| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200001 2007 $JB_{42}$ | 14.7 | X | 103.80245 | 98.31537 | 153.13736 | 20.66644 | 0.1419999 | 0.17666897 | 3.1455447 | 20 | 10 31.2 | 19.9 |
| 200002 Hehe | 16.7 | X | 106.81023 | 198.80580 | 116.58980 | 6.95952 | 0.1589243 | 0.26340735 | 2.4101873 | 20 | — | — |
| 200003 Aokeda | 15.0 | X | 153.83588 | 12.80533 | 185.38812 | 13.47258 | 0.0601191 | 0.17382376 | 3.1797767 | 20 | 10 8.9 | 19.7 |
| 200004 2007 $KY_{6}$ | 16.9 | X | 235.45520 | 250.83741 | 348.54545 | 3.45155 | 0.1993852 | 0.27593493 | 2.3366747 | 20 | — | — |
| 200005 2007 $KT_{7}$ | 16.5 | X | 293.61840 | 335.23382 | 283.23970 | 7.92947 | 0.2368943 | 0.21561053 | 2.7543729 | 20 | 2 9.6 | 20.7 |
| 200006 2007 $LG$ | 16.4 | X | 331.72402 | 177.89099 | 147.00295 | 2.96052 | 0.1354349 | 0.23424558 | 2.6062843 | 20 | 7 28.2 | 19.1 |
| 200007 2007 $LD_{3}$ | 16.6 | X | 163.42619 | 46.39469 | 215.76043 | 6.20191 | 0.0777352 | 0.26440699 | 2.4041086 | 20 | — | — |
| 200008 2007 $LT_{4}$ | 15.2 | X | 103.85232 | 224.03853 | 87.00746 | 10.66675 | 0.1571208 | 0.18369114 | 3.0648595 | 20 | — | — |
| 200009 2007 $LW_{4}$ | 17.1 | X | 207.69492 | 53.97976 | 176.11978 | 2.37610 | 0.1670655 | 0.26886549 | 2.3774570 | 20 | — | — |
| 200010 2007 $LO_{7}$ | 16.1 | X | 254.44996 | 72.41435 | 209.34679 | 7.29835 | 0.1469932 | 0.21110486 | 2.7934264 | 20 | 2 8.4 | 20.6 |
| 200011 2007 $LC_{9}$ | 15.8 | X | 145.81583 | 179.05776 | 116.84664 | 3.89598 | 0.1284655 | 0.19034424 | 2.9930195 | 20 | — | — |
| 200012 2007 $LK_{20}$ | 16.5 | X | 231.71128 | 183.54464 | 170.04976 | 5.23097 | 0.1288369 | 0.22057417 | 2.7128948 | 20 | 4 17.9 | 20.7 |
| 200013 2007 $LC_{29}$ | 15.7 | X | 334.17813 | 239.57306 | 218.51718 | 4.88803 | 0.0113186 | 0.18119630 | 3.0929282 | 20 | — | — |
| 200014 2007 $MH_{3}$ | 16.8 | X | 42.59778 | 142.28882 | 114.80972 | 6.34252 | 0.2888424 | 0.23416110 | 2.6069111 | 20 | 9 26.1 | 20.2 |
| 200015 2007 $MN_{5}$ | 15.7 | X | 106.66645 | 188.12968 | 113.77242 | 4.58930 | 0.1683966 | 0.17644318 | 3.1482277 | 20 | 12 26.9 | 20.9 |
| 200016 2007 $MN_{11}$ | 15.2 | X | 110.50184 | 340.95150 | 284.01745 | 2.27439 | 0.1309020 | 0.17026247 | 3.2239633 | 20 | 11 14.5 | 20.3 |
| 200017 2007 $MC_{12}$ | 16.4 | X | 91.80088 | 258.17352 | 183.68163 | 1.80636 | 0.0426187 | 0.20190212 | 2.8776775 | 20 | 2 28.9 | 20.4 |
| 200018 2007 $MH_{16}$ | 15.9 | X | 80.03308 | 192.36579 | 80.03628 | 6.48609 | 0.1794733 | 0.24204128 | 2.5500170 | 20 | 11 11.4 | 19.7 |
| 200019 2007 $MG_{25}$ | 16.0 | X | 302.20070 | 273.04620 | 304.03380 | 6.71443 | 0.1541384 | 0.20310991 | 2.8662582 | 20 | 1 15.2 | 19.9 |
| 200020 Cadi Ayyad | 14.9 | X | 95.96328 | 155.61337 | 146.67371 | 17.34282 | 0.0971907 | 0.17291468 | 3.1909118 | 20 | 12 13.9 | 20.0 |
| 200021 2007 $NZ_{6}$ | 15.0 | X | 87.03748 | 285.32077 | 79.96502 | 13.59794 | 0.1226081 | 0.18237058 | 3.0796370 | 20 | — | — |
| 200022 2007 $OW_{5}$ | 12.5 | X | 312.58078 | 2.05111 | 49.28960 | 7.87568 | 0.1091871 | 0.08133385 | 5.2758019 | 20 | 10 1.1 | 19.0 |
| 200023 2007 $OU_{6}$ | 12.3 | X | 5.73977 | 197.25929 | 172.95663 | 16.02458 | 0.0828296 | 0.08190572 | 5.2512162 | 20 | 10 27.2 | 18.9 |
| 200024 2007 $OO_{7}$ | 12.8 | X | 311.84871 | 204.61074 | 202.58433 | 6.99705 | 0.0863242 | 0.08089270 | 5.2949657 | 20 | 9 23.6 | 19.5 |
| 200025 Cloud Gate | 15.3 | X | 80.05976 | 296.56874 | 65.37032 | 5.77498 | 0.0721246 | 0.17639371 | 3.1488163 | 20 | — | — |
| 200026 2007 $PD_{2}$ | 15.5 | X | 76.55688 | 306.39191 | 30.86237 | 2.52788 | 0.0741749 | 0.17198916 | 3.2023490 | 20 | 12 29.6 | 20.1 |
| 200027 2007 $PM_{27}$ | 13.1 | X | 0.71856 | 177.95498 | 189.64474 | 10.16696 | 0.0365708 | 0.08271461 | 5.2169246 | 20 | 10 14.3 | 19.8 |
| 200028 2007 $PW_{28}$ | 12.5 | X | 12.22979 | 110.32255 | 232.80706 | 9.78882 | 0.0923393 | 0.08284816 | 5.2113169 | 20 | 9 30.6 | 19.0 |
| 200029 2007 $PH_{37}$ | 11.8 | X | 313.58263 | 95.02589 | 317.30991 | 19.99424 | 0.0737080 | 0.08242736 | 5.2290380 | 20 | 9 24.1 | 18.7 |
| 200030 2007 $PD_{39}$ | 15.1 | X | 128.78644 | 69.12694 | 223.24717 | 15.70497 | 0.1871438 | 0.17647291 | 3.1478741 | 20 | — | — |
| 200031 2007 $PQ_{43}$ | 15.1 | X | 235.98371 | 303.52034 | 312.01119 | 9.29598 | 0.0635811 | 0.18841425 | 3.0134238 | 20 | 1 2.1 | 19.6 |
| 200032 2007 $PU_{43}$ | 12.9 | X | 338.49209 | 109.80915 | 280.84525 | 6.08698 | 0.0675810 | 0.08139905 | 5.2729845 | 20 | 10 8.8 | 19.6 |
| 200033 Newtaipei | 14.7 | X | 248.58467 | 210.10810 | 332.42925 | 16.84072 | 0.1741683 | 0.18009849 | 3.1054842 | 20 | 12 20.3 | 19.3 |
| 200034 2007 $RG_{30}$ | 14.9 | X | 350.81137 | 267.59467 | 158.71006 | 22.45376 | 0.0679791 | 0.17041120 | 3.2220872 | 20 | 12 29.4 | 19.6 |
| 200035 2007 $RZ_{71}$ | 12.9 | X | 310.98314 | 278.94487 | 154.48797 | 12.63470 | 0.0622558 | 0.08215408 | 5.2406273 | 20 | 10 28.7 | 19.7 |
| 200036 2007 $RH_{77}$ | 13.2 | X | 211.51062 | 180.75748 | 332.74781 | 3.34142 | 0.0418298 | 0.08150843 | 5.2682661 | 20 | 10 4.4 | 20.3 |
| 200037 2007 $RW_{105}$ | 13.0 | X | 348.43869 | 16.20588 | 34.99699 | 4.41268 | 0.0693453 | 0.08225346 | 5.2364055 | 20 | 11 15.6 | 19.6 |
| 200038 2007 $RZ_{130}$ | 16.3 | X | 165.71341 | 113.30300 | 323.58557 | 1.04166 | 0.0257374 | 0.20436565 | 2.8545048 | 20 | 5 22.3 | 20.2 |
| 200039 2007 $RY_{156}$ | 15.3 | X | 212.39031 | 6.08530 | 113.60410 | 1.55060 | 0.0113724 | 0.15243803 | 3.4706208 | 20 | 9 9.7 | 20.1 |
| 200040 2007 $RR_{162}$ | 14.5 | X | 149.49513 | 252.86679 | 176.92221 | 12.10118 | 0.1210888 | 0.12562465 | 3.9483847 | 20 | 5 5.2 | 20.6 |
| 200041 2007 $RY_{216}$ | 16.1 | X | 236.17073 | 287.27206 | 142.55243 | 2.60885 | 0.1805819 | 0.21645632 | 2.7471932 | 20 | 7 22.5 | 20.2 |
| 200042 2007 $TE_{32}$ | 13.2 | X | 276.83956 | 289.44828 | 185.12689 | 3.62278 | 0.0432085 | 0.08469151 | 5.1354220 | 20 | 11 2.8 | 20.0 |
| 200043 2007 $TU_{73}$ | 14.6 | X | 198.05635 | 154.24200 | 259.92692 | 5.35054 | 0.2698805 | 0.12498908 | 3.9617585 | 20 | 5 25.4 | 21.3 |
| 200044 2007 $TR_{291}$ | 15.9 | X | 322.65655 | 242.53581 | 103.00485 | 12.38071 | 0.0755069 | 0.22062477 | 2.7124799 | 20 | 8 16.9 | 19.3 |
| 200045 2007 $TT_{326}$ | 15.7 | X | 121.62155 | 277.98286 | 287.38985 | 3.77550 | 0.0969403 | 0.21915920 | 2.7245592 | 20 | 9 17.9 | 19.9 |
| 200046 2007 $TP_{371}$ | 12.6 | X | 290.33584 | 36.35603 | 49.68752 | 4.85974 | 0.0204397 | 0.08136861 | 5.2742997 | 20 | 10 19.9 | 19.4 |
| 200047 2007 $UB_{130}$ | 15.5 | X | 158.33342 | 12.94363 | 236.91383 | 4.03218 | 0.1260658 | 0.17651334 | 3.1473934 | 20 | 12 11.8 | 20.5 |
| 200048 2008 $MQ_{3}$ | 17.3 | X | 326.87482 | 101.11012 | 134.12576 | 5.32417 | 0.1239656 | 0.31167013 | 2.1544641 | 20 | 3 2.0 | 19.3 |
| 200049 2008 $NM_{2}$ | 16.9 | X | 64.82892 | 337.06910 | 316.59271 | 1.82087 | 0.2052314 | 0.26300335 | 2.4126549 | 20 | 11 27.1 | 20.3 |
| 200050 2008 $OL$ | 15.6 | X | 75.86258 | 5.21693 | 299.13394 | 14.68801 | 0.2628121 | 0.26595598 | 2.3947649 | 20 | 12 26.7 | 19.7 |
| 200051 2008 $OE_{10}$ | 12.7 | X | 318.84628 | 82.48689 | 302.24401 | 5.64708 | 0.1194213 | 0.08300532 | 5.2047367 | 20 | 9 3.7 | 19.2 |
| 200052 Sinigaglia | 16.4 | X | 34.77614 | 134.29379 | 192.01703 | 5.76012 | 0.1572876 | 0.26075373 | 2.4265116 | 20 | 11 29.4 | 19.5 |
| 200053 2008 $PK_{6}$ | 17.5 | X | 58.21747 | 66.54494 | 232.45592 | 2.04997 | 0.2245194 | 0.26062906 | 2.4272853 | 20 | 11 29.3 | 20.9 |
| 200054 2008 $PV_{8}$ | 15.4 | X | 25.13209 | 209.83868 | 123.82897 | 2.94501 | 0.1831893 | 0.17262621 | 3.1944656 | 20 | 11 8.9 | 19.4 |
| 200055 2008 $PO_{9}$ | 16.0 | X | 54.21998 | 356.89079 | 323.85473 | 5.48355 | 0.2344461 | 0.26297058 | 2.4128553 | 20 | 12 23.9 | 19.7 |
| 200056 2008 $PB_{15}$ | 16.0 | X | 18.48013 | 40.73990 | 319.35591 | 8.62820 | 0.0881177 | 0.17871230 | 3.1215222 | 20 | 11 17.3 | 20.2 |
| 200057 2008 $PT_{16}$ | 12.6 | X | 332.50853 | 197.15604 | 174.77413 | 24.71948 | 0.1093907 | 0.08384822 | 5.1697970 | 20 | 9 10.4 | 18.9 |
| 200058 2008 $QA_{4}$ | 16.1 | X | 195.45958 | 135.15439 | 206.16613 | 3.84124 | 0.0816311 | 0.21127431 | 2.7919326 | 20 | 2 25.7 | 20.3 |
| 200059 2008 $QZ_{7}$ | 16.1 | X | 318.18229 | 124.28640 | 154.50714 | 11.94319 | 0.1330099 | 0.23185649 | 2.6241573 | 20 | 4 30.3 | 19.4 |
| 200060 2008 $QD_{8}$ | 17.2 | X | 111.82761 | 133.24048 | 148.85602 | 2.49146 | 0.1998980 | 0.26915181 | 2.3757706 | 20 | 12 25.5 | 21.2 |
| 200061 2008 $QQ_{8}$ | 15.6 | X | 27.58382 | 31.13094 | 336.57846 | 9.17510 | 0.0794124 | 0.18009947 | 3.1054730 | 20 | 12 9.6 | 19.9 |
| 200062 2008 $QT_{16}$ | 17.4 | X | 79.91323 | 135.09126 | 196.41834 | 1.63467 | 0.1986375 | 0.26832327 | 2.3806588 | 20 | — | — |
| 200063 2008 $QX_{25}$ | 17.3 | X | 87.49454 | 212.91025 | 133.18676 | 5.35244 | 0.1024156 | 0.27369951 | 2.3493806 | 20 | — | — |
| 200064 2008 $RZ_{10}$ | 16.1 | X | 110.13935 | 161.39958 | 162.55921 | 8.42161 | 0.1712579 | 0.18850752 | 3.0124297 | 20 | — | — |
| 200065 2805 $P–L$ | 15.8 | X | 54.71606 | 183.07026 | 188.35723 | 10.76307 | 0.1316760 | 0.18405721 | 3.0607944 | 20 | — | — |
| 200066 2836 $P–L$ | 16.6 | X | 248.33085 | 237.91671 | 144.52408 | 2.55011 | 0.2467893 | 0.22657862 | 2.6647518 | 20 | 5 29.1 | 20.9 |
| 200067 4133 $P–L$ | 16.4 | X | 133.10249 | 327.34019 | 352.10251 | 6.56653 | 0.1304739 | 0.26865441 | 2.3787021 | 20 | — | — |
| 200068 4310 $P–L$ | 15.2 | X | 61.59456 | 13.47355 | 1.48143 | 8.92265 | 0.1382613 | 0.18466540 | 3.0540702 | 20 | — | — |
| 200069 Alastor | 12.6 | X | 313.88869 | 62.43707 | 341.34264 | 6.15001 | 0.0675575 | 0.08006395 | 5.3314421 | 20 | 9 23.8 | 19.4 |
| 200070 2090 $T–1$ | 16.3 | X | 154.65345 | 316.89907 | 179.87676 | 7.97147 | 0.3107221 | 0.22739040 | 2.6584059 | 20 | 8 1.3 | 21.3 |
| 200071 2051 $T–2$ | 16.4 | X | 235.63426 | 330.59017 | 359.55604 | 5.33200 | 0.3070436 | 0.22426756 | 2.6830272 | 20 | 3 12.4 | 21.0 |
| 200072 2132 $T–2$ | 15.2 | X | 65.03485 | 236.25007 | 188.80330 | 11.74986 | 0.0460495 | 0.19707928 | 2.9244357 | 20 | 1 4.4 | 19.3 |
| 200073 2190 $T–2$ | 16.8 | X | 145.49395 | 169.15925 | 193.19282 | 7.00056 | 0.2783576 | 0.28293844 | 2.2979545 | 20 | 2 8.9 | 20.5 |
| 200074 2194 $T–2$ | 16.1 | X | 257.29595 | 350.86727 | 13.64037 | 11.28106 | 0.1620434 | 0.22629446 | 2.6669821 | 20 | 5 21.3 | 20.1 |
| 200075 3119 $T–2$ | 16.5 | X | 187.13718 | 254.33724 | 22.93675 | 9.95701 | 0.2201136 | 0.28193713 | 2.3033921 | 20 | — | — |
| 200076 5009 $T–2$ | 15.9 | X | 263.30188 | 23.07267 | 333.18201 | 13.69412 | 0.2001679 | 0.22646564 | 2.6656380 | 20 | 5 10.3 | 20.2 |
| 200077 5134 $T–2$ | 15.9 | X | 278.01213 | 15.44499 | 317.83837 | 8.35478 | 0.1208351 | 0.22605822 | 2.6688399 | 20 | 5 11.3 | 19.6 |
| 200078 1028 $T–3$ | 15.3 | X | 88.32191 | 90.19368 | 288.58162 | 8.03142 | 0.1047084 | 0.19055884 | 2.9907721 | 20 | — | — |
| 200079 1138 $T–3$ | 15.8 | X | 288.27035 | 304.79872 | 359.20684 | 16.02471 | 0.1467497 | 0.22282402 | 2.6946026 | 20 | 4 10.3 | 19.7 |
| 200080 2436 $T–3$ | 16.5 | X | 53.68087 | 112.26124 | 247.20593 | 3.84082 | 0.1205703 | 0.25668085 | 2.4521126 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200081 2674 *T–3* | 16.1 | X | 141.31951 | 227.14011 | 207.60930 | 4.26288 | 0.0942872 | 0.22031195 | 2.7150470 | 20 | 4 25.7 | 20.0 |
| 200082 4022 *T–3* | 15.0 | X | 126.35702 | 282.31288 | 50.54672 | 9.00133 | 0.2287800 | 0.19085143 | 2.9877146 | 20 | — | — |
| 200083 5037 *T–3* | 15.7 | X | 81.74154 | 273.38170 | 135.86665 | 9.21231 | 0.2047027 | 0.19170000 | 2.9788912 | 20 | 1 30.8 | 19.5 |
| 200084 1981 $EH_{29}$ | 17.2 | X | 343.67108 | 286.89133 | 302.34852 | 3.82224 | 0.1815602 | 0.27800107 | 2.3250827 | 20 | 3 15.3 | 19.2 |
| 200085 1991 $RR_{19}$ | 16.5 | X | 343.40936 | 85.91266 | 278.52457 | 4.02176 | 0.3130248 | 0.23903992 | 2.5713179 | 20 | 11 7.9 | 18.0 |
| 200086 1992 $QS_{2}$ | 15.8 | X | 93.38271 | 205.66503 | 202.74456 | 8.15454 | 0.1794561 | 0.19103847 | 2.9857641 | 20 | 2 8.3 | 20.0 |
| 200087 1992 $SX_{4}$ | 16.4 | X | 340.94794 | 40.25366 | 122.36298 | 3.23458 | 0.1189501 | 0.26241626 | 2.4162520 | 20 | — | — |
| 200088 1993 $BD_{12}$ | 16.1 | X | 254.87245 | 115.58348 | 320.25486 | 9.38993 | 0.1259612 | 0.23767327 | 2.5811654 | 20 | 8 29.6 | 19.4 |
| 200089 1993 $FY_{9}$ | 16.6 | X | 150.12624 | 57.39516 | 122.73654 | 2.87833 | 0.0944283 | 0.23227514 | 2.6210033 | 20 | 9 20.9 | 20.4 |
| 200090 1993 $TH_{36}$ | 15.9 | X | 213.58914 | 354.79269 | 49.75120 | 5.58007 | 0.1163373 | 0.20890155 | 2.8130337 | 20 | 6 1.8 | 20.1 |
| 200091 1994 $AD_{8}$ | 16.1 | X | 247.71378 | 78.56757 | 122.32557 | 7.52870 | 0.0542324 | 0.25830616 | 2.4418156 | 20 | — | — |
| 200092 1994 $JE_{5}$ | 16.1 | X | 13.41740 | 254.83638 | 200.93326 | 2.20396 | 0.1050470 | 0.25320790 | 2.4744834 | 20 | — | — |
| 200093 1994 $RJ_{26}$ | 17.4 | X | 121.20584 | 127.23616 | 239.71918 | 3.03926 | 0.1377509 | 0.28296757 | 2.2977967 | 20 | 1 2.8 | 20.0 |
| 200094 1994 $SA_{12}$ | 16.3 | X | 171.87187 | 195.93779 | 176.30766 | 4.49764 | 0.0889924 | 0.21085860 | 2.7956009 | 20 | 3 11.3 | 20.6 |
| 200095 1994 $SY_{12}$ | 17.2 | X | 145.49428 | 40.16763 | 37.96013 | 2.99027 | 0.0869861 | 0.29093450 | 2.2556544 | 20 | 5 1.5 | 19.9 |
| 200096 1994 $TM_{8}$ | 16.2 | X | 176.82244 | 9.07765 | 30.27823 | 4.69966 | 0.0768541 | 0.21384544 | 2.7695086 | 20 | 4 18.8 | 20.4 |
| 200097 1994 $UO_{6}$ | 16.3 | X | 281.64634 | 77.21415 | 257.44042 | 3.37857 | 0.1176807 | 0.21776657 | 2.7361626 | 20 | 5 21.4 | 19.8 |
| 200098 1995 $BB_{5}$ | 17.6 | X | 318.96393 | 42.77462 | 119.38900 | 2.00615 | 0.1185808 | 0.27146689 | 2.3622443 | 20 | — | — |
| 200099 1995 $DG_{14}$ | 15.6 | X | 99.69912 | 267.73016 | 179.60679 | 10.04122 | 0.0848810 | 0.19974452 | 2.8983632 | 20 | 3 23.8 | 19.4 |
| 200100 1995 $HG_{5}$ | 14.9 | X | 80.79691 | 240.12817 | 94.33343 | 11.19222 | 0.2177036 | 0.17395036 | 3.1782337 | 20 | — | — |
| 200101 1995 $MJ_{7}$ | 15.1 | X | 357.88157 | 206.96953 | 189.84016 | 9.34066 | 0.0737062 | 0.17441384 | 3.1726008 | 20 | 12 4.9 | 19.4 |
| 200102 1995 $QH_{3}$ | 16.0 | X | 329.74965 | 79.03510 | 280.38809 | 4.55390 | 0.1341401 | 0.23666025 | 2.5885258 | 20 | 9 12.9 | 18.7 |
| 200103 1995 $QP_{16}$ | 15.6 | X | 86.01911 | 95.04876 | 183.57702 | 7.15820 | 0.1899548 | 0.24496070 | 2.5297160 | 20 | 11 25.9 | 19.7 |
| 200104 1995 *SD* | 15.9 | X | 351.02170 | 302.15697 | 46.91619 | 4.17180 | 0.1704814 | 0.23807802 | 2.5782390 | 20 | 10 16.9 | 18.4 |
| 200105 1995 $SO_{24}$ | 17.1 | X | 212.23119 | 56.51348 | 33.18846 | 4.33330 | 0.1021199 | 0.23090201 | 2.6313841 | 20 | 8 1.9 | 20.9 |
| 200106 1995 $SK_{67}$ | 17.2 | X | 261.94720 | 35.90108 | 337.41807 | 2.92845 | 0.1242911 | 0.23032140 | 2.6358044 | 20 | 6 15.9 | 20.8 |
| 200107 1995 $SG_{78}$ | 16.3 | X | 183.78957 | 48.90351 | 70.41941 | 2.19040 | 0.0535157 | 0.23163676 | 2.6258167 | 20 | 8 10.9 | 19.9 |
| 200108 1995 $UE_{39}$ | 16.7 | X | 299.80898 | 84.97159 | 356.22841 | 1.81963 | 0.1376727 | 0.23879732 | 2.5730591 | 20 | 11 17.1 | 19.1 |
| 200109 1995 $UF_{43}$ | 16.8 | X | 250.31405 | 346.66353 | 25.35409 | 5.27569 | 0.0729151 | 0.22663192 | 2.6643340 | 20 | 6 5.9 | 20.5 |
| 200110 1995 $UM_{50}$ | 17.1 | X | 56.29140 | 246.26911 | 4.43459 | 3.89764 | 0.0683414 | 0.23085568 | 2.6317361 | 20 | 8 29.7 | 20.4 |
| 200111 1995 $UO_{56}$ | 17.7 | X | 227.58714 | 207.01612 | 102.03234 | 2.76534 | 0.1057645 | 0.29669527 | 2.2263613 | 20 | 2 11.5 | 20.7 |
| 200112 1995 $UP_{57}$ | 16.5 | X | 202.22448 | 173.44595 | 343.53821 | 4.40566 | 0.0645004 | 0.23858551 | 2.5745816 | 20 | 10 18.9 | 20.0 |
| 200113 1995 $UL_{69}$ | 17.6 | X | 347.68759 | 335.10741 | 293.61869 | 2.29764 | 0.0707716 | 0.30589392 | 2.1815014 | 20 | 6 7.7 | 19.6 |
| 200114 1995 $VN_{15}$ | 16.6 | X | 148.63810 | 178.34901 | 237.92590 | 2.40969 | 0.0545324 | 0.21762219 | 2.7373727 | 20 | 4 6.0 | 20.5 |
| 200115 1995 $WR_{13}$ | 16.7 | X | 232.09400 | 75.45537 | 125.26313 | 4.89489 | 0.1557551 | 0.24140813 | 2.5544738 | 20 | — | — |
| 200116 1996 $AJ_{6}$ | 16.3 | X | 152.74573 | 31.34734 | 77.40748 | 4.03907 | 0.0269777 | 0.21780048 | 2.7358786 | 20 | 6 17.5 | 20.1 |
| 200117 1996 $AU_{7}$ | 16.4 | X | 293.01794 | 217.96185 | 91.41367 | 4.98455 | 0.0852724 | 0.21580122 | 2.7527501 | 20 | 5 9.8 | 20.1 |
| 200118 1996 $AG_{20}$ | 16.7 | X | 96.90430 | 28.95192 | 3.49751 | 6.99688 | 0.1332708 | 0.28361078 | 2.2943212 | 20 | 1 2.4 | 19.2 |
| 200119 1996 $BD_{14}$ | 17.3 | X | 145.63873 | 334.46961 | 54.75537 | 3.77700 | 0.2568259 | 0.29058314 | 2.2574723 | 20 | 3 14.8 | 20.8 |
| 200120 1996 $GQ_{13}$ | 16.1 | X | 216.49766 | 218.66736 | 95.45190 | 3.99285 | 0.0143975 | 0.20102141 | 2.8860765 | 20 | 2 20.6 | 20.2 |
| 200121 1996 $TY_{15}$ | 15.0 | X | 140.38030 | 83.84303 | 202.00230 | 15.48297 | 0.2215101 | 0.17662789 | 3.1460324 | 20 | — | — |
| 200122 1997 $CR_{6}$ | 15.0 | X | 275.73601 | 85.09270 | 317.67186 | 28.44821 | 0.2268703 | 0.23617578 | 2.5920645 | 20 | 8 2.0 | 18.2 |
| 200123 1997 $EF_{60}$ | 16.0 | X | 243.04999 | 6.77999 | 10.65247 | 5.99812 | 0.0414213 | 0.22174687 | 2.7033217 | 20 | 6 8.0 | 19.8 |
| 200124 1997 $GR_{2}$ | 16.2 | X | 276.88626 | 264.42430 | 9.34325 | 7.53446 | 0.1974334 | 0.21047178 | 2.7990252 | 20 | 2 20.9 | 20.6 |
| 200125 1997 *HU* | 17.6 | X | 270.11130 | 63.22938 | 208.77923 | 3.41820 | 0.1663155 | 0.29306824 | 2.2446926 | 20 | 2 2.2 | 20.8 |
| 200126 1997 $HK_{11}$ | 16.7 | X | 266.68074 | 28.95411 | 231.87526 | 8.94019 | 0.0497553 | 0.29205490 | 2.2498819 | 20 | 1 24.7 | 19.7 |
| 200127 1997 *MO* | 16.0 | X | 163.37926 | 68.27005 | 183.78804 | 12.21644 | 0.1459184 | 0.18658659 | 3.0330700 | 20 | 12 19.9 | 21.1 |
| 200128 1997 $SJ_{15}$ | 17.1 | X | 141.46991 | 341.23953 | 255.51283 | 3.67329 | 0.1056572 | 0.26191195 | 2.4193526 | 20 | 11 25.4 | 20.8 |
| 200129 1997 $SZ_{30}$ | 15.2 | X | 145.40668 | 112.68554 | 203.41230 | 9.23583 | 0.2695754 | 0.18603056 | 3.0391107 | 20 | — | — |
| 200130 1997 $TP_{9}$ | 18.0 | X | 97.63486 | 354.16498 | 356.64782 | 1.25674 | 0.2005055 | 0.27009736 | 2.3702227 | 20 | — | — |
| 200131 1997 $UC_{6}$ | 17.2 | X | 242.41863 | 232.62757 | 31.52608 | 6.73166 | 0.0853922 | 0.27631043 | 2.3345573 | 20 | 1 4.1 | 20.5 |
| 200132 1997 $WP_{11}$ | 16.8 | X | 116.68720 | 149.08642 | 230.12460 | 5.86401 | 0.2342778 | 0.27454770 | 2.3445392 | 20 | 1 27.6 | 19.9 |
| 200133 1997 $WZ_{12}$ | 15.2 | X | 118.83267 | 128.76878 | 226.94490 | 26.75154 | 0.1519631 | 0.18510538 | 3.0492288 | 20 | — | — |
| 200134 1997 $WN_{14}$ | 15.2 | X | 330.66987 | 51.87578 | 63.93012 | 19.76596 | 0.0677348 | 0.17811250 | 3.1285261 | 20 | — | — |
| 200135 1997 $WO_{14}$ | 17.3 | X | 112.96542 | 341.32570 | 86.01923 | 4.30833 | 0.1507964 | 0.27734156 | 2.3287672 | 20 | 3 19.3 | 20.3 |
