | 0.21228563 | 2.7830583 | 21 | 5 16.9 | 20.3 |
| 279602 2011 $EX_{17}$ | 15.4 | X | 253.91790 | 239.01490 | 359.14504 | 26.47497 | 0.2244288 | 0.17292486 | 3.1907866 | 21 | — | — |
| 279603 2011 $EU_{19}$ | 16.9 | X | 309.44920 | 88.52980 | 155.74267 | 5.44328 | 0.1318239 | 0.28671545 | 2.2777287 | 21 | 2 4.1 | 19.9 |
| 279604 2011 $EQ_{21}$ | 16.4 | X | 115.10910 | 130.65384 | 149.00456 | 7.48629 | 0.1762588 | 0.24002977 | 2.5642438 | 21 | 12 13.7 | 20.6 |
| 279605 2011 $EF_{24}$ | 17.0 | X | 167.66491 | 130.60774 | 25.68641 | 6.44062 | 0.1866887 | 0.23228779 | 2.6209081 | 21 | 9 1.9 | 21.4 |
| 279606 2011 $ER_{24}$ | 15.9 | X | 212.38453 | 129.11762 | 140.59330 | 4.81754 | 0.0627576 | 0.17277176 | 3.1926713 | 21 | — | — |
| 279607 2011 $EX_{24}$ | 15.6 | X | 72.48570 | 280.01915 | 157.80007 | 9.22672 | 0.0581555 | 0.18368873 | 3.0648863 | 21 | 1 24.6 | 19.8 |
| 279608 2011 $EY_{24}$ | 15.9 | X | 351.52619 | 111.06189 | 23.14833 | 10.03247 | 0.1172217 | 0.17820986 | 3.1273866 | 21 | — | — |
| 279609 2011 $EA_{25}$ | 16.2 | X | 242.10388 | 75.13180 | 15.47388 | 14.10774 | 0.0845086 | 0.23316125 | 2.6143584 | 21 | 9 5.1 | 19.9 |
| 279610 2011 $EH_{25}$ | 16.2 | X | 97.34543 | 350.37621 | 170.97649 | 14.00068 | 0.1144944 | 0.21240020 | 2.7820575 | 21 | 6 20.1 | 20.4 |
| 279611 2011 $EQ_{25}$ | 17.3 | X | 319.78991 | 100.53065 | 47.63783 | 5.54645 | 0.1333662 | 0.26837693 | 2.3803414 | 21 | — | — |
| 279612 2011 $EV_{25}$ | 17.0 | X | 15.92773 | 119.22506 | 355.16151 | 2.48808 | 0.1203666 | 0.27742179 | 2.3283182 | 21 | — | — |
| 279613 2011 $ER_{26}$ | 17.5 | X | 311.19387 | 112.41192 | 100.13879 | 1.72813 | 0.0975548 | 0.28238493 | 2.3009563 | 21 | 1 1.5 | 20.4 |
| 279614 2011 $EK_{30}$ | 17.5 | X | 10.99741 | 180.92201 | 58.80810 | 7.19670 | 0.2053841 | 0.30079516 | 2.2060845 | 21 | 5 13.3 | 18.5 |
| 279615 2011 $EV_{36}$ | 15.7 | X | 238.93299 | 236.85742 | 2.04815 | 5.40640 | 0.1372294 | 0.17123622 | 3.2117295 | 21 | — | — |
| 279616 2011 $ED_{37}$ | 18.4 | X | 64.79880 | 177.21675 | 23.66371 | 2.85329 | 0.0208923 | 0.30959168 | 2.1640960 | 21 | 6 11.1 | 20.7 |
| 279617 2011 $EP_{37}$ | 16.0 | X | 254.30887 | 160.37152 | 135.12925 | 7.70437 | 0.1334177 | 0.18887507 | 3.0085203 | 21 | 2 24.2 | 20.7 |
| 279618 2011 $EH_{38}$ | 16.6 | X | 342.83219 | 161.75857 | 32.32741 | 9.88647 | 0.0467605 | 0.18914390 | 3.0056690 | 21 | 2 20.1 | 20.8 |
| 279619 2011 $ED_{39}$ | 17.7 | X | 224.70170 | 167.81350 | 91.75288 | 2.50216 | 0.1594740 | 0.26564455 | 2.3966362 | 21 | — | — |
| 279620 2011 $EH_{39}$ | 16.0 | X | 182.30572 | 130.74637 | 176.38841 | 11.39257 | 0.0658098 | 0.17239289 | 3.1973473 | 21 | — | — |
| 279621 2011 $EW_{41}$ | 16.7 | X | 297.38770 | 73.20978 | 81.77969 | 7.37930 | 0.1063076 | 0.26488258 | 2.4012302 | 21 | — | — |
| 279622 2011 $EX_{42}$ | 16.8 | X | 194.33279 | 356.82744 | 132.62144 | 4.37383 | 0.1597040 | 0.23200253 | 2.6230561 | 21 | 8 21.8 | 21.0 |
| 279623 2011 $EF_{44}$ | 15.5 | X | 322.68787 | 267.81932 | 290.36491 | 8.00295 | 0.0725323 | 0.19040253 | 2.9924086 | 21 | 1 21.2 | 19.6 |
| 279624 2011 $EH_{45}$ | 17.7 | X | 45.80815 | 70.08583 | 61.29290 | 4.55492 | 0.1165919 | 0.28902229 | 2.2655926 | 21 | 2 4.5 | 19.7 |
| 279625 2011 $EQ_{45}$ | 16.5 | X | 328.18596 | 200.78989 | 72.62252 | 3.18313 | 0.0141425 | 0.20699208 | 2.8303071 | 21 | 5 9.9 | 20.2 |
| 279626 2011 $ET_{45}$ | 15.8 | X | 24.54935 | 280.47299 | 166.12186 | 11.55736 | 0.1695262 | 0.17766161 | 3.1338172 | 21 | — | — |
| 279627 2011 $EA_{46}$ | 17.2 | X | 208.84030 | 152.02133 | 86.93442 | 3.75273 | 0.1325043 | 0.25877668 | 2.4388549 | 21 | — | — |
| 279628 2011 $EN_{50}$ | 15.3 | X | 57.17137 | 334.64406 | 85.02749 | 10.36847 | 0.0500911 | 0.17850951 | 3.1238858 | 21 | — | — |
| 279629 2011 $EG_{51}$ | 16.0 | X | 150.71213 | 47.92666 | 86.19859 | 13.35782 | 0.0531799 | 0.21610348 | 2.7501826 | 21 | 7 11.5 | 20.0 |
| 279630 2011 $EF_{53}$ | 15.8 | X | 10.56266 | 85.24828 | 74.83983 | 7.56294 | 0.1413063 | 0.18735645 | 3.0247556 | 21 | 2 8.4 | 19.3 |
| 279631 2011 $EG_{53}$ | 16.2 | X | 133.35592 | 244.88962 | 90.16989 | 6.80205 | 0.1577183 | 0.26100984 | 2.4249240 | 21 | — | — |
| 279632 2011 $ES_{66}$ | 17.3 | X | 190.81200 | 277.59179 | 6.69651 | 4.81252 | 0.2133682 | 0.26415995 | 2.4056073 | 21 | — | — |
| 279633 2011 $EL_{68}$ | 17.0 | X | 310.32100 | 256.40734 | 160.77570 | 3.86001 | 0.0465680 | 0.24254335 | 2.5464968 | 21 | 10 27.8 | 20.0 |
| 279634 2011 $EO_{68}$ | 17.3 | X | 156.49912 | 78.59744 | 157.18757 | 3.06509 | 0.0304021 | 0.24722002 | 2.5142799 | 21 | 12 1.2 | 20.8 |
| 279635 2011 $EN_{69}$ | 17.2 | X | 23.90774 | 352.85681 | 135.96476 | 7.27677 | 0.0439885 | 0.27983111 | 2.3149346 | 21 | — | — |
| 279636 2011 $EM_{70}$ | 15.9 | X | 265.19007 | 336.54763 | 25.62940 | 6.64669 | 0.0498763 | 0.21228669 | 2.7830491 | 21 | 6 5.6 | 19.7 |
| 279637 2011 $EX_{70}$ | 17.2 | X | 276.82643 | 2.71502 | 173.19747 | 4.59762 | 0.0881053 | 0.26529626 | 2.3987333 | 21 | — | — |
| 279638 2011 $EM_{71}$ | 16.5 | X | 74.22995 | 151.55515 | 124.42746 | 5.26415 | 0.1854224 | 0.22769781 | 2.6560127 | 21 | 11 1.2 | 20.4 |
| 279639 2011 $EW_{72}$ | 17.6 | X | 226.76678 | 20.55215 | 205.12906 | 5.51389 | 0.0924456 | 0.26101531 | 2.4248901 | 21 | — | — |
| 279640 2011 $EC_{73}$ | 17.0 | X | 334.24005 | 240.67403 | 225.93586 | 5.78557 | 0.0866560 | 0.26520906 | 2.3992591 | 21 | — | — |
| 279641 2011 $EG_{73}$ | 16.2 | X | 147.53103 | 311.22319 | 90.92507 | 3.41246 | 0.0689962 | 0.19280529 | 2.9674956 | 21 | 3 16.6 | 20.6 |
| 279642 2011 $ES_{73}$ | 17.4 | X | 199.43402 | 91.33086 | 154.68241 | 5.94059 | 0.1599740 | 0.25489083 | 2.4635794 | 21 | — | — |
| 279643 2011 $EH_{74}$ | 16.8 | X | 212.55750 | 182.36850 | 315.91518 | 3.22350 | 0.1145535 | 0.23633910 | 2.5908703 | 21 | 9 22.3 | 20.7 |
| 279644 2011 $EM_{74}$ | 16.4 | X | 45.60940 | 316.54255 | 268.96804 | 3.34224 | 0.1070225 | 0.21061308 | 2.7977731 | 21 | 7 1.8 | 19.8 |
| 279645 2011 $EF_{75}$ | 16.0 | X | 281.26972 | 27.28747 | 188.00056 | 25.66787 | 0.1824569 | 0.17735674 | 3.1374074 | 21 | — | — |
| 279646 2011 $ER_{75}$ | 16.1 | X | 79.93023 | 352.91202 | 203.70871 | 4.59282 | 0.0995387 | 0.21472252 | 2.7619617 | 21 | 7 10.9 | 19.9 |
| 279647 2011 $ET_{75}$ | 15.6 | X | 348.75173 | 142.83822 | 29.71987 | 17.68001 | 0.1424956 | 0.18490807 | 3.0513977 | 21 | 1 23.3 | 19.8 |
| 279648 2011 $FR$ | 16.2 | X | 100.60803 | 181.36014 | 38.67025 | 11.93829 | 0.1341790 | 0.22618012 | 2.6678809 | 21 | 9 17.5 | 20.3 |
| 279649 2011 $FS_{1}$ | 15.8 | X | 355.13468 | 331.32579 | 155.53070 | 4.52650 | 0.0579642 | 0.17665939 | 3.1456585 | 21 | — | — |
| 279650 2011 $FT_{1}$ | 16.7 | X | 138.83885 | 34.15969 | 172.15524 | 12.11399 | 0.1084712 | 0.23324881 | 2.6137041 | 21 | 10 4.8 | 20.6 |
| 279651 2011 $FB_{4}$ | 16.2 | X | 311.50154 | 64.36905 | 153.72274 | 9.55638 | 0.1914596 | 0.18489138 | 3.0515813 | 21 | 1 15.6 | 20.7 |