| 200136 1997 $WS_{17}$ | 14.9 | X | 105.06152 | 301.46741 | 19.96035 | 9.66461 | 0.1976182 | 0.17990483 | 3.1077125 | 20 | — | — |
| 200137 1997 $WV_{17}$ | 15.4 | X | 34.52807 | 129.89726 | 250.93387 | 9.53760 | 0.0750020 | 0.17702827 | 3.1412871 | 20 | — | — |
| 200138 1997 $WP_{18}$ | 17.3 | X | 45.70358 | 325.24926 | 97.49667 | 2.23507 | 0.1744336 | 0.26878053 | 2.3779580 | 20 | — | — |
| 200139 1997 $WS_{18}$ | 15.7 | X | 135.95919 | 285.48045 | 71.65710 | 6.21154 | 0.2558038 | 0.18773338 | 3.0207054 | 20 | 2 5.6 | 20.6 |
| 200140 1997 $WH_{22}$ | 15.0 | X | 81.28113 | 121.90854 | 260.48647 | 11.58068 | 0.3281490 | 0.18343716 | 3.0676879 | 20 | 1 15.2 | 18.9 |
| 200141 1997 $XZ_{1}$ | 16.3 | X | 34.06973 | 171.76698 | 252.52057 | 9.05674 | 0.0794193 | 0.26652186 | 2.3913740 | 20 | — | — |
| 200142 1998 $BC_{32}$ | 16.8 | X | 50.82706 | 147.24722 | 285.25966 | 5.23182 | 0.1290284 | 0.26586560 | 2.3953075 | 20 | — | — |
| 200143 1998 $DA_{9}$ | 16.4 | X | 132.20006 | 267.16506 | 136.03537 | 5.22687 | 0.0949204 | 0.26940174 | 2.3743010 | 20 | 3 2.4 | 19.4 |
| 200144 1998 $DD_{21}$ | 17.0 | X | 109.67643 | 108.40590 | 126.05552 | 2.26933 | 0.1220327 | 0.24299357 | 2.5433504 | 20 | 10 19.9 | 20.7 |
| 200145 1998 $DJ_{37}$ | 16.4 | X | 358.58329 | 138.82261 | 12.53784 | 5.62678 | 0.1824111 | 0.26351688 | 2.4095194 | 20 | — | — |
| 200146 1998 $FS_{136}$ | 15.9 | X | 325.88618 | 242.86132 | 353.81096 | 12.06882 | 0.1610299 | 0.22268478 | 2.6957256 | 20 | 3 8.6 | 19.1 |
| 200147 1998 $HC_{50}$ | 16.7 | X | 324.25466 | 50.03103 | 108.42156 | 3.22314 | 0.1391133 | 0.25896187 | 2.4376920 | 20 | — | — |
| 200148 1998 $HT_{143}$ | 16.4 | X | 160.84575 | 196.71032 | 25.44840 | 2.77446 | 0.1773931 | 0.24362112 | 2.5389808 | 20 | 11 20.4 | 20.5 |
| 200149 1998 $HL_{147}$ | 15.2 | X | 5.83115 | 171.69329 | 112.91802 | 15.80293 | 0.1131715 | 0.23026033 | 2.6362705 | 20 | 8 3.4 | 18.1 |
| 200150 1998 $LW_{3}$ | 15.6 | X | 304.72459 | 107.49478 | 61.51865 | 12.05861 | 0.1418528 | 0.25492910 | 2.4633329 | 20 | — | — |
| 200151 1998 $QV_{59}$ | 16.6 | X | 221.99796 | 8.49621 | 352.25707 | 5.71707 | 0.0251555 | 0.21051823 | 2.7986134 | 20 | 4 21.2 | 20.5 |
| 200152 1998 $QF_{64}$ | 15.2 | X | 206.25526 | 112.90984 | 260.11584 | 10.29491 | 0.2722614 | 0.21124007 | 2.7922343 | 20 | 4 8.5 | 20.4 |
| 200153 1998 $QY_{70}$ | 15.3 | X | 221.79921 | 132.02473 | 222.40175 | 8.31819 | 0.2578744 | 0.21066813 | 2.7972856 | 20 | 3 31.4 | 20.4 |
| 200154 1998 *RJ* | 16.8 | X | 202.16234 | 310.37645 | 38.66896 | 6.96049 | 0.2087996 | 0.29735525 | 2.2230658 | 20 | 3 10.6 | 20.5 |
| 200155 1998 $RG_{20}$ | 16.0 | X | 230.02859 | 18.39439 | 340.03273 | 7.19443 | 0.1576875 | 0.21236862 | 2.7823333 | 20 | 4 16.3 | 20.5 |
| 200156 1998 $SA_{3}$ | 15.5 | X | 243.34569 | 278.40152 | 63.01808 | 12.12731 | 0.3039933 | 0.21170113 | 2.7881786 | 20 | 4 5.7 | 20.5 |
| 200157 1998 $ST_{40}$ | 17.5 | X | 18.79115 | 165.04316 | 40.70310 | 1.29256 | 0.1315808 | 0.30165293 | 2.2019005 | 20 | 4 27.1 | 19.1 |
| 200158 1998 $TK_{7}$ | 15.3 | X | 348.94290 | 119.84340 | 324.00392 | 20.28294 | 0.2719329 | 0.18578647 | 3.0417720 | 20 | — | — |
| 200159 1998 $XY_{11}$ | 16.0 | X | 104.08160 | 149.64146 | 269.34573 | 22.80185 | 0.2654930 | 0.28743496 | 2.2739260 | 20 | 2 25.1 | 19.5 |
| 200160 1998 $YN_{19}$ | 18.0 | X | 156.14796 | 356.42278 | 55.77865 | 1.04144 | 0.1952995 | 0.29111355 | 2.2547294 | 20 | 4 16.6 | 21.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200161 1999 $AG_{16}$ | 17.1 | X | 148.46206 | 288.14064 | 111.64054 | 5.18295 | 0.1426322 | 0.28763050 | 2.2728953 | 20 | 3 22.0 | 20.3 |
| 200162 1999 $BZ_{12}$ | 14.8 | X | 294.89194 | 45.03455 | 134.22178 | 19.54772 | 0.1102308 | 0.18125930 | 3.0922115 | 20 | — | — |
| 200163 1999 $CA_{7}$ | 16.1 | X | 83.29384 | 2.77568 | 128.21343 | 25.21069 | 0.1798923 | 0.28740515 | 2.2740832 | 20 | 5 19.7 | 19.5 |
| 200164 1999 $CG_{114}$ | 17.4 | X | 85.51636 | 315.79714 | 162.97099 | 5.08696 | 0.2308545 | 0.28642274 | 2.2792802 | 20 | 5 4.9 | 20.1 |
| 200165 1999 $CH_{144}$ | 16.4 | X | 17.92047 | 178.52378 | 4.46655 | 0.52079 | 0.0895608 | 0.18734004 | 3.0249322 | 20 | 3 31.4 | 20.2 |
| 200166 1999 $CB_{146}$ | 15.1 | X | 11.91746 | 112.87355 | 344.49464 | 9.83546 | 0.0683391 | 0.17901954 | 3.1179496 | 20 | — | — |
| 200167 1999 $CJ_{152}$ | 17.2 | X | 79.67350 | 119.17141 | 328.26923 | 5.20282 | 0.0983203 | 0.28151274 | 2.3057065 | 20 | 2 16.6 | 19.6 |
| 200168 1999 $DG$ | 15.2 | X | 72.87301 | 83.08697 | 306.32454 | 8.48719 | 0.0655195 | 0.17966929 | 3.1104280 | 20 | — | — |
| 200169 1999 $FM_{3}$ | 15.9 | X | 186.01888 | 224.65803 | 15.52093 | 20.94370 | 0.2170256 | 0.26112399 | 2.4242172 | 20 | — | — |
| 200170 1999 $FL_{51}$ | 15.4 | X | 293.03888 | 212.58479 | 286.67843 | 3.43323 | 0.1624462 | 0.17416557 | 3.1756150 | 20 | 12 29.8 | 19.0 |
| 200171 1999 $FO_{61}$ | 16.4 | X | 294.65544 | 213.57229 | 5.54179 | 3.36671 | 0.0959219 | 0.27393043 | 2.3480600 | 20 | 1 4.8 | 19.4 |
| 200172 1999 $FV_{79}$ | 17.0 | X | 169.70436 | 147.05798 | 113.29083 | 3.95801 | 0.1561120 | 0.26142933 | 2.4223292 | 20 | — | — |
| 200173 1999 $GU_{13}$ | 16.1 | X | 9.75655 | 129.26516 | 340.45419 | 0.67958 | 0.1552904 | 0.18003005 | 3.1062713 | 20 | — | — |
| 200174 1999 $JV_{12}$ | 16.1 | X | 215.12549 | 188.07117 | 105.11956 | 7.99607 | 0.0997819 | 0.26989117 | 2.3714298 | 20 | 1 12.2 | 19.3 |
| 200175 1999 $JH_{14}$ | 16.0 | X | 56.09915 | 87.66598 | 64.05287 | 21.54592 | 0.2934229 | 0.28092778 | 2.3089060 | 20 | 5 18.6 | 18.1 |
| 200176 1999 $JR_{25}$ | 16.9 | X | 294.79807 | 174.24363 | 20.30177 | 1.51893 | 0.2103412 | 0.26963156 | 2.3729517 | 20 | — | — |
| 200177 1999 $JY_{30}$ | 16.6 | X | 201.95588 | 290.30932 | 332.04304 | 1.51421 | 0.1755478 | 0.26372468 | 2.4082535 | 20 | — | — |
| 200178 1999 $JD_{67}$ | 16.0 | X | 115.61869 | 193.55013 | 75.27363 | 6.82672 | 0.2177366 | 0.25356176 | 2.4721807 | 20 | 12 10.6 | 20.1 |
| 200179 1999 $JH_{119}$ | 16.2 | X | 136.18064 | 236.95914 | 42.50546 | 4.32912 | 0.2232430 | 0.25548198 | 2.4597777 | 20 | — | — |
| 200180 1999 $JU_{127}$ | 16.1 | X | 222.19462 | 156.17465 | 61.43940 | 6.44269 | 0.1744815 | 0.26064236 | 2.4272027 | 20 | — | — |
| 200181 1999 $KQ_{3}$ | 17.2 | X | 341.19017 | 66.57625 | 91.84118 | 2.30494 | 0.1207864 | 0.27052972 | 2.3676966 | 20 | — | — |
| 200182 1999 $OT_{3}$ | 18.5 | X | 357.50506 | 94.78892 | 253.60372 | 7.34091 | 0.3307363 | 0.33294392 | 2.0616835 | 20 | 12 24.9 | 20.4 |
| 200183 1999 $RO$ | 15.8 | X | 254.23547 | 235.08369 | 157.85488 | 16.20432 | 0.2225550 | 0.22783784 | 2.6549244 | 20 | 6 20.8 | 20.1 |
| 200184 1999 $RY_{8}$ | 14.9 | X | 240.27157 | 130.94863 | 166.68678 | 11.59195 | 0.1825101 | 0.17057578 | 3.2200143 | 20 | 2 16.6 | 20.2 |
| 200185 1999 $RQ_{65}$ | 16.0 | X | 217.37072 | 63.51698 | 322.84705 | 12.32628 | 0.2049988 | 0.22290566 | 2.6939446 | 20 | 5 3.9 | 20.7 |
| 200186 1999 $RY_{72}$ | 16.7 | X | 30.53892 | 339.55817 | 314.29112 | 2.51117 | 0.2767505 | 0.23809141 | 2.5781424 | 20 | 10 23.1 | 19.8 |
| 200187 1999 $RZ_{90}$ | 15.9 | X | 301.34140 | 154.98625 | 149.77433 | 7.22851 | 0.2667456 | 0.22618651 | 2.6678306 | 20 | 4 17.4 | 19.4 |
| 200188 1999 $RL_{93}$ | 16.0 | X | 310.58385 | 319.43307 | 8.57372 | 13.54369 | 0.1054489 | 0.22798854 | 2.6537542 | 20 | 6 27.9 | 19.5 |
| 200189 1999 $RX_{100}$ | 16.1 | X | 276.76133 | 67.96050 | 1.13336 | 3.18815 | 0.2652764 | 0.23445216 | 2.6047531 | 20 | 8 30.9 | 19.0 |
| 200190 1999 $RO_{101}$ | 16.1 | X | 53.12406 | 23.68178 | 283.03584 | 10.40753 | 0.2565885 | 0.24238218 | 2.5476255 | 20 | 12 3.5 | 20.0 |
| 200191 1999 $RM_{110}$ | 15.2 | X | 278.90944 | 70.01477 | 316.51710 | 13.51199 | 0.2559605 | 0.22819634 | 2.6521430 | 20 | 7 8.2 | 18.8 |
| 200192 1999 $RT_{119}$ | 15.9 | X | 331.11557 | 170.36778 | 174.16981 | 5.29431 | 0.2138256 | 0.23486675 | 2.6016869 | 20 | 8 21.9 | 17.9 |
| 200193 1999 $RP_{135}$ | 15.5 | X | 298.70501 | 359.88603 | 22.27384 | 2.23364 | 0.1654482 | 0.23388543 | 2.6089591 | 20 | 8 17.7 | 18.4 |
| 200194 1999 $RP_{144}$ | 15.7 | X | 3.60679 | 84.29897 | 237.79902 | 6.19296 | 0.1833415 | 0.23647909 | 2.5898476 | 20 | 9 29.2 | 18.3 |
| 200195 1999 $RC_{188}$ | 16.8 | X | 332.16225 | 12.22394 | 176.17412 | 2.31059 | 0.1523861 | 0.26106051 | 2.4246102 | 20 | 1 6.5 | 19.6 |
| 200196 1999 $RT_{190}$ | 16.4 | X | 262.11874 | 85.72740 | 172.52181 | 2.89696 | 0.0801441 | 0.21392441 | 2.7688270 | 20 | 1 26.7 | 20.4 |
| 200197 1999 $RA_{203}$ | 15.8 | X | 289.32256 | 80.33993 | 287.62980 | 11.44582 | 0.1858984 | 0.22966908 | 2.6407930 | 20 | 7 7.2 | 19.0 |
| 200198 1999 $RE_{216}$ | 16.9 | X | 185.23422 | 61.59872 | 336.21529 | 4.30807 | 0.1476905 | 0.22032615 | 2.7149303 | 20 | 4 24.3 | 21.3 |
| 200199 1999 $RT_{221}$ | 16.3 | X | 287.13442 | 112.61879 | 270.23219 | 7.05632 | 0.2637564 | 0.22897094 | 2.6461582 | 20 | 7 10.8 | 19.4 |
| 200200 1999 $RY_{234}$ | 16.5 | X | 3.12402 | 284.04998 | 105.84498 | 4.97970 | 0.2902033 | 0.24080128 | 2.5587637 | 20 | — | — |
| 200201 1999 $RY_{250}$ | 16.6 | X | 349.13894 | 166.82074 | 169.49342 | 2.90513 | 0.0907375 | 0.23503264 | 2.6004625 | 20 | 9 16.8 | 19.6 |
| 200202 1999 $RZ_{251}$ | 15.6 | X | 327.31432 | 139.89541 | 258.98478 | 10.76827 | 0.1652993 | 0.23829663 | 2.5766620 | 20 | 11 7.8 | 18.0 |
| 200203 1999 $SJ_{15}$ | 15.6 | X | 313.97289 | 113.82527 | 279.29712 | 12.97254 | 0.1962064 | 0.23557198 | 2.5964918 | 20 | 9 21.1 | 18.4 |
| 200204 1999 $TX_{4}$ | 16.1 | X | 316.61254 | 249.47772 | 126.21952 | 6.14377 | 0.2373120 | 0.23331830 | 2.6131852 | 20 | 9 5.9 | 18.2 |
| 200205 1999 $TC_{28}$ | 15.6 | X | 257.44082 | 326.23194 | 26.01167 | 8.97480 | 0.1586960 | 0.22153537 | 2.7050419 | 20 | 5 7.5 | 19.7 |
| 200206 1999 $TS_{61}$ | 16.9 | X | 258.38028 | 351.54898 | 349.99150 | 3.81533 | 0.1158695 | 0.22109403 | 2.7086406 | 20 | 4 30.3 | 20.9 |
| 200207 1999 $TP_{87}$ | 16.8 | X | 216.88848 | 30.26239 | 146.40936 | 2.95191 | 0.0829792 | 0.23618430 | 2.5920022 | 20 | 11 30.2 | 20.3 |
| 200208 1999 $TJ_{99}$ | 15.6 | X | 241.92031 | 210.65590 | 163.02560 | 14.54808 | 0.2684335 | 0.22281902 | 2.6946428 | 20 | 5 13.6 | 20.3 |
| 200209 1999 $TQ_{111}$ | 15.4 | X | 291.54938 | 357.65451 | 352.82589 | 12.98144 | 0.1747383 | 0.22792117 | 2.6542772 | 20 | 6 17.1 | 19.0 |
| 200210 1999 $TE_{121}$ | 17.0 | X | 250.98183 | 334.49435 | 38.65211 | 2.88375 | 0.2137949 | 0.22414881 | 2.6839747 | 20 | 5 22.4 | 21.0 |
| 200211 1999 $TK_{144}$ | 16.5 | X | 252.98942 | 241.66117 | 3.07701 | 19.58424 | 0.0498508 | 0.35195762 | 1.9867465 | 20 | — | — |
| 200212 1999 $TE_{152}$ | 15.5 | X | 50.13480 | 285.01882 | 113.50963 | 4.05794 | 0.0409813 | 0.24698812 | 2.5158534 | 20 | — | — |
| 200213 1999 $TH_{169}$ | 16.2 | X | 317.83259 | 129.37182 | 210.88631 | 5.48383 | 0.1013540 | 0.22866400 | 2.6485256 | 20 | 7 26.0 | 19.3 |
| 200214 1999 $TX_{169}$ | 15.9 | X | 159.12981 | 177.41916 | 218.97781 | 5.66579 | 0.1016315 | 0.21399681 | 2.7682025 | 20 | 3 26.9 | 20.1 |
| 200215 1999 $TX_{178}$ | 15.8 | X | 253.23643 | 247.16186 | 100.04227 | 4.10271 | 0.1188527 | 0.21955966 | 2.7212453 | 20 | 5 4.2 | 19.7 |
| 200216 1999 $TW_{184}$ | 16.7 | X | 222.11901 | 108.20367 | 271.73036 | 12.15029 | 0.2198663 | 0.22071518 | 2.7117392 | 20 | 5 1.5 | 21.4 |
| 200217 1999 $TF_{200}$ | 15.5 | X | 87.00665 | 357.06892 | 234.94401 | 7.89425 | 0.0933302 | 0.22847071 | 2.6500193 | 20 | 9 12.2 | 19.4 |
| 200218 1999 $TU_{211}$ | 16.0 | X | 239.99047 | 350.02878 | 89.87647 | 4.76043 | 0.2101841 | 0.22732199 | 2.6589393 | 20 | 8 7.3 | 20.1 |
| 200219 1999 $TF_{220}$ | 16.1 | X | 283.69700 | 101.50229 | 256.98257 | 4.93915 | 0.1954947 | 0.22700188 | 2.6614384 | 20 | 6 13.7 | 19.4 |
| 200220 1999 $TC_{225}$ | 16.8 | X | 26.08542 | 13.00084 | 344.04376 | 5.04250 | 0.0711086 | 0.24196914 | 2.5505239 | 20 | 12 8.9 | 20.1 |
| 200221 1999 $TB_{229}$ | 16.1 | X | 234.12067 | 124.13851 | 185.66515 | 9.30214 | 0.1060178 | 0.21533851 | 2.7566920 | 20 | 2 25.3 | 20.4 |
| 200222 1999 $TB_{266}$ | 15.7 | X | 325.81303 | 50.76242 | 283.54089 | 10.64748 | 0.2087748 | 0.23117309 | 2.6293266 | 20 | 7 22.1 | 17.9 |
| 200223 1999 $TD_{270}$ | 15.4 | X | 255.97352 | 130.42821 | 242.65165 | 10.18094 | 0.1942386 | 0.22453434 | 2.6809016 | 20 | 5 30.2 | 19.5 |
| 200224 1999 $TO_{274}$ | 16.2 | X | 344.39653 | 356.87461 | 314.69167 | 4.51562 | 0.2411238 | 0.23434013 | 2.6055832 | 20 | 8 2.7 | 17.8 |
| 200225 1999 $TJ_{291}$ | 15.6 | X | 272.29116 | 287.05466 | 48.19529 | 13.87953 | 0.1973332 | 0.22165640 | 2.7040571 | 20 | 4 30.3 | 19.6 |
| 200226 1999 $UO_{18}$ | 16.4 | X | 252.14394 | 235.27894 | 57.41942 | 4.65626 | 0.1239655 | 0.21504869 | 2.7591682 | 20 | 2 25.5 | 20.6 |
| 200227 1999 $UU_{20}$ | 16.8 | X | 230.50219 | 161.24480 | 182.93715 | 6.34585 | 0.0659013 | 0.21794481 | 2.7346707 | 20 | 4 9.2 | 20.8 |
| 200228 1999 $UY_{20}$ | 16.4 | X | 248.60537 | 268.71352 | 159.69760 | 2.94372 | 0.1500816 | 0.22894787 | 2.6463359 | 20 | 8 8.4 | 20.2 |
| 200229 1999 $UU_{28}$ | 16.0 | X | 295.38767 | 248.62604 | 38.05619 | 4.89574 | 0.0783832 | 0.21966706 | 2.7203582 | 20 | 4 12.9 | 19.4 |
| 200230 1999 $UE_{37}$ | 16.7 | X | 177.21861 | 331.72446 | 151.03421 | 2.23819 | 0.0467160 | 0.22800956 | 2.6535912 | 20 | 8 6.3 | 20.5 |
| 200231 1999 $UF_{37}$ | 16.0 | X | 240.93652 | 156.80390 | 185.61196 | 5.79641 | 0.0410947 | 0.21937239 | 2.7227937 | 20 | 4 21.9 | 19.7 |
| 200232 1999 $UG_{51}$ | 15.8 | X | 256.39586 | 276.95281 | 90.22828 | 8.36988 | 0.2576905 | 0.22293181 | 2.6937339 | 20 | 5 17.7 | 20.1 |
| 200233 1999 $VV_{2}$ | 16.1 | X | 284.70108 | 115.31942 | 266.85516 | 3.87323 | 0.2358503 | 0.22709226 | 2.6607322 | 20 | 7 11.1 | 19.2 |
| 200234 Kumashiro | 16.2 | X | 174.83556 | 168.55152 | 202.27371 | 8.67857 | 0.1631596 | 0.21192894 | 2.7861803 | 20 | 3 13.9 | 20.7 |
| 200235 1999 $VK_{17}$ | 15.6 | X | 291.45874 | 181.34134 | 334.71990 | 1.99809 | 0.0694918 | 0.24576464 | 2.5241962 | 20 | — | — |
| 200236 1999 $VW_{30}$ | 16.0 | X | 254.50551 | 359.43639 | 55.71189 | 5.22087 | 0.1945475 | 0.22504261 | 2.6768634 | 20 | 7 24.1 | 19.8 |
| 200237 1999 $VT_{51}$ | 16.4 | X | 287.34565 | 159.41532 | 285.20480 | 3.72256 | 0.2444714 | 0.23331183 | 2.6132335 | 20 | 10 11.4 | 19.0 |
| 200238 1999 $VA_{55}$ | 15.5 | X | 268.97234 | 296.30655 | 39.69294 | 14.20322 | 0.1986549 | 0.22185657 | 2.7024304 | 20 | 4 26.6 | 19.4 |
| 200239 1999 $VM_{76}$ | 16.7 | X | 189.14818 | 359.86430 | 89.12761 | 3.00332 | 0.0395015 | 0.22092770 | 2.7099999 | 20 | 7 7.0 | 20.5 |
| 200240 1999 $VS_{82}$ | 15.9 | X | 283.39266 | 197.80589 | 194.52621 | 6.97057 | 0.0977096 | 0.23177464 | 2.6247751 | 20 | 8 13.8 | 19.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200241 1999 $VY_{97}$ | 16.0 | X | 120.86622 | 254.16843 | 213.86077 | 5.05586 | 0.0490547 | 0.21592408 | 2.7517058 | 20 | 5 10.1 | 19.9 |
| 200242 1999 $VB_{114}$ | 15.6 | X | 297.38165 | 77.02497 | 247.28854 | 12.02297 | 0.2220188 | 0.22538301 | 2.6741674 | 20 | 5 12.1 | 18.9 |
| 200243 1999 $VU_{116}$ | 16.3 | X | 223.59082 | 339.55253 | 44.51329 | 3.87940 | 0.1041512 | 0.22161224 | 2.7044164 | 20 | 5 18.3 | 20.4 |
| 200244 1999 $VL_{119}$ | 16.4 | X | 253.24670 | 173.25297 | 233.25653 | 6.43100 | 0.0972556 | 0.22648352 | 2.6654977 | 20 | 7 21.8 | 20.1 |
| 200245 1999 $VM_{120}$ | 16.9 | X | 273.71784 | 300.71420 | 74.42544 | 2.75086 | 0.1702518 | 0.22695860 | 2.6617767 | 20 | 6 26.9 | 20.5 |
| 200246 1999 $VK_{125}$ | 16.7 | X | 161.83294 | 126.02945 | 42.80198 | 5.76087 | 0.1736263 | 0.22743475 | 2.6580604 | 20 | 9 18.6 | 21.0 |
| 200247 1999 $VJ_{130}$ | 15.6 | X | 210.90373 | 316.75793 | 46.43605 | 10.34901 | 0.1922003 | 0.21678394 | 2.7444246 | 20 | 4 8.9 | 20.2 |
| 200248 1999 $VY_{137}$ | 15.3 | X | 228.55454 | 22.89904 | 58.51166 | 30.38492 | 0.1706949 | 0.22449713 | 2.6811978 | 20 | 8 9.6 | 20.1 |
| 200249 1999 $VS_{138}$ | 15.8 | X | 140.03940 | 41.06990 | 67.78600 | 9.93377 | 0.1721504 | 0.21559876 | 2.7544732 | 20 | 6 12.1 | 20.1 |
| 200250 1999 $VV_{148}$ | 16.8 | X | 164.85936 | 209.24527 | 207.53845 | 2.96717 | 0.0892578 | 0.21406762 | 2.7675920 | 20 | 4 28.4 | 21.0 |
| 200251 1999 $VM_{152}$ | 16.2 | X | 154.20642 | 48.47661 | 356.91966 | 5.06053 | 0.1197594 | 0.21623115 | 2.7491000 | 20 | 4 3.6 | 20.3 |
| 200252 1999 $VW_{153}$ | 16.8 | X | 252.00534 | 136.59023 | 272.48632 | 2.98025 | 0.0928038 | 0.22666388 | 2.6640835 | 20 | 7 25.7 | 20.4 |
| 200253 1999 $VN_{184}$ | 16.0 | X | 169.89826 | 69.76678 | 49.11107 | 12.20730 | 0.2511615 | 0.22094683 | 2.7098435 | 20 | 7 25.3 | 21.0 |
| 200254 1999 $VM_{190}$ | 15.8 | X | 205.59714 | 209.87748 | 229.78239 | 7.52490 | 0.1227962 | 0.22014832 | 2.7163921 | 20 | 7 7.6 | 20.1 |
| 200255 Weigle | 17.1 | X | 288.61162 | 143.72088 | 246.59497 | 1.32017 | 0.1325795 | 0.22812733 | 2.6526778 | 20 | 8 14.9 | 20.3 |
| 200256 1999 $VQ_{225}$ | 15.9 | X | 251.25015 | 239.89579 | 118.23455 | 6.00051 | 0.1796927 | 0.22111995 | 2.7084289 | 20 | 5 9.8 | 20.1 |
| 200257 1999 $VP_{226}$ | 15.7 | X | 206.75705 | 280.09336 | 117.49183 | 14.07244 | 0.2426058 | 0.21845706 | 2.7303941 | 20 | 5 17.1 | 20.7 |
| 200258 1999 $VF_{231}$ | 16.0 | X | 169.36886 | 349.78956 | 103.38511 | 12.73444 | 0.2352771 | 0.21716354 | 2.7412256 | 20 | 6 20.8 | 20.7 |
| 200259 1999 $WC_{14}$ | 16.4 | X | 190.93964 | 359.86816 | 65.60521 | 4.15208 | 0.0680133 | 0.21934149 | 2.7230494 | 20 | 6 6.8 | 20.4 |
| 200260 1999 $WW_{18}$ | 16.4 | X | 187.32579 | 12.31358 | 58.40242 | 6.00160 | 0.1034375 | 0.21921839 | 2.7240687 | 20 | 6 8.6 | 20.6 |
| 200261 1999 $XR$ | 15.6 | X | 138.98654 | 355.77296 | 102.75374 | 7.27820 | 0.0910232 | 0.21044368 | 2.7992743 | 20 | 5 24.8 | 19.8 |
| 200262 1999 $XO_{46}$ | 15.6 | X | 207.10192 | 332.58146 | 63.86700 | 15.99318 | 0.1924582 | 0.21796528 | 2.7344994 | 20 | 5 14.6 | 20.1 |
| 200263 1999 $XR_{47}$ | 15.8 | X | 271.49416 | 2.54465 | 64.10026 | 15.01238 | 0.2331770 | 0.22888162 | 2.6468466 | 20 | 9 1.2 | 19.5 |
| 200264 1999 $XG_{48}$ | 16.4 | X | 192.73896 | 194.08636 | 208.29686 | 2.69424 | 0.1842694 | 0.21637488 | 2.7478824 | 20 | 5 8.6 | 21.0 |
| 200265 1999 $XQ_{54}$ | 16.3 | X | 179.70904 | 356.61230 | 84.77179 | 4.09466 | 0.1354170 | 0.21772676 | 2.7364962 | 20 | 6 14.5 | 20.6 |
| 200266 1999 $XG_{72}$ | 15.6 | X | 207.15532 | 4.47265 | 80.88468 | 6.12275 | 0.1322371 | 0.22045418 | 2.7138790 | 20 | 7 17.8 | 19.8 |
| 200267 1999 $XG_{109}$ | 15.8 | X | 238.03633 | 243.67716 | 201.50854 | 4.47220 | 0.1473308 | 0.22691568 | 2.6621123 | 20 | 8 16.9 | 19.8 |
| 200268 1999 $XJ_{110}$ | 15.6 | X | 279.20528 | 359.91560 | 66.21961 | 15.68098 | 0.0794053 | 0.23064745 | 2.6333199 | 20 | 10 7.5 | 19.2 |
| 200269 1999 $XO_{110}$ | 15.6 | X | 262.53452 | 168.51292 | 247.45819 | 14.58924 | 0.2222470 | 0.22747778 | 2.6577251 | 20 | 7 24.8 | 19.6 |
| 200270 1999 $XX_{110}$ | 15.4 | X | 223.15882 | 160.59203 | 246.76374 | 11.42071 | 0.1243763 | 0.22091008 | 2.7101440 | 20 | 6 15.3 | 19.5 |
| 200271 1999 $XA_{125}$ | 15.6 | X | 184.32510 | 178.91296 | 267.60242 | 12.82940 | 0.1050892 | 0.21948114 | 2.7218943 | 20 | 6 25.8 | 19.8 |
| 200272 1999 $XA_{127}$ | 15.2 | X | 245.53233 | 128.19507 | 267.31087 | 12.12219 | 0.2683523 | 0.22267890 | 2.6957731 | 20 | 6 9.4 | 19.7 |
| 200273 1999 $XK_{187}$ | 15.6 | X | 181.47341 | 40.62758 | 71.55356 | 14.54110 | 0.1831800 | 0.21788307 | 2.7351872 | 20 | 7 26.5 | 20.3 |
| 200274 1999 $XW_{207}$ | 15.5 | X | 203.04340 | 76.35368 | 319.62987 | 14.83960 | 0.2857012 | 0.21468862 | 2.7622525 | 20 | 4 30.6 | 20.9 |
| 200275 1999 $XZ_{209}$ | 15.6 | X | 156.25750 | 109.35331 | 359.37573 | 8.84875 | 0.1434678 | 0.21541464 | 2.7560425 | 20 | 6 27.0 | 20.1 |
| 200276 1999 $XF_{216}$ | 15.5 | X | 206.22597 | 144.63627 | 281.95779 | 8.46974 | 0.1017550 | 0.21606156 | 2.7505384 | 20 | 6 23.9 | 19.6 |
| 200277 1999 $XY_{217}$ | 15.7 | X | 269.83608 | 249.28816 | 102.55752 | 10.38239 | 0.1976495 | 0.21681314 | 2.7441783 | 20 | 5 20.5 | 19.8 |
| 200278 1999 $XZ_{218}$ | 15.6 | X | 283.60058 | 105.18468 | 287.05669 | 13.54370 | 0.1204972 | 0.22259545 | 2.6964468 | 20 | 8 7.7 | 19.2 |
| 200279 1999 $XC_{237}$ | 16.2 | X | 244.81962 | 130.97103 | 265.64728 | 3.99726 | 0.0360920 | 0.22136355 | 2.7064415 | 20 | 7 7.6 | 19.9 |
| 200280 1999 $XF_{244}$ | 15.5 | X | 221.81610 | 307.91386 | 85.47180 | 16.78280 | 0.1361593 | 0.21985812 | 2.7187819 | 20 | 5 28.5 | 19.8 |
| 200281 1999 $XF_{252}$ | 16.4 | X | 54.53537 | 228.35181 | 105.11163 | 3.94031 | 0.1054443 | 0.23711497 | 2.5852154 | 20 | 12 19.1 | 19.8 |
| 200282 1999 $YB_{5}$ | 15.7 | X | 211.01206 | 355.01441 | 91.22190 | 10.57963 | 0.1574934 | 0.21913362 | 2.7247712 | 20 | 7 21.1 | 20.0 |
| 200283 1999 $YG_{10}$ | 16.0 | X | 313.48354 | 216.50630 | 90.12955 | 7.47338 | 0.0479187 | 0.21908799 | 2.7251496 | 20 | 6 8.9 | 19.5 |
| 200284 1999 $YE_{12}$ | 15.9 | X | 273.54623 | 251.99065 | 90.76645 | 6.00314 | 0.1232594 | 0.21810005 | 2.7333729 | 20 | 5 21.9 | 19.6 |
| 200285 1999 $YF_{12}$ | 16.3 | X | 161.60196 | 161.78328 | 237.37147 | 1.40037 | 0.0857092 | 0.20973895 | 2.8055413 | 20 | 4 2.2 | 20.4 |
| 200286 2000 $AY_{49}$ | 15.0 | X | 223.77121 | 280.31263 | 118.99219 | 9.95098 | 0.2721633 | 0.21680118 | 2.7442792 | 20 | 5 28.6 | 19.9 |
| 200287 2000 $AW_{50}$ | 15.4 | X | 182.78750 | 137.97535 | 303.99226 | 12.95332 | 0.1598541 | 0.21393086 | 2.7687714 | 20 | 6 18.6 | 20.1 |
| 200288 2000 $AZ_{61}$ | 15.2 | X | 269.68327 | 104.81982 | 309.77716 | 11.64014 | 0.2629287 | 0.22328092 | 2.6909253 | 20 | 7 30.8 | 18.6 |
| 200289 2000 $AT_{80}$ | 15.7 | X | 135.18965 | 6.13774 | 101.41844 | 14.79211 | 0.1540977 | 0.21301902 | 2.7766670 | 20 | 6 6.8 | 20.1 |
| 200290 2000 $AD_{108}$ | 15.6 | X | 192.79911 | 305.49279 | 110.44023 | 10.07533 | 0.1640019 | 0.21463029 | 2.7627529 | 20 | 5 27.5 | 20.2 |
| 200291 2000 $AW_{108}$ | 15.6 | X | 115.70958 | 190.50128 | 272.39976 | 10.47038 | 0.1462114 | 0.20948527 | 2.8078057 | 20 | 5 6.8 | 19.9 |
| 200292 2000 $AY_{115}$ | 15.5 | X | 168.29652 | 203.96346 | 271.35410 | 9.30391 | 0.2304355 | 0.21546663 | 2.7555991 | 20 | 7 15.5 | 20.3 |
| 200293 2000 $AG_{181}$ | 15.3 | X | 207.88933 | 186.43426 | 237.12445 | 9.03848 | 0.2414984 | 0.21698461 | 2.7427324 | 20 | 6 14.1 | 20.0 |
| 200294 2000 $AT_{205}$ | 15.8 | X | 160.35006 | 162.99611 | 293.07992 | 11.34101 | 0.1119054 | 0.21278235 | 2.7787255 | 20 | 6 13.6 | 20.1 |
| 200295 2000 $AT_{213}$ | 15.8 | X | 296.85606 | 281.82175 | 96.84964 | 3.26307 | 0.1018137 | 0.22179098 | 2.7029631 | 20 | 8 17.3 | 19.1 |
| 200296 2000 $AV_{218}$ | 15.9 | X | 197.30699 | 97.33411 | 312.52135 | 2.75885 | 0.1090664 | 0.21280268 | 2.7785486 | 20 | 5 22.9 | 20.1 |
| 200297 2000 $AC_{219}$ | 15.8 | X | 259.89488 | 196.76460 | 91.63403 | 3.23171 | 0.0273301 | 0.20323751 | 2.8650583 | 20 | 3 10.8 | 19.9 |
| 200298 2000 $AS_{229}$ | 15.6 | X | 165.43929 | 209.69243 | 271.40553 | 12.80049 | 0.1307809 | 0.21812991 | 2.7331234 | 20 | 7 18.9 | 20.1 |
| 200299 2000 $AY_{233}$ | 15.9 | X | 183.31789 | 9.53559 | 82.12112 | 10.25779 | 0.2090575 | 0.21882854 | 2.7273031 | 20 | 6 29.8 | 20.6 |
| 200300 2000 $BK_{14}$ | 15.7 | X | 170.39697 | 346.26621 | 101.95305 | 8.80855 | 0.2952782 | 0.21241682 | 2.7819124 | 20 | 6 15.9 | 20.8 |
| 200301 2000 $CS_{19}$ | 15.2 | X | 309.18283 | 292.04351 | 257.02579 | 4.74130 | 0.2028345 | 0.19206721 | 2.9750932 | 20 | — | — |
| 200302 2000 $CW_{78}$ | 15.7 | X | 109.20162 | 135.57791 | 306.20624 | 4.36876 | 0.1117942 | 0.20228946 | 2.8740029 | 20 | 3 29.5 | 19.9 |
| 200303 2000 $CQ_{97}$ | 16.2 | X | 280.53943 | 277.12335 | 133.50413 | 15.06626 | 0.2272347 | 0.22349457 | 2.6892101 | 20 | 8 15.9 | 19.5 |
| 200304 2000 $CL_{108}$ | 14.2 | X | 181.06185 | 227.37947 | 280.20825 | 22.53960 | 0.1090576 | 0.17143898 | 3.2091967 | 20 | 8 23.5 | 19.6 |
| 200305 2000 $CW_{125}$ | 15.5 | X | 207.28733 | 74.89140 | 350.00598 | 8.72602 | 0.2689466 | 0.21468586 | 2.7622761 | 20 | 6 13.6 | 20.5 |
| 200306 2000 $CO_{137}$ | 16.0 | X | 81.50444 | 350.88972 | 134.66911 | 2.91635 | 0.0110054 | 0.20301717 | 2.8671310 | 20 | 4 8.2 | 19.9 |
| 200307 2000 $DD_{55}$ | 15.9 | X | 311.96290 | 111.54302 | 44.69441 | 1.46540 | 0.1433745 | 0.18768408 | 3.0212345 | 20 | — | — |
| 200308 2000 $DN_{57}$ | 16.3 | X | 52.03315 | 187.56425 | 312.30720 | 2.99806 | 0.1999910 | 0.19980860 | 2.8977434 | 20 | 4 8.1 | 19.6 |
| 200309 2000 $DY_{88}$ | 16.6 | X | 50.87935 | 236.24744 | 283.18709 | 0.75572 | 0.0374191 | 0.20299017 | 2.8673852 | 20 | 4 12.9 | 20.2 |
| 200310 2000 $DR_{92}$ | 15.3 | X | 4.89986 | 43.73148 | 333.78178 | 10.04377 | 0.0732959 | 0.17703168 | 3.1412468 | 20 | 11 17.4 | 19.6 |
| 200311 2000 $EH_{10}$ | 17.6 | X | 97.22808 | 190.05896 | 334.00535 | 2.29664 | 0.1003429 | 0.30472747 | 2.1870648 | 20 | 7 4.2 | 20.2 |
| 200312 2000 $ER_{59}$ | 15.5 | X | 271.86961 | 63.46917 | 151.73752 | 2.67992 | 0.1507899 | 0.18646141 | 3.0344273 | 20 | — | — |
| 200313 2000 $EB_{62}$ | 15.7 | X | 234.06226 | 46.69920 | 182.90530 | 5.11010 | 0.1591573 | 0.18258898 | 3.0771808 | 20 | — | — |
| 200314 2000 $ER_{115}$ | 17.0 | X | 327.92174 | 117.07639 | 172.30659 | 5.72581 | 0.0412824 | 0.30372119 | 2.1918929 | 20 | 6 8.6 | 19.4 |
| 200315 2000 $EH_{124}$ | 15.4 | X | 236.88143 | 153.69083 | 93.16433 | 2.11971 | 0.2107363 | 0.18522474 | 3.0479187 | 20 | — | — |
| 200316 2000 $EQ_{169}$ | 15.0 | X | 145.10286 | 340.95023 | 99.06974 | 16.29458 | 0.1100169 | 0.20419623 | 2.8560835 | 20 | 5 13.7 | 19.6 |
| 200317 2000 $EW_{174}$ | 17.4 | X | 306.08420 | 281.75133 | 348.37736 | 2.88474 | 0.0977975 | 0.29931820 | 2.2133357 | 20 | 3 25.2 | 19.7 |
| 200318 2000 $ER_{197}$ | 16.4 | X | 229.46684 | 347.08544 | 353.07368 | 5.30882 | 0.1385307 | 0.29678429 | 2.2259160 | 20 | 3 22.4 | 19.4 |
| 200319 2000 $FE_{20}$ | 15.1 | X | 341.86392 | 25.72917 | 144.22080 | 11.86930 | 0.1029585 | 0.19130889 | 2.9829498 | 20 | 1 17.5 | 19.0 |
| 200320 2000 $FF_{69}$ | 16.2 | X | 292.53936 | 130.98507 | 50.02448 | 1.44252 | 0.0991384 | 0.18443718 | 3.0565891 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200321 2000 $GU_4$ | 16.4 | X | 216.35722 | 20.87116 | 183.45897 | 25.39315 | 0.2377196 | 0.27371272 | 2.3493050 | 20 | 12 21.5 | 20.3 |
| 200322 2000 $GJ_{20}$ | 17.1 | X | 188.94447 | 266.55622 | 16.15482 | 1.87353 | 0.2448915 | 0.27862252 | 2.3216241 | 20 | — | — |
| 200323 2000 $GH_{22}$ | 17.2 | X | 315.45145 | 245.24207 | 45.23830 | 3.09797 | 0.1511017 | 0.29829527 | 2.2183929 | 20 | 5 2.2 | 19.0 |
| 200324 2000 $GA_{27}$ | 15.3 | X | 235.06514 | 57.79387 | 184.08281 | 7.02009 | 0.1017209 | 0.18345373 | 3.0675031 | 20 | — | — |
| 200325 2000 $GM_{32}$ | 16.6 | X | 82.70900 | 268.72285 | 20.85854 | 6.54297 | 0.2184281 | 0.26493066 | 2.4009396 | 20 | 12 9.6 | 20.5 |
| 200326 2000 $GZ_{34}$ | 17.1 | X | 16.36334 | 202.84078 | 17.84293 | 5.40624 | 0.0734360 | 0.29830533 | 2.2183430 | 20 | 5 13.1 | 19.1 |
| 200327 2000 $GL_{63}$ | 15.6 | X | 309.94018 | 328.47210 | 204.56084 | 6.14891 | 0.0576515 | 0.18453722 | 3.0554843 | 20 | — | — |
| 200328 2000 $GN_{70}$ | 16.5 | X | 276.02235 | 72.82969 | 210.01018 | 8.06966 | 0.1861238 | 0.28963360 | 2.2624036 | 20 | 2 18.8 | 20.0 |
| 200329 2000 $GJ_{112}$ | 15.2 | X | 321.39284 | 132.47588 | 24.40078 | 9.70278 | 0.0919094 | 0.18652436 | 3.0337446 | 20 | — | — |
| 200330 2000 $GO_{129}$ | 15.4 | X | 119.98456 | 151.60351 | 192.59294 | 7.32401 | 0.0803459 | 0.18245818 | 3.0786512 | 20 | — | — |
| 200331 2000 $GR_{129}$ | 15.5 | X | 92.37741 | 211.00595 | 193.52970 | 23.10746 | 0.2063828 | 0.18983421 | 2.9983781 | 20 | 2 4.4 | 20.0 |
| 200332 2000 $GT_{135}$ | 15.2 | X | 237.83181 | 176.54323 | 58.91509 | 17.19417 | 0.2812702 | 0.18088253 | 3.0965039 | 20 | — | — |
| 200333 2000 $GC_{186}$ | 14.7 | X | 343.37449 | 6.69280 | 142.44372 | 13.79265 | 0.1234058 | 0.18572266 | 3.0424687 | 20 | — | — |
| 200334 2000 $HO_{11}$ | 17.1 | X | 129.14861 | 87.01304 | 138.64890 | 2.80027 | 0.1144539 | 0.31217873 | 2.1521234 | 20 | 11 8.4 | 20.0 |
| 200335 2000 $HS_{18}$ | 17.1 | X | 320.03353 | 186.37250 | 61.23345 | 4.07527 | 0.1326487 | 0.29265019 | 2.2468298 | 20 | 3 11.7 | 19.6 |
| 200336 2000 $HN_{24}$ | 15.1 | X | 235.49625 | 179.38401 | 38.74837 | 7.59563 | 0.1485924 | 0.17859520 | 3.1228865 | 20 | — | — |
| 200337 2000 $HA_{41}$ | 15.0 | X | 271.35597 | 139.48313 | 74.19024 | 18.68014 | 0.2076796 | 0.18329995 | 3.0692186 | 20 | — | — |
| 200338 2000 $HP_{43}$ | 17.0 | X | 259.81846 | 255.40061 | 31.99151 | 0.73592 | 0.2029886 | 0.28687537 | 2.2768821 | 20 | 2 10.7 | 20.6 |
| 200339 2000 $HX_{50}$ | 17.4 | X | 264.87974 | 209.37638 | 49.02659 | 2.58830 | 0.2155944 | 0.28444080 | 2.2898558 | 20 | 1 9.9 | 21.1 |
| 200340 2000 $HR_{82}$ | 15.6 | X | 220.66273 | 342.56756 | 199.30460 | 5.09056 | 0.1311945 | 0.17318554 | 3.1875839 | 20 | 11 22.3 | 20.4 |
| 200341 2000 $HU_{93}$ | 16.9 | X | 72.53645 | 136.40669 | 43.18697 | 8.03047 | 0.0366293 | 0.29890000 | 2.2153998 | 20 | 6 8.8 | 19.5 |
| 200342 2000 $HT_{95}$ | 15.1 | X | 326.98042 | 268.29106 | 220.25516 | 10.61213 | 0.0215507 | 0.17894826 | 3.1187775 | 20 | — | — |
| 200343 2000 $JV$ | 16.0 | X | 41.62638 | 112.49291 | 194.15668 | 11.39413 | 0.2265594 | 0.25970185 | 2.4330593 | 20 | 11 22.6 | 19.4 |
| 200344 2000 $JA_{1}$ | 15.2 | X | 308.96989 | 84.17525 | 79.11430 | 9.79770 | 0.0494195 | 0.18337553 | 3.0683752 | 20 | — | — |
| 200345 2000 $JC_{1}$ | 15.7 | X | 138.70622 | 71.50095 | 91.00321 | 25.67046 | 0.3710512 | 0.21203709 | 2.7852328 | 20 | 8 31.9 | 21.4 |
| 200346 2000 $JU_{6}$ | 14.9 | X | 215.40978 | 176.40484 | 68.82327 | 14.93939 | 0.1391508 | 0.17993999 | 3.1073077 | 20 | — | — |
| 200347 2000 $JC_{42}$ | 17.9 | X | 170.32386 | 221.62131 | 56.36510 | 1.10968 | 0.2114359 | 0.27373330 | 2.3491872 | 20 | — | — |
| 200348 2000 $JB_{64}$ | 16.8 | X | 313.77893 | 32.86965 | 214.33929 | 4.76796 | 0.1541597 | 0.28996162 | 2.2606971 | 20 | 2 22.8 | 19.4 |
| 200349 2000 $JN_{82}$ | 16.7 | X | 164.35375 | 265.69202 | 47.55338 | 5.26122 | 0.2417547 | 0.27651328 | 2.3334153 | 20 | — | — |
| 200350 2000 $KV_{27}$ | 16.3 | X | 153.70632 | 237.32254 | 74.67548 | 8.85559 | 0.2616251 | 0.27283265 | 2.3543543 | 20 | — | — |
| 200351 2000 $KN_{34}$ | 16.7 | X | 239.33696 | 214.20428 | 79.32417 | 7.80310 | 0.1232583 | 0.28452292 | 2.2894151 | 20 | 2 5.9 | 20.1 |
| 200352 2000 $KH_{37}$ | 15.2 | X | 327.49781 | 5.37198 | 45.05475 | 10.70340 | 0.0710469 | 0.16848463 | 3.2466030 | 20 | 11 6.2 | 19.5 |
| 200353 2000 $KR_{39}$ | 17.1 | X | 169.55522 | 259.00267 | 90.60270 | 7.57518 | 0.1461947 | 0.28218889 | 2.3020218 | 20 | 2 8.4 | 20.5 |
| 200354 2000 $KR_{42}$ | 17.3 | X | 74.07734 | 167.21568 | 171.27228 | 6.29223 | 0.2416576 | 0.26083068 | 2.4260343 | 20 | — | — |
| 200355 2000 $KY_{46}$ | 15.2 | X | 204.47492 | 27.27313 | 223.88616 | 14.89877 | 0.2302575 | 0.17490062 | 3.1667113 | 20 | — | — |
| 200356 2000 $KS_{51}$ | 15.6 | X | 359.46205 | 54.11575 | 60.24535 | 10.25419 | 0.0603700 | 0.18104229 | 3.0946820 | 20 | — | — |
| 200357 2000 $KD_{52}$ | 15.8 | X | 266.43886 | 60.14807 | 144.50473 | 2.42057 | 0.2004521 | 0.18153533 | 3.0890761 | 20 | — | — |
| 200358 2000 $OO_{37}$ | 15.7 | X | 82.14058 | 100.64442 | 253.53209 | 9.15660 | 0.2643287 | 0.26327253 | 2.4110100 | 20 | — | — |
| 200359 2000 $PB_{7}$ | 16.5 | X | 140.37563 | 98.83426 | 288.00967 | 5.86403 | 0.1174381 | 0.27595245 | 2.3365759 | 20 | 2 18.5 | 19.8 |
| 200360 2000 $PN_{25}$ | 16.6 | X | 323.49944 | 141.44298 | 189.33017 | 17.11069 | 0.2681561 | 0.24518952 | 2.5281419 | 20 | 7 2.4 | 19.1 |
| 200361 2000 $PO_{32}$ | 16.3 | X | 320.71495 | 132.03643 | 201.86350 | 7.58112 | 0.1254965 | 0.24458618 | 2.5322978 | 20 | 7 20.5 | 19.1 |
| 200362 2000 $QL$ | 16.8 | X | 69.80463 | 229.35546 | 151.39519 | 1.65777 | 0.1911433 | 0.26372240 | 2.4082674 | 20 | — | — |
| 200363 2000 $QD_{2}$ | 17.2 | X | 120.65310 | 250.65516 | 158.27790 | 23.50495 | 0.0822772 | 0.37423638 | 1.9070938 | 20 | 2 3.7 | 19.1 |
| 200364 2000 $QA_{26}$ | 16.3 | X | 314.61163 | 0.79433 | 345.85760 | 8.34441 | 0.2565569 | 0.24391781 | 2.5369216 | 20 | 7 13.3 | 18.6 |
| 200365 2000 $QX_{38}$ | 15.0 | X | 170.68920 | 185.09492 | 155.42767 | 9.84534 | 0.0735635 | 0.17521870 | 3.1628778 | 20 | 2 3.4 | 19.8 |
| 200366 2000 $QG_{48}$ | 17.1 | X | 145.75418 | 13.96661 | 321.56628 | 2.07797 | 0.2092530 | 0.26955402 | 2.3734068 | 20 | 1 3.7 | 20.4 |
| 200367 2000 $QZ_{50}$ | 16.0 | X | 99.01312 | 243.53141 | 141.89962 | 5.31152 | 0.1440016 | 0.26816532 | 2.3815935 | 20 | — | — |
| 200368 2000 $QS_{51}$ | 16.5 | X | 315.65598 | 27.92598 | 332.99090 | 5.83788 | 0.2095420 | 0.24594724 | 2.5229467 | 20 | 8 14.9 | 18.6 |
| 200369 2000 $QL_{57}$ | 16.9 | X | 47.95899 | 216.87934 | 157.29115 | 2.72258 | 0.1959337 | 0.25946060 | 2.4345672 | 20 | — | — |
| 200370 2000 $QX_{64}$ | 16.1 | X | 73.81311 | 248.85437 | 110.99936 | 7.23672 | 0.1332781 | 0.26079479 | 2.4262568 | 20 | — | — |
| 200371 2000 $QF_{66}$ | 15.9 | X | 57.65774 | 317.39476 | 70.94279 | 7.70003 | 0.1101532 | 0.26141551 | 2.4224147 | 20 | — | — |
| 200372 2000 $QW_{81}$ | 16.3 | X | 48.57785 | 91.79570 | 341.85002 | 6.07570 | 0.1091251 | 0.26712263 | 2.3877871 | 20 | — | — |
| 200373 2000 $QH_{89}$ | 16.1 | X | 88.10931 | 153.66557 | 265.40312 | 5.11550 | 0.1809432 | 0.26993485 | 2.3711739 | 20 | 2 3.1 | 18.6 |
| 200374 2000 $QK_{91}$ | 16.8 | X | 98.98610 | 161.20624 | 244.41963 | 2.53064 | 0.1460722 | 0.26978155 | 2.3720721 | 20 | 1 27.4 | 19.5 |
| 200375 2000 $QQ_{91}$ | 16.4 | X | 307.08943 | 66.28232 | 325.63261 | 7.05607 | 0.2340664 | 0.24593423 | 2.5230357 | 20 | 9 8.1 | 18.3 |
| 200376 2000 $QL_{99}$ | 16.1 | X | 304.50843 | 8.23866 | 16.46587 | 5.50362 | 0.2192831 | 0.24451460 | 2.5327920 | 20 | 8 27.9 | 18.5 |
| 200377 2000 $QT_{120}$ | 16.2 | X | 87.48414 | 76.94832 | 290.54114 | 5.47649 | 0.1294042 | 0.26316061 | 2.4116936 | 20 | — | — |
| 200378 2000 $QV_{134}$ | 16.6 | X | 128.60342 | 256.49782 | 105.53881 | 5.19014 | 0.1524464 | 0.27049663 | 2.3678898 | 20 | 1 10.7 | 19.7 |
| 200379 2000 $QW_{152}$ | 17.0 | X | 300.44906 | 52.57118 | 309.47729 | 6.32950 | 0.3012177 | 0.24333454 | 2.5409739 | 20 | 6 27.6 | 19.8 |
| 200380 2000 $QG_{160}$ | 16.3 | X | 131.69566 | 77.32504 | 270.38191 | 6.31316 | 0.1290128 | 0.26859324 | 2.3790633 | 20 | — | — |
| 200381 2000 $QJ_{167}$ | 16.8 | X | 69.46437 | 46.05974 | 317.54912 | 5.94219 | 0.1288926 | 0.26133481 | 2.4229133 | 20 | — | — |
| 200382 2000 $QV_{169}$ | 16.7 | X | 154.76933 | 85.04024 | 207.33340 | 6.01267 | 0.1693398 | 0.26562964 | 2.3967258 | 20 | — | — |
| 200383 2000 $QG_{175}$ | 15.9 | X | 344.24861 | 143.31701 | 181.09035 | 6.57631 | 0.1418782 | 0.24608549 | 2.5220017 | 20 | 8 22.8 | 18.3 |
| 200384 2000 $QY_{182}$ | 17.1 | X | 343.04623 | 107.65450 | 223.46474 | 3.70986 | 0.2563152 | 0.24631105 | 2.5204618 | 20 | 9 3.7 | 18.7 |
| 200385 2000 $QH_{194}$ | 16.5 | X | 181.78074 | 207.43042 | 114.28679 | 5.30086 | 0.1806133 | 0.27365348 | 2.3496440 | 20 | 1 17.7 | 20.1 |
| 200386 2000 $QT_{196}$ | 17.1 | X | 82.60161 | 333.08141 | 9.26483 | 2.20222 | 0.2459043 | 0.26149820 | 2.4219040 | 20 | — | — |
| 200387 2000 $QM_{210}$ | 17.2 | X | 42.73755 | 7.72252 | 348.59352 | 2.08017 | 0.2145467 | 0.25671202 | 2.4519141 | 20 | — | — |
| 200388 2000 $QD_{224}$ | 16.8 | X | 37.14076 | 104.22669 | 300.65831 | 5.79269 | 0.1047356 | 0.26210106 | 2.4181887 | 20 | — | — |
| 200389 2000 $QH_{252}$ | 16.2 | X | 45.03765 | 13.57401 | 52.44696 | 10.14389 | 0.2177284 | 0.26275404 | 2.4141807 | 20 | — | — |
| 200390 2000 $RE_{18}$ | 16.3 | X | 99.03295 | 33.51392 | 302.23728 | 5.22862 | 0.1631239 | 0.26212657 | 2.4180318 | 20 | — | — |
| 200391 2000 $RU_{18}$ | 16.0 | X | 191.73255 | 38.88191 | 218.12536 | 7.52151 | 0.2322594 | 0.26714952 | 2.3876268 | 20 | — | — |
| 200392 2000 $RN_{21}$ | 16.3 | X | 292.72191 | 21.33056 | 294.35439 | 4.18444 | 0.2059567 | 0.23710346 | 2.5852990 | 20 | 4 24.6 | 19.7 |
| 200393 2000 $RM_{25}$ | 16.1 | X | 86.57648 | 139.55620 | 227.38563 | 6.05513 | 0.1222037 | 0.26321612 | 2.4113545 | 20 | — | — |
| 200394 2000 $RJ_{51}$ | 15.7 | X | 61.17830 | 315.34082 | 45.87565 | 3.57650 | 0.2059412 | 0.25604279 | 2.4561847 | 20 | — | — |
| 200395 2000 $RV_{63}$ | 16.4 | X | 30.02242 | 262.50869 | 157.16839 | 2.21927 | 0.1894668 | 0.26090816 | 2.4255540 | 20 | — | — |
| 200396 2000 $RJ_{64}$ | 15.3 | X | 239.03975 | 156.31692 | 241.94253 | 12.97290 | 0.1599690 | 0.23937355 | 2.5689281 | 20 | 6 17.2 | 19.2 |
| 200397 2000 $RR_{76}$ | 16.3 | X | 89.57790 | 304.10691 | 110.61621 | 3.29377 | 0.2132411 | 0.27010168 | 2.3701974 | 20 | 2 7.1 | 18.7 |
| 200398 2000 $RE_{89}$ | 16.3 | X | 22.18348 | 97.29859 | 276.86705 | 7.52420 | 0.0539108 | 0.25583571 | 2.4575099 | 20 | 12 28.0 | 19.1 |
| 200399 2000 $RQ_{102}$ | 15.9 | X | 15.58253 | 124.56960 | 272.18788 | 7.56181 | 0.2239275 | 0.25508138 | 2.4623524 | 20 | — | — |
| 200400 2000 $SZ_{24}$ | 16.4 | X | 46.15883 | 282.67495 | 68.31261 | 8.08764 | 0.2624522 | 0.25445533 | 2.4663896 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200401 2000 $SF_{25}$ | 15.8 | X | 298.57363 | 71.48937 | 320.33834 | 12.45819 | 0.2006737 | 0.24155292 | 2.5534529 | 20 | 8 24.6 | 18.4 |
| 200402 2000 $SG_{44}$ | 17.3 | X | 148.74192 | 74.05128 | 13.04476 | 19.62758 | 0.0960753 | 0.37968997 | 1.8887884 | 20 | 5 8.9 | 19.8 |
| 200403 2000 $SV_{52}$ | 16.5 | X | 22.71653 | 174.66089 | 244.62718 | 1.47365 | 0.1751204 | 0.25993483 | 2.4316052 | 20 | — | — |
| 200404 2000 $SW_{59}$ | 16.9 | X | 27.95891 | 191.28764 | 205.49488 | 2.79823 | 0.1818063 | 0.25748863 | 2.4469815 | 20 | — | — |