| 279652 2011 $FJ_{4}$ | 17.3 | X | 345.79465 | 105.12954 | 156.54102 | 2.85973 | 0.1629755 | 0.29790822 | 2.2203140 | 21 | 4 24.3 | 19.1 |
| 279653 2011 $FP_{4}$ | 17.6 | X | 340.95560 | 91.20134 | 53.22258 | 5.75912 | 0.1639930 | 0.27544002 | 2.3394729 | 21 | — | — |
| 279654 2011 $FU_{5}$ | 17.0 | X | 276.19093 | 115.03525 | 88.56977 | 5.68443 | 0.1771916 | 0.26655132 | 2.3911977 | 21 | — | — |
| 279655 2011 $FB_{7}$ | 16.9 | X | 77.80015 | 159.21210 | 24.47862 | 3.07882 | 0.1411428 | 0.21243377 | 2.7817644 | 21 | 6 28.1 | 20.5 |
| 279656 2011 $FT_{7}$ | 15.1 | X | 245.29365 | 222.78202 | 21.50114 | 27.73516 | 0.1889058 | 0.17203843 | 3.2017376 | 21 | — | — |
| 279657 2011 $FP_{9}$ | 16.0 | X | 307.04766 | 83.60028 | 138.32147 | 9.42230 | 0.0779671 | 0.18707812 | 3.0277549 | 21 | 1 30.7 | 20.2 |
| 279658 2011 $FC_{10}$ | 17.2 | X | 229.95368 | 92.27252 | 136.85469 | 6.96379 | 0.1033928 | 0.26178429 | 2.4201391 | 21 | — | — |
| 279659 2011 $FS_{10}$ | 17.2 | X | 359.72371 | 199.17043 | 32.74007 | 3.58207 | 0.1007891 | 0.29875914 | 2.2160961 | 21 | 4 10.8 | 19.1 |
| 279660 2011 $FX_{10}$ | 16.5 | X | 47.00993 | 80.83672 | 151.35661 | 5.72819 | 0.0988721 | 0.21442278 | 2.7645350 | 21 | 7 11.9 | 20.0 |
| 279661 2011 $FA_{11}$ | 17.6 | X | 226.75258 | 65.18892 | 145.14108 | 2.90484 | 0.1647017 | 0.25788445 | 2.4444769 | 21 | — | — |
| 279662 2011 $FB_{11}$ | 16.7 | X | 301.33803 | 74.04305 | 337.77647 | 2.68436 | 0.0213398 | 0.23698783 | 2.5861399 | 21 | 10 6.5 | 19.9 |
| 279663 2011 $FK_{11}$ | 16.7 | X | 64.06044 | 346.39980 | 212.53451 | 4.38688 | 0.0955123 | 0.21171008 | 2.7881001 | 21 | 6 21.7 | 20.3 |
| 279664 2011 $FO_{11}$ | 16.4 | X | 29.96413 | 91.41564 | 78.18634 | 4.31086 | 0.0876062 | 0.19267167 | 2.9688674 | 21 | 3 24.3 | 20.1 |
| 279665 2011 $FC_{12}$ | 16.0 | X | 288.05230 | 120.22188 | 147.63058 | 0.92066 | 0.1332309 | 0.18446975 | 3.0562293 | 21 | 2 26.1 | 20.3 |
| 279666 2011 $FV_{17}$ | 16.0 | X | 305.41535 | 143.44750 | 119.18782 | 6.29466 | 0.2242287 | 0.19171216 | 2.9787653 | 21 | 2 28.1 | 20.2 |
| 279667 2011 $FD_{18}$ | 17.6 | X | 153.02759 | 258.71163 | 341.72050 | 2.81165 | 0.1223412 | 0.24273148 | 2.5451808 | 21 | 11 29.2 | 21.6 |
| 279668 2011 $FP_{18}$ | 17.1 | X | 98.36693 | 7.64832 | 326.41194 | 1.03751 | 0.1019213 | 0.25330752 | 2.4738346 | 21 | — | — |
| 279669 2011 $FJ_{22}$ | 17.3 | X | 162.11836 | 84.56024 | 41.01175 | 5.40806 | 0.2174999 | 0.22331792 | 2.6906281 | 21 | 7 19.6 | 21.9 |
| 279670 2011 $FK_{23}$ | 17.4 | X | 280.36238 | 81.43600 | 153.17004 | 7.14638 | 0.0758920 | 0.27462560 | 2.3440959 | 21 | — | — |
| 279671 2011 $FZ_{23}$ | 17.7 | X | 271.90956 | 187.71782 | 10.94001 | 1.61518 | 0.1315836 | 0.26700817 | 2.3884694 | 21 | — | — |
| 279672 2011 $FE_{28}$ | 14.9 | X | 298.42016 | 184.85452 | 17.51038 | 14.24303 | 0.1311925 | 0.17553290 | 3.1591024 | 21 | — | — |
| 279673 2011 $FA_{29}$ | 16.3 | X | 90.88584 | 237.44898 | 25.28941 | 17.38582 | 0.1812613 | 0.23141771 | 2.6274734 | 21 | 10 28.6 | 20.4 |
| 279674 2011 $FU_{29}$ | 15.6 | X | 235.80333 | 142.34152 | 117.77758 | 3.30938 | 0.0762538 | 0.17239751 | 3.1972902 | 21 | 1 1.3 | 20.4 |
| 279675 2011 $FM_{30}$ | 16.1 | X | 329.91261 | 340.19750 | 161.62906 | 7.48150 | 0.0204534 | 0.16799384 | 3.2529233 | 21 | — | — |
| 279676 2011 $FE_{31}$ | 16.1 | X | 287.90838 | 273.18658 | 29.85808 | 9.07496 | 0.2504486 | 0.19204263 | 2.9753470 | 21 | 3 27.1 | 20.5 |
| 279677 2011 $FT_{31}$ | 16.0 | X | 103.41281 | 129.13630 | 33.93859 | 8.33493 | 0.0652742 | 0.20974513 | 2.8054861 | 21 | 6 22.3 | 20.0 |
| 279678 2011 $FP_{32}$ | 16.3 | X | 224.51799 | 262.80416 | 140.77519 | 4.39616 | 0.0987184 | 0.21198164 | 2.7857185 | 21 | 6 7.0 | 20.4 |
| 279679 2011 $FQ_{32}$ | 16.2 | X | 23.45552 | 16.23451 | 105.54208 | 4.10377 | 0.0578956 | 0.17929594 | 3.1147444 | 21 | 1 13.8 | 20.3 |
| 279680 2011 $FR_{32}$ | 17.1 | X | 222.50059 | 85.44602 | 81.89759 | 3.63004 | 0.0421074 | 0.24404735 | 2.5360237 | 21 | 11 22.2 | 20.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279681 2011 $FV_{32}$ | 17.8 | X | 36.15843 | 85.19572 | 127.31492 | 3.71292 | 0.0510775 | 0.29856174 | 2.2170728 | 21 | 5 18.8 | 20.0 |
| 279682 2011 $FY_{32}$ | 17.4 | X | 319.41310 | 131.53988 | 51.11079 | 6.99113 | 0.0408586 | 0.27361085 | 2.3498881 | 21 | — | — |
| 279683 2011 $FM_{33}$ | 17.4 | X | 241.29719 | 81.36573 | 121.79780 | 3.40701 | 0.1147874 | 0.25734961 | 2.4478626 | 21 | — | — |
| 279684 2011 $FO_{34}$ | 16.7 | X | 102.01874 | 26.60195 | 163.52813 | 6.30704 | 0.0381827 | 0.22025175 | 2.7155416 | 21 | 7 22.2 | 20.5 |
| 279685 2011 $FZ_{34}$ | 16.2 | X | 270.00407 | 107.94301 | 167.52009 | 10.25346 | 0.1999481 | 0.18490774 | 3.0514012 | 21 | 2 7.9 | 21.1 |
| 279686 2011 $FN_{36}$ | 17.5 | X | 25.91487 | 116.03416 | 57.77113 | 3.80597 | 0.1041824 | 0.29089238 | 2.2558722 | 21 | 3 3.7 | 19.5 |
| 279687 2011 $FQ_{36}$ | 17.0 | X | 249.40989 | 205.86452 | 71.62994 | 4.31284 | 0.1604276 | 0.27619794 | 2.3351911 | 21 | 1 14.4 | 20.7 |
| 279688 2011 $FS_{37}$ | 17.1 | X | 347.31015 | 283.96264 | 316.40442 | 5.62919 | 0.1297675 | 0.29709843 | 2.2243467 | 21 | 3 24.5 | 19.3 |
| 279689 2011 $FT_{40}$ | 16.5 | X | 301.82702 | 58.20284 | 254.46422 | 3.08002 | 0.0910416 | 0.21004709 | 2.8027967 | 21 | 5 14.1 | 20.2 |
| 279690 2011 $FB_{41}$ | 16.9 | X | 208.92229 | 310.08063 | 300.87558 | 5.78352 | 0.0987456 | 0.25938358 | 2.4350491 | 21 | — | — |
| 279691 2011 $FN_{42}$ | 17.5 | X | 21.59853 | 90.68488 | 76.51405 | 7.95100 | 0.0483422 | 0.28905226 | 2.2654361 | 21 | 2 19.2 | 20.0 |
| 279692 2011 $FQ_{43}$ | 15.7 | X | 211.70307 | 249.41518 | 48.78929 | 10.46286 | 0.1946201 | 0.17583608 | 3.1554700 | 21 | 1 22.3 | 21.2 |
| 279693 2011 $FD_{44}$ | 15.6 | X | 186.40206 | 284.18347 | 11.30522 | 4.84122 | 0.1261873 | 0.17053118 | 3.2205757 | 21 | — | — |
| 279694 2011 $FO_{45}$ | 16.5 | X | 256.35056 | 204.55649 | 102.48957 | 4.14039 | 0.0542739 | 0.19056943 | 2.9906613 | 21 | 3 20.5 | 20.8 |
| 279695 2011 $FX_{46}$ | 15.3 | X | 89.64387 | 179.32035 | 214.46960 | 13.55966 | 0.1248265 | 0.16864576 | 3.2445347 | 21 | 1 4.6 | 19.9 |
| 279696 2011 $FF_{47}$ | 17.7 | X | 38.40688 | 343.21027 | 156.62932 | 1.68284 | 0.1446213 | 0.28401068 | 2.2921671 | 21 | 2 1.6 | 19.5 |
| 279697 2011 $FQ_{55}$ | 17.1 | X | 154.84224 | 106.14999 | 33.57336 | 4.95757 | 0.2067543 | 0.22508231 | 2.6765486 | 21 | 7 31.4 | 21.6 |
| 279698 2011 $FA_{56}$ | 16.5 | X | 66.48279 | 331.44045 | 343.15051 | 4.17516 | 0.3290910 | 0.23525011 | 2.5988596 | 21 | 12 24.3 | 20.8 |
| 279699 2011 $FK_{56}$ | 16.4 | X | 212.20589 | 281.08465 | 192.91575 | 11.34427 | 0.1322340 | 0.23213566 | 2.6220530 | 21 | 8 18.0 | 20.6 |
| 279700 2011 $FN_{65}$ | 16.4 | X | 129.71111 | 228.40680 | 354.94900 | 10.44024 | 0.1147180 | 0.23381320 | 2.6094964 | 21 | 10 12.8 | 20.5 |
| 279701 2011 $FC_{83}$ | 18.0 | X | 288.07734 | 257.43655 | 7.76404 | 3.94248 | 0.1485570 | 0.28425815 | 2.2908365 | 21 | 2 6.8 | 21.1 |
| 279702 2011 $FN_{88}$ | 16.5 | X | 305.52371 | 334.37945 | 340.48748 | 3.77820 | 0.0573726 | 0.21017137 | 2.8016917 | 21 | 5 26.8 | 20.1 |