| 200405 2000 $SA_{66}$ | 16.5 | X | 4.84687 | 277.47366 | 159.77355 | 1.38813 | 0.1677051 | 0.25864597 | 2.4396765 | 20 | — | — |
| 200406 2000 $SK_{74}$ | 16.1 | X | 356.28623 | 309.44560 | 122.27054 | 5.27412 | 0.1613364 | 0.25593159 | 2.4568961 | 20 | — | — |
| 200407 2000 $SN_{79}$ | 16.3 | X | 106.74873 | 279.94000 | 41.25525 | 5.84894 | 0.1869783 | 0.26064362 | 2.4271949 | 20 | — | — |
| 200408 2000 $SH_{83}$ | 16.9 | X | 150.59044 | 273.08297 | 85.88802 | 2.10102 | 0.1731145 | 0.27047266 | 2.3680297 | 20 | 2 3.4 | 20.2 |
| 200409 2000 $ST_{91}$ | 16.2 | X | 56.98208 | 157.14775 | 268.16944 | 8.51187 | 0.2154961 | 0.26548281 | 2.3976095 | 20 | — | — |
| 200410 2000 $SH_{103}$ | 16.9 | X | 32.89571 | 76.77260 | 303.63678 | 1.08959 | 0.1879555 | 0.25609508 | 2.4558503 | 20 | — | — |
| 200411 2000 $SW_{105}$ | 16.9 | X | 36.20612 | 228.81055 | 216.07967 | 1.38905 | 0.2075975 | 0.26314527 | 2.4117873 | 20 | — | — |
| 200412 2000 $SE_{118}$ | 16.6 | X | 116.43673 | 270.22415 | 61.07969 | 2.14196 | 0.2023398 | 0.26221324 | 2.4174990 | 20 | — | — |
| 200413 2000 $SF_{126}$ | 15.7 | X | 55.62188 | 308.61466 | 55.76025 | 8.47192 | 0.2574612 | 0.25627527 | 2.4546990 | 20 | — | — |
| 200414 2000 $SQ_{133}$ | 16.4 | X | 226.24602 | 129.97193 | 285.87167 | 6.96847 | 0.1839600 | 0.23665173 | 2.5885880 | 20 | 6 25.1 | 20.4 |
| 200415 2000 $SE_{159}$ | 16.2 | X | 180.48403 | 72.50786 | 187.06324 | 5.98442 | 0.0757838 | 0.26061621 | 2.4273651 | 20 | — | — |
| 200416 2000 $SG_{181}$ | 16.7 | X | 85.90277 | 263.59451 | 91.79566 | 6.96882 | 0.1239812 | 0.26301930 | 2.4125573 | 20 | — | — |
| 200417 2000 $SO_{182}$ | 13.9 | X | 195.36629 | 164.31900 | 231.13886 | 23.06633 | 0.3175774 | 0.12624794 | 3.9353786 | 20 | 5 1.6 | 20.7 |
| 200418 2000 $SL_{198}$ | 16.3 | X | 207.17026 | 253.15399 | 359.16651 | 7.22088 | 0.0963968 | 0.26524717 | 2.3990293 | 20 | — | — |
| 200419 2000 $SN_{199}$ | 16.4 | X | 70.16219 | 73.46232 | 21.88214 | 4.05535 | 0.1455460 | 0.27016951 | 2.3698007 | 20 | 2 22.8 | 18.7 |
| 200420 2000 $SX_{208}$ | 16.6 | X | 65.80203 | 333.18793 | 82.92270 | 5.51524 | 0.1872799 | 0.26453520 | 2.4033318 | 20 | — | — |
| 200421 2000 $SW_{217}$ | 16.0 | X | 23.60243 | 58.88404 | 38.08226 | 22.32699 | 0.2927680 | 0.26040305 | 2.4286895 | 20 | — | — |
| 200422 2000 $SN_{230}$ | 16.1 | X | 53.59382 | 318.35711 | 28.53612 | 2.74528 | 0.1860965 | 0.25437162 | 2.4669307 | 20 | — | — |
| 200423 2000 $SL_{234}$ | 16.4 | X | 12.25591 | 0.70538 | 45.04824 | 10.40511 | 0.2343007 | 0.25603751 | 2.4562184 | 20 | — | — |
| 200424 2000 $ST_{236}$ | 16.8 | X | 182.05283 | 160.13900 | 151.07870 | 1.56233 | 0.1842986 | 0.26922405 | 2.3753457 | 20 | 1 5.7 | 20.5 |
| 200425 2000 $SE_{289}$ | 16.4 | X | 347.19180 | 185.95644 | 254.95445 | 3.36465 | 0.0830950 | 0.25812214 | 2.4429761 | 20 | — | — |
| 200426 2000 $SC_{299}$ | 16.5 | X | 74.88235 | 117.90477 | 312.96238 | 4.40266 | 0.2091998 | 0.26681902 | 2.3895981 | 20 | 2 4.1 | 18.5 |
| 200427 2000 $SA_{336}$ | 16.4 | X | 25.46318 | 50.25206 | 337.82278 | 5.73814 | 0.1471673 | 0.25514156 | 2.4619652 | 20 | — | — |
| 200428 2000 $SK_{337}$ | 16.7 | X | 50.10136 | 0.00006 | 75.31878 | 4.28300 | 0.1876979 | 0.26492433 | 2.4009778 | 20 | — | — |
| 200429 2000 $SF_{340}$ | 17.1 | X | 90.14404 | 216.53521 | 109.18242 | 2.86131 | 0.1789465 | 0.26034180 | 2.4290705 | 20 | — | — |
| 200430 2000 $TS_{18}$ | 16.7 | X | 280.48469 | 53.49247 | 20.47597 | 4.54325 | 0.2169436 | 0.24416682 | 2.5351964 | 20 | 9 23.6 | 19.3 |
| 200431 2000 $TH_{24}$ | 17.3 | X | 49.16675 | 337.71855 | 77.78261 | 3.15072 | 0.2076000 | 0.26151562 | 2.4217964 | 20 | — | — |
| 200432 2000 $TY_{32}$ | 16.5 | X | 121.54199 | 120.54718 | 252.99444 | 18.57431 | 0.1082667 | 0.36703185 | 1.9319693 | 20 | — | — |
| 200433 2000 $TX_{35}$ | 16.3 | X | 291.92525 | 75.73955 | 267.43661 | 3.49375 | 0.1085610 | 0.23707976 | 2.5854714 | 20 | 6 18.9 | 19.5 |
| 200434 2000 $US_{33}$ | 15.7 | X | 35.67188 | 347.58242 | 60.33159 | 11.12929 | 0.2368942 | 0.25753189 | 2.4467074 | 20 | — | — |
| 200435 2000 $UN_{34}$ | 16.6 | X | 53.86408 | 136.47841 | 241.67618 | 2.35460 | 0.2070232 | 0.25749822 | 2.4469207 | 20 | — | — |
| 200436 2000 $UV_{34}$ | 16.8 | X | 35.08620 | 105.66744 | 243.94205 | 2.26018 | 0.2764726 | 0.25269356 | 2.4778401 | 20 | — | — |
| 200437 2000 $UD_{45}$ | 16.0 | X | 44.86014 | 336.69880 | 54.91771 | 7.27886 | 0.1103706 | 0.25630948 | 2.4544806 | 20 | — | — |
| 200438 2000 $UB_{63}$ | 16.3 | X | 48.41214 | 77.60349 | 285.08588 | 4.06690 | 0.0579860 | 0.25391326 | 2.4698986 | 20 | — | — |
| 200439 2000 $UW_{74}$ | 17.0 | X | 53.93973 | 196.40137 | 228.80479 | 2.43146 | 0.1879570 | 0.26244388 | 2.4160824 | 20 | — | — |
| 200440 2000 $UY_{83}$ | 16.7 | X | 72.46930 | 297.49284 | 122.40587 | 3.21125 | 0.1762408 | 0.26356549 | 2.4092231 | 20 | 1 9.9 | 18.9 |
| 200441 2000 $UF_{108}$ | 15.0 | X | 149.43593 | 266.78627 | 162.02793 | 9.90346 | 0.2845508 | 0.12376899 | 3.9877520 | 20 | 5 12.1 | 21.8 |
| 200442 2000 $VH_{13}$ | 16.7 | X | 270.16259 | 195.53754 | 197.34071 | 5.75302 | 0.2545173 | 0.23780479 | 2.5802136 | 20 | 7 3.2 | 20.3 |
| 200443 2000 $VF_{14}$ | 16.5 | X | 97.88894 | 332.65942 | 59.27323 | 3.15395 | 0.2055861 | 0.26421943 | 2.4052463 | 20 | 1 19.3 | 19.2 |
| 200444 2000 $VQ_{14}$ | 16.7 | X | 67.01222 | 303.34037 | 134.78185 | 3.41619 | 0.1661990 | 0.26433234 | 2.4045613 | 20 | 1 24.7 | 18.8 |
| 200445 2000 $VU_{21}$ | 14.7 | X | 156.93232 | 246.39640 | 162.86922 | 2.35613 | 0.2661953 | 0.12272290 | 4.0103811 | 20 | 4 23.0 | 21.3 |
| 200446 2000 $VG_{39}$ | 16.0 | X | 261.81342 | 305.13745 | 74.63077 | 32.31689 | 0.3391879 | 0.23430268 | 2.6058608 | 20 | 5 30.3 | 20.3 |
| 200447 2000 $WD_{9}$ | 17.3 | X | 96.08439 | 33.12959 | 88.68861 | 23.52391 | 0.0830012 | 0.37126476 | 1.9172565 | 20 | 5 6.8 | 19.7 |
| 200448 2000 $WF_{9}$ | 16.6 | X | 189.76171 | 293.56882 | 66.29328 | 24.98073 | 0.1852513 | 0.37210458 | 1.9143707 | 20 | 3 21.2 | 20.0 |
| 200449 2000 $WY_{12}$ | 16.0 | X | 234.83815 | 216.33447 | 262.70556 | 14.65520 | 0.1961867 | 0.24107157 | 2.5568508 | 20 | 9 15.3 | 20.1 |
| 200450 2000 $WH_{16}$ | 16.4 | X | 290.81007 | 319.19420 | 55.58381 | 6.14994 | 0.2645705 | 0.23848085 | 2.5753349 | 20 | 7 6.5 | 19.5 |
| 200451 2000 $WN_{21}$ | 16.4 | X | 307.76864 | 309.48376 | 70.72342 | 3.44490 | 0.1976735 | 0.24087732 | 2.5582252 | 20 | 8 30.2 | 18.7 |
| 200452 2000 $WE_{59}$ | 15.6 | X | 321.82700 | 322.21177 | 91.90105 | 8.18365 | 0.2375843 | 0.24556944 | 2.5255337 | 20 | 11 27.3 | 17.3 |
| 200453 2000 $WA_{60}$ | 15.7 | X | 252.37559 | 38.09717 | 93.70201 | 7.57326 | 0.1971444 | 0.24265574 | 2.5457104 | 20 | 11 4.3 | 19.0 |
| 200454 2000 $WQ_{60}$ | 15.8 | X | 355.73948 | 201.33285 | 180.35502 | 3.27968 | 0.2503930 | 0.24633279 | 2.5203135 | 20 | 12 26.2 | 18.4 |
| 200455 2000 $WB_{77}$ | 16.5 | X | 48.48098 | 143.58499 | 269.92365 | 5.64437 | 0.1342751 | 0.25873011 | 2.4391475 | 20 | — | — |
| 200456 2000 $WX_{93}$ | 16.5 | X | 71.88409 | 300.69728 | 75.04797 | 3.49600 | 0.2226687 | 0.25751295 | 2.4468274 | 20 | — | — |
| 200457 2000 $WM_{98}$ | 16.0 | X | 305.27284 | 25.77256 | 60.21684 | 3.53636 | 0.1923637 | 0.24541038 | 2.5266249 | 20 | 12 4.9 | 18.1 |
| 200458 2000 $WY_{106}$ | 16.8 | X | 246.33831 | 85.18731 | 267.06949 | 18.05816 | 0.0656269 | 0.37733781 | 1.8966295 | 20 | 4 26.8 | 19.2 |
| 200459 2000 $WY_{110}$ | 15.7 | X | 230.21264 | 199.64557 | 290.45986 | 7.73722 | 0.1449436 | 0.24126374 | 2.5554929 | 20 | 10 4.9 | 19.5 |
| 200460 2000 $WR_{112}$ | 15.2 | X | 28.31203 | 317.03076 | 12.38613 | 5.44070 | 0.1047154 | 0.24439436 | 2.5336226 | 20 | 11 10.5 | 18.3 |
| 200461 2000 $WX_{114}$ | 15.8 | X | 325.28681 | 128.84622 | 350.55622 | 3.62502 | 0.1357718 | 0.25264339 | 2.4781681 | 20 | — | — |
| 200462 2000 $WZ_{117}$ | 15.7 | X | 322.49669 | 42.11855 | 32.49390 | 5.70245 | 0.1395095 | 0.24629271 | 2.5205869 | 20 | 12 24.3 | 18.3 |
| 200463 2000 $WB_{134}$ | 16.0 | X | 36.32167 | 6.53613 | 345.39968 | 6.66240 | 0.1990254 | 0.25142203 | 2.4861872 | 20 | — | — |
| 200464 2000 $WD_{134}$ | 15.9 | X | 153.77288 | 51.46362 | 308.80161 | 6.05085 | 0.1566417 | 0.26828794 | 2.3808678 | 20 | 2 5.9 | 19.3 |
| 200465 2000 $WT_{140}$ | 14.7 | X | 182.98537 | 128.90693 | 276.67733 | 1.63192 | 0.2517643 | 0.12414218 | 3.9797562 | 20 | 5 5.4 | 21.4 |
| 200466 2000 $WG_{148}$ | 15.9 | X | 310.94691 | 123.38629 | 238.56272 | 4.11036 | 0.0746082 | 0.23757136 | 2.5819034 | 20 | 8 18.4 | 19.1 |
| 200467 2000 $WG_{165}$ | 16.1 | X | 127.71596 | 250.40327 | 84.48802 | 7.44656 | 0.1449980 | 0.26309952 | 2.4120669 | 20 | — | — |
| 200468 2000 $WZ_{188}$ | 16.1 | X | 37.29503 | 160.52807 | 248.23932 | 7.28305 | 0.0766462 | 0.25740496 | 2.4475117 | 20 | — | — |
| 200469 2000 $WF_{192}$ | 15.9 | X | 287.96385 | 257.05190 | 111.74503 | 13.86685 | 0.2040314 | 0.23780369 | 2.5802215 | 20 | 7 3.6 | 18.9 |
| 200470 2000 $XU_{12}$ | 15.5 | X | 20.30288 | 335.89920 | 36.36799 | 11.27633 | 0.1199399 | 0.24667255 | 2.5179987 | 20 | 12 30.7 | 18.8 |
| 200471 2000 $XW_{21}$ | 15.3 | X | 192.31208 | 63.36856 | 287.99560 | 13.35094 | 0.1668595 | 0.22057702 | 2.7128714 | 20 | 2 29.7 | 20.1 |
| 200472 2000 $XY_{21}$ | 15.2 | X | 334.84531 | 84.10259 | 284.07131 | 11.54568 | 0.2050932 | 0.24306949 | 2.5428207 | 20 | 10 5.3 | 17.7 |
| 200473 2000 $XW_{33}$ | 16.5 | X | 183.11251 | 117.71393 | 294.13200 | 18.98610 | 0.1346607 | 0.37606892 | 1.9008934 | 20 | 4 30.8 | 19.6 |
| 200474 2000 $XD_{46}$ | 15.8 | X | 102.50244 | 82.12435 | 356.93956 | 18.97711 | 0.1001565 | 0.36718436 | 1.9314343 | 20 | 3 3.9 | 17.4 |
| 200475 2000 $XJ_{47}$ | 16.7 | X | 231.56178 | 73.07985 | 7.67626 | 28.55234 | 0.3503813 | 0.23443003 | 2.6049170 | 20 | 7 29.6 | 21.8 |
| 200476 2000 $YJ_{1}$ | 16.8 | X | 157.89832 | 356.58576 | 353.29556 | 20.82569 | 0.0484238 | 0.36486799 | 1.9396001 | 20 | 1 2.6 | 19.4 |
| 200477 2000 $YY_{5}$ | 16.7 | X | 75.00499 | 26.97115 | 94.28782 | 23.99991 | 0.0661354 | 0.36730549 | 1.9310096 | 20 | 3 31.4 | 19.2 |
| 200478 2000 $YU_{11}$ | 15.3 | X | 303.26612 | 155.97822 | 244.26124 | 13.07358 | 0.1796284 | 0.23830852 | 2.5765763 | 20 | 9 13.2 | 18.3 |
| 200479 2000 $YO_{12}$ | 16.1 | X | 343.13907 | 228.18909 | 154.01708 | 3.11473 | 0.2372800 | 0.24479324 | 2.5308696 | 20 | 11 29.4 | 18.1 |
| 200480 2000 $YZ_{16}$ | 16.4 | X | 180.15211 | 80.66355 | 281.74615 | 18.84499 | 0.1172142 | 0.36841926 | 1.9271159 | 20 | 2 13.5 | 19.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200481 2000 $YX_{17}$ | 15.5 | X | 307.23601 | 315.06983 | 95.71321 | 10.51568 | 0.1470540 | 0.24491148 | 2.5300550 | 20 | 10 25.5 | 18.2 |
| 200482 2000 $YA_{24}$ | 15.8 | X | 201.63666 | 237.81426 | 286.11110 | 4.38230 | 0.0955049 | 0.23853358 | 2.5749554 | 20 | 10 23.4 | 19.6 |
| 200483 2000 $YZ_{25}$ | 16.2 | X | 209.08871 | 64.17851 | 81.25527 | 18.32386 | 0.1160462 | 0.23952393 | 2.5678527 | 20 | 10 18.1 | 20.3 |
| 200484 2000 $YS_{33}$ | 16.6 | X | 195.19312 | 265.07696 | 137.56664 | 22.88966 | 0.1300087 | 0.37531832 | 1.9034269 | 20 | 5 17.2 | 19.7 |
| 200485 2000 $YE_{38}$ | 15.4 | X | 130.66704 | 267.29097 | 265.90777 | 13.17392 | 0.0495922 | 0.23055999 | 2.6339857 | 20 | 8 11.7 | 19.4 |
| 200486 2000 $YK_{38}$ | 15.6 | X | 283.77033 | 151.05282 | 289.43692 | 6.23615 | 0.1931441 | 0.24186204 | 2.5512768 | 20 | 10 7.6 | 18.6 |
| 200487 2000 $YV_{39}$ | 15.8 | X | 265.51010 | 300.93845 | 97.01198 | 4.65312 | 0.1672612 | 0.23392489 | 2.6086657 | 20 | 7 18.3 | 19.3 |
| 200488 2000 $YO_{49}$ | 16.2 | X | 270.43597 | 304.11842 | 111.48109 | 11.00258 | 0.2254595 | 0.23609134 | 2.5926826 | 20 | 8 10.5 | 19.5 |
| 200489 2000 $YW_{52}$ | 15.0 | X | 85.74429 | 101.47735 | 104.17848 | 13.85619 | 0.2108182 | 0.22528731 | 2.6749247 | 20 | 8 29.4 | 19.2 |
| 200490 2000 $YD_{60}$ | 15.5 | X | 225.03100 | 288.33036 | 257.26247 | 4.18564 | 0.1407711 | 0.24303733 | 2.5430451 | 20 | 12 14.4 | 18.9 |
| 200491 2000 $YA_{64}$ | 15.7 | X | 212.04869 | 11.41708 | 118.14013 | 8.69629 | 0.1448564 | 0.23497471 | 2.6008899 | 20 | 9 21.0 | 19.7 |
| 200492 2000 $YZ_{67}$ | 15.1 | X | 76.06381 | 32.89754 | 138.75925 | 25.50077 | 0.1005423 | 0.21785224 | 2.7354453 | 20 | 6 17.4 | 19.3 |
| 200493 2000 $YW_{70}$ | 16.3 | X | 305.09988 | 252.45654 | 165.17824 | 2.97776 | 0.2083037 | 0.24357924 | 2.5392718 | 20 | 10 20.7 | 18.3 |
| 200494 2000 $YH_{74}$ | 15.6 | X | 180.67798 | 235.32779 | 249.13651 | 11.63673 | 0.1233057 | 0.23219261 | 2.6216243 | 20 | 8 5.8 | 19.9 |
| 200495 2000 $YE_{83}$ | 15.5 | X | 336.33010 | 69.03065 | 273.33541 | 7.22272 | 0.1850943 | 0.23794196 | 2.5792218 | 20 | 8 29.6 | 17.8 |
| 200496 2000 $YK_{89}$ | 16.4 | X | 25.93484 | 182.14219 | 284.55019 | 3.88079 | 0.1553513 | 0.25816647 | 2.4426964 | 20 | — | — |
| 200497 2000 $YJ_{91}$ | 15.7 | X | 199.14490 | 283.10203 | 285.74852 | 14.18693 | 0.0561319 | 0.24484751 | 2.5304956 | 20 | 12 25.2 | 19.2 |
| 200498 2000 $YF_{120}$ | 15.3 | X | 28.04654 | 102.25502 | 259.14761 | 3.57991 | 0.1844724 | 0.24679639 | 2.5171563 | 20 | — | — |
| 200499 2000 $YE_{132}$ | 16.5 | X | 196.39231 | 65.54828 | 95.07659 | 4.63141 | 0.2566807 | 0.23421170 | 2.6065356 | 20 | 10 4.7 | 20.9 |
| 200500 2001 $AY_{7}$ | 15.6 | X | 310.30558 | 106.79637 | 266.74246 | 11.92984 | 0.1576086 | 0.23591536 | 2.5939717 | 20 | 8 20.5 | 18.5 |
| 200501 2001 $AX_{12}$ | 16.2 | X | 256.17762 | 148.16707 | 288.24746 | 1.09330 | 0.1622201 | 0.23577067 | 2.5950329 | 20 | 8 27.7 | 19.7 |
| 200502 2001 $AD_{14}$ | 16.1 | X | 294.17062 | 321.27183 | 127.61957 | 3.34942 | 0.1327763 | 0.24211714 | 2.5494844 | 20 | 11 20.9 | 18.7 |
| 200503 2001 $AT_{25}$ | 16.7 | X | 351.29598 | 210.37055 | 312.68438 | 18.30684 | 0.0514013 | 0.36083809 | 1.9540146 | 20 | — | — |
| 200504 2001 $AX_{25}$ | 15.6 | X | 205.72893 | 28.78302 | 78.19506 | 33.68841 | 0.1947389 | 0.23030903 | 2.6358988 | 20 | 8 16.4 | 20.5 |
| 200505 2001 $AB_{36}$ | 15.8 | X | 265.61616 | 78.45648 | 335.05041 | 7.70971 | 0.1641374 | 0.23436573 | 2.6053934 | 20 | 8 10.4 | 19.1 |
| 200506 2001 $AD_{52}$ | 15.9 | X | 132.81989 | 105.70202 | 33.52799 | 12.19257 | 0.2618460 | 0.22403836 | 2.6848568 | 20 | 7 22.6 | 20.8 |
| 200507 2001 $BQ_{4}$ | 15.6 | X | 177.24744 | 66.22488 | 88.68033 | 12.64887 | 0.1294847 | 0.23119137 | 2.6291880 | 20 | 9 21.5 | 19.9 |
| 200508 2001 $BR_{4}$ | 15.5 | X | 271.74502 | 340.24461 | 94.96746 | 13.47429 | 0.2189947 | 0.23685024 | 2.5871414 | 20 | 9 15.6 | 18.9 |
| 200509 2001 $BZ_{6}$ | 15.5 | X | 333.53469 | 32.08956 | 306.79739 | 13.05100 | 0.1175045 | 0.23425646 | 2.6062035 | 20 | 8 19.8 | 18.3 |
| 200510 2001 $BQ_{10}$ | 16.5 | X | 254.67443 | 295.57601 | 316.13625 | 17.79038 | 0.0653316 | 0.35762042 | 1.9657178 | 20 | — | — |
| 200511 2001 $BN_{11}$ | 16.9 | X | 263.83715 | 215.53603 | 301.59961 | 2.29206 | 0.1591782 | 0.24434438 | 2.5339681 | 20 | 12 30.0 | 19.5 |
| 200512 2001 $BR_{25}$ | 15.9 | X | 161.99664 | 36.74744 | 102.57370 | 2.29643 | 0.1138233 | 0.22801913 | 2.6535169 | 20 | 8 10.9 | 19.8 |
| 200513 2001 $BC_{41}$ | 16.0 | X | 235.45465 | 280.85279 | 162.72505 | 5.23245 | 0.0853479 | 0.23146619 | 2.6271065 | 20 | 8 21.5 | 19.5 |
| 200514 2001 $BL_{53}$ | 15.6 | X | 284.40028 | 247.67987 | 123.14856 | 14.05697 | 0.2918359 | 0.23028031 | 2.6361180 | 20 | 6 17.6 | 19.3 |
| 200515 2001 $BF_{58}$ | 16.1 | X | 255.12671 | 244.86580 | 264.09175 | 2.40930 | 0.0818401 | 0.24205333 | 2.5499324 | 20 | 12 15.7 | 19.3 |
| 200516 2001 $BS_{64}$ | 16.3 | X | 236.67303 | 260.06965 | 236.76000 | 3.95129 | 0.1849362 | 0.23805261 | 2.5784225 | 20 | 10 18.8 | 19.7 |
| 200517 2001 $BM_{75}$ | 16.2 | X | 217.24739 | 147.87783 | 322.52684 | 4.10217 | 0.1799617 | 0.23214364 | 2.6219930 | 20 | 8 25.1 | 20.3 |
| 200518 2001 $BE_{78}$ | 16.2 | X | 230.11694 | 266.18077 | 169.97051 | 3.51483 | 0.1608978 | 0.23049114 | 2.6345103 | 20 | 7 26.7 | 20.2 |
| 200519 2001 $CJ$ | 16.9 | X | 238.50893 | 246.01344 | 133.54138 | 24.09584 | 0.1018867 | 0.37485180 | 1.9050058 | 20 | 6 5.9 | 19.7 |
| 200520 2001 $CO_{8}$ | 16.2 | X | 192.83345 | 128.57619 | 30.06056 | 3.59022 | 0.1877786 | 0.23252374 | 2.6191348 | 20 | 10 1.8 | 20.3 |
| 200521 2001 $CA_{15}$ | 15.9 | X | 201.34390 | 92.24659 | 345.81387 | 7.98938 | 0.1175762 | 0.22573964 | 2.6713502 | 20 | 7 3.9 | 20.1 |
| 200522 2001 $CG_{19}$ | 16.6 | X | 226.01426 | 160.53148 | 323.29530 | 5.69880 | 0.1998217 | 0.23524771 | 2.5988773 | 20 | 9 16.9 | 20.7 |
| 200523 2001 $CU_{23}$ | 16.3 | X | 125.62412 | 235.75044 | 266.90919 | 3.66808 | 0.1021464 | 0.22271067 | 2.6955167 | 20 | 7 5.7 | 20.3 |
| 200524 2001 $CL_{25}$ | 16.2 | X | 128.91701 | 194.89641 | 344.20701 | 4.36716 | 0.1436749 | 0.22637151 | 2.6663769 | 20 | 8 29.1 | 20.2 |
| 200525 2001 $CB_{27}$ | 15.3 | X | 115.52398 | 32.94823 | 101.51229 | 15.20030 | 0.1486459 | 0.21764484 | 2.7371828 | 20 | 6 19.2 | 19.5 |
| 200526 2001 $CH_{35}$ | 16.4 | X | 132.46524 | 315.10368 | 113.74920 | 24.18636 | 0.0872324 | 0.36624374 | 1.9347398 | 20 | 4 10.2 | 19.2 |
| 200527 2001 $CU_{39}$ | 15.5 | X | 87.66761 | 96.10607 | 87.35416 | 13.96235 | 0.1147935 | 0.22213677 | 2.7001574 | 20 | 7 17.1 | 19.3 |
| 200528 2001 $CG_{48}$ | 15.8 | X | 249.07412 | 10.68558 | 65.02940 | 18.49684 | 0.1501680 | 0.23318724 | 2.6141642 | 20 | 8 29.3 | 19.9 |
| 200529 2001 $DA$ | 15.3 | X | 93.23335 | 162.90883 | 10.35905 | 17.67328 | 0.0698553 | 0.21819090 | 2.7326140 | 20 | 7 5.9 | 19.5 |
| 200530 2001 $DR_{7}$ | 15.1 | X | 77.87275 | 141.07398 | 73.18205 | 11.54398 | 0.3505131 | 0.21609237 | 2.7502770 | 20 | 9 17.8 | 19.8 |
| 200531 2001 $DH_{20}$ | 16.2 | X | 297.53890 | 46.56631 | 75.13781 | 5.42442 | 0.1209866 | 0.24233918 | 2.5479269 | 20 | — | — |
| 200532 2001 $DH_{32}$ | 15.8 | X | 253.81946 | 274.64644 | 135.02447 | 11.80548 | 0.2547797 | 0.23022117 | 2.6365694 | 20 | 7 7.1 | 19.9 |
| 200533 2001 $DV_{46}$ | 16.8 | X | 230.05558 | 255.91991 | 215.18096 | 3.33961 | 0.2028210 | 0.23365716 | 2.6106580 | 20 | 9 4.9 | 20.8 |
| 200534 2001 $DU_{73}$ | 15.9 | X | 238.97327 | 293.41412 | 175.66154 | 5.01086 | 0.1670866 | 0.23454706 | 2.6040504 | 20 | 9 18.3 | 19.3 |
| 200535 2001 $DN_{92}$ | 15.6 | X | 300.25827 | 312.89114 | 110.86971 | 14.12017 | 0.2121589 | 0.23853876 | 2.5749181 | 20 | 10 24.4 | 18.3 |
| 200536 2001 $DX_{94}$ | 15.6 | X | 141.42234 | 272.09281 | 254.90346 | 10.26101 | 0.1472501 | 0.22668529 | 2.6639158 | 20 | 8 20.8 | 20.0 |
| 200537 2001 $DA_{98}$ | 15.7 | X | 301.51899 | 160.82284 | 267.33544 | 7.96317 | 0.1426874 | 0.23914852 | 2.5705393 | 20 | 10 30.2 | 18.4 |
| 200538 2001 $EH$ | 16.5 | X | 205.05331 | 323.82957 | 170.96700 | 6.64678 | 0.2704473 | 0.23114314 | 2.6295537 | 20 | 9 6.4 | 21.1 |
| 200539 2001 $EY_{11}$ | 16.0 | X | 188.54206 | 5.13417 | 128.88467 | 3.42741 | 0.1206613 | 0.22779631 | 2.6552470 | 20 | 8 31.5 | 19.9 |
| 200540 2001 $EF_{18}$ | 16.2 | X | 212.67200 | 48.34400 | 83.92926 | 3.70580 | 0.2365699 | 0.23297187 | 2.6157750 | 20 | 9 14.7 | 20.4 |
| 200541 2001 $FX$ | 15.6 | X | 131.74250 | 322.56016 | 198.40677 | 11.26551 | 0.1276473 | 0.22226909 | 2.6990857 | 20 | 8 3.9 | 20.0 |
| 200542 2001 $FA_{8}$ | 15.9 | X | 111.84125 | 161.34678 | 35.98893 | 2.53071 | 0.1315883 | 0.22301737 | 2.6930449 | 20 | 9 3.5 | 19.9 |
| 200543 2001 $FH_{71}$ | 17.0 | X | 205.63462 | 120.00237 | 18.46326 | 6.43338 | 0.2739558 | 0.23142773 | 2.6273975 | 20 | 9 13.3 | 21.5 |
| 200544 2001 $FJ_{86}$ | 13.7 | X | 353.04277 | 200.04026 | 182.26505 | 3.04666 | 0.0678498 | 0.08031732 | 5.3202237 | 20 | 10 21.2 | 20.3 |
| 200545 2001 $FZ_{87}$ | 16.5 | X | 179.01385 | 113.56081 | 76.06658 | 6.01857 | 0.1529782 | 0.23107494 | 2.6300711 | 20 | 10 30.1 | 20.6 |
| 200546 2001 $FV_{138}$ | 16.4 | X | 180.11174 | 245.36817 | 254.16794 | 6.34253 | 0.2723435 | 0.22736518 | 2.6586026 | 20 | 8 21.3 | 21.2 |
| 200547 2001 $FA_{148}$ | 16.3 | X | 210.94170 | 227.90447 | 321.10605 | 4.43400 | 0.1023604 | 0.23687632 | 2.5869515 | 20 | 12 5.1 | 20.0 |
| 200548 2001 $FU_{154}$ | 15.5 | X | 112.20350 | 108.37574 | 28.71190 | 9.09507 | 0.0949726 | 0.21444822 | 2.7643164 | 20 | 6 10.9 | 19.5 |
| 200549 2001 $FR_{156}$ | 15.2 | X | 120.77997 | 107.61586 | 59.26518 | 9.48752 | 0.2136986 | 0.22088986 | 2.7103093 | 20 | 8 13.5 | 19.8 |
| 200550 2001 $FL_{163}$ | 16.3 | X | 194.45496 | 338.73284 | 131.49585 | 13.31424 | 0.2353315 | 0.22675376 | 2.6633795 | 20 | 7 31.4 | 20.7 |
| 200551 2001 $FM_{186}$ | 16.1 | X | 229.77649 | 237.23862 | 272.65774 | 5.63773 | 0.1433027 | 0.23566145 | 2.5958346 | 20 | 10 31.8 | 19.7 |
| 200552 2001 $HB_{12}$ | 15.9 | X | 225.76566 | 246.58480 | 1.02690 | 8.65519 | 0.2372426 | 0.24283633 | 2.5444482 | 20 | — | — |
| 200553 2001 $HD_{46}$ | 15.3 | X | 12.32952 | 176.22103 | 62.45502 | 11.59677 | 0.1852781 | 0.21028928 | 2.8006444 | 20 | 6 9.9 | 18.1 |
| 200554 2001 $KS_{20}$ | 15.6 | X | 155.00690 | 124.86628 | 99.50959 | 15.39392 | 0.1382371 | 0.23288196 | 2.6164482 | 20 | 11 21.9 | 19.9 |
| 200555 2001 $KY_{29}$ | 16.7 | X | 346.56628 | 209.13993 | 54.13227 | 5.23024 | 0.1644146 | 0.25958582 | 2.4337842 | 20 | 5 21.8 | 18.5 |
| 200556 2001 $KA_{42}$ | 15.4 | X | 156.21761 | 107.57243 | 178.28350 | 10.27158 | 0.1321476 | 0.18302130 | 3.0723330 | 20 | — | — |
| 200557 2001 $KH_{42}$ | 16.0 | X | 158.01047 | 307.58333 | 278.25937 | 3.46116 | 0.1225040 | 0.22797537 | 2.6538565 | 20 | 11 21.6 | 20.1 |
| 200558 2001 $KY_{45}$ | 14.4 | X | 226.37517 | 352.34327 | 236.21423 | 23.90430 | 0.1839064 | 0.18483102 | 3.0522456 | 20 | — | — |
| 200559 2001 $MQ_{1}$ | 17.2 | X | 246.03336 | 106.40175 | 213.10217 | 6.07840 | 0.2226651 | 0.30175140 | 2.2014214 | 20 | 3 4.6 | 20.7 |
| 200560 2001 $OG_{5}$ | 14.2 | X | 77.60814 | 93.81093 | 304.11151 | 20.08563 | 0.1719838 | 0.17552513 | 3.1591956 | 20 | 1 11.4 | 18.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200561 2001 $OJ_{16}$ | 16.8 | X | 145.80700 | 307.99835 | 53.92378 | 7.89621 | 0.2226646 | 0.28584130 | 2.2823701 | 20 | 2 8.2 | 20.3 |
| 200562 2001 $OB_{22}$ | 16.3 | X | 220.72796 | 210.83494 | 150.97577 | 4.67429 | 0.2065845 | 0.29632775 | 2.2282017 | 20 | 4 10.2 | 19.9 |
| 200563 2001 $OJ_{29}$ | 14.8 | X | 137.92731 | 190.29083 | 100.92814 | 11.30698 | 0.1947469 | 0.17454382 | 3.1710254 | 20 | — | — |
| 200564 2001 $OX_{40}$ | 16.6 | X | 192.88286 | 281.09662 | 80.84609 | 9.72749 | 0.1723932 | 0.29339391 | 2.2430312 | 20 | 3 21.0 | 20.3 |
| 200565 2001 $OE_{56}$ | 15.4 | X | 269.65461 | 186.48609 | 77.97035 | 12.69433 | 0.0917228 | 0.18979813 | 2.9987581 | 20 | 2 18.6 | 20.0 |
| 200566 2001 $OT_{63}$ | 17.0 | X | 240.37360 | 207.49115 | 116.06445 | 5.42078 | 0.1821091 | 0.29810542 | 2.2193347 | 20 | 3 11.7 | 20.5 |
| 200567 2001 $OW_{72}$ | 16.1 | X | 306.72293 | 296.53908 | 334.47178 | 7.62410 | 0.2143776 | 0.29942471 | 2.2128108 | 20 | 3 7.3 | 18.7 |
| 200568 2001 $OK_{76}$ | 15.2 | X | 44.84094 | 253.46821 | 97.58751 | 8.57223 | 0.1324106 | 0.16821046 | 3.2501298 | 20 | 12 16.7 | 19.8 |
| 200569 2001 $PX_{18}$ | 17.1 | X | 143.12915 | 355.36575 | 18.16384 | 7.11700 | 0.1986508 | 0.28964761 | 2.2623306 | 20 | 2 17.1 | 20.4 |
| 200570 2001 $PP_{19}$ | 16.7 | X | 172.24850 | 28.21720 | 0.23717 | 7.10150 | 0.1160624 | 0.29590542 | 2.2303213 | 20 | 3 26.9 | 19.8 |
| 200571 2001 $PP_{22}$ | 16.9 | X | 246.09025 | 190.24292 | 149.79027 | 7.83931 | 0.1872945 | 0.29989603 | 2.2104918 | 20 | 4 7.7 | 20.2 |
| 200572 2001 $PK_{25}$ | 17.4 | X | 301.75486 | 212.34500 | 77.41753 | 6.44795 | 0.1914900 | 0.30215699 | 2.1994510 | 20 | 4 4.6 | 19.9 |
| 200573 2001 $PB_{33}$ | 17.1 | X | 157.15669 | 325.52912 | 42.86612 | 9.11644 | 0.1328132 | 0.29003689 | 2.2603059 | 20 | 2 20.1 | 20.4 |
| 200574 2001 $PV_{34}$ | 17.1 | X | 228.45536 | 53.17988 | 259.71349 | 7.81115 | 0.2209636 | 0.29338343 | 2.2430846 | 20 | 2 10.4 | 21.0 |
| 200575 2001 $QB_{6}$ | 16.8 | X | 232.13604 | 7.65763 | 324.67709 | 5.68854 | 0.1926690 | 0.29686110 | 2.2255321 | 20 | 3 11.1 | 20.4 |
| 200576 2001 $QY_{17}$ | 16.4 | X | 216.83797 | 274.59594 | 88.93127 | 2.30008 | 0.1954443 | 0.29695997 | 2.2250381 | 20 | 4 8.8 | 19.9 |
| 200577 2001 $QT_{61}$ | 16.9 | X | 281.99878 | 133.70242 | 155.95947 | 6.73326 | 0.2011766 | 0.29952425 | 2.2123205 | 20 | 3 6.0 | 19.8 |
| 200578 Yungchuen | 17.8 | X | 172.07185 | 196.03918 | 163.16465 | 6.39449 | 0.2361387 | 0.28868758 | 2.2673435 | 20 | 2 25.4 | 21.4 |
| 200579 2001 $QF_{105}$ | 17.1 | X | 253.82371 | 41.45783 | 275.03221 | 3.60655 | 0.1402648 | 0.29919410 | 2.2139477 | 20 | 3 14.9 | 20.2 |
| 200580 2001 $QJ_{107}$ | 16.3 | X | 123.25489 | 164.51078 | 225.18928 | 24.26649 | 0.2040786 | 0.28546003 | 2.2844019 | 20 | 2 5.0 | 20.0 |
| 200581 2001 $QG_{140}$ | 16.2 | X | 221.25549 | 82.93287 | 285.73455 | 6.51172 | 0.2393828 | 0.29522004 | 2.2337719 | 20 | 4 13.3 | 20.0 |
| 200582 2001 $QT_{155}$ | 17.8 | X | 117.31872 | 162.45579 | 196.80855 | 2.21156 | 0.2530473 | 0.28161907 | 2.3051260 | 20 | 1 5.4 | 20.5 |
| 200583 2001 $QZ_{159}$ | 16.7 | X | 174.14051 | 64.20753 | 339.11674 | 7.45902 | 0.1177291 | 0.29628240 | 2.2284291 | 20 | 4 15.2 | 20.0 |
| 200584 2001 $QV_{163}$ | 16.4 | X | 198.39270 | 147.27945 | 257.19082 | 3.63464 | 0.1376719 | 0.29519998 | 2.2338731 | 20 | 5 15.4 | 19.6 |
| 200585 2001 $QE_{192}$ | 14.8 | X | 63.59165 | 101.43882 | 289.16477 | 13.68836 | 0.1751286 | 0.17129753 | 3.2109630 | 20 | — | — |
| 200586 2001 $QA_{208}$ | 17.4 | X | 195.92693 | 251.53815 | 106.39599 | 3.32368 | 0.1782903 | 0.29377921 | 2.2410696 | 20 | 3 14.8 | 20.8 |
| 200587 2001 $QU_{212}$ | 17.4 | X | 206.86525 | 18.83349 | 331.31854 | 4.11305 | 0.1865360 | 0.29368203 | 2.2415640 | 20 | 3 12.3 | 20.8 |
| 200588 2001 $QC_{293}$ | 16.0 | X | 121.07964 | 95.16970 | 279.51996 | 22.01950 | 0.2470209 | 0.28030522 | 2.3123235 | 20 | 1 24.4 | 19.2 |
| 200589 2001 $RQ_{12}$ | 18.0 | X | 240.64609 | 98.12560 | 208.40336 | 5.46570 | 0.2543065 | 0.29567088 | 2.2315006 | 20 | 2 12.2 | 21.8 |
| 200590 2001 $RU_{15}$ | 17.3 | X | 177.21281 | 153.48884 | 184.04159 | 6.60742 | 0.1977389 | 0.28940615 | 2.2635888 | 20 | 1 30.6 | 21.0 |
| 200591 2001 $RB_{20}$ | 17.2 | X | 200.45583 | 187.13443 | 179.24470 | 5.85839 | 0.0971722 | 0.29559642 | 2.2318754 | 20 | 3 28.6 | 20.3 |
| 200592 2001 $RR_{28}$ | 17.2 | X | 77.70920 | 139.33173 | 286.06711 | 1.79408 | 0.1321612 | 0.28432131 | 2.2904973 | 20 | 1 16.3 | 19.2 |
| 200593 2001 $RT_{57}$ | 17.1 | X | 282.33268 | 187.72283 | 90.82714 | 2.56882 | 0.1752137 | 0.29679055 | 2.2258847 | 20 | 2 24.8 | 20.0 |
| 200594 2001 $RG_{69}$ | 16.3 | X | 251.19236 | 114.49291 | 225.63688 | 4.13085 | 0.2155412 | 0.29795115 | 2.2201007 | 20 | 4 6.8 | 19.7 |
| 200595 2001 $RD_{70}$ | 17.3 | X | 153.35244 | 168.22303 | 217.20706 | 6.10867 | 0.1409269 | 0.28785986 | 2.2716878 | 20 | 3 3.2 | 20.5 |
| 200596 2001 $RX_{70}$ | 16.0 | X | 346.30901 | 183.62686 | 243.36772 | 4.82044 | 0.1910052 | 0.26741732 | 2.3860326 | 20 | — | — |
| 200597 2001 $RA_{77}$ | 16.3 | X | 171.58889 | 308.88263 | 89.24722 | 4.69979 | 0.2734093 | 0.28968203 | 2.2621515 | 20 | 4 17.0 | 20.2 |
| 200598 2001 $RX_{90}$ | 16.6 | X | 272.27038 | 290.42250 | 8.23439 | 6.13218 | 0.1056427 | 0.29631218 | 2.2282797 | 20 | 3 19.5 | 19.4 |
| 200599 2001 $RB_{95}$ | 16.5 | X | 165.08524 | 90.63120 | 335.73708 | 8.07238 | 0.0810648 | 0.29564465 | 2.2316326 | 20 | 5 4.7 | 19.6 |
| 200600 2001 $RX_{98}$ | 17.0 | X | 251.73410 | 222.89182 | 154.52544 | 1.23456 | 0.1097474 | 0.30459675 | 2.1876905 | 20 | 6 11.9 | 19.5 |
| 200601 2001 $RT_{109}$ | 17.6 | X | 187.24324 | 279.07960 | 136.96535 | 1.37708 | 0.2110694 | 0.29757665 | 2.2219630 | 20 | 5 19.8 | 21.3 |
| 200602 2001 $RY_{109}$ | 14.9 | X | 107.09199 | 165.01256 | 155.22793 | 7.04879 | 0.0102353 | 0.16999998 | 3.2272812 | 20 | — | — |
| 200603 2001 $RO_{129}$ | 17.2 | X | 181.78448 | 246.80113 | 153.52795 | 6.64065 | 0.1303285 | 0.29528488 | 2.2334449 | 20 | 4 25.5 | 20.5 |
| 200604 2001 $RH_{135}$ | 17.0 | X | 230.81243 | 310.85031 | 69.00097 | 4.33484 | 0.1326985 | 0.29974135 | 2.2112522 | 20 | 5 17.8 | 20.0 |
| 200605 2001 $RQ_{139}$ | 16.9 | X | 154.79786 | 356.82374 | 55.70105 | 2.95017 | 0.0948169 | 0.29330504 | 2.2434843 | 20 | 4 8.9 | 19.9 |
| 200606 2001 $RJ_{142}$ | 16.5 | X | 96.74207 | 269.22093 | 150.69045 | 22.08234 | 0.2455672 | 0.28214423 | 2.3022648 | 20 | 2 29.2 | 19.1 |
| 200607 2001 $RG_{145}$ | 17.0 | X | 269.90616 | 257.23466 | 41.36060 | 7.11453 | 0.3434943 | 0.29854154 | 2.2171728 | 20 | 2 24.4 | 20.8 |
| 200608 2001 $RW_{148}$ | 17.0 | X | 238.34099 | 241.65550 | 84.81282 | 8.17347 | 0.1853951 | 0.29724888 | 2.2235961 | 20 | 3 15.7 | 20.5 |
| 200609 2001 $RS_{151}$ | 17.2 | X | 172.20256 | 266.67802 | 91.95215 | 7.85803 | 0.1360619 | 0.28862974 | 2.2676464 | 20 | 2 22.2 | 20.6 |
| 200610 2001 $RB_{156}$ | 16.4 | X | 173.27641 | 215.00878 | 149.57826 | 10.96332 | 0.2476084 | 0.28766592 | 2.2727087 | 20 | 3 6.1 | 20.1 |
| 200611 2001 $SS_{3}$ | 15.3 | X | 100.88758 | 258.75224 | 136.11304 | 6.17017 | 0.1574004 | 0.17890858 | 3.1192386 | 20 | 2 2.2 | 19.5 |
| 200612 2001 $SH_{16}$ | 17.3 | X | 85.03348 | 68.04539 | 2.04844 | 8.89801 | 0.1517660 | 0.28410777 | 2.2916448 | 20 | 2 11.6 | 19.7 |
| 200613 2001 $SE_{25}$ | 15.5 | X | 43.91067 | 306.82684 | 121.16758 | 0.62387 | 0.1641757 | 0.17168107 | 3.2061790 | 20 | — | — |
| 200614 2001 $SV_{28}$ | 16.7 | X | 174.20847 | 28.71489 | 17.11660 | 5.16387 | 0.1368648 | 0.29376511 | 2.2411413 | 20 | 4 21.9 | 19.8 |
| 200615 2001 $SA_{31}$ | 17.4 | X | 141.39088 | 169.33425 | 156.06369 | 3.99181 | 0.1692714 | 0.27995420 | 2.3142560 | 20 | — | — |
| 200616 2001 $SX_{45}$ | 17.3 | X | 140.81449 | 294.94424 | 85.20056 | 3.36237 | 0.1867077 | 0.28579208 | 2.2826321 | 20 | 2 20.8 | 20.6 |
| 200617 2001 $ST_{50}$ | 16.4 | X | 192.65020 | 222.73466 | 80.38271 | 5.48433 | 0.1580267 | 0.28402448 | 2.2920928 | 20 | 1 2.2 | 19.7 |
| 200618 2001 $SG_{67}$ | 17.3 | X | 197.36512 | 236.50667 | 132.17497 | 1.72601 | 0.2108850 | 0.29144883 | 2.2529999 | 20 | 3 29.2 | 21.0 |
| 200619 2001 $ST_{73}$ | 17.2 | X | 105.12239 | 144.73381 | 200.63730 | 2.13946 | 0.1938639 | 0.27667218 | 2.3325219 | 20 | — | — |
| 200620 2001 $SO_{79}$ | 15.2 | X | 182.32943 | 299.91187 | 309.58733 | 8.78481 | 0.1980568 | 0.17568211 | 3.1573134 | 20 | 12 29.2 | 20.4 |
| 200621 2001 $SA_{92}$ | 17.3 | X | 87.50941 | 191.52688 | 202.05675 | 4.54717 | 0.0245442 | 0.28176817 | 2.3043128 | 20 | — | — |
| 200622 2001 $SF_{101}$ | 17.3 | X | 98.49977 | 285.44286 | 188.41244 | 3.92664 | 0.0686076 | 0.29370909 | 2.2414263 | 20 | 4 17.8 | 19.8 |
| 200623 2001 $SO_{101}$ | 17.5 | X | 250.58313 | 295.40723 | 356.66010 | 3.38754 | 0.1389182 | 0.29250004 | 2.2475987 | 20 | 2 12.4 | 20.6 |
| 200624 2001 $SJ_{102}$ | 17.7 | X | 203.13525 | 118.30955 | 208.58493 | 3.40328 | 0.1025784 | 0.28941293 | 2.2635535 | 20 | 2 7.6 | 21.0 |
| 200625 2001 $SH_{113}$ | 17.4 | X | 201.58107 | 16.10032 | 329.42881 | 3.19974 | 0.1830489 | 0.29130483 | 2.2537423 | 20 | 3 2.4 | 20.8 |
| 200626 2001 $SC_{117}$ | 15.0 | X | 14.15633 | 106.90884 | 307.68572 | 9.97407 | 0.0951593 | 0.16860029 | 3.2451180 | 20 | — | — |
| 200627 2001 $SA_{121}$ | 17.2 | X | 222.68912 | 68.74384 | 255.38258 | 3.77041 | 0.1630922 | 0.29280378 | 2.2460440 | 20 | 2 22.2 | 20.6 |
| 200628 2001 $SL_{139}$ | 17.1 | X | 36.17554 | 94.43090 | 343.27670 | 2.29570 | 0.2014301 | 0.27642334 | 2.3339215 | 20 | — | — |
| 200629 2001 $SK_{160}$ | 16.7 | X | 195.13654 | 159.49577 | 213.85960 | 4.75716 | 0.1270119 | 0.29215463 | 2.2493699 | 20 | 3 31.1 | 20.1 |
| 200630 2001 $SM_{164}$ | 16.3 | X | 210.40404 | 330.00598 | 7.89676 | 5.68999 | 0.2002256 | 0.29006529 | 2.2601584 | 20 | 3 2.5 | 19.8 |
| 200631 2001 $SB_{167}$ | 16.7 | X | 151.35203 | 348.37236 | 113.59759 | 3.66614 | 0.0908203 | 0.29873334 | 2.2162237 | 20 | 6 11.8 | 19.5 |
| 200632 2001 $SD_{179}$ | 16.4 | X | 82.52583 | 332.53516 | 81.82927 | 8.39156 | 0.0998217 | 0.27818374 | 2.3240648 | 20 | 1 5.9 | 18.8 |
| 200633 2001 $SA_{181}$ | 17.9 | X | 205.78799 | 166.97862 | 183.07926 | 1.99259 | 0.1990012 | 0.29452374 | 2.2372912 | 20 | 3 11.8 | 21.6 |
| 200634 2001 $SJ_{195}$ | 16.9 | X | 164.91121 | 82.92220 | 11.80637 | 5.30920 | 0.0194277 | 0.30181683 | 2.2011032 | 20 | 6 15.3 | 19.5 |
| 200635 2001 $ST_{208}$ | 17.3 | X | 329.58853 | 111.77537 | 150.49261 | 3.75090 | 0.1074952 | 0.29939344 | 2.2129649 | 20 | 4 22.2 | 19.3 |
| 200636 2001 $SD_{210}$ | 17.5 | X | 134.82043 | 317.47838 | 60.28106 | 3.41401 | 0.1699398 | 0.28521775 | 2.2856954 | 20 | 2 9.2 | 20.6 |
| 200637 2001 $SL_{215}$ | 16.8 | X | 238.77016 | 331.40979 | 44.97853 | 6.14664 | 0.1527697 | 0.29992420 | 2.2103534 | 20 | 5 19.1 | 19.9 |
| 200638 2001 $SF_{228}$ | 17.6 | X | 226.20530 | 124.92841 | 182.43998 | 3.89382 | 0.2543629 | 0.29113294 | 2.2546293 | 20 | 2 3.6 | 21.4 |
| 200639 2001 $SU_{238}$ | 17.8 | X | 222.37810 | 299.10726 | 72.03033 | 2.61240 | 0.0506213 | 0.29689447 | 2.2253653 | 20 | 5 2.7 | 20.4 |
| 200640 2001 $SH_{244}$ | 17.6 | X | 135.62784 | 14.61025 | 43.24096 | 3.15166 | 0.1937232 | 0.28860978 | 2.2677509 | 20 | 4 4.5 | 20.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200641 2001 $SJ_{246}$ | 16.9 | X | 162.95564 | 10.10098 | 27.59515 | 5.50325 | 0.1776360 | 0.29002546 | 2.2603653 | 20 | 4 3.7 | 20.2 |
| 200642 2001 $SN_{261}$ | 16.6 | X | 153.43780 | 146.61749 | 259.11128 | 5.96738 | 0.2329355 | 0.28798269 | 2.2710418 | 20 | 4 5.4 | 20.3 |
| 200643 2001 $SH_{283}$ | 15.9 | X | 160.40684 | 87.91868 | 5.08333 | 23.50028 | 0.2072276 | 0.29243211 | 2.2479467 | 20 | 6 8.9 | 20.1 |
| 200644 2001 $SS_{302}$ | 17.2 | X | 180.76032 | 248.95584 | 195.13371 | 2.08561 | 0.1621459 | 0.30067993 | 2.2066481 | 20 | 6 20.3 | 20.4 |
| 200645 2001 $SA_{313}$ | 17.2 | X | 310.43748 | 234.80843 | 62.35168 | 5.50451 | 0.1681927 | 0.30224634 | 2.1990175 | 20 | 5 1.5 | 19.1 |
| 200646 2001 $SX_{317}$ | 17.7 | X | 130.77583 | 72.85102 | 16.02050 | 3.12710 | 0.1458942 | 0.29216541 | 2.2493145 | 20 | 5 4.3 | 20.7 |
| 200647 2001 $SF_{327}$ | 17.5 | X | 262.58376 | 345.58883 | 304.70717 | 2.44568 | 0.1669364 | 0.29411749 | 2.2393509 | 20 | 2 18.5 | 20.8 |
| 200648 2001 $TU_{1}$ | 17.3 | X | 208.58003 | 315.88672 | 16.36333 | 3.65648 | 0.2866891 | 0.29248274 | 2.2476873 | 20 | 2 22.6 | 21.2 |
| 200649 2001 $TP_{2}$ | 17.7 | X | 244.84993 | 135.46917 | 186.37424 | 1.34261 | 0.2246029 | 0.29566425 | 2.2315340 | 20 | 3 8.8 | 21.3 |
| 200650 2001 $TQ_{2}$ | 17.1 | X | 212.27762 | 118.73845 | 331.15272 | 3.00859 | 0.1128633 | 0.30490866 | 2.1861983 | 20 | 8 5.6 | 19.9 |
| 200651 2001 $TC_{5}$ | 17.8 | X | 171.65335 | 14.06626 | 9.51626 | 2.44177 | 0.0536900 | 0.29101969 | 2.2552142 | 20 | 3 16.9 | 20.6 |
| 200652 2001 $TY_{11}$ | 17.0 | X | 147.73692 | 89.35530 | 210.04284 | 6.63429 | 0.1249243 | 0.27583556 | 2.3372359 | 20 | — | — |
| 200653 2001 $TM_{14}$ | 16.6 | X | 193.16885 | 137.16522 | 244.28922 | 5.88039 | 0.1188974 | 0.29279684 | 2.2460795 | 20 | 4 7.6 | 20.0 |
| 200654 2001 $TN_{17}$ | 16.7 | X | 160.56032 | 257.82362 | 86.86611 | 6.46895 | 0.2321431 | 0.28412174 | 2.2915697 | 20 | 1 30.5 | 20.3 |
| 200655 2001 $TT_{21}$ | 16.6 | X | 196.92991 | 270.80834 | 102.75971 | 7.95488 | 0.1165294 | 0.29272637 | 2.2464400 | 20 | 4 7.6 | 20.0 |
| 200656 2001 $TA_{27}$ | 16.9 | X | 349.52898 | 127.72430 | 300.90270 | 4.25075 | 0.1815013 | 0.26748394 | 2.3856364 | 20 | — | — |
| 200657 2001 $TF_{27}$ | 16.7 | X | 90.63884 | 95.64770 | 7.29686 | 7.16819 | 0.0970471 | 0.28746299 | 2.2737781 | 20 | 3 26.1 | 19.1 |
| 200658 2001 $TP_{36}$ | 15.7 | X | 59.88265 | 260.69924 | 245.02098 | 21.53569 | 0.2062812 | 0.28344480 | 2.2952168 | 20 | 4 24.3 | 18.1 |
| 200659 2001 $TU_{39}$ | 16.7 | X | 140.48540 | 60.85734 | 316.65457 | 4.41758 | 0.2338620 | 0.28248630 | 2.3004058 | 20 | 2 20.4 | 20.2 |
| 200660 2001 $TK_{45}$ | 16.9 | X | 244.43472 | 123.12698 | 236.53954 | 3.74015 | 0.1643438 | 0.29695673 | 2.2250543 | 20 | 5 1.4 | 19.8 |
| 200661 2001 $TD_{49}$ | 16.4 | X | 168.46961 | 341.56284 | 69.92056 | 4.70566 | 0.1680389 | 0.28963705 | 2.2623856 | 20 | 4 27.0 | 19.8 |
| 200662 2001 $TL_{51}$ | 17.3 | X | 127.04178 | 124.90337 | 193.83277 | 4.73851 | 0.2418978 | 0.27739880 | 2.3284468 | 20 | — | — |
| 200663 2001 $TP_{63}$ | 17.1 | X | 211.09077 | 326.49359 | 81.67331 | 3.98380 | 0.1309605 | 0.29732005 | 2.2232412 | 20 | 6 3.9 | 20.1 |
| 200664 2001 $TZ_{85}$ | 17.3 | X | 207.02646 | 65.04570 | 254.50825 | 3.08623 | 0.1323243 | 0.28831960 | 2.2692723 | 20 | 2 2.9 | 20.6 |
| 200665 2001 $TQ_{90}$ | 17.1 | X | 131.25488 | 88.37863 | 338.77174 | 5.90334 | 0.1171806 | 0.28924042 | 2.2644534 | 20 | 3 31.4 | 20.2 |
| 200666 2001 $TX_{99}$ | 17.2 | X | 300.57351 | 335.89302 | 351.50910 | 2.73079 | 0.0840460 | 0.30143963 | 2.2029391 | 20 | 6 14.9 | 19.4 |
| 200667 2001 $TF_{100}$ | 16.5 | X | 252.18801 | 20.85319 | 256.17563 | 2.98274 | 0.1791842 | 0.28822310 | 2.2697787 | 20 | 1 22.3 | 19.9 |
| 200668 2001 $TG_{101}$ | 16.3 | X | 90.53760 | 75.18430 | 0.55293 | 5.48140 | 0.1390842 | 0.28042563 | 2.3116615 | 20 | 2 25.2 | 18.7 |
| 200669 2001 $TL_{114}$ | 16.4 | X | 215.62807 | 346.72829 | 12.54388 | 6.50845 | 0.1915386 | 0.29253387 | 2.2474253 | 20 | 4 1.5 | 19.7 |
| 200670 2001 $TN_{124}$ | 16.6 | X | 223.83693 | 31.40423 | 280.70103 | 6.85722 | 0.1827406 | 0.29047075 | 2.2580546 | 20 | 2 7.8 | 20.3 |
| 200671 2001 $TE_{127}$ | 16.9 | X | 274.56109 | 77.57251 | 201.50990 | 6.09542 | 0.1192789 | 0.28876943 | 2.2669150 | 20 | 2 20.9 | 20.1 |
| 200672 2001 $TG_{128}$ | 17.5 | X | 176.18952 | 251.91127 | 101.06699 | 5.27977 | 0.1696878 | 0.28786735 | 2.2716484 | 20 | 2 19.8 | 21.0 |