| 279703 2011 $FO_{92}$ | 15.9 | X | 314.24836 | 337.98166 | 3.84314 | 16.72808 | 0.0720389 | 0.22079893 | 2.7110534 | 21 | 7 20.3 | 19.6 |
| 279704 2011 $FS_{140}$ | 15.9 | X | 241.69944 | 76.61479 | 176.87132 | 8.95589 | 0.1118440 | 0.17289184 | 3.1911929 | 21 | — | — |
| 279705 2011 $FB_{142}$ | 16.4 | X | 52.36856 | 184.77485 | 92.38635 | 4.92446 | 0.1977746 | 0.22046507 | 2.7137897 | 21 | 10 8.8 | 19.9 |
| 279706 2011 $FY_{149}$ | 15.4 | X | 358.79294 | 243.35811 | 259.62334 | 8.80514 | 0.0698941 | 0.18111192 | 3.0938887 | 21 | 1 3.8 | 19.5 |
| 279707 2011 $FE_{150}$ | 15.9 | X | 14.28701 | 324.70027 | 200.29610 | 13.47468 | 0.0985276 | 0.18520993 | 3.0480812 | 21 | 2 16.9 | 19.9 |
| 279708 2011 $GN_{3}$ | 16.7 | X | 130.20178 | 92.90668 | 154.78843 | 4.68818 | 0.1866087 | 0.23643519 | 2.5901683 | 21 | 11 19.0 | 21.0 |
| 279709 2011 $GH_{4}$ | 16.7 | X | 235.96583 | 324.27822 | 179.34780 | 9.63730 | 0.0130007 | 0.23995469 | 2.5647786 | 21 | 11 13.8 | 20.2 |
| 279710 2011 $GK_{12}$ | 16.9 | X | 355.02981 | 53.51447 | 226.05777 | 3.36515 | 0.0688169 | 0.21080086 | 2.7961114 | 21 | 6 22.2 | 20.3 |
| 279711 2011 $GJ_{31}$ | 17.6 | X | 307.92110 | 47.93107 | 177.68193 | 2.20480 | 0.1615423 | 0.27856127 | 2.3219644 | 21 | 1 6.6 | 20.6 |
| 279712 2011 $GY_{46}$ | 15.5 | X | 80.06588 | 312.80699 | 23.80354 | 14.03795 | 0.3563683 | 0.23771445 | 2.5808672 | 21 | — | — |
| 279713 2011 $GB_{47}$ | 17.1 | X | 13.79473 | 355.37942 | 28.06998 | 3.78167 | 0.0377569 | 0.24224739 | 2.5485705 | 21 | 12 11.2 | 20.4 |
| 279714 2011 $GG_{48}$ | 17.1 | X | 113.96887 | 31.82329 | 214.36991 | 3.04514 | 0.1409424 | 0.23231833 | 2.6206784 | 21 | 10 29.7 | 21.1 |
| 279715 2011 $GD_{55}$ | 16.2 | X | 350.25993 | 168.42373 | 125.56361 | 5.12340 | 0.0797277 | 0.21147196 | 2.7901926 | 21 | 7 4.3 | 19.6 |
| 279716 2011 $GJ_{57}$ | 14.9 | X | 211.25680 | 171.83958 | 46.01287 | 16.11077 | 0.0128243 | 0.15621959 | 3.4143842 | 21 | 12 26.2 | 20.0 |
| 279717 2011 $GK_{59}$ | 15.3 | X | 69.56882 | 280.92583 | 145.47867 | 16.88518 | 0.0736283 | 0.17712426 | 3.1401521 | 21 | 1 10.6 | 19.6 |
| 279718 1579 $T–2$ | 17.8 | X | 80.29272 | 149.90452 | 191.53635 | 5.03864 | 0.2762180 | 0.29282653 | 2.2459277 | 21 | — | — |
| 279719 5449 $T–2$ | 15.7 | X | 167.05305 | 101.23015 | 250.17253 | 7.59899 | 0.1498835 | 0.19443413 | 2.9508992 | 21 | 2 5.9 | 20.5 |
| 279720 5475 $T–2$ | 16.3 | X | 239.77221 | 47.37691 | 344.44283 | 14.15021 | 0.2460869 | 0.22115728 | 2.7081241 | 21 | 5 21.9 | 21.1 |
| 279721 1172 $T–3$ | 15.9 | X | 343.09752 | 154.03385 | 216.86644 | 16.98969 | 0.2525101 | 0.17866134 | 3.1221156 | 21 | 9 29.0 | 19.0 |
| 279722 5741 $T–3$ | 16.2 | X | 245.18320 | 256.69044 | 126.81924 | 7.13278 | 0.1590180 | 0.21853454 | 2.7297486 | 21 | 5 29.7 | 20.4 |
| 279723 Wittenberg | 16.7 | X | 85.76799 | 105.83150 | 257.03380 | 3.02536 | 0.2980226 | 0.23930755 | 2.5694004 | 21 | — | — |
| 279724 1991 $RL_{28}$ | 16.8 | X | 146.34616 | 141.17814 | 145.69588 | 5.49117 | 0.2251967 | 0.24138547 | 2.5546337 | 21 | — | — |
| 279725 1993 $DZ_{1}$ | 17.3 | X | 128.87921 | 195.86665 | 103.90158 | 5.83404 | 0.1136194 | 0.30138577 | 2.2032015 | 21 | — | — |
| 279726 1993 $TG_{30}$ | 15.6 | X | 49.26488 | 358.70863 | 36.58657 | 11.01878 | 0.2852709 | 0.18258452 | 3.0772308 | 21 | — | — |
| 279727 1994 $HH$ | 16.9 | X | 227.46493 | 204.54138 | 307.02669 | 0.67197 | 0.0682446 | 0.23584253 | 2.5945058 | 21 | 11 2.3 | 20.2 |
| 279728 1994 $SM_{1}$ | 17.0 | X | 302.55892 | 214.19416 | 26.56116 | 5.69336 | 0.1095918 | 0.27658321 | 2.3330220 | 21 | 1 29.7 | 20.1 |
| 279729 1995 $HU_{1}$ | 17.0 | X | 86.05748 | 206.45733 | 96.77628 | 10.68301 | 0.2203157 | 0.27835626 | 2.3231044 | 21 | 12 24.3 | 20.5 |
| 279730 1995 $MA_{6}$ | 17.0 | X | 299.41941 | 124.24800 | 212.36434 | 4.77582 | 0.1781696 | 0.29976127 | 2.2111542 | 21 | 5 24.9 | 19.5 |
| 279731 1995 $OC_{9}$ | 16.3 | X | 346.12151 | 113.43552 | 160.83117 | 11.56342 | 0.0526457 | 0.22289919 | 2.6939967 | 21 | 6 3.2 | 19.9 |
| 279732 1995 $UC_{66}$ | 17.0 | X | 105.29416 | 268.76604 | 25.98904 | 3.27772 | 0.1327475 | 0.23332435 | 2.6131400 | 21 | 12 18.7 | 21.1 |
| 279733 1995 $UZ_{78}$ | 17.7 | X | 83.25823 | 4.61968 | 108.60506 | 2.97181 | 0.1577339 | 0.28327623 | 2.2961273 | 21 | 3 26.3 | 20.0 |
| 279734 1995 $VC_{10}$ | 17.0 | X | 255.63105 | 228.43296 | 208.38913 | 1.89995 | 0.0465095 | 0.22331461 | 2.6906547 | 21 | 9 2.4 | 20.7 |
| 279735 1995 $WB_{13}$ | 16.9 | X | 180.68802 | 352.21660 | 127.86602 | 4.41158 | 0.1463753 | 0.21661015 | 2.7458924 | 21 | 7 27.3 | 21.2 |
| 279736 1995 $WF_{13}$ | 16.6 | X | 299.81518 | 212.30063 | 177.36538 | 4.89643 | 0.0245945 | 0.22127856 | 2.7071344 | 21 | 9 2.6 | 20.2 |
| 279737 1996 $UO_{3}$ | 15.9 | X | 271.94329 | 170.28714 | 219.13427 | 9.76060 | 0.1069674 | 0.19205608 | 2.9752081 | 21 | 7 11.1 | 20.2 |
| 279738 1997 $AW_{9}$ | 16.2 | X | 295.64130 | 291.01398 | 134.97516 | 9.39333 | 0.0983826 | 0.22853616 | 2.6495132 | 21 | 10 12.7 | 19.5 |
| 279739 1997 $EF_{1}$ | 15.8 | X | 343.95655 | 10.02762 | 292.40397 | 9.53237 | 0.2031104 | 0.17601619 | 3.1533170 | 21 | 6 28.3 | 19.0 |
| 279740 1998 $BO_{6}$ | 17.4 | X | 232.81414 | 166.02502 | 353.73661 | 0.99793 | 0.0524265 | 0.24061545 | 2.5600810 | 21 | 11 22.7 | 20.6 |
| 279741 1998 $FL_{10}$ | 16.9 | X | 232.64623 | 238.74443 | 268.68488 | 1.85699 | 0.1466063 | 0.23596551 | 2.5936041 | 21 | 10 23.3 | 20.4 |
| 279742 1998 $HG_{29}$ | 17.4 | X | 83.60890 | 209.58823 | 342.10386 | 4.18242 | 0.2270711 | 0.30621738 | 2.1799648 | 21 | 8 1.8 | 20.1 |
| 279743 1998 $HE_{50}$ | 17.2 | X | 170.31321 | 110.15871 | 106.58447 | 3.14925 | 0.0722214 | 0.23450020 | 2.6043973 | 21 | 11 19.4 | 21.0 |
| 279744 1998 $KM_{3}$ | 19.7 | X | 210.28346 | 85.23473 | 263.10121 | 4.66013 | 0.6111191 | 0.45615334 | 1.6713297 | 21 | 2 26.4 | 23.2 |
| 279745 1998 $KG_{39}$ | 15.9 | X | 115.69009 | 0.61265 | 247.68346 | 12.74566 | 0.1270265 | 0.22732024 | 2.6589529 | 21 | 10 30.5 | 20.1 |
| 279746 1998 $MK_{6}$ | 16.1 | X | 77.63825 | 94.25355 | 191.79550 | 15.83758 | 0.1288358 | 0.18363819 | 3.0654487 | 21 | 11 4.1 | 20.6 |
| 279747 1998 $QA_{58}$ | 16.7 | X | 313.38637 | 191.26002 | 174.80200 | 3.79870 | 0.1118218 | 0.21138355 | 2.7909705 | 21 | 8 10.1 | 20.1 |
| 279748 1998 $QH_{100}$ | 15.7 | X | 37.14755 | 321.90992 | 355.87665 | 10.17751 | 0.2587023 | 0.21835271 | 2.7312638 | 21 | 11 12.9 | 19.3 |
| 279749 1998 $RH_{20}$ | 16.0 | X | 342.42885 | 148.53615 | 199.08829 | 7.30000 | 0.2328965 | 0.21430942 | 2.7655099 | 21 | 8 30.3 | 18.4 |
| 279750 1998 $SL$ | 17.4 | X | 335.25626 | 91.41966 | 184.10051 | 6.33404 | 0.1201512 | 0.29205437 | 2.2498846 | 21 | 5 3.7 | 19.6 |
| 279751 1998 $ST_{8}$ | 17.4 | X | 259.24965 | 344.66386 | 12.99100 | 3.97840 | 0.1618453 | 0.28997056 | 2.2606506 | 21 | 5 4.1 | 20.7 |
| 279752 1998 $SB_{68}$ | 16.3 | X | 316.72600 | 157.11925 | 216.71675 | 9.32087 | 0.2710534 | 0.21271118 | 2.7793453 | 21 | 8 1.3 | 19.3 |
| 279753 1998 $SE_{87}$ | 15.4 | X | 337.10050 | 117.08408 | 242.41848 | 5.66512 | 0.2631206 | 0.21313027 | 2.7757007 | 21 | 9 1.3 | 17.8 |
| 279754 1998 $UB_{18}$ | 16.7 | X | 262.34570 | 55.34943 | 272.31530 | 6.25499 | 0.1858247 | 0.28718580 | 2.2752410 | 21 | 3 23.7 | 20.3 |
| 279755 1998 $WS_{27}$ | 16.9 | X | 181.95484 | 149.13725 | 226.99939 | 6.48887 | 0.1239130 | 0.28048944 | 2.3113109 | 21 | 3 10.3 | 20.3 |
| 279756 1998 $WE_{42}$ | 16.5 | X | 35.77484 | 165.35379 | 231.94995 | 4.07605 | 0.1648450 | 0.22071968 | 2.7117023 | 21 | — | — |
| 279757 1998 $XF_{20}$ | 16.2 | X | 203.52196 | 321.48003 | 78.69637 | 3.18623 | 0.0944542 | 0.19727699 | 2.9224815 | 21 | 5 12.1 | 20.7 |
| 279758 1999 $CL_{137}$ | 17.5 | X | 263.36164 | 298.25795 | 243.26949 | 0.47121 | 0.1497190 | 0.25557106 | 2.4592062 | 21 | — | — |
| 279759 1999 $CZ_{140}$ | 15.7 | X | 12.18591 | 63.61413 | 128.60545 | 11.70385 | 0.1012948 | 0.18378614 | 3.0638033 | 21 | 3 29.6 | 19.6 |
| 279760 1999 $EB_{2}$ | 16.0 | X | 338.89160 | 332.07041 | 178.38356 | 5.69797 | 0.1503946 | 0.17228617 | 3.1986676 | 21 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279761 1999 $FL_{67}$ | 16.2 | X | 306.27768 | 343.30532 | 241.56464 | 2.00814 | 0.0244241 | 0.17592149 | 3.1544486 | 21 | 2 11.2 | 20.7 |
| 279762 1999 $FV_{83}$ | 17.0 | X | 138.60733 | 30.83320 | 158.20933 | 16.02351 | 0.1685794 | 0.23605526 | 2.5929467 | 21 | 9 15.4 | 21.1 |
| 279763 1999 $GQ_{1}$ | 17.0 | X | 328.28919 | 125.91599 | 7.42753 | 1.98886 | 0.1225654 | 0.25665396 | 2.4522838 | 21 | — | — |
| 279764 1999 $NB_{59}$ | 15.9 | X | 146.91746 | 71.56433 | 234.33990 | 9.52311 | 0.2714469 | 0.24385145 | 2.5373818 | 21 | — | — |
| 279765 1999 $RH_{2}$ | 17.1 | X | 78.29185 | 171.61247 | 163.04660 | 2.54092 | 0.1707516 | 0.23640392 | 2.5903966 | 21 | — | — |
| 279766 1999 $RE_{3}$ | 16.4 | X | 97.47747 | 152.78219 | 182.41718 | 4.49557 | 0.3138392 | 0.23698257 | 2.5861782 | 21 | — | — |
| 279767 1999 $RT_{56}$ | 16.5 | X | 43.15912 | 57.11486 | 309.09134 | 4.18204 | 0.2636134 | 0.23324390 | 2.6137408 | 21 | — | — |
| 279768 1999 $RH_{104}$ | 19.1 | X | 76.67626 | 95.23457 | 219.77255 | 3.67976 | 0.3545240 | 0.32391144 | 2.0998351 | 21 | — | — |
| 279769 1999 $RG_{114}$ | 15.8 | X | 17.99622 | 131.72424 | 146.53257 | 17.00267 | 0.2638156 | 0.18013915 | 3.1050169 | 21 | 8 13.9 | 18.9 |
| 279770 1999 $RN_{146}$ | 16.5 | X | 113.30307 | 116.26431 | 212.97068 | 4.12927 | 0.3005645 | 0.23926456 | 2.5697081 | 21 | — | — |
| 279771 1999 $RO_{146}$ | 17.4 | X | 38.91199 | 36.61457 | 282.46278 | 3.93306 | 0.1752973 | 0.31908601 | 2.1209522 | 21 | 11 25.8 | 19.7 |
| 279772 1999 $TO_{24}$ | 16.7 | X | 50.70201 | 270.29442 | 30.00951 | 6.97799 | 0.0740068 | 0.22493038 | 2.6777538 | 21 | 10 16.5 | 20.1 |
| 279773 1999 $TV_{60}$ | 17.1 | X | 91.84225 | 77.03443 | 205.36802 | 4.34750 | 0.0939416 | 0.22980010 | 2.6397891 | 21 | 11 16.5 | 20.8 |
| 279774 1999 $TL_{61}$ | 16.4 | X | 301.32868 | 245.27744 | 186.52896 | 14.59955 | 0.1012922 | 0.22670491 | 2.6637620 | 21 | 10 27.0 | 19.5 |
| 279775 1999 $TO_{79}$ | 17.2 | X | 328.99054 | 184.61287 | 163.79595 | 2.86555 | 0.0667455 | 0.21979820 | 2.7192760 | 21 | 8 16.2 | 20.4 |
| 279776 1999 $TA_{122}$ | 17.6 | X | 55.27950 | 55.24045 | 270.57875 | 1.63729 | 0.2767103 | 0.32067433 | 2.1139429 | 21 | — | — |
| 279777 1999 $TT_{144}$ | 16.5 | X | 28.94024 | 182.64814 | 188.60647 | 3.86978 | 0.2434509 | 0.23044287 | 2.6348782 | 21 | — | — |
| 279778 1999 $TD_{196}$ | 15.4 | X | 195.53218 | 212.98095 | 234.08584 | 24.34783 | 0.1694443 | 0.21085985 | 2.7955899 | 21 | 6 25.3 | 20.3 |
| 279779 1999 $TX_{205}$ | 16.6 | X | 32.95892 | 119.89100 | 249.93837 | 3.07761 | 0.2702561 | 0.22885256 | 2.6470706 | 21 | — | — |
| 279780 1999 $TJ_{208}$ | 16.2 | X | 71.86235 | 113.22564 | 239.11345 | 15.87653 | 0.3416373 | 0.23383954 | 2.6093004 | 21 | — | — |
| 279781 1999 $TA_{220}$ | 16.3 | X | 304.36718 | 185.47986 | 218.23152 | 11.33481 | 0.1746444 | 0.22193765 | 2.7017722 | 21 | 9 5.8 | 19.5 |
| 279782 1999 $TM_{225}$ | 16.8 | X | 296.07509 | 91.49108 | 321.57733 | 2.96124 | 0.0831875 | 0.22435851 | 2.6823020 | 21 | 9 21.6 | 20.2 |
| 279783 1999 $TP_{266}$ | 16.0 | X | 5.04982 | 117.83087 | 247.05965 | 10.93077 | 0.1870395 | 0.22698148 | 2.6615979 | 21 | 11 18.3 | 18.8 |
| 279784 1999 $TK_{319}$ | 16.9 | X | 34.09980 | 235.17999 | 119.73908 | 2.30131 | 0.1885373 | 0.22916933 | 2.6446308 | 21 | 12 21.5 | 20.4 |
| 279785 1999 $UK_{25}$ | 16.1 | X | 73.31638 | 100.48120 | 222.54780 | 24.97689 | 0.3196091 | 0.23180662 | 2.6245337 | 21 | — | — |
| 279786 1999 $VZ_{15}$ | 16.4 | X | 1.88377 | 74.23983 | 278.88090 | 2.66912 | 0.1005602 | 0.22362496 | 2.6881646 | 21 | 10 15.9 | 19.4 |
| 279787 1999 $VA_{42}$ | 16.9 | X | 324.02450 | 116.74135 | 243.39862 | 5.21983 | 0.0491053 | 0.21883015 | 2.7272897 | 21 | 8 23.8 | 20.5 |
| 279788 1999 $VH_{60}$ | 16.5 | X | 32.51106 | 133.32865 | 214.34099 | 6.64488 | 0.2005513 | 0.22707271 | 2.6608849 | 21 | 12 11.7 | 20.0 |
| 279789 1999 $VM_{73}$ | 18.1 | X | 122.09528 | 284.53661 | 164.65532 | 1.49745 | 0.1763004 | 0.29439968 | 2.2379197 | 21 | 4 17.6 | 20.8 |
| 279790 1999 $VL_{79}$ | 15.7 | X | 27.58690 | 147.01467 | 217.48097 | 13.04739 | 0.2776799 | 0.22839533 | 2.6506023 | 21 | — | — |
| 279791 1999 $VU_{100}$ | 16.2 | X | 327.08064 | 137.34820 | 228.13924 | 16.00533 | 0.1426675 | 0.21896392 | 2.7261788 | 21 | 8 24.3 | 19.6 |
| 279792 1999 $VR_{102}$ | 16.4 | X | 321.22988 | 127.91303 | 228.75212 | 9.92756 | 0.0906833 | 0.21707822 | 2.7419438 | 21 | 8 9.1 | 19.9 |
| 279793 1999 $VZ_{105}$ | 17.8 | X | 308.65322 | 143.52900 | 229.67880 | 2.89124 | 0.1926789 | 0.30871644 | 2.1681844 | 21 | 8 5.8 | 19.3 |
| 279794 1999 $XS_{18}$ | 15.8 | X | 80.47658 | 280.85252 | 62.05432 | 6.28656 | 0.3231811 | 0.23476797 | 2.6024166 | 21 | — | — |
| 279795 1999 $XE_{40}$ | 15.8 | X | 266.14968 | 348.88570 | 57.94074 | 13.55986 | 0.2003122 | 0.21605250 | 2.7506153 | 21 | 7 17.3 | 19.9 |
| 279796 1999 $XJ_{74}$ | 15.8 | X | 329.06773 | 214.89702 | 250.69947 | 13.93801 | 0.0825068 | 0.22734084 | 2.6587923 | 21 | — | — |
| 279797 1999 $YC_{26}$ | 16.6 | X | 319.92058 | 268.89224 | 97.06081 | 4.15852 | 0.0912029 | 0.21157734 | 2.7892661 | 21 | 8 25.7 | 19.9 |
| 279798 2000 $AQ_{146}$ | 17.1 | X | 26.89970 | 359.55545 | 127.34580 | 23.93706 | 0.0688958 | 0.37168123 | 1.9158241 | 21 | — | — |
| 279799 2000 $BP_{6}$ | 17.0 | X | 191.14702 | 240.94012 | 112.00913 | 23.52913 | 0.0863755 | 0.37621666 | 1.9003957 | 21 | 2 3.6 | 19.2 |
| 279800 2000 $CC_{105}$ | 17.6 | X | 254.76761 | 219.36917 | 137.31898 | 6.98921 | 0.1335028 | 0.29149400 | 2.2527671 | 21 | 5 4.6 | 20.8 |
| 279801 2000 $CO_{131}$ | 17.3 | X | 84.97549 | 167.72724 | 318.89152 | 4.52943 | 0.0887235 | 0.28559741 | 2.2836692 | 21 | 4 2.1 | 19.8 |
| 279802 2000 $DA_{88}$ | 16.9 | X | 299.09897 | 290.50902 | 320.15825 | 6.55301 | 0.1086331 | 0.27951878 | 2.3166587 | 21 | 2 5.3 | 19.6 |