| 200673 2001 $TH_{128}$ | 17.4 | X | 260.37173 | 269.87826 | 83.94444 | 5.28516 | 0.1899910 | 0.30043489 | 2.2078479 | 20 | 5 10.1 | 20.5 |
| 200674 2001 $TJ_{145}$ | 17.2 | X | 93.88593 | 27.37573 | 49.73128 | 8.09495 | 0.0609758 | 0.28597110 | 2.2816794 | 20 | 2 21.8 | 19.9 |
| 200675 2001 $TA_{154}$ | 17.5 | X | 180.92129 | 244.51998 | 115.26353 | 5.85524 | 0.1820151 | 0.29036587 | 2.2585984 | 20 | 3 4.5 | 21.0 |
| 200676 2001 $TZ_{161}$ | 16.8 | X | 6.21427 | 190.71586 | 301.53149 | 1.63617 | 0.0598761 | 0.28180432 | 2.3041157 | 20 | — | — |
| 200677 2001 $TV_{172}$ | 17.4 | X | 275.85682 | 305.81744 | 70.62502 | 1.02843 | 0.0740826 | 0.30443749 | 2.1884534 | 20 | 7 23.2 | 19.5 |
| 200678 2001 $TB_{179}$ | 14.9 | X | 320.73685 | 31.84332 | 232.67070 | 12.62736 | 0.1056349 | 0.18970046 | 2.9997873 | 20 | 4 14.8 | 18.8 |
| 200679 2001 $TX_{181}$ | 16.5 | X | 223.26599 | 306.41731 | 2.97747 | 6.60331 | 0.1298507 | 0.28774443 | 2.2722953 | 20 | 2 9.4 | 19.9 |
| 200680 2001 $TB_{186}$ | 16.9 | X | 51.37584 | 165.95575 | 334.16212 | 3.36497 | 0.1079319 | 0.28660149 | 2.2783324 | 20 | 3 16.7 | 19.0 |
| 200681 2001 $TB_{189}$ | 16.7 | X | 203.56099 | 2.67483 | 336.96519 | 3.16762 | 0.1714597 | 0.28829824 | 2.2693843 | 20 | 2 26.4 | 20.2 |
| 200682 2001 $TD_{190}$ | 17.0 | X | 350.86436 | 71.03110 | 12.29135 | 5.88894 | 0.1704826 | 0.26804259 | 2.3823204 | 20 | — | — |
| 200683 2001 $TP_{201}$ | 17.0 | X | 116.35302 | 346.31880 | 90.27222 | 6.98745 | 0.1468986 | 0.28826073 | 2.2695812 | 20 | 4 5.3 | 20.0 |
| 200684 2001 $TN_{215}$ | 14.8 | X | 137.09983 | 74.73116 | 312.32284 | 8.61143 | 0.0968981 | 0.17827391 | 3.1266374 | 20 | 2 23.7 | 19.5 |
| 200685 2001 $TG_{219}$ | 14.9 | X | 278.63965 | 285.93933 | 105.86791 | 6.89123 | 0.1145004 | 0.14687358 | 3.5577350 | 20 | 7 29.7 | 19.9 |
| 200686 2001 $TO_{227}$ | 16.4 | X | 327.47440 | 175.33880 | 271.43471 | 3.53659 | 0.0577184 | 0.26973062 | 2.3723707 | 20 | — | — |
| 200687 2001 $TS_{230}$ | 17.3 | X | 302.36902 | 89.90643 | 194.72591 | 4.44708 | 0.1596543 | 0.29778038 | 2.2209494 | 20 | 3 30.9 | 19.9 |
| 200688 2001 $UK_{1}$ | 17.3 | X | 113.30099 | 291.07027 | 30.22803 | 1.13264 | 0.1760072 | 0.27386161 | 2.3484534 | 20 | — | — |
| 200689 2001 $UY_{1}$ | 17.1 | X | 289.91314 | 29.44355 | 265.52889 | 6.35979 | 0.2883509 | 0.29899513 | 2.2149298 | 20 | 3 6.8 | 20.4 |
| 200690 2001 $UG_{22}$ | 16.7 | X | 198.05836 | 62.17623 | 279.12182 | 5.83683 | 0.1385901 | 0.28958798 | 2.2626412 | 20 | 2 20.4 | 20.3 |
| 200691 2001 $UQ_{25}$ | 16.6 | X | 155.89172 | 39.54566 | 332.80090 | 6.43454 | 0.1234860 | 0.28535959 | 2.2849379 | 20 | 2 19.1 | 19.8 |
| 200692 2001 $UQ_{31}$ | 16.9 | X | 102.18636 | 233.59803 | 70.74842 | 3.10170 | 0.2015210 | 0.27109111 | 2.3644268 | 20 | — | — |
| 200693 2001 $UU_{38}$ | 17.3 | X | 258.58532 | 89.20493 | 193.99388 | 5.31978 | 0.1717296 | 0.29073835 | 2.2566689 | 20 | 2 4.3 | 20.7 |
| 200694 2001 $UB_{58}$ | 16.8 | X | 16.44786 | 347.89567 | 217.50126 | 4.86487 | 0.0364202 | 0.29362718 | 2.2418431 | 20 | 4 19.7 | 19.2 |
| 200695 2001 $UD_{58}$ | 17.0 | X | 110.11876 | 307.70671 | 223.45026 | 5.18264 | 0.0578188 | 0.30163639 | 2.2019809 | 20 | 7 24.3 | 19.7 |
| 200696 2001 $UW_{59}$ | 17.6 | X | 197.74073 | 156.89716 | 215.54803 | 0.98804 | 0.2262566 | 0.29240627 | 2.2480792 | 20 | 4 2.2 | 21.1 |
| 200697 2001 $UQ_{69}$ | 17.2 | X | 206.46006 | 71.91157 | 213.24581 | 2.28366 | 0.1712449 | 0.28333311 | 2.2958200 | 20 | — | — |
| 200698 2001 $UW_{70}$ | 17.8 | X | 7.55997 | 299.47604 | 219.42307 | 2.28718 | 0.1259267 | 0.28178392 | 2.3042269 | 20 | 1 22.1 | 19.8 |
| 200699 2001 $UR_{74}$ | 16.7 | X | 178.25619 | 346.68352 | 77.67226 | 5.87439 | 0.1651046 | 0.29404301 | 2.2397290 | 20 | 5 22.7 | 20.0 |
| 200700 2001 $UC_{79}$ | 17.1 | X | 1.33459 | 256.88666 | 183.00033 | 1.50783 | 0.2011527 | 0.26972920 | 2.3723790 | 20 | — | — |
| 200701 2001 $UN_{79}$ | 17.0 | X | 102.49316 | 78.71044 | 36.75020 | 23.08449 | 0.3317533 | 0.28649684 | 2.2788872 | 20 | 5 25.9 | 20.7 |
| 200702 2001 $UT_{79}$ | 17.5 | X | 113.14055 | 347.24525 | 48.17757 | 2.92085 | 0.2053524 | 0.28162745 | 2.3050803 | 20 | 2 11.8 | 20.2 |
| 200703 2001 $UN_{94}$ | 16.5 | X | 19.21976 | 253.72769 | 125.52158 | 6.92468 | 0.1348813 | 0.26530466 | 2.3986827 | 20 | — | — |
| 200704 2001 $UH_{116}$ | 16.9 | X | 36.16311 | 142.54036 | 215.61137 | 4.18146 | 0.1953715 | 0.26586478 | 2.3953125 | 20 | — | — |
| 200705 2001 $UL_{131}$ | 17.1 | X | 110.34746 | 317.99883 | 48.83958 | 8.03862 | 0.1305458 | 0.27752924 | 2.3277172 | 20 | — | — |
| 200706 2001 $UN_{137}$ | 18.0 | X | 147.82095 | 300.44744 | 61.32287 | 3.24740 | 0.2093954 | 0.28442229 | 2.2899551 | 20 | 2 6.9 | 21.3 |
| 200707 2001 $UC_{138}$ | 17.6 | X | 126.58084 | 269.36946 | 180.32120 | 4.05189 | 0.1420076 | 0.29044148 | 2.2582063 | 20 | 5 1.9 | 20.5 |
| 200708 2001 $UU_{141}$ | 17.5 | X | 81.62848 | 38.20019 | 46.10849 | 6.31550 | 0.1755786 | 0.28227036 | 2.3015789 | 20 | 3 2.2 | 19.9 |
| 200709 2001 $UO_{149}$ | 17.1 | X | 133.91901 | 331.19878 | 74.52419 | 4.92661 | 0.1602850 | 0.28488024 | 2.2875003 | 20 | 3 16.2 | 20.2 |
| 200710 2001 $UN_{153}$ | 16.3 | X | 170.83541 | 310.66668 | 60.21310 | 7.80562 | 0.1512431 | 0.28582526 | 2.2824555 | 20 | 3 10.1 | 19.8 |
| 200711 2001 $UX_{160}$ | 16.5 | X | 177.27013 | 278.06958 | 79.12487 | 4.43135 | 0.1795924 | 0.28547686 | 2.2843121 | 20 | 2 27.3 | 20.0 |
| 200712 2001 $UG_{162}$ | 16.8 | X | 112.64561 | 242.64731 | 216.59930 | 6.52586 | 0.1337391 | 0.28658981 | 2.2783943 | 20 | 4 26.2 | 19.7 |
| 200713 2001 $UC_{163}$ | 16.5 | X | 317.81307 | 79.68832 | 57.50982 | 3.41328 | 0.1175230 | 0.26958006 | 2.3732539 | 20 | — | — |
| 200714 2001 $UP_{165}$ | 16.5 | X | 243.37039 | 211.73041 | 109.42622 | 5.97019 | 0.2150511 | 0.29478741 | 2.2359569 | 20 | 3 10.0 | 20.1 |
| 200715 2001 $UO_{174}$ | 17.2 | X | 158.69549 | 286.41715 | 64.19400 | 5.31746 | 0.1383430 | 0.28238328 | 2.3009653 | 20 | 1 28.2 | 20.5 |
| 200716 2001 $UZ_{194}$ | 16.8 | X | 1.31399 | 184.29142 | 26.74058 | 6.49222 | 0.1119621 | 0.29248552 | 2.2476731 | 20 | 4 1.1 | 18.6 |
| 200717 2001 $UT_{206}$ | 16.9 | X | 149.33460 | 293.96395 | 100.27458 | 6.39555 | 0.1065806 | 0.28801714 | 2.2708607 | 20 | 3 12.6 | 20.0 |
| 200718 2001 $UL_{219}$ | 17.3 | X | 98.49588 | 340.61293 | 94.15547 | 6.22457 | 0.1821250 | 0.28376215 | 2.2935052 | 20 | 3 15.5 | 20.0 |
| 200719 2001 $UD_{221}$ | 17.0 | X | 20.33681 | 167.88758 | 251.37954 | 2.34166 | 0.1356228 | 0.26932416 | 2.3747570 | 20 | — | — |
| 200720 2001 $UP_{221}$ | 17.1 | X | 81.46771 | 97.48785 | 55.40827 | 3.87735 | 0.1432956 | 0.29132395 | 2.2536437 | 20 | 6 1.3 | 19.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200721 2001 $VB_5$ | 15.4 | X | 180.11974 | 72.17546 | 259.95301 | 23.11906 | 0.2476751 | 0.28419299 | 2.2911867 | 20 | 1 23.4 | 19.6 |
| 200722 2001 $VM_8$ | 17.0 | X | 169.07456 | 339.05747 | 59.31712 | 2.52914 | 0.1956092 | 0.28897117 | 2.2658598 | 20 | 4 11.3 | 20.4 |
| 200723 2001 $VO_9$ | 17.7 | X | 79.08585 | 33.21455 | 60.25722 | 3.55255 | 0.1707461 | 0.28129370 | 2.3069033 | 20 | 3 9.2 | 20.0 |
| 200724 2001 $VZ_{27}$ | 17.1 | X | 63.65450 | 142.83971 | 284.21515 | 2.31612 | 0.1562854 | 0.27591836 | 2.3367683 | 20 | — | — |
| 200725 2001 $VV_{36}$ | 16.5 | X | 52.39500 | 34.24181 | 64.01553 | 6.88152 | 0.1508199 | 0.27683568 | 2.3316034 | 20 | 1 22.9 | 18.5 |
| 200726 2001 $VD_{41}$ | 17.0 | X | 176.39270 | 196.21403 | 277.61939 | 2.06351 | 0.1614081 | 0.29662464 | 2.2267146 | 20 | 7 25.9 | 20.3 |
| 200727 2001 $VW_{45}$ | 16.6 | X | 128.82847 | 2.04966 | 53.25676 | 4.81023 | 0.2436804 | 0.28346945 | 2.2950837 | 20 | 3 31.8 | 20.1 |
| 200728 2001 $VF_{48}$ | 16.4 | X | 47.53392 | 166.54598 | 249.67125 | 9.35443 | 0.1802613 | 0.27135900 | 2.3628704 | 20 | — | — |
| 200729 2001 $VR_{50}$ | 17.1 | X | 236.44540 | 100.08187 | 290.34072 | 5.83274 | 0.1201710 | 0.29870945 | 2.2163418 | 20 | 6 9.2 | 20.1 |
| 200730 2001 $VV_{53}$ | 16.9 | X | 260.38304 | 98.96742 | 321.01663 | 2.51795 | 0.1185481 | 0.30567977 | 2.1825201 | 20 | 8 26.5 | 19.2 |
| 200731 2001 $VW_{53}$ | 16.9 | X | 98.84831 | 173.09880 | 275.33449 | 3.60822 | 0.0864684 | 0.28579383 | 2.2826228 | 20 | 3 13.5 | 19.5 |
| 200732 2001 $VE_{54}$ | 16.9 | X | 133.81722 | 24.63994 | 334.05736 | 4.48663 | 0.1461461 | 0.28019700 | 2.3129188 | 20 | 1 10.8 | 19.9 |
| 200733 2001 $VA_{57}$ | 16.8 | X | 187.68683 | 41.44477 | 296.70427 | 6.11029 | 0.1308006 | 0.28570977 | 2.2830705 | 20 | 2 7.6 | 20.2 |
| 200734 2001 $VU_{59}$ | 16.7 | X | 192.86837 | 14.46953 | 4.71168 | 5.69525 | 0.1561806 | 0.29099488 | 2.2553424 | 20 | 4 5.9 | 20.1 |
| 200735 2001 $VV_{64}$ | 16.5 | X | 205.00130 | 126.19904 | 282.03684 | 4.94365 | 0.1553511 | 0.29522497 | 2.2337470 | 20 | 5 26.5 | 19.8 |
| 200736 2001 $VE_{67}$ | 16.4 | X | 162.68540 | 332.83319 | 37.41554 | 6.56972 | 0.1505353 | 0.28416290 | 2.2913484 | 20 | 2 29.1 | 19.8 |
| 200737 2001 $VH_{67}$ | 17.0 | X | 151.93738 | 37.49070 | 332.52421 | 1.74363 | 0.2235901 | 0.28335730 | 2.2956893 | 20 | 2 21.3 | 20.3 |
| 200738 2001 $VX_{70}$ | 16.9 | X | 46.90172 | 92.31034 | 0.89673 | 4.35373 | 0.0812959 | 0.27696583 | 2.3308729 | 20 | — | — |
| 200739 2001 $VD_{86}$ | 17.4 | X | 157.38309 | 84.43006 | 266.20407 | 4.11173 | 0.1388323 | 0.28190731 | 2.3035545 | 20 | 1 24.6 | 20.6 |
| 200740 2001 $VG_{95}$ | 16.3 | X | 126.88562 | 193.12516 | 171.07971 | 11.26072 | 0.3182158 | 0.27947541 | 2.3168983 | 20 | 1 29.9 | 19.8 |
| 200741 2001 $VD_{103}$ | 17.2 | X | 166.00125 | 0.78603 | 337.64634 | 2.62208 | 0.1820444 | 0.28198526 | 2.3031300 | 20 | 1 23.2 | 20.5 |
| 200742 2001 $VS_{105}$ | 16.8 | X | 175.47838 | 322.41862 | 40.78894 | 7.65273 | 0.1349188 | 0.28534820 | 2.2849987 | 20 | 3 3.5 | 20.2 |
| 200743 2001 $VP_{110}$ | 16.9 | X | 107.93736 | 243.83585 | 276.73960 | 3.32486 | 0.0907581 | 0.29490650 | 2.2353549 | 20 | 7 11.1 | 19.5 |
| 200744 2001 $VA_{112}$ | 17.1 | X | 188.74054 | 106.00948 | 260.71133 | 2.29487 | 0.1288279 | 0.28742544 | 2.2739762 | 20 | 3 15.9 | 20.4 |
| 200745 2001 $VA_{115}$ | 16.7 | X | 174.54846 | 73.23655 | 282.07743 | 2.87829 | 0.1779770 | 0.28417205 | 2.2912992 | 20 | 2 19.3 | 20.3 |
| 200746 2001 $VA_{118}$ | 16.4 | X | 137.24923 | 111.64786 | 263.13590 | 5.22929 | 0.1903892 | 0.28025799 | 2.3125833 | 20 | 2 7.8 | 19.7 |
| 200747 2001 $VB_{119}$ | 17.6 | X | 57.26970 | 79.08033 | 302.45514 | 0.40559 | 0.2005046 | 0.27049887 | 2.3678767 | 20 | — | — |
| 200748 2001 $VB_{126}$ | 16.9 | X | 156.52810 | 233.69565 | 74.56156 | 3.51623 | 0.2227525 | 0.27682537 | 2.3316613 | 20 | — | — |
| 200749 2001 $VF_{126}$ | 17.3 | X | 44.42985 | 47.71276 | 81.21114 | 3.52171 | 0.0547076 | 0.28239596 | 2.3008964 | 20 | 2 16.0 | 19.7 |
| 200750 Rix | 17.0 | X | 70.93550 | 341.08891 | 155.86850 | 8.12758 | 0.1287541 | 0.28868382 | 2.2673632 | 20 | 4 22.7 | 19.4 |
| 200751 2001 $WE_6$ | 17.3 | X | 165.15963 | 192.91047 | 179.97793 | 3.02554 | 0.0484575 | 0.28583731 | 2.2823913 | 20 | 2 22.5 | 20.1 |
| 200752 2001 $WG_6$ | 16.3 | X | 337.23030 | 143.14120 | 65.36550 | 6.81736 | 0.1524751 | 0.28534403 | 2.2850210 | 20 | 2 9.9 | 18.8 |
| 200753 2001 $WW_6$ | 16.6 | X | 57.85579 | 58.77941 | 67.26383 | 7.28377 | 0.2207245 | 0.28070795 | 2.3101113 | 20 | 3 30.3 | 18.6 |
| 200754 2001 $WA_{25}$ | 18.6 | X | 3.61056 | 83.72081 | 279.78909 | 15.51273 | 0.5168005 | 0.42352696 | 1.7560977 | 20 | — | — |
| 200755 2001 $WX_{25}$ | 16.6 | X | 357.30935 | 110.85821 | 65.77375 | 7.03019 | 0.0654295 | 0.28383573 | 2.2931089 | 20 | 2 9.4 | 19.2 |
| 200756 2001 $WR_{32}$ | 17.1 | X | 11.94240 | 13.49809 | 132.14085 | 3.11218 | 0.1785318 | 0.27783416 | 2.3260138 | 20 | 1 5.9 | 18.9 |
| 200757 2001 $WO_{39}$ | 16.3 | X | 162.03580 | 155.75975 | 215.69320 | 6.14535 | 0.1301059 | 0.28268513 | 2.2993270 | 20 | 2 22.8 | 19.6 |
| 200758 2001 $WE_{43}$ | 17.1 | X | 173.53155 | 338.91863 | 70.93422 | 5.90076 | 0.1049546 | 0.29275979 | 2.2462690 | 20 | 4 28.1 | 20.3 |
| 200759 2001 $WM_{47}$ | 15.4 | X | 170.02518 | 142.37166 | 281.93186 | 24.07657 | 0.2449956 | 0.28934175 | 2.2639247 | 20 | 5 13.3 | 19.6 |
| 200760 2001 $WE_{72}$ | 17.7 | X | 80.96436 | 252.19691 | 225.41186 | 3.61067 | 0.1953614 | 0.28469616 | 2.2884863 | 20 | 4 18.2 | 20.2 |
| 200761 2001 $WL_{92}$ | 17.8 | X | 119.74119 | 207.11355 | 132.44241 | 0.74035 | 0.2385338 | 0.27688862 | 2.3313062 | 20 | — | — |
| 200762 2001 $XX$ | 16.5 | X | 64.20362 | 309.48297 | 167.98261 | 22.58184 | 0.2694815 | 0.28031084 | 2.3122926 | 20 | 4 7.2 | 18.7 |
| 200763 2001 $XY_2$ | 15.0 | X | 95.42913 | 163.99426 | 260.43373 | 23.25597 | 0.2535176 | 0.28050736 | 2.3112125 | 20 | 2 20.2 | 18.4 |
| 200764 2001 $XP_3$ | 15.6 | X | 142.22292 | 14.41157 | 54.19789 | 25.15881 | 0.1895920 | 0.28311062 | 2.2970227 | 20 | 4 29.9 | 19.2 |
| 200765 2001 $XW_3$ | 15.9 | X | 170.92508 | 274.65469 | 65.31729 | 22.22102 | 0.2815991 | 0.28027834 | 2.3124713 | 20 | 2 12.0 | 20.4 |
| 200766 2001 $XY_4$ | 16.1 | X | 255.43533 | 354.95955 | 237.98975 | 13.31723 | 0.2082209 | 0.27284695 | 2.3542720 | 20 | — | — |
| 200767 2001 $XM_9$ | 16.9 | X | 74.79719 | 1.71228 | 45.16254 | 6.08124 | 0.1863421 | 0.27482190 | 2.3429795 | 20 | — | — |
| 200768 2001 $XM_{15}$ | 16.4 | X | 134.04713 | 337.08810 | 55.35649 | 6.97790 | 0.1021908 | 0.28066217 | 2.3103625 | 20 | 2 21.5 | 19.5 |
| 200769 2001 $XY_{15}$ | 16.2 | X | 236.36738 | 258.19866 | 98.31536 | 3.32680 | 0.1935533 | 0.29272107 | 2.2464671 | 20 | 4 18.6 | 19.6 |
| 200770 2001 $XY_{18}$ | 16.2 | X | 86.77032 | 44.13448 | 41.26465 | 6.89820 | 0.0718170 | 0.27925312 | 2.3181277 | 20 | 2 24.9 | 18.9 |
| 200771 2001 $XK_{19}$ | 16.0 | X | 136.58699 | 50.60689 | 48.76810 | 6.46995 | 0.0982470 | 0.28820870 | 2.2698544 | 20 | 5 21.1 | 18.8 |
| 200772 2001 $XJ_{23}$ | 16.4 | X | 86.79693 | 71.58138 | 316.36980 | 5.90463 | 0.1154820 | 0.27221284 | 2.3579268 | 20 | — | — |
| 200773 2001 $XL_{32}$ | 17.3 | X | 37.58019 | 286.88880 | 242.82238 | 1.27156 | 0.1064372 | 0.28598235 | 2.2816196 | 20 | 4 5.9 | 19.3 |
| 200774 2001 $XT_{36}$ | 16.4 | X | 147.15022 | 43.67657 | 9.77833 | 6.77723 | 0.1135164 | 0.28621670 | 2.2803739 | 20 | 4 2.2 | 19.3 |
| 200775 2001 $XE_{37}$ | 16.1 | X | 179.81759 | 338.75802 | 358.40591 | 6.93980 | 0.1587163 | 0.28134263 | 2.3066357 | 20 | 2 3.9 | 19.6 |
| 200776 2001 $XE_{42}$ | 16.7 | X | 9.49935 | 76.69216 | 54.70041 | 12.78168 | 0.0752644 | 0.27318897 | 2.3523067 | 20 | — | — |
| 200777 2001 $XX_{44}$ | 16.5 | X | 114.98193 | 338.16941 | 39.97714 | 7.18124 | 0.1209792 | 0.27401778 | 2.3475610 | 20 | 1 9.9 | 19.4 |
| 200778 2001 $XG_{49}$ | 16.6 | X | 227.87870 | 198.09608 | 66.15881 | 4.91652 | 0.0745831 | 0.27707239 | 2.3302752 | 20 | — | — |
| 200779 2001 $XZ_{49}$ | 16.5 | X | 188.27409 | 146.70129 | 266.54028 | 5.77017 | 0.1625957 | 0.29322646 | 2.2438851 | 20 | 5 16.2 | 19.9 |
| 200780 2001 $XL_{50}$ | 17.4 | X | 90.47722 | 0.80450 | 81.66986 | 3.24229 | 0.1680384 | 0.28164902 | 2.3049626 | 20 | 3 10.9 | 19.9 |
| 200781 2001 $XS_{54}$ | 16.6 | X | 146.92480 | 352.08452 | 80.64657 | 7.07396 | 0.1981054 | 0.28830359 | 2.2693563 | 20 | 5 6.6 | 20.1 |
| 200782 2001 $XA_{55}$ | 17.1 | X | 46.95715 | 220.91664 | 242.57126 | 1.98796 | 0.1181123 | 0.27687510 | 2.3313820 | 20 | 1 16.0 | 19.1 |
| 200783 2001 $XK_{60}$ | 16.7 | X | 31.73447 | 341.54614 | 143.83867 | 2.72413 | 0.1570064 | 0.27563873 | 2.3383484 | 20 | 1 19.4 | 18.6 |
| 200784 2001 $XF_{65}$ | 16.7 | X | 61.01491 | 354.39160 | 104.89598 | 3.23569 | 0.1688258 | 0.27660179 | 2.3329176 | 20 | 2 12.5 | 18.5 |
| 200785 2001 $XU_{65}$ | 15.8 | X | 204.82518 | 90.48878 | 261.16499 | 4.94516 | 0.1928217 | 0.28475571 | 2.2881672 | 20 | 3 11.2 | 19.7 |
| 200786 2001 $XZ_{75}$ | 17.7 | X | 151.98404 | 272.60556 | 172.84449 | 2.23556 | 0.1377451 | 0.29191448 | 2.2506033 | 20 | 5 23.5 | 20.8 |
| 200787 2001 $XG_{82}$ | 17.5 | X | 90.10282 | 241.27673 | 200.95913 | 2.95648 | 0.1376824 | 0.28100162 | 2.3085015 | 20 | 3 1.9 | 20.1 |
| 200788 2001 $XZ_{82}$ | 16.5 | X | 106.36504 | 301.87843 | 125.39489 | 5.85556 | 0.1618154 | 0.28176312 | 2.3043403 | 20 | 3 11.5 | 19.3 |
| 200789 2001 $XV_{85}$ | 16.1 | X | 141.68669 | 262.67870 | 116.78544 | 6.94173 | 0.2410521 | 0.28002750 | 2.3138521 | 20 | 2 27.5 | 19.6 |
| 200790 2001 $XD_{88}$ | 16.8 | X | 87.75172 | 107.82754 | 335.54591 | 1.56743 | 0.1661397 | 0.27766839 | 2.3269395 | 20 | 3 5.9 | 19.2 |
| 200791 2001 $XS_{91}$ | 17.5 | X | 143.94226 | 315.08127 | 60.38262 | 3.01707 | 0.1845735 | 0.28272867 | 2.2990909 | 20 | 2 18.2 | 20.8 |
| 200792 2001 $XH_{92}$ | 17.4 | X | 138.97915 | 298.02025 | 66.90492 | 7.53628 | 0.2095467 | 0.28098223 | 2.3086077 | 20 | 2 3.5 | 20.7 |
| 200793 2001 $XK_{97}$ | 16.5 | X | 172.77142 | 162.78383 | 286.34565 | 5.66923 | 0.1146153 | 0.29348186 | 2.2425831 | 20 | 6 18.9 | 19.8 |
| 200794 2001 $XC_{100}$ | 17.0 | X | 216.37870 | 324.57277 | 92.80076 | 3.39246 | 0.1666008 | 0.29472352 | 2.2362800 | 20 | 6 19.7 | 20.4 |
| 200795 2001 $XH_{102}$ | 17.3 | X | 119.94335 | 301.70901 | 48.77454 | 5.55461 | 0.2230288 | 0.27615190 | 2.3354506 | 20 | — | — |
| 200796 2001 $XG_{104}$ | 16.4 | X | 3.05377 | 121.48691 | 68.51049 | 22.78338 | 0.1109747 | 0.28286170 | 2.2983700 | 20 | 3 19.8 | 19.4 |
| 200797 2001 $XW_{110}$ | 17.2 | X | 97.56784 | 283.92325 | 145.93249 | 3.39231 | 0.1410426 | 0.28161910 | 2.3051259 | 20 | 2 26.5 | 19.7 |
| 200798 2001 $XD_{116}$ | 16.1 | X | 219.73763 | 46.88929 | 4.93335 | 4.33374 | 0.1632487 | 0.29391175 | 2.2403958 | 20 | 6 15.5 | 19.4 |
| 200799 2001 $XU_{117}$ | 16.1 | X | 138.71049 | 290.46388 | 68.02459 | 6.44056 | 0.1486657 | 0.27336761 | 2.3512818 | 20 | 1 18.1 | 19.3 |
| 200800 2001 $XY_{120}$ | 17.4 | X | 70.98078 | 267.82645 | 205.92409 | 2.30959 | 0.1092398 | 0.28376343 | 2.2934983 | 20 | 3 12.2 | 19.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200801 2001 $XD_{133}$ | 17.0 | X | 2.35933 | 358.11533 | 145.86650 | 2.62293 | 0.1625692 | 0.27502412 | 2.3418309 | 20 | — | — |
| 200802 2001 $XU_{135}$ | 17.6 | X | 42.23920 | 290.56450 | 195.87398 | 3.01554 | 0.1683186 | 0.27850072 | 2.3223009 | 20 | 2 12.1 | 19.3 |
| 200803 2001 $XJ_{142}$ | 16.8 | X | 184.35508 | 229.19236 | 94.62103 | 5.29322 | 0.2161785 | 0.28117769 | 2.3075377 | 20 | 1 23.9 | 20.4 |
| 200804 2001 $XO_{143}$ | 16.7 | X | 107.74824 | 171.88366 | 251.48493 | 5.87253 | 0.0828602 | 0.28083493 | 2.3094149 | 20 | 2 19.3 | 19.6 |
| 200805 2001 $XZ_{150}$ | 17.2 | X | 51.38195 | 3.92790 | 98.17916 | 4.04878 | 0.1347048 | 0.27668787 | 2.3324337 | 20 | 1 24.5 | 19.1 |
| 200806 2001 $XU_{151}$ | 17.0 | X | 100.77390 | 94.01214 | 339.60031 | 5.44485 | 0.2360805 | 0.28164055 | 2.3050088 | 20 | 3 20.8 | 19.9 |
| 200807 2001 $XZ_{163}$ | 16.4 | X | 310.23569 | 75.17263 | 104.76400 | 6.55621 | 0.1045938 | 0.27180067 | 2.3603099 | 20 | — | — |
| 200808 2001 $XD_{166}$ | 17.6 | X | 64.72563 | 305.55954 | 117.97003 | 2.88677 | 0.2289922 | 0.27473949 | 2.3434480 | 20 | 1 2.4 | 18.9 |
| 200809 2001 $XL_{173}$ | 17.1 | X | 65.81267 | 223.10245 | 236.92350 | 1.22950 | 0.1582156 | 0.27743620 | 2.3282376 | 20 | 2 19.8 | 19.3 |
| 200810 2001 $XR_{173}$ | 16.5 | X | 91.85089 | 301.30721 | 98.71797 | 7.67885 | 0.1012712 | 0.27375247 | 2.3490775 | 20 | 1 1.7 | 19.1 |
| 200811 2001 $XO_{174}$ | 16.3 | X | 66.68154 | 239.24066 | 260.70759 | 5.33239 | 0.0830835 | 0.28251024 | 2.3002759 | 20 | 4 7.2 | 18.9 |
| 200812 2001 $XG_{178}$ | 16.3 | X | 353.42297 | 347.26246 | 108.86419 | 6.27718 | 0.0624272 | 0.26562144 | 2.3967752 | 20 | — | — |
| 200813 2001 $XE_{179}$ | 17.0 | X | 165.16887 | 128.30960 | 276.75886 | 5.29553 | 0.1057107 | 0.28496939 | 2.2870232 | 20 | 4 8.2 | 20.4 |
| 200814 2001 $XJ_{179}$ | 17.0 | X | 168.83248 | 110.81284 | 275.34591 | 4.38628 | 0.1555853 | 0.28373714 | 2.2936400 | 20 | 3 21.4 | 20.6 |
| 200815 2001 $XF_{181}$ | 16.2 | X | 224.77528 | 155.90449 | 105.05888 | 7.42510 | 0.0891683 | 0.26988139 | 2.3714870 | 20 | — | — |
| 200816 2001 $XQ_{181}$ | 17.7 | X | 68.43062 | 303.85720 | 145.31207 | 2.90594 | 0.1949247 | 0.27630563 | 2.3345843 | 20 | 2 14.9 | 19.6 |
| 200817 2001 $XO_{187}$ | 16.9 | X | 271.79544 | 312.80288 | 235.09026 | 2.41441 | 0.1877552 | 0.26340531 | 2.4101997 | 20 | — | — |
| 200818 2001 $XD_{188}$ | 16.8 | X | 41.86215 | 182.87771 | 276.33502 | 5.59262 | 0.0724043 | 0.27290750 | 2.3539238 | 20 | 1 1.3 | 19.3 |
| 200819 2001 $XF_{189}$ | 16.9 | X | 13.39864 | 12.56783 | 127.48192 | 2.83005 | 0.1606718 | 0.27349158 | 2.3505712 | 20 | 1 3.9 | 18.8 |
| 200820 2001 $XM_{189}$ | 16.8 | X | 319.84568 | 42.56646 | 139.88540 | 4.03911 | 0.1704048 | 0.27005133 | 2.3704920 | 20 | — | — |
| 200821 2001 $XM_{208}$ | 16.8 | X | 157.43618 | 148.19300 | 227.27061 | 4.92054 | 0.1725704 | 0.28317745 | 2.2966612 | 20 | 2 26.9 | 20.3 |
| 200822 2001 $XG_{210}$ | 16.3 | X | 240.32391 | 296.08261 | 185.36009 | 5.36299 | 0.1568551 | 0.25336604 | 2.4734537 | 20 | 10 11.2 | 19.4 |
| 200823 2001 $XS_{211}$ | 17.0 | X | 9.95940 | 27.55242 | 50.28702 | 3.41434 | 0.1298109 | 0.26773152 | 2.3841654 | 20 | — | — |
| 200824 2001 $XL_{216}$ | 16.6 | X | 121.32595 | 81.97549 | 267.00954 | 6.25306 | 0.1481883 | 0.27353231 | 2.3503378 | 20 | — | — |
| 200825 2001 $XN_{219}$ | 16.9 | X | 89.20454 | 143.62207 | 280.34858 | 5.57105 | 0.0912916 | 0.27992634 | 2.3144095 | 20 | 1 27.4 | 19.4 |
| 200826 2001 $XM_{220}$ | 16.7 | X | 346.95219 | 218.71037 | 280.83187 | 6.33786 | 0.0579460 | 0.27460513 | 2.3442124 | 20 | — | — |
| 200827 2001 $XU_{220}$ | 16.6 | X | 248.73979 | 1.84035 | 263.18335 | 5.91696 | 0.1008559 | 0.28024366 | 2.3126621 | 20 | 1 9.4 | 19.9 |
| 200828 2001 $XE_{223}$ | 16.8 | X | 29.04110 | 227.84817 | 277.43676 | 4.09081 | 0.1501765 | 0.27994324 | 2.3143164 | 20 | 2 11.6 | 18.6 |
| 200829 2001 $XB_{225}$ | 16.5 | X | 36.92754 | 198.78455 | 282.66989 | 5.83445 | 0.0515887 | 0.27893815 | 2.3198724 | 20 | 1 22.7 | 18.9 |
| 200830 2001 $XK_{232}$ | 17.1 | X | 89.70072 | 107.30437 | 301.79482 | 2.36834 | 0.1515591 | 0.27722063 | 2.3294444 | 20 | 1 18.0 | 19.4 |
| 200831 2001 $XL_{234}$ | 16.6 | X | 70.81202 | 67.46974 | 52.07822 | 7.29361 | 0.0507627 | 0.28287213 | 2.2983136 | 20 | 3 17.1 | 19.2 |
| 200832 2001 $XC_{238}$ | 15.8 | X | 44.55085 | 205.85362 | 281.88200 | 5.90318 | 0.0718482 | 0.27862487 | 2.3216111 | 20 | 2 12.2 | 18.2 |
| 200833 2001 $XY_{238}$ | 16.1 | X | 198.30880 | 97.04430 | 292.13711 | 6.84761 | 0.1142612 | 0.28877008 | 2.2669116 | 20 | 4 22.5 | 19.5 |
| 200834 2001 $XZ_{238}$ | 16.2 | X | 162.93991 | 102.96120 | 269.59640 | 8.35701 | 0.1859403 | 0.28370159 | 2.2938316 | 20 | 2 27.5 | 19.9 |
| 200835 2001 $XF_{239}$ | 16.4 | X | 304.58692 | 152.19808 | 319.71826 | 2.26946 | 0.1612701 | 0.26162124 | 2.4211445 | 20 | — | — |
| 200836 2001 $XW_{239}$ | 16.4 | X | 82.62278 | 109.39068 | 283.26048 | 9.46676 | 0.1146644 | 0.27146187 | 2.3622734 | 20 | — | — |
| 200837 2001 $XQ_{242}$ | 16.3 | X | 158.94249 | 86.78315 | 265.22248 | 5.60377 | 0.1599770 | 0.27967867 | 2.3157757 | 20 | 1 29.7 | 19.8 |
| 200838 2001 $XG_{245}$ | 17.7 | X | 86.41282 | 41.41613 | 49.90581 | 8.37573 | 0.1254748 | 0.28296970 | 2.2977852 | 20 | 3 12.9 | 20.3 |
| 200839 2001 $XO_{247}$ | 16.6 | X | 120.73136 | 9.44716 | 70.18055 | 4.10561 | 0.1346574 | 0.28386367 | 2.2929584 | 20 | 4 11.3 | 19.5 |
| 200840 2001 $XN_{254}$ | 17.6 | X | 46.67298 | 278.33057 | 264.49493 | 1.94032 | 0.5579210 | 0.27788038 | 2.3257559 | 20 | 8 3.6 | 20.6 |
| 200841 2001 $XD_{256}$ | 16.0 | X | 193.12199 | 258.47888 | 65.57774 | 24.29165 | 0.2236489 | 0.28677425 | 2.2774173 | 20 | 2 5.9 | 20.3 |
| 200842 2001 $XR_{264}$ | 16.6 | X | 351.87318 | 112.08112 | 95.55491 | 5.34346 | 0.0878322 | 0.28481692 | 2.2878393 | 20 | 3 14.4 | 18.9 |
| 200843 2001 $XD_{266}$ | 17.4 | X | 50.51276 | 333.53729 | 121.37792 | 2.85839 | 0.1649068 | 0.27429470 | 2.3459807 | 20 | 1 13.5 | 19.0 |
| 200844 2001 $YW_{9}$ | 16.9 | X | 140.42018 | 76.89585 | 294.33675 | 5.93686 | 0.2562750 | 0.28124844 | 2.3071507 | 20 | 2 13.9 | 20.4 |
| 200845 2001 $YW_{10}$ | 17.2 | X | 48.55712 | 67.93390 | 50.35435 | 4.98705 | 0.1926936 | 0.27561219 | 2.3384985 | 20 | 2 20.6 | 19.0 |
| 200846 2001 $YG_{14}$ | 16.0 | X | 59.36020 | 145.31400 | 339.32449 | 5.17349 | 0.0738270 | 0.28245045 | 2.3006005 | 20 | 3 4.7 | 18.2 |
| 200847 2001 $YW_{14}$ | 17.1 | X | 128.43427 | 278.57366 | 86.92735 | 5.51784 | 0.1160422 | 0.27698941 | 2.3307406 | 20 | 1 8.8 | 20.0 |
| 200848 2001 $YT_{16}$ | 17.4 | X | 2.67418 | 198.78961 | 270.17134 | 3.57013 | 0.1387304 | 0.26978214 | 2.3720686 | 20 | — | — |
| 200849 2001 $YH_{18}$ | 16.9 | X | 46.08647 | 173.96861 | 276.48308 | 5.91040 | 0.1085471 | 0.27320751 | 2.3522002 | 20 | — | — |
| 200850 2001 $YX_{20}$ | 16.2 | X | 226.69796 | 5.78408 | 269.53620 | 6.50198 | 0.1073019 | 0.27875474 | 2.3208899 | 20 | — | — |
| 200851 2001 $YK_{30}$ | 16.6 | X | 314.17901 | 222.87974 | 288.54638 | 5.94219 | 0.0746782 | 0.26998707 | 2.3708682 | 20 | — | — |
| 200852 2001 $YD_{35}$ | 17.2 | X | 352.76749 | 127.93272 | 16.32124 | 1.35652 | 0.1411608 | 0.27339954 | 2.3510987 | 20 | — | — |
| 200853 2001 $YP_{44}$ | 16.6 | X | 101.26317 | 6.15745 | 60.62935 | 6.26062 | 0.1424050 | 0.28023484 | 2.3127106 | 20 | 3 2.2 | 19.4 |
| 200854 2001 $YG_{54}$ | 16.4 | X | 266.43032 | 101.59209 | 292.84134 | 4.46805 | 0.1302650 | 0.30005086 | 2.2097313 | 20 | 7 24.9 | 18.8 |
| 200855 2001 $YB_{58}$ | 17.3 | X | 122.26576 | 28.54130 | 347.94905 | 2.10207 | 0.2213030 | 0.27818554 | 2.3240547 | 20 | 1 30.9 | 20.4 |
| 200856 2001 $YF_{62}$ | 17.2 | X | 106.71852 | 333.51201 | 66.46606 | 2.89992 | 0.2208296 | 0.27802804 | 2.3249323 | 20 | 2 12.4 | 19.9 |
| 200857 2001 $YD_{63}$ | 16.3 | X | 165.10053 | 82.76506 | 296.91798 | 5.03667 | 0.1218472 | 0.28277089 | 2.2988621 | 20 | 3 7.2 | 19.6 |
| 200858 2001 $YR_{63}$ | 16.3 | X | 141.56179 | 126.86453 | 280.81076 | 6.27875 | 0.0983467 | 0.28257272 | 2.2999368 | 20 | 3 14.1 | 19.4 |
| 200859 2001 $YG_{69}$ | 17.4 | X | 342.94844 | 140.68678 | 340.79803 | 1.08468 | 0.1341415 | 0.26732405 | 2.3865875 | 20 | — | — |
| 200860 2001 $YB_{70}$ | 16.8 | X | 41.49489 | 80.35744 | 9.40452 | 2.27465 | 0.1822417 | 0.27267932 | 2.3552368 | 20 | — | — |
| 200861 2001 $YW_{70}$ | 16.6 | X | 155.65087 | 111.48523 | 299.96458 | 4.65041 | 0.1377762 | 0.28500569 | 2.2868290 | 20 | 4 8.7 | 20.0 |
| 200862 2001 $YY_{70}$ | 16.7 | X | 111.59494 | 289.13010 | 94.08760 | 7.44681 | 0.1194494 | 0.27432563 | 2.3458044 | 20 | 1 10.9 | 19.5 |
| 200863 2001 $YT_{72}$ | 16.5 | X | 74.54963 | 42.53810 | 94.15096 | 3.59559 | 0.0517298 | 0.28311662 | 2.2969902 | 20 | 4 14.6 | 19.0 |
| 200864 2001 $YC_{75}$ | 16.5 | X | 62.41161 | 136.25839 | 303.32199 | 6.21518 | 0.0820953 | 0.27475660 | 2.3433507 | 20 | 1 7.9 | 18.9 |
| 200865 2001 $YH_{78}$ | 16.4 | X | 319.67306 | 108.04963 | 82.17890 | 4.17796 | 0.1064740 | 0.27229693 | 2.3574413 | 20 | — | — |
| 200866 2001 $YA_{80}$ | 17.4 | X | 106.81220 | 168.71204 | 316.26110 | 1.19255 | 0.1593109 | 0.28554364 | 2.2839560 | 20 | 5 28.4 | 20.4 |
| 200867 2001 $YA_{83}$ | 16.2 | X | 88.01117 | 254.45310 | 84.76780 | 7.95873 | 0.0743351 | 0.26245399 | 2.4160204 | 20 | — | — |
| 200868 2001 $YU_{84}$ | 16.2 | X | 209.76136 | 247.92214 | 107.22133 | 6.40901 | 0.1865292 | 0.28482381 | 2.2878025 | 20 | 3 25.9 | 19.9 |
| 200869 2001 $YV_{84}$ | 16.1 | X | 74.58947 | 163.33565 | 284.42620 | 6.44693 | 0.1178660 | 0.27622592 | 2.3350334 | 20 | 2 10.3 | 18.6 |
| 200870 2001 $YU_{86}$ | 16.3 | X | 45.63735 | 59.02686 | 72.74621 | 3.46807 | 0.1072830 | 0.27700176 | 2.3306713 | 20 | 2 26.8 | 18.5 |
| 200871 2001 $YW_{88}$ | 16.8 | X | 63.46738 | 81.48522 | 93.29324 | 5.51581 | 0.0743086 | 0.28578769 | 2.2826555 | 20 | 5 26.5 | 19.3 |
| 200872 2001 $YX_{89}$ | 17.1 | X | 352.70949 | 93.33137 | 28.52869 | 1.77819 | 0.1415702 | 0.26784751 | 2.3834771 | 20 | — | — |
| 200873 2001 $YS_{98}$ | 16.8 | X | 258.78532 | 43.10013 | 152.58927 | 2.48803 | 0.1501875 | 0.26653591 | 2.3912899 | 20 | — | — |
| 200874 2001 $YV_{104}$ | 17.4 | X | 315.06758 | 290.67705 | 229.62958 | 2.04000 | 0.1811292 | 0.26671111 | 2.3902426 | 20 | — | — |
| 200875 2001 $YL_{106}$ | 16.3 | X | 45.02017 | 178.97551 | 282.28751 | 6.82819 | 0.0711950 | 0.27321426 | 2.3521615 | 20 | 1 9.2 | 18.8 |
| 200876 2001 $YV_{106}$ | 17.0 | X | 36.97943 | 302.26658 | 178.61012 | 2.69331 | 0.1745505 | 0.27420054 | 2.3465178 | 20 | 1 23.9 | 18.6 |
| 200877 2001 $YC_{108}$ | 16.2 | X | 145.24786 | 283.00517 | 112.37192 | 5.76784 | 0.2307983 | 0.28096913 | 2.3086795 | 20 | 3 21.6 | 19.9 |
| 200878 2001 $YQ_{116}$ | 16.5 | X | 210.21963 | 267.32105 | 114.69269 | 7.24253 | 0.2051113 | 0.29181548 | 2.2511123 | 20 | 4 28.7 | 20.2 |
| 200879 2001 $YC_{125}$ | 16.1 | X | 227.33890 | 272.86672 | 43.25595 | 7.16133 | 0.1349999 | 0.28357593 | 2.2945092 | 20 | 2 23.6 | 19.6 |
| 200880 2001 $YD_{126}$ | 16.4 | X | 328.26172 | 170.54683 | 316.64095 | 6.27555 | 0.0654305 | 0.26738201 | 2.3862426 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200881 2001 $YG_{126}$ | 16.3 | X | 327.21893 | 130.17715 | 28.57732 | 6.72123 | 0.0403037 | 0.27187361 | 2.3598877 | 20 | — | — |
| 200882 2001 $YT_{127}$ | 16.6 | X | 166.88807 | 41.52385 | 334.79278 | 4.41978 | 0.1607645 | 0.28285011 | 2.2984328 | 20 | 3 9.0 | 20.1 |
| 200883 2001 $YJ_{131}$ | 16.5 | X | 131.58907 | 70.99252 | 5.18662 | 5.01447 | 0.1814931 | 0.28616986 | 2.2806228 | 20 | 4 21.3 | 19.7 |
| 200884 2001 $YS_{135}$ | 17.0 | X | 335.88770 | 60.04957 | 115.50086 | 3.57416 | 0.1190431 | 0.27372343 | 2.3492437 | 20 | — | — |
| 200885 2001 $YX_{147}$ | 16.4 | X | 84.63584 | 338.99006 | 50.63460 | 6.88610 | 0.2415476 | 0.27270619 | 2.3550821 | 20 | — | — |
| 200886 2002 $AJ_{9}$ | 16.3 | X | 337.65415 | 129.92599 | 34.91160 | 2.96190 | 0.1459310 | 0.26936380 | 2.3745240 | 20 | — | — |
| 200887 2002 $AY_{11}$ | 16.8 | X | 261.77241 | 133.23192 | 73.31423 | 3.17534 | 0.1390746 | 0.26444016 | 2.4039076 | 20 | — | — |
| 200888 2002 $AJ_{12}$ | 17.8 | X | 46.99510 | 132.03745 | 330.17031 | 2.01651 | 0.1885860 | 0.27381609 | 2.3487137 | 20 | 1 19.1 | 19.5 |
| 200889 2002 $AS_{12}$ | 16.8 | X | 355.33690 | 247.34161 | 291.75228 | 1.61555 | 0.1493994 | 0.27298720 | 2.3534656 | 20 | 1 29.2 | 19.1 |
| 200890 2002 $AS_{15}$ | 15.8 | X | 169.24578 | 275.10554 | 101.08838 | 7.98552 | 0.2317106 | 0.28206058 | 2.3027200 | 20 | 3 19.6 | 19.7 |
| 200891 2002 $AE_{17}$ | 16.4 | X | 348.40835 | 166.83809 | 336.47564 | 6.24068 | 0.1695314 | 0.26600271 | 2.3944844 | 20 | — | — |
| 200892 2002 $AU_{22}$ | 17.2 | X | 35.78851 | 273.47996 | 209.84447 | 1.73392 | 0.1723405 | 0.27404773 | 2.3473899 | 20 | 1 25.2 | 18.9 |
| 200893 2002 $AQ_{28}$ | 16.6 | X | 317.20169 | 163.01665 | 353.19990 | 5.91898 | 0.1097997 | 0.26553805 | 2.3972769 | 20 | — | — |
| 200894 2002 $AM_{34}$ | 16.4 | X | 34.94273 | 120.94586 | 323.66656 | 5.63143 | 0.1214843 | 0.26915392 | 2.3757582 | 20 | — | — |
| 200895 2002 $AR_{38}$ | 15.8 | X | 220.92926 | 58.62835 | 131.58411 | 7.18142 | 0.1712203 | 0.25701238 | 2.4500034 | 20 | 12 14.9 | 19.2 |
| 200896 2002 $AA_{41}$ | 16.4 | X | 110.48076 | 146.26035 | 273.77298 | 5.82345 | 0.0682222 | 0.27839922 | 2.3228654 | 20 | 2 16.9 | 19.3 |
| 200897 2002 $AM_{41}$ | 17.7 | X | 55.00552 | 292.99362 | 142.54729 | 2.78219 | 0.1507176 | 0.27106016 | 2.3646067 | 20 | — | — |
| 200898 2002 $AR_{41}$ | 17.1 | X | 284.81424 | 258.51298 | 279.89879 | 4.08405 | 0.1742160 | 0.26463022 | 2.4027565 | 20 | — | — |
| 200899 2002 $AJ_{43}$ | 16.6 | X | 352.30676 | 313.70299 | 257.57931 | 2.55949 | 0.1666306 | 0.27928839 | 2.3179326 | 20 | 3 7.3 | 18.6 |
| 200900 2002 $AV_{43}$ | 17.2 | X | 274.13926 | 36.74908 | 166.97714 | 1.85764 | 0.1422529 | 0.26665750 | 2.3905629 | 20 | — | — |
| 200901 2002 $AM_{44}$ | 17.7 | X | 35.11945 | 196.21770 | 270.76426 | 2.61067 | 0.1654302 | 0.27287516 | 2.3541098 | 20 | — | — |
| 200902 2002 $AT_{47}$ | 15.3 | X | 149.00089 | 205.99271 | 228.54034 | 1.91017 | 0.2407225 | 0.12554802 | 3.9499912 | 20 | 5 13.9 | 21.7 |
| 200903 2002 $AW_{47}$ | 17.0 | X | 77.35866 | 133.57100 | 285.71614 | 1.28759 | 0.1805131 | 0.27373526 | 2.3491760 | 20 | 1 16.3 | 19.0 |
| 200904 2002 $AX_{49}$ | 16.9 | X | 268.31149 | 64.58375 | 142.70180 | 4.22402 | 0.1166930 | 0.26553363 | 2.3973036 | 20 | — | — |
| 200905 2002 $AG_{53}$ | 16.8 | X | 109.08844 | 185.50036 | 271.74937 | 2.77586 | 0.0883112 | 0.28141852 | 2.3062211 | 20 | 4 10.8 | 19.8 |
| 200906 2002 $AJ_{53}$ | 16.8 | X | 60.78545 | 230.80359 | 227.94654 | 1.70166 | 0.1499985 | 0.27474308 | 2.3434276 | 20 | 2 7.5 | 18.9 |
| 200907 2002 $AR_{53}$ | 17.0 | X | 341.56674 | 296.80647 | 262.61930 | 1.16691 | 0.1251076 | 0.27668431 | 2.3324537 | 20 | 2 6.5 | 19.4 |
| 200908 2002 $AZ_{67}$ | 17.0 | X | 317.23622 | 90.73074 | 91.90611 | 2.24023 | 0.1245770 | 0.27037853 | 2.3685792 | 20 | — | — |
| 200909 2002 $AM_{70}$ | 16.5 | X | 330.61515 | 92.02393 | 64.67815 | 3.15798 | 0.1553145 | 0.27091171 | 2.3654705 | 20 | — | — |
| 200910 2002 $AF_{72}$ | 17.4 | X | 102.75662 | 79.64414 | 315.49987 | 1.52953 | 0.2323250 | 0.27683515 | 2.3316064 | 20 | 2 1.2 | 19.7 |
| 200911 2002 $AP_{78}$ | 16.3 | X | 275.63947 | 231.80697 | 315.66118 | 5.72922 | 0.0548662 | 0.26496460 | 2.4007345 | 20 | — | — |
| 200912 2002 $AY_{88}$ | 17.1 | X | 325.01960 | 17.37143 | 167.86426 | 4.03203 | 0.2057835 | 0.27020419 | 2.3695980 | 20 | — | — |
| 200913 2002 $AN_{93}$ | 17.0 | X | 76.67775 | 54.10175 | 107.86140 | 4.79522 | 0.0736649 | 0.28608002 | 2.2811002 | 20 | 5 27.9 | 19.6 |
| 200914 2002 $AL_{96}$ | 16.2 | X | 226.96007 | 117.29947 | 102.57490 | 7.77085 | 0.0576213 | 0.26294334 | 2.4130219 | 20 | — | — |
| 200915 2002 $AH_{98}$ | 16.7 | X | 263.76508 | 215.87278 | 332.03533 | 3.97313 | 0.1265713 | 0.26232467 | 2.4168144 | 20 | — | — |
| 200916 2002 $AH_{99}$ | 15.8 | X | 237.85714 | 229.26157 | 335.56602 | 4.85075 | 0.1646240 | 0.25997108 | 2.4313792 | 20 | — | — |
| 200917 2002 $AP_{100}$ | 16.9 | X | 265.28384 | 134.17618 | 65.13106 | 3.05974 | 0.1217389 | 0.26356757 | 2.4092104 | 20 | — | — |
| 200918 2002 $AS_{104}$ | 16.7 | X | 15.38405 | 171.91208 | 319.52845 | 2.04432 | 0.0536634 | 0.27247201 | 2.3564313 | 20 | 1 5.5 | 19.2 |
| 200919 2002 $AU_{104}$ | 16.2 | X | 179.19725 | 268.62511 | 305.72438 | 5.16895 | 0.0726059 | 0.25460361 | 2.4654319 | 20 | 12 8.0 | 19.6 |
| 200920 2002 $AK_{106}$ | 17.5 | X | 40.76836 | 112.38179 | 350.64554 | 1.37512 | 0.1450178 | 0.27254201 | 2.3560278 | 20 | 1 5.5 | 19.4 |
| 200921 2002 $AC_{112}$ | 16.6 | X | 235.93166 | 95.61790 | 110.65690 | 3.24035 | 0.1403664 | 0.25929066 | 2.4356309 | 20 | — | — |
| 200922 2002 $AK_{114}$ | 16.3 | X | 240.71078 | 93.89627 | 111.05793 | 5.58302 | 0.1248516 | 0.26066786 | 2.4270444 | 20 | — | — |
| 200923 2002 $AB_{117}$ | 16.5 | X | 49.27030 | 332.23298 | 112.16183 | 4.12496 | 0.1671496 | 0.27071007 | 2.3666449 | 20 | — | — |
| 200924 2002 $AP_{119}$ | 17.2 | X | 26.71961 | 42.51810 | 66.54262 | 2.27652 | 0.1456623 | 0.27039201 | 2.3685005 | 20 | — | — |
| 200925 2002 $AP_{121}$ | 16.1 | X | 257.56647 | 42.89320 | 116.01985 | 7.20617 | 0.0589294 | 0.25685869 | 2.4509806 | 20 | — | — |
| 200926 2002 $AS_{132}$ | 17.1 | X | 34.91284 | 264.39709 | 293.80404 | 2.43113 | 0.0737576 | 0.28548033 | 2.2842936 | 20 | 5 12.3 | 19.3 |
| 200927 2002 $AA_{134}$ | 17.5 | X | 98.57897 | 278.13863 | 125.90592 | 5.32667 | 0.2256797 | 0.27676548 | 2.3319976 | 20 | 2 6.7 | 20.0 |
| 200928 2002 $AY_{151}$ | 16.0 | X | 91.14114 | 157.71496 | 132.94836 | 8.34021 | 0.0791833 | 0.25071711 | 2.4908451 | 20 | 12 8.2 | 19.6 |
| 200929 2002 $AT_{159}$ | 17.1 | X | 260.85390 | 272.78164 | 264.02076 | 1.36385 | 0.1543507 | 0.25869216 | 2.4393861 | 20 | — | — |
| 200930 2002 $AG_{160}$ | 17.1 | X | 348.98349 | 329.37358 | 171.78662 | 1.54137 | 0.1398800 | 0.26780505 | 2.3837290 | 20 | — | — |
| 200931 2002 $AN_{161}$ | 16.9 | X | 312.91780 | 11.82675 | 143.03737 | 2.91771 | 0.1322693 | 0.26398115 | 2.4066934 | 20 | — | — |
| 200932 2002 $AA_{162}$ | 16.5 | X | 16.27539 | 353.83383 | 141.52271 | 5.59249 | 0.1342249 | 0.27115526 | 2.3640538 | 20 | 1 5.7 | 18.7 |
| 200933 2002 $AU_{163}$ | 17.0 | X | 268.52232 | 268.37532 | 269.71509 | 1.66195 | 0.1314850 | 0.25962224 | 2.4335566 | 20 | — | — |
| 200934 2002 $AL_{164}$ | 16.5 | X | 25.36556 | 315.28337 | 144.41146 | 2.75621 | 0.0904544 | 0.26776653 | 2.3839576 | 20 | — | — |
| 200935 2002 $AO_{164}$ | 16.9 | X | 79.18800 | 230.32636 | 239.02190 | 0.96225 | 0.1231780 | 0.27724873 | 2.3292870 | 20 | 3 22.5 | 19.2 |
| 200936 2002 $AC_{168}$ | 17.0 | X | 16.50147 | 347.49776 | 134.68780 | 2.01528 | 0.1262822 | 0.27010136 | 2.3701993 | 20 | — | — |
| 200937 2002 $AM_{168}$ | 16.9 | X | 215.98744 | 287.47865 | 294.31613 | 1.32844 | 0.1374731 | 0.25713896 | 2.4491993 | 20 | — | — |
| 200938 2002 $AN_{172}$ | 16.1 | X | 242.06816 | 108.29271 | 98.03947 | 5.53151 | 0.1440919 | 0.26090273 | 2.4255876 | 20 | — | — |
| 200939 2002 $AF_{173}$ | 17.0 | X | 65.90433 | 88.34098 | 310.01738 | 4.10431 | 0.1220448 | 0.26762912 | 2.3847735 | 20 | — | — |
| 200940 2002 $AB_{175}$ | 17.5 | X | 339.60051 | 113.01261 | 16.84632 | 1.50004 | 0.1320255 | 0.26583058 | 2.3955179 | 20 | — | — |
| 200941 2002 $AP_{176}$ | 17.2 | X | 326.78857 | 157.52591 | 346.06716 | 2.10144 | 0.1537196 | 0.26502046 | 2.4003972 | 20 | — | — |
| 200942 2002 $AQ_{176}$ | 16.8 | X | 314.09308 | 29.98175 | 112.01803 | 6.06805 | 0.0863237 | 0.26311278 | 2.4119859 | 20 | — | — |