| 279803 2000 $EJ_{24}$ | 15.5 | X | 274.42549 | 189.46196 | 0.78514 | 16.50841 | 0.0776816 | 0.17467597 | 3.1694260 | 21 | — | — |
| 279804 2000 $EZ_{67}$ | 17.4 | X | 345.57139 | 164.90858 | 2.17083 | 2.72064 | 0.1506080 | 0.27456053 | 2.3444662 | 21 | — | — |
| 279805 2000 $EW_{170}$ | 17.0 | X | 9.23159 | 91.48887 | 76.72901 | 6.05928 | 0.1698172 | 0.27830579 | 2.3233852 | 21 | 1 17.1 | 19.0 |
| 279806 2000 $EZ_{184}$ | 16.3 | X | 4.35609 | 80.04224 | 112.19024 | 8.37833 | 0.2190600 | 0.18676963 | 3.0310880 | 21 | 3 6.9 | 19.5 |
| 279807 2000 $FN_{1}$ | 15.9 | X | 63.54696 | 293.34261 | 194.20574 | 10.67557 | 0.0545995 | 0.18579992 | 3.0416252 | 21 | 3 13.9 | 20.0 |
| 279808 2000 $FH_{68}$ | 17.3 | X | 76.64954 | 87.57155 | 24.87091 | 4.08109 | 0.1028050 | 0.27876832 | 2.3208146 | 21 | 3 6.0 | 19.7 |
| 279809 2000 $GD_{11}$ | 16.0 | X | 178.52017 | 79.08406 | 184.29848 | 12.29618 | 0.0201986 | 0.21845733 | 2.7303918 | 21 | — | — |
| 279810 2000 $GU_{20}$ | 16.6 | X | 29.81511 | 132.96396 | 7.26040 | 7.14193 | 0.0540639 | 0.27583674 | 2.3372292 | 21 | 1 26.2 | 19.2 |
| 279811 2000 $GN_{21}$ | 17.6 | X | 290.71036 | 54.04360 | 186.64180 | 1.79371 | 0.1507362 | 0.27372599 | 2.3492290 | 21 | 1 9.2 | 20.9 |
| 279812 2000 $GV_{43}$ | 17.7 | X | 224.96069 | 200.07002 | 27.47221 | 4.75259 | 0.1930852 | 0.26325969 | 2.4110885 | 21 | — | — |
| 279813 2000 $HS_{17}$ | 17.8 | X | 301.93184 | 295.89471 | 265.57920 | 0.58792 | 0.1284719 | 0.26984544 | 2.3716977 | 21 | — | — |
| 279814 2000 $HX_{28}$ | 16.1 | X | 301.17019 | 68.47596 | 191.02283 | 25.75896 | 0.3095929 | 0.18010056 | 3.1054605 | 21 | 2 4.7 | 21.3 |
| 279815 2000 $JT_{3}$ | 16.1 | X | 261.51667 | 137.40530 | 176.93692 | 14.71472 | 0.3232640 | 0.27385006 | 2.3485194 | 21 | 2 27.9 | 20.3 |
| 279816 2000 $JE_{5}$ | 19.0 | X | 63.57641 | 285.16890 | 41.23579 | 50.73914 | 0.4006763 | 0.71535281 | 1.2381954 | 21 | — | — |
| 279817 2000 $JA_{7}$ | 15.6 | X | 293.68744 | 54.76967 | 209.51361 | 5.36856 | 0.0809536 | 0.18159642 | 3.0883833 | 21 | 3 5.9 | 20.1 |
| 279818 2000 $JF_{45}$ | 16.9 | X | 296.57021 | 163.47261 | 59.04634 | 6.32507 | 0.1675628 | 0.27028375 | 2.3691329 | 21 | — | — |
| 279819 2000 $KK_{67}$ | 15.5 | X | 7.63231 | 42.79585 | 127.93010 | 18.03137 | 0.2525420 | 0.18362157 | 3.0656336 | 21 | 2 6.9 | 18.3 |
| 279820 2000 $LJ_{33}$ | 17.5 | X | 275.24322 | 142.79290 | 100.46600 | 3.66345 | 0.2301823 | 0.26928262 | 2.3750012 | 21 | — | — |
| 279821 2000 $QQ_{103}$ | 16.1 | X | 24.57745 | 292.26387 | 12.08695 | 9.24839 | 0.2264719 | 0.23589411 | 2.5941275 | 21 | 10 7.1 | 18.7 |
| 279822 2000 $QM_{110}$ | 17.5 | X | 152.02486 | 71.16649 | 261.41090 | 1.51626 | 0.2130092 | 0.25585319 | 2.4573979 | 21 | — | — |
| 279823 2000 $RD_{8}$ | 15.9 | X | 346.10859 | 111.81100 | 323.58627 | 23.35706 | 0.2908789 | 0.28984023 | 2.2613282 | 21 | — | — |
| 279824 2000 $RS_{67}$ | 16.0 | X | 220.26424 | 309.31991 | 29.34579 | 11.73365 | 0.3100521 | 0.26251652 | 2.4156367 | 21 | 3 8.6 | 20.6 |
| 279825 2000 $RB_{90}$ | 17.2 | X | 182.31576 | 131.18717 | 196.10947 | 6.55231 | 0.2706555 | 0.25889777 | 2.4380944 | 21 | 1 21.6 | 21.5 |
| 279826 2000 $SF_{19}$ | 17.8 | X | 59.13655 | 6.17082 | 323.49208 | 2.92934 | 0.1909105 | 0.28955764 | 2.2627993 | 21 | 12 31.1 | 21.0 |
| 279827 2000 $ST_{98}$ | 15.8 | X | 211.88543 | 11.19432 | 349.34279 | 11.41053 | 0.1663622 | 0.21723874 | 2.7405930 | 21 | 3 26.7 | 20.5 |
| 279828 2000 $SQ_{108}$ | 15.5 | X | 257.42164 | 357.04054 | 185.87015 | 4.52251 | 0.0096524 | 0.24599501 | 2.5226201 | 21 | — | — |
| 279829 2000 $SD_{137}$ | 16.3 | X | 53.30385 | 110.61300 | 283.60344 | 4.57574 | 0.2613473 | 0.24602092 | 2.5224430 | 21 | — | — |
| 279830 2000 $SH_{137}$ | 16.8 | X | 166.36700 | 63.29176 | 264.44310 | 5.22318 | 0.2343483 | 0.25565188 | 2.4586878 | 21 | 1 8.3 | 20.6 |
| 279831 2000 $SL_{155}$ | 17.4 | X | 175.45673 | 37.75517 | 296.02192 | 1.50642 | 0.2706847 | 0.25742213 | 2.4474029 | 21 | 1 25.6 | 21.6 |
| 279832 2000 $SH_{161}$ | 16.0 | X | 190.83061 | 93.43237 | 241.54834 | 21.08692 | 0.3013166 | 0.26166688 | 2.4208630 | 21 | 1 30.9 | 20.8 |
| 279833 2000 $SY_{164}$ | 15.4 | X | 269.43472 | 162.78001 | 209.80705 | 10.44777 | 0.1004508 | 0.17961258 | 3.1110826 | 21 | 6 18.9 | 20.0 |
| 279834 2000 $SZ_{181}$ | 14.4 | X | 261.87950 | 84.47768 | 258.66396 | 14.83380 | 0.2493223 | 0.17736269 | 3.1373372 | 21 | 4 13.9 | 19.8 |
| 279835 2000 $SX_{228}$ | 15.9 | X | 74.84617 | 357.42122 | 9.67050 | 4.19701 | 0.0810563 | 0.24558251 | 2.5254441 | 21 | — | — |
| 279836 2000 $SW_{264}$ | 16.7 | X | 50.46709 | 332.29551 | 62.97289 | 2.52301 | 0.1984477 | 0.24600052 | 2.5225824 | 21 | — | — |
| 279837 2000 $ST_{272}$ | 16.5 | X | 357.64681 | 209.26058 | 216.10083 | 5.59462 | 0.2745503 | 0.24067751 | 2.5596409 | 21 | — | — |
| 279838 2000 $SH_{324}$ | 16.2 | X | 248.52272 | 346.08213 | 193.84532 | 8.30880 | 0.0382448 | 0.24427725 | 2.5344324 | 21 | — | — |
| 279839 2000 $SA_{344}$ | 15.2 | X | 237.83106 | 114.54140 | 306.75260 | 15.47978 | 0.2253670 | 0.17873940 | 3.1212066 | 21 | 7 3.8 | 20.4 |
| 279840 2000 $TF_{12}$ | 16.2 | X | 315.01795 | 136.44341 | 192.85030 | 11.39743 | 0.0484298 | 0.22630879 | 2.6668696 | 21 | 6 30.1 | 19.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279841 2000 $TA_{49}$ | 16.3 | X | 26.43180 | 305.95641 | 79.74983 | 7.62312 | 0.1312021 | 0.24174926 | 2.5520702 | 21 | — | — |
| 279842 2000 $UR_{22}$ | 16.9 | X | 243.24383 | 215.42619 | 125.48827 | 3.17166 | 0.2522752 | 0.26560228 | 2.3968904 | 21 | 3 25.6 | 21.0 |
| 279843 2000 $UD_{75}$ | 16.4 | X | 353.48626 | 332.29398 | 57.92203 | 14.72584 | 0.1678425 | 0.23610945 | 2.5925500 | 21 | 12 1.7 | 19.1 |
| 279844 2000 $UF_{106}$ | 16.4 | X | 5.72629 | 277.88896 | 122.42184 | 5.32689 | 0.2131104 | 0.23950199 | 2.5680095 | 21 | — | — |
| 279845 2000 $VY_{59}$ | 16.6 | X | 64.24919 | 308.19002 | 44.60321 | 10.29957 | 0.1045437 | 0.24173027 | 2.5522038 | 21 | — | — |
| 279846 2000 $WM_{136}$ | 16.8 | X | 148.53651 | 88.64860 | 263.42234 | 6.28663 | 0.3088029 | 0.25379908 | 2.4706394 | 21 | 1 27.8 | 20.8 |
| 279847 2000 $XV_{16}$ | 16.1 | X | 43.40921 | 68.37514 | 322.69301 | 4.58594 | 0.3102408 | 0.24182654 | 2.5515265 | 21 | — | — |
| 279848 2000 $XJ_{22}$ | 15.9 | X | 24.11741 | 337.80823 | 41.43382 | 14.59949 | 0.1987170 | 0.23758434 | 2.5818094 | 21 | — | — |
| 279849 2000 $YD_{8}$ | 16.1 | X | 17.12848 | 303.61229 | 92.38501 | 15.56762 | 0.1229705 | 0.23644837 | 2.5900720 | 21 | — | — |
| 279850 2000 $YB_{38}$ | 16.1 | X | 246.84058 | 348.32814 | 115.10293 | 14.08439 | 0.1295196 | 0.22514659 | 2.6760392 | 21 | 9 20.9 | 20.1 |
| 279851 2000 $YY_{98}$ | 15.9 | X | 173.20941 | 16.72283 | 118.54264 | 14.57402 | 0.1345669 | 0.21723057 | 2.7406616 | 21 | 8 9.5 | 20.2 |
| 279852 2001 $AU_{18}$ | 15.9 | X | 198.42727 | 197.42972 | 281.53471 | 8.99033 | 0.1293881 | 0.21852093 | 2.7298620 | 21 | 8 10.1 | 20.3 |
| 279853 2001 $AE_{19}$ | 16.6 | X | 130.06470 | 27.79244 | 115.30846 | 8.48304 | 0.2378575 | 0.21074384 | 2.7966157 | 21 | 7 14.2 | 21.3 |
| 279854 2001 $AR_{50}$ | 16.5 | X | 149.28549 | 61.19281 | 110.03080 | 4.05196 | 0.1170363 | 0.21757695 | 2.7377521 | 21 | 8 31.2 | 20.7 |
| 279855 2001 $BD_{83}$ | 16.7 | X | 277.75046 | 316.31291 | 118.11449 | 5.01080 | 0.1426051 | 0.22500829 | 2.6771356 | 21 | 9 17.8 | 20.0 |
| 279856 2001 $CR_{15}$ | 15.2 | X | 237.35870 | 16.48919 | 116.81941 | 9.14884 | 0.1218831 | 0.17710035 | 3.1404347 | 21 | 10 12.4 | 20.0 |
| 279857 2001 $DB_{23}$ | 16.1 | X | 133.18092 | 44.13910 | 129.44142 | 8.75481 | 0.1513115 | 0.21375635 | 2.7702781 | 21 | 8 19.2 | 20.4 |
| 279858 2001 $DA_{48}$ | 16.9 | X | 104.73016 | 83.94509 | 90.29537 | 2.81165 | 0.1553999 | 0.20966411 | 2.8062088 | 21 | 7 21.2 | 21.0 |
| 279859 2001 $DC_{87}$ | 16.1 | X | 225.70477 | 322.10265 | 142.01285 | 10.92645 | 0.0885922 | 0.21909059 | 2.7251279 | 21 | 8 27.5 | 19.9 |
| 279860 2001 $FU_{6}$ | 18.8 | X | 32.77462 | 188.96931 | 66.89891 | 2.08253 | 0.2848234 | 0.30270314 | 2.1968046 | 21 | 8 30.9 | 20.4 |
| 279861 2001 $FU_{7}$ | 17.2 | X | 29.29463 | 169.63322 | 102.24128 | 2.82761 | 0.0337067 | 0.21104122 | 2.7939880 | 21 | 8 2.1 | 20.9 |
| 279862 2001 $FU_{111}$ | 15.8 | X | 336.31888 | 155.38094 | 3.15919 | 10.01294 | 0.0511661 | 0.18782552 | 3.0197175 | 21 | — | — |
| 279863 2001 $HH$ | 18.0 | X | 38.67626 | 114.41546 | 86.07548 | 4.99658 | 0.1427681 | 0.29609120 | 2.2293883 | 21 | 5 12.6 | 19.7 |
| 279864 2001 $HP_{17}$ | 15.8 | X | 261.89916 | 175.54593 | 211.17917 | 8.83526 | 0.1402737 | 0.20514257 | 2.8472932 | 21 | 6 21.9 | 20.1 |
| 279865 2001 $HU_{24}$ | 17.4 | X | 279.12213 | 169.96729 | 183.03788 | 3.67498 | 0.2035172 | 0.29833377 | 2.2182021 | 21 | 5 17.0 | 20.1 |
| 279866 2001 $KH_{70}$ | 15.6 | X | 70.10722 | 349.01608 | 214.84030 | 14.59894 | 0.0819475 | 0.20283408 | 2.8688561 | 21 | 7 2.8 | 19.7 |
| 279867 2001 $MA_{16}$ | 16.3 | X | 198.28741 | 313.36440 | 67.19051 | 9.75818 | 0.2513455 | 0.28171679 | 2.3045929 | 21 | 4 10.4 | 20.4 |
| 279868 2001 $MV_{29}$ | 14.4 | X | 245.11409 | 55.97004 | 262.81422 | 16.98940 | 0.1756288 | 0.18251372 | 3.0780266 | 21 | 3 2.9 | 19.8 |
| 279869 2001 $NK_{3}$ | 15.7 | X | 226.90291 | 234.70610 | 121.02861 | 5.82572 | 0.3108175 | 0.18473810 | 3.0532690 | 21 | 4 4.6 | 21.3 |
| 279870 2001 $NL_{19}$ | 15.0 | X | 209.14164 | 110.29567 | 261.18884 | 15.93867 | 0.2697724 | 0.18216329 | 3.0819729 | 21 | 4 3.6 | 20.8 |
| 279871 2001 $OR_{17}$ | 17.6 | X | 233.73880 | 122.16264 | 216.16483 | 2.05404 | 0.1998386 | 0.28258871 | 2.2998500 | 21 | 3 13.2 | 21.3 |
| 279872 2001 $OD_{38}$ | 17.3 | X | 252.34274 | 261.46874 | 89.57368 | 8.24671 | 0.2405011 | 0.28520802 | 2.2857473 | 21 | 4 16.7 | 21.0 |
| 279873 2001 $OR_{67}$ | 17.4 | X | 173.90658 | 162.20051 | 127.78692 | 24.23652 | 0.0695588 | 0.36753523 | 1.9302048 | 21 | — | — |
| 279874 2001 $OA_{92}$ | 17.1 | X | 296.09703 | 206.38170 | 86.27102 | 5.76598 | 0.1526921 | 0.28599726 | 2.2815402 | 21 | 3 26.1 | 20.1 |
| 279875 2001 $OG_{101}$ | 16.8 | X | 256.76634 | 131.01033 | 203.47181 | 6.61356 | 0.2414537 | 0.28421340 | 2.2910770 | 21 | 3 25.5 | 20.6 |
| 279876 2001 $PJ_{8}$ | 16.1 | X | 210.61908 | 230.02321 | 114.50720 | 13.26318 | 0.2084116 | 0.22858450 | 2.6491397 | 21 | 3 11.9 | 20.8 |
| 279877 2001 $PQ_{8}$ | 14.8 | X | 183.21958 | 256.74244 | 141.57655 | 23.82311 | 0.3387723 | 0.17802106 | 3.1295973 | 21 | 4 30.7 | 21.0 |
| 279878 2001 $PE_{24}$ | 17.3 | X | 266.85873 | 177.08042 | 136.04400 | 21.61263 | 0.0559455 | 0.38139168 | 1.8831659 | 21 | 3 18.9 | 19.6 |
| 279879 2001 $PZ_{34}$ | 15.2 | X | 163.65610 | 138.59793 | 254.70941 | 13.51805 | 0.2454237 | 0.17609150 | 3.1524179 | 21 | 3 28.1 | 20.8 |
| 279880 2001 $PJ_{42}$ | 17.2 | X | 24.43000 | 3.61491 | 197.48810 | 22.21410 | 0.0496411 | 0.38249454 | 1.8795443 | 21 | 3 24.2 | 18.7 |
| 279881 2001 $PX_{50}$ | 15.3 | X | 219.66213 | 39.08318 | 324.38295 | 23.22953 | 0.2327977 | 0.18137238 | 3.0909261 | 21 | 3 27.6 | 21.0 |
| 279882 2001 $PO_{52}$ | 16.2 | X | 236.97356 | 242.79917 | 99.29296 | 9.40497 | 0.3252844 | 0.18313260 | 3.0710881 | 21 | 3 28.2 | 21.9 |
| 279883 2001 $PE_{60}$ | 17.1 | X | 195.03333 | 241.20057 | 133.93808 | 4.58429 | 0.2624538 | 0.27952782 | 2.3166087 | 21 | 3 30.1 | 21.1 |
| 279884 2001 $PE_{65}$ | 17.1 | X | 187.21316 | 93.22056 | 288.11102 | 6.10752 | 0.1209727 | 0.27799542 | 2.3251142 | 21 | 3 21.9 | 20.6 |
| 279885 2001 $QO$ | 17.5 | X | 332.14013 | 99.75670 | 151.14700 | 21.20707 | 0.0674622 | 0.38258875 | 1.8792357 | 21 | 3 15.6 | 19.1 |
| 279886 2001 $QG_{36}$ | 15.8 | X | 230.84663 | 214.49020 | 147.03010 | 4.62190 | 0.2916331 | 0.18527180 | 3.0474026 | 21 | 4 13.7 | 21.3 |
| 279887 2001 $QF_{45}$ | 17.1 | X | 218.16194 | 178.42455 | 149.83992 | 8.49161 | 0.1646419 | 0.27840831 | 2.3228148 | 21 | 2 16.7 | 20.6 |
| 279888 2001 $QX_{90}$ | 17.0 | X | 186.71353 | 178.67720 | 213.60783 | 21.91264 | 0.0631381 | 0.38054729 | 1.8859505 | 21 | 3 19.5 | 19.3 |
| 279889 2001 $QO_{92}$ | 17.3 | X | 138.77685 | 327.51687 | 78.25315 | 6.49133 | 0.2314439 | 0.27450866 | 2.3447616 | 21 | 3 21.2 | 20.8 |
| 279890 2001 $QP_{105}$ | 15.1 | X | 179.51174 | 145.70151 | 219.74242 | 16.77813 | 0.2174846 | 0.17297743 | 3.1901401 | 21 | 3 8.0 | 20.7 |
| 279891 2001 $QQ_{115}$ | 15.4 | X | 173.30458 | 80.24649 | 282.91501 | 5.80996 | 0.1607191 | 0.17498202 | 3.1657292 | 21 | 2 28.3 | 20.6 |
| 279892 2001 $QH_{134}$ | 15.7 | X | 237.90719 | 115.59917 | 227.20630 | 17.21429 | 0.1792930 | 0.18296645 | 3.0729470 | 21 | 3 29.3 | 20.9 |
| 279893 2001 $QZ_{136}$ | 16.6 | X | 206.50283 | 149.76562 | 221.93030 | 7.11762 | 0.3042967 | 0.27742380 | 2.3283070 | 21 | 3 31.1 | 20.9 |
| 279894 2001 $QD_{146}$ | 15.7 | X | 167.92470 | 200.91122 | 172.54381 | 13.74741 | 0.1043475 | 0.17531397 | 3.1617319 | 21 | 3 6.3 | 20.7 |
| 279895 2001 $QB_{152}$ | 16.4 | X | 197.22049 | 106.21138 | 254.68465 | 22.12391 | 0.0876753 | 0.37396022 | 1.9080325 | 21 | 2 9.4 | 19.3 |
| 279896 2001 $QH_{163}$ | 15.8 | X | 175.98623 | 213.76348 | 164.41196 | 17.19974 | 0.1984566 | 0.17752053 | 3.1354773 | 21 | 3 25.3 | 21.1 |
| 279897 2001 $QZ_{165}$ | 16.9 | X | 261.35818 | 294.43699 | 57.72369 | 3.81086 | 0.2027457 | 0.28629645 | 2.2799504 | 21 | 4 26.6 | 20.1 |
| 279898 2001 $QP_{174}$ | 15.4 | X | 178.20796 | 139.63955 | 240.44297 | 9.17397 | 0.1099079 | 0.17879896 | 3.1205135 | 21 | 3 20.9 | 20.4 |
| 279899 2001 $QY_{186}$ | 14.9 | X | 182.86078 | 107.06822 | 262.24130 | 16.38961 | 0.2090256 | 0.17647229 | 3.1478815 | 21 | 3 11.2 | 20.6 |
| 279900 2001 $QP_{205}$ | 15.2 | X | 149.91689 | 343.85257 | 26.34887 | 11.63758 | 0.1077848 | 0.17276441 | 3.1927619 | 21 | 2 18.9 | 20.2 |
| 279901 2001 $QW_{222}$ | 15.7 | X | 243.03844 | 169.75910 | 171.11423 | 12.88160 | 0.1693183 | 0.18422181 | 3.0589710 | 21 | 4 6.8 | 20.6 |
| 279902 2001 $QT_{223}$ | 16.2 | X | 288.09304 | 168.64069 | 149.66799 | 4.83340 | 0.2016558 | 0.18890976 | 3.0081521 | 21 | 4 21.0 | 20.5 |
| 279903 2001 $QD_{225}$ | 17.3 | X | 319.27621 | 150.01910 | 132.89008 | 5.04707 | 0.1868248 | 0.28772764 | 2.2723837 | 21 | 4 7.2 | 19.7 |
| 279904 2001 $QZ_{228}$ | 15.5 | X | 233.60157 | 123.24830 | 203.63529 | 9.84128 | 0.0795416 | 0.17956678 | 3.1116116 | 21 | 3 14.7 | 20.3 |
| 279905 2001 $QP_{229}$ | 17.5 | X | 240.90436 | 93.72874 | 238.65779 | 4.68575 | 0.1889073 | 0.28045457 | 2.3115025 | 21 | 3 11.2 | 21.2 |
| 279906 2001 $QD_{244}$ | 15.7 | X | 245.73325 | 316.30218 | 357.76870 | 9.61040 | 0.2229990 | 0.17924941 | 3.1152834 | 21 | 3 5.2 | 21.0 |
| 279907 2001 $QO_{249}$ | 16.9 | X | 260.49995 | 351.85995 | 12.99718 | 7.05012 | 0.1934947 | 0.28407568 | 2.2918174 | 21 | 5 11.2 | 20.3 |
| 279908 2001 $QW_{249}$ | 16.7 | X | 124.83153 | 247.59506 | 95.64371 | 7.78824 | 0.2765578 | 0.21590846 | 2.7518385 | 21 | — | — |
| 279909 2001 $QT_{281}$ | 15.1 | X | 168.71861 | 295.78100 | 80.01428 | 17.18575 | 0.2338335 | 0.17484022 | 3.1674406 | 21 | 3 25.8 | 20.8 |
| 279910 2001 $QO_{288}$ | 15.4 | X | 228.58552 | 70.99264 | 253.18893 | 11.28626 | 0.1442167 | 0.17793094 | 3.1306540 | 21 | 2 27.9 | 20.6 |
| 279911 2001 $QZ_{333}$ | 15.3 | X | 184.91460 | 144.08850 | 222.63994 | 16.15971 | 0.1639944 | 0.17767322 | 3.1336806 | 21 | 3 12.1 | 20.7 |
| 279912 2001 $RS_{1}$ | 15.8 | X | 175.96999 | 186.03772 | 176.38802 | 16.91949 | 0.2262842 | 0.17554472 | 3.1589605 | 21 | 3 5.7 | 21.3 |
| 279913 2001 $RT_{8}$ | 16.7 | X | 195.77910 | 126.57937 | 253.88505 | 5.87054 | 0.1236626 | 0.28061197 | 2.3106381 | 21 | 3 30.2 | 20.2 |
| 279914 2001 $RB_{9}$ | 14.9 | X | 153.56425 | 131.37968 | 228.23820 | 26.20192 | 0.2192928 | 0.17112999 | 3.2130585 | 21 | 2 5.0 | 20.7 |
| 279915 2001 $RF_{9}$ | 15.0 | X | 216.61158 | 98.18466 | 257.96135 | 24.64997 | 0.2291358 | 0.17917015 | 3.1162021 | 21 | 3 19.1 | 20.8 |
| 279916 2001 $RU_{16}$ | 17.8 | X | 263.47631 | 158.88691 | 168.78172 | 4.72290 | 0.2362413 | 0.28271612 | 2.2991589 | 21 | 3 24.9 | 21.4 |
| 279917 2001 $RU_{26}$ | 16.8 | X | 233.03019 | 341.96633 | 354.23023 | 5.88231 | 0.1280550 | 0.27980695 | 2.3150678 | 21 | 3 13.6 | 20.2 |
| 279918 2001 $RE_{30}$ | 16.6 | X | 96.39920 | 225.17410 | 158.80469 | 9.66358 | 0.2166877 | 0.21536579 | 2.7564592 | 21 | 1 5.1 | 20.1 |
| 279919 2001 $RV_{47}$ | 17.1 | X | 207.53545 | 199.27428 | 165.53230 | 25.39827 | 0.2664007 | 0.27746654 | 2.3280679 | 21 | 3 27.2 | 21.3 |
| 279920 2001 $RZ_{78}$ | 16.8 | X | 139.92945 | 193.74677 | 192.08865 | 13.24104 | 0.1629206 | 0.26927301 | 2.3750577 | 21 | 2 10.4 | 20.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 279921 2001 $RM_{82}$ | 15.3 | X | 210.54243 | 126.97594 | 218.14463 | 10.03852 | 0.1379599 | 0.17803067 | 3.1294847 | 21 | 3 10.7 | 20.5 |
| 279922 2001 $RU_{87}$ | 17.6 | X | 244.56002 | 169.02864 | 172.40530 | 1.31796 | 0.1905171 | 0.28083529 | 2.3094130 | 21 | 3 28.2 | 21.0 |
| 279923 2001 $RL_{104}$ | 17.0 | X | 122.79663 | 301.52947 | 75.14274 | 3.49760 | 0.2066578 | 0.26808649 | 2.3820604 | 21 | 1 19.1 | 19.8 |
| 279924 2001 $RL_{120}$ | 15.9 | X | 223.43054 | 249.35786 | 99.21950 | 2.28519 | 0.1805106 | 0.18062837 | 3.0994080 | 21 | 3 28.6 | 20.9 |
| 279925 2001 $RS_{145}$ | 15.9 | X | 254.52234 | 127.03934 | 188.80114 | 13.83212 | 0.1566354 | 0.18161543 | 3.0881678 | 21 | 3 17.2 | 20.7 |
| 279926 2001 $SC_{8}$ | 15.4 | X | 274.45480 | 135.01851 | 157.52029 | 10.30668 | 0.0891476 | 0.18118121 | 3.0930999 | 21 | 3 19.9 | 19.8 |
| 279927 2001 $SJ_{11}$ | 16.5 | X | 253.32432 | 3.51066 | 315.39174 | 6.46515 | 0.1319235 | 0.28004919 | 2.3137326 | 21 | 3 9.6 | 19.9 |
| 279928 2001 $SR_{13}$ | 17.5 | X | 320.19093 | 206.71295 | 170.03142 | 7.06879 | 0.1509675 | 0.29522292 | 2.2337574 | 21 | 9 14.1 | 18.8 |
| 279929 2001 $SX_{22}$ | 17.1 | X | 208.35268 | 166.13973 | 190.04714 | 6.47352 | 0.1504826 | 0.27727004 | 2.3291677 | 21 | 3 13.9 | 20.7 |
| 279930 2001 $SX_{26}$ | 17.4 | X | 248.55618 | 333.93481 | 5.64279 | 2.69049 | 0.2201730 | 0.28132234 | 2.3067467 | 21 | 3 27.4 | 20.8 |
| 279931 2001 $SK_{32}$ | 15.4 | X | 257.85756 | 121.14287 | 186.83830 | 26.24269 | 0.2021172 | 0.17939955 | 3.1135450 | 21 | 3 6.5 | 20.7 |
| 279932 2001 $SD_{37}$ | 17.0 | X | 156.66406 | 203.79093 | 173.57281 | 5.75274 | 0.2451829 | 0.27133124 | 2.3630315 | 21 | 2 27.7 | 20.6 |
| 279933 2001 $SE_{41}$ | 16.0 | X | 236.08045 | 149.02754 | 184.78260 | 17.28831 | 0.2059809 | 0.18062875 | 3.0994036 | 21 | 3 18.9 | 21.1 |
| 279934 2001 $SD_{42}$ | 16.1 | X | 196.04031 | 197.00706 | 149.20823 | 1.29438 | 0.1709398 | 0.17542081 | 3.1604480 | 21 | 3 2.9 | 21.3 |
| 279935 2001 $SZ_{44}$ | 17.2 | X | 357.75917 | 159.14560 | 164.16605 | 6.93823 | 0.1441394 | 0.29399735 | 2.2399609 | 21 | 9 9.3 | 18.8 |
| 279936 2001 $SV_{64}$ | 16.7 | X | 199.40760 | 177.38557 | 191.24886 | 8.25789 | 0.2646377 | 0.27595631 | 2.3365540 | 21 | 3 23.4 | 20.8 |
| 279937 2001 $SL_{74}$ | 15.8 | X | 205.38869 | 118.65231 | 236.84165 | 8.72245 | 0.2307952 | 0.17704650 | 3.1410715 | 21 | 3 17.1 | 21.3 |
| 279938 2001 $SJ_{78}$ | 15.9 | X | 197.61524 | 339.45621 | 4.20025 | 4.71862 | 0.1230166 | 0.17566052 | 3.1575721 | 21 | 3 1.7 | 20.9 |
| 279939 2001 $SF_{79}$ | 15.8 | X | 210.73990 | 180.76285 | 166.96967 | 10.33092 | 0.1872919 | 0.18084261 | 3.0969596 | 21 | 3 16.4 | 21.1 |
| 279940 2001 $SB_{84}$ | 16.9 | X | 58.82126 | 223.40155 | 191.82459 | 6.65441 | 0.1082421 | 0.26485625 | 2.4013893 | 21 | — | — |
| 279941 2001 $SR_{84}$ | 15.9 | X | 246.98163 | 83.64654 | 218.98213 | 4.45586 | 0.1149652 | 0.17855620 | 3.1233412 | 21 | 2 25.4 | 20.7 |
| 279942 2001 $SE_{103}$ | 17.5 | X | 155.75479 | 182.14089 | 198.17044 | 6.21362 | 0.1190233 | 0.27260774 | 2.3556491 | 21 | 2 16.8 | 20.8 |
| 279943 2001 $SO_{117}$ | 17.5 | X | 266.12123 | 77.27463 | 253.20739 | 4.62692 | 0.1944042 | 0.28376829 | 2.2934722 | 21 | 4 1.1 | 21.0 |
| 279944 2001 $SC_{123}$ | 16.4 | X | 133.92769 | 140.88313 | 259.80063 | 5.24025 | 0.1278442 | 0.27334884 | 2.3513894 | 21 | 2 18.2 | 19.5 |
| 279945 2001 $SP_{134}$ | 15.9 | X | 244.70927 | 141.17508 | 186.89562 | 16.79486 | 0.1875638 | 0.18054131 | 3.1004043 | 21 | 3 20.7 | 20.9 |
| 279946 2001 $SO_{136}$ | 16.4 | X | 211.66661 | 306.61834 | 194.71460 | 14.52083 | 0.1152068 | 0.24584976 | 2.5236136 | 21 | 9 26.3 | 20.0 |
| 279947 2001 $SG_{142}$ | 18.2 | X | 270.33215 | 100.44132 | 206.65357 | 4.84788 | 0.1841034 | 0.28149750 | 2.3057897 | 21 | 3 7.9 | 21.5 |
| 279948 2001 $SE_{149}$ | 16.5 | X | 211.47001 | 103.11381 | 235.04572 | 5.51211 | 0.1381579 | 0.27471141 | 2.3436077 | 21 | 2 20.7 | 20.2 |
| 279949 2001 $SJ_{157}$ | 15.9 | X | 230.31554 | 117.94003 | 219.71887 | 8.27900 | 0.2334580 | 0.17976553 | 3.1093178 | 21 | 3 15.8 | 21.4 |
| 279950 2001 $SE_{177}$ | 17.0 | X | 248.54693 | 218.53131 | 106.86571 | 5.21294 | 0.1726350 | 0.27868629 | 2.3212699 | 21 | 3 15.2 | 20.6 |
| 279951 2001 $SO_{179}$ | 17.0 | X | 239.64276 | 352.85928 | 44.74063 | 14.42521 | 0.2306834 | 0.28296248 | 2.2978243 | 21 | 5 30.2 | 20.7 |
| 279952 2001 $SQ_{186}$ | 17.8 | X | 223.55986 | 242.68332 | 87.93001 | 3.42027 | 0.2368767 | 0.27813756 | 2.3243220 | 21 | 2 25.3 | 21.7 |
| 279953 2001 $SH_{187}$ | 16.3 | X | 200.54966 | 189.78368 | 173.28737 | 1.19929 | 0.1762472 | 0.18003205 | 3.1062483 | 21 | 3 25.5 | 21.5 |
| 279954 2001 $SA_{197}$ | 17.3 | X | 197.60805 | 151.14476 | 181.66489 | 3.96919 | 0.0706732 | 0.27345268 | 2.3507941 | 21 | 1 30.2 | 20.5 |
| 279955 2001 $SM_{223}$ | 17.5 | X | 289.06506 | 289.28988 | 7.99722 | 5.96764 | 0.2304573 | 0.28277068 | 2.2988632 | 21 | 3 11.9 | 20.7 |
| 279956 2001 $SB_{225}$ | 17.7 | X | 250.46367 | 171.33885 | 162.12618 | 4.33161 | 0.2347449 | 0.28099225 | 2.3085528 | 21 | 3 21.2 | 21.4 |
| 279957 2001 $SM_{235}$ | 17.8 | X | 195.48405 | 177.11668 | 187.08213 | 0.85056 | 0.2015818 | 0.27521011 | 2.3407757 | 21 | 3 14.2 | 21.6 |
| 279958 2001 $SX_{235}$ | 15.7 | X | 194.70397 | 308.90642 | 51.42342 | 6.11142 | 0.2343077 | 0.17649258 | 3.1476402 | 21 | 3 20.7 | 21.2 |
| 279959 2001 $SG_{252}$ | 17.6 | X | 282.26106 | 87.53037 | 197.04088 | 20.55752 | 0.0875142 | 0.37608487 | 1.9008396 | 21 | 2 10.7 | 20.3 |
| 279960 2001 $SK_{267}$ | 16.2 | X | 189.19573 | 235.94504 | 106.61549 | 2.39417 | 0.1391004 | 0.17191176 | 3.2033102 | 21 | 2 21.4 | 21.4 |
| 279961 2001 $SK_{305}$ | 15.6 | X | 208.49203 | 99.28121 | 212.39933 | 5.50900 | 0.0851243 | 0.17110286 | 3.2133981 | 21 | 1 31.9 | 20.6 |
| 279962 2001 $SD_{312}$ | 17.1 | X | 257.27330 | 46.48508 | 255.53265 | 5.71802 | 0.1238731 | 0.27774400 | 2.3265172 | 21 | 2 20.3 | 20.6 |
| 279963 2001 $SF_{314}$ | 17.0 | X | 265.86217 | 53.06448 | 248.89912 | 6.33665 | 0.1158334 | 0.27981366 | 2.3150308 | 21 | 3 1.4 | 20.4 |
| 279964 2001 $SZ_{325}$ | 17.1 | X | 254.72480 | 57.85810 | 266.55612 | 3.27505 | 0.1626223 | 0.28042205 | 2.3116812 | 21 | 3 16.2 | 20.7 |
| 279965 2001 $SP_{332}$ | 15.6 | X | 210.81994 | 156.18864 | 181.47338 | 12.20564 | 0.0647036 | 0.17619454 | 3.1511888 | 21 | 3 5.6 | 20.5 |
| 279966 2001 $TD_{8}$ | 16.9 | X | 80.27178 | 315.10732 | 107.51403 | 7.76670 | 0.1224303 | 0.26474071 | 2.4020879 | 21 | 1 3.5 | 19.3 |
| 279967 2001 $TA_{14}$ | 17.0 | X | 238.97572 | 228.34062 | 63.33939 | 7.69658 | 0.1026482 | 0.27267134 | 2.3552827 | 21 | 1 25.7 | 20.6 |
| 279968 2001 $TC_{25}$ | 17.3 | X | 219.10195 | 111.85319 | 234.87395 | 4.66951 | 0.1648758 | 0.27685932 | 2.3314706 | 21 | 3 10.7 | 21.0 |
| 279969 2001 $TF_{28}$ | 16.5 | X | 256.93774 | 316.63039 | 348.67683 | 7.21709 | 0.1894400 | 0.27655916 | 2.3331573 | 21 | 2 23.5 | 20.2 |
| 279970 2001 $TZ_{54}$ | 17.2 | X | 303.87409 | 4.24439 | 0.88405 | 6.55710 | 0.1851459 | 0.29125372 | 2.2540059 | 21 | 7 17.2 | 19.4 |
| 279971 2001 $TW_{55}$ | 17.7 | X | 263.80887 | 150.21586 | 169.69745 | 4.19749 | 0.2673978 | 0.28174639 | 2.3044315 | 21 | 3 12.8 | 21.5 |
| 279972 2001 $TX_{58}$ | 15.5 | X | 203.95668 | 129.27755 | 206.96878 | 16.07340 | 0.1637448 | 0.17387951 | 3.1790970 | 21 | 2 21.8 | 21.0 |
| 279973 2001 $TM_{70}$ | 17.1 | X | 130.51534 | 162.95167 | 210.97023 | 2.45750 | 0.1758742 | 0.26680424 | 2.3896863 | 21 | 1 19.7 | 20.1 |
| 279974 2001 $TB_{84}$ | 16.0 | X | 156.39094 | 223.32082 | 207.22060 | 14.55945 | 0.0692131 | 0.22876296 | 2.6477618 | 21 | 4 26.6 | 19.7 |
| 279975 2001 $TZ_{94}$ | 16.9 | X | 185.63247 | 139.07977 | 223.19424 | 8.20217 | 0.2206510 | 0.27367878 | 2.3494992 | 21 | 3 1.2 | 20.9 |
| 279976 2001 $TQ_{103}$ | 18.0 | X | 242.19677 | 262.63608 | 91.47673 | 6.58848 | 0.3148391 | 0.28228529 | 2.3014978 | 21 | 4 7.6 | 22.1 |
| 279977 2001 $TU_{104}$ | 17.0 | X | 279.50629 | 288.17202 | 7.99828 | 4.31822 | 0.2041861 | 0.28001733 | 2.3139081 | 21 | 3 3.9 | 20.4 |
| 279978 2001 $TT_{121}$ | 17.5 | X | 291.63904 | 40.22143 | 230.75096 | 20.79932 | 0.0345560 | 0.37579072 | 1.9018314 | 21 | 2 5.4 | 20.1 |
| 279979 2001 $TS_{134}$ | 16.8 | X | 277.58081 | 127.51256 | 292.19528 | 6.39612 | 0.1382427 | 0.29316501 | 2.2441986 | 21 | 8 29.6 | 19.3 |
| 279980 2001 $TR_{153}$ | 15.2 | X | 204.21164 | 67.00450 | 258.63289 | 9.98906 | 0.1484719 | 0.17272356 | 3.1932652 | 21 | 2 10.4 | 20.6 |
| 279981 2001 $TJ_{167}$ | 16.8 | X | 192.26597 | 34.66600 | 26.08485 | 24.81862 | 0.2100811 | 0.27878675 | 2.3207123 | 21 | 5 14.2 | 21.0 |
| 279982 2001 $TE_{171}$ | 15.4 | X | 249.03105 | 267.49625 | 55.64516 | 25.99627 | 0.2835232 | 0.17921235 | 3.1157128 | 21 | 3 27.8 | 21.2 |
| 279983 2001 $TF_{176}$ | 16.3 | X | 149.60610 | 206.90336 | 202.03234 | 13.54357 | 0.0779958 | 0.22454279 | 2.6808343 | 21 | 3 20.7 | 20.2 |
| 279984 2001 $TA_{188}$ | 16.9 | X | 127.66547 | 138.13686 | 241.31747 | 5.80124 | 0.1495115 | 0.26579772 | 2.3957153 | 21 | 1 18.8 | 19.9 |
| 279985 2001 $TJ_{231}$ | 17.6 | X | 209.23911 | 8.29351 | 1.93462 | 4.68150 | 0.2435147 | 0.27716105 | 2.3297782 | 21 | 4 1.6 | 21.6 |
| 279986 2001 $TK_{258}$ | 16.9 | X | 151.65597 | 321.74009 | 53.37308 | 7.34574 | 0.1355159 | 0.27085931 | 2.3657755 | 21 | 2 12.9 | 20.3 |
| 279987 2001 $UP_{15}$ | 15.3 | X | 279.04011 | 182.39711 | 226.64645 | 11.33288 | 0.1178675 | 0.18980395 | 2.9986968 | 21 | 8 10.8 | 19.7 |
| 279988 2001 $UK_{26}$ | 15.6 | X | 173.24019 | 77.99495 | 300.89012 | 7.03751 | 0.2981541 | 0.17412423 | 3.1761177 | 21 | 3 22.4 | 21.4 |
| 279989 2001 $UH_{37}$ | 16.2 | X | 123.00384 | 144.33216 | 172.70934 | 13.75721 | 0.2159853 | 0.26050231 | 2.4280726 | 21 | — | — |
| 279990 2001 $UN_{55}$ | 16.0 | X | 134.62210 | 135.62823 | 229.09631 | 10.93233 | 0.1650647 | 0.21750846 | 2.7383268 | 21 | 1 18.5 | 20.2 |
| 279991 2001 $UY_{58}$ | 16.9 | X | 272.29016 | 283.11123 | 19.41656 | 7.07556 | 0.2420575 | 0.27984523 | 2.3148567 | 21 | 3 3.1 | 20.6 |
| 279992 2001 $US_{75}$ | 16.2 | X | 114.55555 | 329.40966 | 54.12785 | 15.64730 | 0.1474432 | 0.26408288 | 2.4060753 | 21 | 1 9.0 | 19.3 |
| 279993 2001 $UP_{88}$ | 17.7 | X | 269.86299 | 101.09102 | 207.83134 | 2.76009 | 0.2499511 | 0.27916407 | 2.3186206 | 21 | 3 4.9 | 21.5 |
| 279994 2001 $UE_{95}$ | 16.4 | X | 152.59873 | 112.15209 | 248.91233 | 5.83147 | 0.1273823 | 0.26723315 | 2.3871287 | 21 | 1 21.7 | 19.7 |
| 279995 2001 $UE_{103}$ | 17.0 | X | 119.14005 | 325.65042 | 76.43158 | 3.49285 | 0.1902608 | 0.26794575 | 2.3828944 | 21 | 2 15.6 | 19.9 |
| 279996 2001 $US_{104}$ | 16.2 | X | 211.48928 | 310.78524 | 45.68831 | 10.72635 | 0.2391443 | 0.17746814 | 3.1360944 | 21 | 3 29.7 | 21.7 |
| 279997 2001 $UZ_{107}$ | 17.6 | X | 207.57638 | 222.29661 | 115.87830 | 1.61607 | 0.2331505 | 0.27324928 | 2.3519606 | 21 | 2 21.6 | 21.6 |
| 279998 2001 $UX_{147}$ | 16.8 | X | 238.70471 | 110.67312 | 182.81255 | 4.63825 | 0.1289718 | 0.27126601 | 2.3634103 | 21 | 1 24.2 | 20.5 |
| 279999 2001 $UD_{151}$ | 17.0 | X | 140.66328 | 314.17084 | 68.47892 | 7.44662 | 0.1441367 | 0.26711541 | 2.3878301 | 21 | 2 11.4 | 20.3 |
| 280000 2001 $UO_{152}$ | 16.0 | X | 104.35682 | 139.00983 | 221.80625 | 11.38092 | 0.2225062 | 0.20970459 | 2.8058477 | 21 | — | — |