| 200943 2002 $AK_{194}$ | 17.1 | X | 169.97633 | 285.21998 | 109.86807 | 6.87700 | 0.1038603 | 0.28286001 | 2.2983792 | 20 | 4 6.7 | 20.4 |
| 200944 2002 $AV_{199}$ | 17.6 | X | 45.45040 | 120.78431 | 307.58023 | 4.22182 | 0.1866775 | 0.27094109 | 2.3652995 | 20 | — | — |
| 200945 2002 $AJ_{203}$ | 18.1 | X | 40.10598 | 288.23429 | 147.38562 | 1.48982 | 0.1650078 | 0.26955536 | 2.3733989 | 20 | — | — |
| 200946 2002 $BF_{10}$ | 16.6 | X | 49.65136 | 119.30512 | 342.17441 | 5.67862 | 0.1878059 | 0.27226623 | 2.3576185 | 20 | 1 25.9 | 18.3 |
| 200947 2002 $BK_{12}$ | 16.7 | X | 188.41324 | 7.43512 | 124.79102 | 7.15710 | 0.0231676 | 0.24412502 | 2.5354858 | 20 | 9 7.7 | 20.1 |
| 200948 2002 $BE_{13}$ | 15.6 | X | 68.68195 | 42.33090 | 9.83207 | 9.35640 | 0.1972150 | 0.27019939 | 2.3696260 | 20 | — | — |
| 200949 2002 $BR_{13}$ | 16.4 | X | 15.23150 | 6.27739 | 78.96606 | 8.29728 | 0.0771119 | 0.26665732 | 2.3905640 | 20 | — | — |
| 200950 2002 $BW_{14}$ | 17.0 | X | 170.91721 | 141.84586 | 293.08592 | 2.66348 | 0.1752830 | 0.28692782 | 2.2766046 | 20 | 5 28.9 | 20.6 |
| 200951 2002 $BN_{15}$ | 16.1 | X | 83.71335 | 154.13114 | 260.28322 | 4.29998 | 0.1671382 | 0.27209379 | 2.3586145 | 20 | 1 18.2 | 18.4 |
| 200952 2002 $BR_{18}$ | 16.5 | X | 187.24275 | 3.33847 | 60.17765 | 2.30136 | 0.1389071 | 0.28862050 | 2.2676948 | 20 | 5 29.9 | 19.9 |
| 200953 2002 $BJ_{20}$ | 16.5 | X | 62.34540 | 108.81882 | 303.90639 | 5.69946 | 0.1253193 | 0.26921710 | 2.3753865 | 20 | — | — |
| 200954 2002 $BB_{22}$ | 16.4 | X | 128.20525 | 318.17458 | 65.09593 | 7.94498 | 0.1471356 | 0.27511207 | 2.3413317 | 20 | 2 8.6 | 19.6 |
| 200955 2002 $BT_{26}$ | 16.6 | X | 117.49229 | 357.12863 | 78.79376 | 7.52050 | 0.0911107 | 0.28136377 | 2.3065202 | 20 | 3 29.7 | 19.6 |
| 200956 2002 $BH_{28}$ | 17.3 | X | 45.26996 | 299.98268 | 120.87702 | 4.52507 | 0.2173816 | 0.26900674 | 2.3766247 | 20 | — | — |
| 200957 2002 $CF_{11}$ | 16.8 | X | 23.10732 | 346.15968 | 120.32058 | 3.16085 | 0.1944235 | 0.26838974 | 2.3802657 | 20 | — | — |
| 200958 2002 $CX_{13}$ | 15.5 | X | 32.94241 | 143.62529 | 153.73066 | 27.62038 | 0.0598158 | 0.24072411 | 2.5593105 | 20 | 10 3.1 | 19.0 |
| 200959 2002 $CQ_{19}$ | 16.7 | X | 341.17095 | 157.11695 | 348.15908 | 5.82690 | 0.1240893 | 0.26758577 | 2.3850311 | 20 | — | — |
| 200960 2002 $CR_{27}$ | 16.7 | X | 265.74783 | 112.23680 | 84.25529 | 7.28000 | 0.1702660 | 0.26243875 | 2.4161139 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 200961 2002 $CB_{28}$ | 16.3 | X | 4.31585 | 21.62557 | 92.57705 | 7.33663 | 0.0734992 | 0.26768195 | 2.3844597 | 20 | — | — |
| 200962 2002 $CE_{29}$ | 17.0 | X | 324.99272 | 147.82790 | 341.97501 | 6.14064 | 0.0930654 | 0.26351311 | 2.4095423 | 20 | — | — |
| 200963 2002 $CW_{33}$ | 16.1 | X | 220.51128 | 337.86199 | 85.44504 | 10.62541 | 0.1453637 | 0.23855822 | 2.5747780 | 20 | 7 2.2 | 19.9 |
| 200964 2002 $CM_{36}$ | 17.2 | X | 15.52095 | 103.34772 | 341.75589 | 2.12851 | 0.1314081 | 0.26550960 | 2.3974482 | 20 | — | — |
| 200965 2002 $CA_{49}$ | 16.9 | X | 257.43929 | 347.41549 | 179.36474 | 1.33470 | 0.1290704 | 0.25740839 | 2.4474899 | 20 | — | — |
| 200966 2002 $CP_{63}$ | 16.0 | X | 259.94466 | 132.37195 | 60.73869 | 7.45399 | 0.0531071 | 0.26093353 | 2.4253967 | 20 | — | — |
| 200967 2002 $CE_{67}$ | 17.0 | X | 235.86345 | 239.26298 | 341.41332 | 1.58624 | 0.1346481 | 0.26156821 | 2.4214718 | 20 | — | — |
| 200968 2002 $CT_{68}$ | 17.5 | X | 323.54844 | 181.60091 | 302.45581 | 1.37607 | 0.1335445 | 0.26252537 | 2.4155825 | 20 | — | — |
| 200969 2002 $CN_{74}$ | 16.9 | X | 28.31882 | 79.93549 | 334.04474 | 5.33847 | 0.1456191 | 0.26297106 | 2.4128523 | 20 | — | — |
| 200970 2002 $CP_{90}$ | 17.5 | X | 336.10537 | 126.05268 | 10.61725 | 1.89133 | 0.1426645 | 0.26427949 | 2.4048818 | 20 | — | — |
| 200971 2002 $CD_{94}$ | 16.5 | X | 289.45474 | 32.37638 | 122.87695 | 3.70452 | 0.1299144 | 0.25910275 | 2.4368083 | 20 | — | — |
| 200972 2002 $CT_{94}$ | 16.1 | X | 99.77387 | 93.58307 | 351.32620 | 6.07969 | 0.2048325 | 0.27734397 | 2.3287537 | 20 | 3 30.6 | 19.1 |
| 200973 2002 $CM_{95}$ | 16.9 | X | 311.60709 | 22.87713 | 138.81076 | 2.60242 | 0.1338486 | 0.26305193 | 2.4123578 | 20 | — | — |
| 200974 2002 $CH_{98}$ | 16.5 | X | 52.94124 | 94.01342 | 345.83000 | 1.92213 | 0.1608375 | 0.26871668 | 2.3783347 | 20 | — | — |
| 200975 2002 $CY_{110}$ | 16.6 | X | 338.39225 | 134.10520 | 340.91088 | 5.19647 | 0.0860367 | 0.26028922 | 2.4293976 | 20 | — | — |
| 200976 2002 $CD_{114}$ | 16.9 | X | 308.54227 | 90.24688 | 64.60344 | 3.07866 | 0.1460464 | 0.26208845 | 2.4182663 | 20 | — | — |
| 200977 2002 $CV_{115}$ | 16.9 | X | 12.12820 | 310.64576 | 184.08288 | 22.80898 | 0.0408936 | 0.37747798 | 1.8961599 | 20 | — | — |
| 200978 2002 $CA_{119}$ | 17.1 | X | 63.52333 | 289.88370 | 126.72878 | 5.17540 | 0.1494345 | 0.27037403 | 2.3686055 | 20 | — | — |
| 200979 2002 $CD_{120}$ | 17.2 | X | 39.54693 | 41.46902 | 154.60410 | 2.34328 | 0.1488514 | 0.28256106 | 2.3000000 | 20 | 5 29.1 | 19.3 |
| 200980 2002 $CJ_{120}$ | 16.8 | X | 336.43082 | 316.99676 | 161.87405 | 4.50663 | 0.1420039 | 0.26407229 | 2.4061397 | 20 | — | — |
| 200981 2002 $CZ_{121}$ | 16.8 | X | 105.12499 | 207.26229 | 260.85816 | 2.64992 | 0.0908489 | 0.28126250 | 2.3070738 | 20 | 4 21.7 | 19.5 |
| 200982 2002 $CQ_{122}$ | 17.6 | X | 44.71482 | 166.12431 | 275.49499 | 0.91022 | 0.1583563 | 0.27000713 | 2.3707507 | 20 | — | — |
| 200983 2002 $CS_{125}$ | 16.9 | X | 305.49754 | 296.90228 | 233.59696 | 1.27785 | 0.1482580 | 0.26345103 | 2.4099209 | 20 | — | — |
| 200984 2002 $CX_{125}$ | 17.4 | X | 291.83405 | 302.82726 | 219.99504 | 1.55709 | 0.1510243 | 0.26036632 | 2.4289180 | 20 | — | — |
| 200985 2002 $CH_{130}$ | 17.2 | X | 294.97575 | 336.43213 | 184.38460 | 4.33768 | 0.1373279 | 0.26072534 | 2.4266877 | 20 | — | — |
| 200986 2002 $CF_{133}$ | 17.0 | X | 288.66442 | 337.56082 | 166.07826 | 2.47829 | 0.1485126 | 0.25709566 | 2.4494743 | 20 | — | — |
| 200987 2002 $CQ_{133}$ | 16.7 | X | 79.94969 | 137.97004 | 335.23417 | 1.87343 | 0.1628517 | 0.27603587 | 2.3361050 | 20 | 4 4.9 | 19.2 |
| 200988 2002 $CC_{136}$ | 16.2 | X | 112.84627 | 218.42827 | 254.53266 | 6.56433 | 0.1177319 | 0.28421636 | 2.2910611 | 20 | 5 12.9 | 19.1 |
| 200989 2002 $CV_{137}$ | 15.8 | X | 171.76386 | 129.65158 | 267.19166 | 6.08604 | 0.2526458 | 0.28471442 | 2.2883884 | 20 | 4 10.4 | 19.9 |
| 200990 2002 $CD_{140}$ | 17.2 | X | 50.10946 | 232.36970 | 222.13878 | 2.99056 | 0.1991242 | 0.27182744 | 2.3601550 | 20 | 1 14.2 | 18.8 |
| 200991 2002 $CQ_{144}$ | 17.2 | X | 315.94286 | 252.95889 | 237.91411 | 1.55742 | 0.1666171 | 0.26045455 | 2.4283694 | 20 | — | — |
| 200992 2002 $CU_{144}$ | 17.0 | X | 0.28528 | 291.94151 | 165.76837 | 2.35904 | 0.1502687 | 0.26313656 | 2.4118405 | 20 | — | — |
| 200993 2002 $CE_{145}$ | 16.3 | X | 93.29024 | 124.30388 | 304.94043 | 4.63638 | 0.2217095 | 0.27406690 | 2.3472805 | 20 | 3 2.6 | 18.9 |
| 200994 2002 $CZ_{151}$ | 17.2 | X | 19.89194 | 8.20749 | 107.84158 | 2.37580 | 0.1333895 | 0.26710814 | 2.3878734 | 20 | — | — |
| 200995 2002 $CH_{155}$ | 16.8 | X | 109.51275 | 43.74387 | 349.30849 | 5.04485 | 0.2346970 | 0.27569751 | 2.3380160 | 20 | 2 9.2 | 19.7 |
| 200996 2002 $CN_{155}$ | 17.2 | X | 312.67279 | 154.78685 | 6.63875 | 2.64718 | 0.1371434 | 0.26624667 | 2.3930215 | 20 | — | — |
| 200997 2002 $CC_{157}$ | 16.9 | X | 246.49534 | 146.08068 | 313.61733 | 1.65483 | 0.0170710 | 0.24683911 | 2.5168659 | 20 | 10 9.1 | 20.0 |
| 200998 2002 $CF_{159}$ | 17.4 | X | 14.43240 | 14.08922 | 139.49056 | 1.63870 | 0.1288166 | 0.27147602 | 2.3621913 | 20 | 1 29.9 | 19.6 |
| 200999 2002 $CB_{160}$ | 16.2 | X | 336.91412 | 173.78692 | 340.04516 | 7.54598 | 0.1795503 | 0.26899056 | 2.3767200 | 20 | — | — |
| 201000 2002 $CA_{165}$ | 16.2 | X | 51.02916 | 86.40257 | 22.52888 | 3.82504 | 0.0993509 | 0.27277566 | 2.3546822 | 20 | 2 2.6 | 18.5 |
| 201001 2002 $CL_{168}$ | 16.0 | X | 149.37696 | 79.90601 | 129.48231 | 14.38983 | 0.1421782 | 0.24457092 | 2.5324031 | 20 | 11 1.9 | 20.3 |
| 201002 2002 $CW_{170}$ | 16.4 | X | 267.91825 | 98.63168 | 75.95419 | 3.48328 | 0.1414047 | 0.25726214 | 2.4484175 | 20 | — | — |
| 201003 2002 $CL_{172}$ | 15.5 | X | 42.03497 | 206.29202 | 82.63461 | 4.70435 | 0.1519014 | 0.24099809 | 2.5573705 | 20 | 10 16.7 | 18.8 |
| 201004 2002 $CD_{175}$ | 16.7 | X | 157.06618 | 143.45609 | 324.12821 | 6.40136 | 0.1052618 | 0.29235546 | 2.2483396 | 20 | 6 27.2 | 19.9 |
| 201005 2002 $CY_{176}$ | 16.3 | X | 170.12698 | 265.17922 | 357.83225 | 4.79208 | 0.0788530 | 0.25978618 | 2.4325327 | 20 | — | — |
| 201006 2002 $CH_{185}$ | 13.0 | X | 121.18236 | 226.78543 | 5.15255 | 4.14222 | 0.0072977 | 0.08641731 | 5.0668210 | 20 | 9 26.9 | 19.8 |
| 201007 2002 $CL_{190}$ | 17.1 | X | 12.30490 | 102.38901 | 332.25286 | 5.90179 | 0.1005121 | 0.26346276 | 2.4098493 | 20 | — | — |
| 201008 2002 $CQ_{205}$ | 17.3 | X | 276.41859 | 357.34845 | 150.87674 | 1.53101 | 0.1338518 | 0.25686080 | 2.4509672 | 20 | — | — |
| 201009 2002 $CA_{211}$ | 17.0 | X | 95.67396 | 318.39059 | 129.93352 | 3.19036 | 0.1713904 | 0.27671173 | 2.3322996 | 20 | 3 27.4 | 19.7 |
| 201010 2002 $CK_{215}$ | 16.9 | X | 311.18399 | 196.79637 | 2.16306 | 2.34810 | 0.1238085 | 0.26732736 | 2.3865678 | 20 | — | — |
| 201011 2002 $CE_{219}$ | 16.6 | X | 66.49708 | 325.62776 | 121.92229 | 5.25738 | 0.1912775 | 0.27161193 | 2.3614032 | 20 | 2 9.7 | 18.6 |
| 201012 2002 $CU_{222}$ | 16.4 | X | 88.19889 | 95.97842 | 280.82274 | 3.65197 | 0.2311184 | 0.26672002 | 2.3901894 | 20 | — | — |
| 201013 2002 $CJ_{225}$ | 17.5 | X | 342.91952 | 121.29902 | 353.48706 | 1.31879 | 0.1249161 | 0.26075127 | 2.4265268 | 20 | — | — |
| 201014 2002 $CL_{226}$ | 16.4 | X | 66.99965 | 74.25597 | 297.14433 | 5.34516 | 0.1180605 | 0.26235193 | 2.4166470 | 20 | — | — |
| 201015 2002 $CF_{228}$ | 16.6 | X | 352.28492 | 301.57717 | 236.52922 | 4.64442 | 0.0988086 | 0.27204694 | 2.3588852 | 20 | 1 27.9 | 19.2 |
| 201016 2002 $CY_{241}$ | 16.3 | X | 323.77065 | 221.01822 | 281.21348 | 4.34691 | 0.2278244 | 0.26240219 | 2.4163383 | 20 | — | — |
| 201017 2002 $CU_{252}$ | 16.7 | X | 20.22535 | 96.61920 | 99.35352 | 7.85121 | 0.0791502 | 0.28028896 | 2.3124129 | 20 | 4 18.7 | 19.2 |
| 201018 2002 $CW_{256}$ | 16.4 | X | 16.57952 | 326.36901 | 90.39556 | 5.32498 | 0.0961854 | 0.26063408 | 2.4272541 | 20 | — | — |
| 201019 Oliverwhite | 17.3 | X | 73.19661 | 63.85109 | 318.40798 | 0.56698 | 0.1880598 | 0.26656761 | 2.3911003 | 20 | — | — |
| 201020 2002 $CG_{259}$ | 15.9 | X | 72.98735 | 302.97780 | 95.05937 | 13.33715 | 0.2492434 | 0.26711177 | 2.3878518 | 20 | — | — |
| 201021 2002 $CJ_{259}$ | 16.0 | X | 312.40515 | 14.48744 | 90.83879 | 13.85125 | 0.2101069 | 0.25714987 | 2.4491300 | 20 | — | — |
| 201022 2002 $CT_{261}$ | 17.1 | X | 283.56998 | 92.72703 | 84.58382 | 3.28563 | 0.1494058 | 0.26101005 | 2.4249227 | 20 | — | — |
| 201023 Karlwhittenburg | 16.1 | X | 28.99323 | 6.74168 | 313.17913 | 2.19349 | 0.2110569 | 0.24293486 | 2.5437601 | 20 | 11 15.8 | 19.3 |
| 201024 2002 $CL_{280}$ | 17.0 | X | 242.14289 | 276.50957 | 260.48894 | 1.60237 | 0.1075099 | 0.25501203 | 2.4627988 | 20 | — | — |
| 201025 2002 $CB_{282}$ | 16.3 | X | 91.94780 | 349.49595 | 314.13362 | 5.33405 | 0.1419310 | 0.25240407 | 2.4797343 | 20 | 12 28.9 | 20.0 |
| 201026 2002 $CD_{282}$ | 16.8 | X | 288.50560 | 89.87920 | 307.32628 | 2.37700 | 0.1961669 | 0.24591188 | 2.5231886 | 20 | 8 16.9 | 19.6 |
| 201027 2002 $CQ_{284}$ | 16.8 | X | 72.92425 | 111.12730 | 308.89060 | 0.53193 | 0.1705102 | 0.26872851 | 2.3782648 | 20 | 1 8.9 | 18.9 |
| 201028 2002 $CE_{292}$ | 17.4 | X | 290.42480 | 31.48122 | 152.45003 | 1.46726 | 0.1205179 | 0.26529065 | 2.3987671 | 20 | — | — |
| 201029 2002 $CM_{292}$ | 17.0 | X | 106.21337 | 82.27718 | 314.88913 | 3.35666 | 0.1985425 | 0.27385826 | 2.3484726 | 20 | 2 3.8 | 19.6 |
| 201030 2002 $CX_{295}$ | 17.4 | X | 358.84294 | 153.20763 | 312.05076 | 0.85478 | 0.1010680 | 0.26355669 | 2.4092767 | 20 | — | — |
| 201031 2002 $CL_{306}$ | 16.8 | X | 353.63062 | 88.47616 | 96.43297 | 6.41951 | 0.1301645 | 0.27135064 | 2.3629189 | 20 | 2 8.6 | 19.2 |
| 201032 2002 $DC_{7}$ | 16.9 | X | 10.26470 | 133.65277 | 283.23761 | 2.46242 | 0.1715971 | 0.26009637 | 2.4305983 | 20 | — | — |
| 201033 2002 $DJ_{10}$ | 17.3 | X | 286.37812 | 343.77940 | 218.87254 | 2.12502 | 0.1627230 | 0.26354457 | 2.4093506 | 20 | — | — |
| 201034 2002 $DF_{11}$ | 16.7 | X | 32.40049 | 237.41742 | 186.22078 | 4.02520 | 0.0680825 | 0.26323192 | 2.4112580 | 20 | — | — |
| 201035 2002 $DJ_{13}$ | 16.7 | X | 53.78915 | 252.19309 | 167.03265 | 6.97381 | 0.1916955 | 0.26763127 | 2.3847607 | 20 | — | — |
| 201036 2002 $DP_{13}$ | 17.6 | X | 233.56503 | 187.56634 | 14.40373 | 1.35202 | 0.1159868 | 0.25643704 | 2.4536666 | 20 | — | — |
| 201037 2002 $DW_{14}$ | 16.4 | X | 213.00773 | 351.68796 | 278.03193 | 3.94668 | 0.1683775 | 0.26363808 | 2.4087808 | 20 | — | — |
| 201038 2002 $DO_{17}$ | 16.3 | X | 67.94898 | 160.72297 | 124.41252 | 3.52183 | 0.1469734 | 0.24315262 | 2.5422411 | 20 | 11 11.2 | 19.9 |
| 201039 2002 $ES_{5}$ | 13.1 | X | 273.01030 | 260.09014 | 160.02320 | 8.71602 | 0.0855594 | 0.08236266 | 5.2317758 | 20 | 8 22.7 | 19.9 |
| 201040 2002 $EX_{7}$ | 12.6 | X | 325.12273 | 52.92664 | 337.42918 | 7.91863 | 0.0665842 | 0.08223125 | 5.2373482 | 20 | 9 22.6 | 19.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201041 2002 $EB_{14}$ | 16.8 | X | 326.36227 | 317.09549 | 213.12459 | 3.74790 | 0.1358501 | 0.26641787 | 2.3919962 | 20 | — | — |
| 201042 2002 $ET_{14}$ | 16.3 | X | 159.25815 | 213.83836 | 57.27202 | 3.02206 | 0.1642541 | 0.25783136 | 2.4448125 | 20 | — | — |
| 201043 2002 $EJ_{15}$ | 17.0 | X | 52.80457 | 282.00641 | 182.60217 | 1.80351 | 0.1474856 | 0.27190180 | 2.3597247 | 20 | 2 1.2 | 18.9 |
| 201044 2002 $EK_{17}$ | 15.8 | X | 76.18988 | 326.79755 | 14.24936 | 2.48980 | 0.2643518 | 0.25237980 | 2.4798932 | 20 | — | — |
| 201045 2002 $EM_{17}$ | 16.9 | X | 65.92772 | 320.60020 | 139.20108 | 1.66031 | 0.1394278 | 0.27191245 | 2.3596631 | 20 | 2 18.9 | 19.2 |
| 201046 2002 $EA_{23}$ | 17.9 | X | 22.75979 | 85.71567 | 354.47947 | 1.03465 | 0.1636920 | 0.26436631 | 2.4043553 | 20 | — | — |
| 201047 2002 $EY_{25}$ | 17.2 | X | 291.92206 | 311.13023 | 250.24277 | 0.55356 | 0.1216412 | 0.26401463 | 2.4064899 | 20 | — | — |
| 201048 2002 $EU_{32}$ | 16.6 | X | 55.54839 | 34.55855 | 31.25364 | 7.31649 | 0.1093082 | 0.26708290 | 2.3880238 | 20 | — | — |
| 201049 2002 $EY_{32}$ | 15.8 | X | 96.65210 | 194.98209 | 85.84067 | 6.25976 | 0.2044543 | 0.24619387 | 2.5212615 | 20 | 12 8.0 | 19.8 |
| 201050 2002 $EV_{33}$ | 16.4 | X | 14.65556 | 49.12558 | 42.50555 | 3.85795 | 0.1257330 | 0.26359034 | 2.4090717 | 20 | — | — |
| 201051 2002 $ED_{35}$ | 16.6 | X | 98.50749 | 326.73770 | 128.67341 | 8.75841 | 0.2278710 | 0.27756512 | 2.3275166 | 20 | 4 21.5 | 19.8 |
| 201052 2002 $EO_{39}$ | 16.4 | X | 49.18845 | 77.52266 | 347.74682 | 7.07371 | 0.0884326 | 0.26355127 | 2.4093098 | 20 | — | — |
| 201053 2002 $EL_{43}$ | 16.8 | X | 33.32407 | 252.95654 | 191.22435 | 2.34948 | 0.2157108 | 0.26581590 | 2.3956061 | 20 | — | — |
| 201054 2002 $ED_{55}$ | 15.7 | X | 95.85233 | 87.77006 | 172.28623 | 15.13743 | 0.1127094 | 0.24436110 | 2.5338526 | 20 | 11 8.4 | 19.7 |
| 201055 2002 $ED_{57}$ | 16.3 | X | 269.68773 | 162.88063 | 258.97582 | 2.84855 | 0.2459120 | 0.24590325 | 2.5232476 | 20 | 8 13.1 | 19.5 |
| 201056 2002 $EY_{57}$ | 17.0 | X | 249.18025 | 312.96787 | 241.64399 | 1.56784 | 0.1346505 | 0.25743763 | 2.4473046 | 20 | — | — |
| 201057 2002 $EW_{61}$ | 17.0 | X | 92.30692 | 276.22281 | 173.55264 | 2.06445 | 0.1782084 | 0.27505196 | 2.3416729 | 20 | 3 24.6 | 19.6 |
| 201058 2002 $ET_{71}$ | 17.1 | X | 313.18744 | 231.05617 | 257.48709 | 1.62086 | 0.1536960 | 0.25782711 | 2.4448394 | 20 | — | — |
| 201059 2002 $EG_{73}$ | 17.0 | X | 41.31796 | 242.88013 | 261.66222 | 2.27994 | 0.2016203 | 0.27282311 | 2.3544092 | 20 | 3 14.5 | 18.6 |
| 201060 2002 $EZ_{84}$ | 16.6 | X | 61.64763 | 31.89180 | 53.01912 | 3.10377 | 0.2442968 | 0.27048560 | 2.3679541 | 20 | 2 4.1 | 18.2 |
| 201061 2002 $EX_{85}$ | 16.6 | X | 282.23936 | 121.53530 | 89.29260 | 3.00043 | 0.1548446 | 0.26223000 | 2.4173960 | 20 | — | — |
| 201062 2002 $EZ_{89}$ | 17.1 | X | 321.73683 | 297.08092 | 201.76122 | 6.90532 | 0.1645384 | 0.26130976 | 2.4230681 | 20 | — | — |
| 201063 2002 $EV_{90}$ | 17.0 | X | 311.34537 | 149.36761 | 17.93234 | 2.69972 | 0.0650022 | 0.26218079 | 2.4176985 | 20 | — | — |
| 201064 2002 $ED_{92}$ | 15.8 | X | 347.83586 | 228.53533 | 347.66537 | 11.34280 | 0.1032912 | 0.21883159 | 2.7272778 | 20 | 3 21.3 | 19.1 |
| 201065 2002 $EK_{99}$ | 16.7 | X | 310.66095 | 247.92022 | 258.98361 | 4.05461 | 0.0980207 | 0.26292756 | 2.4131185 | 20 | — | — |
| 201066 2002 $EN_{103}$ | 16.3 | X | 52.10310 | 113.91065 | 92.52916 | 6.93606 | 0.0645718 | 0.28326973 | 2.2961624 | 20 | 6 22.9 | 18.7 |
| 201067 2002 $EJ_{105}$ | 16.8 | X | 48.69240 | 50.82319 | 55.58933 | 3.52530 | 0.1235505 | 0.26992254 | 2.3712460 | 20 | 1 27.4 | 19.0 |
| 201068 2002 $EF_{110}$ | 16.7 | X | 340.66506 | 109.84451 | 138.50372 | 5.90755 | 0.2034319 | 0.27520296 | 2.3408162 | 20 | 4 11.0 | 18.6 |
| 201069 2002 $EQ_{114}$ | 16.7 | X | 80.51936 | 8.10131 | 62.44744 | 2.25418 | 0.1631623 | 0.27002474 | 2.3706476 | 20 | 2 6.7 | 19.0 |
| 201070 2002 $EM_{120}$ | 16.0 | X | 29.76148 | 143.73379 | 168.52877 | 2.92760 | 0.1472381 | 0.24207125 | 2.5498066 | 20 | 10 28.9 | 19.0 |
| 201071 2002 $EP_{122}$ | 16.6 | X | 56.63958 | 76.36776 | 233.21821 | 1.19975 | 0.1263925 | 0.24396435 | 2.5365989 | 20 | 11 25.7 | 20.1 |
| 201072 2002 $EM_{129}$ | 16.2 | X | 144.25584 | 301.82711 | 196.88071 | 12.83016 | 0.1141281 | 0.23197706 | 2.6232481 | 20 | 7 19.5 | 20.5 |
| 201073 2002 $EF_{161}$ | 15.6 | X | 66.16885 | 141.00797 | 134.20401 | 14.96876 | 0.0568689 | 0.23855741 | 2.5747838 | 20 | 10 19.4 | 19.4 |
| 201074 2002 $FZ$ | 15.6 | X | 295.87697 | 41.45005 | 192.40183 | 9.78306 | 0.0860231 | 0.21289469 | 2.7777479 | 20 | 2 2.2 | 19.6 |
| 201075 2002 $FG_{2}$ | 16.7 | X | 353.74866 | 93.47519 | 29.96750 | 2.87125 | 0.1482815 | 0.26178382 | 2.4201420 | 20 | — | — |
| 201076 2002 $FX_{10}$ | 17.3 | X | 56.03756 | 120.49929 | 346.37807 | 1.11422 | 0.1424574 | 0.27191868 | 2.3596270 | 20 | 2 11.4 | 19.1 |
| 201077 2002 $FE_{12}$ | 16.1 | X | 34.43429 | 40.07462 | 3.95900 | 10.49990 | 0.2659359 | 0.26084365 | 2.4259539 | 20 | — | — |
| 201078 2002 $FU_{21}$ | 16.6 | X | 158.13597 | 266.87164 | 289.86761 | 3.52952 | 0.1236522 | 0.24240799 | 2.5474447 | 20 | 10 18.1 | 20.5 |
| 201079 2002 $FY_{25}$ | 15.6 | X | 18.87158 | 211.74574 | 84.44399 | 13.79895 | 0.1486646 | 0.23462431 | 2.6034788 | 20 | 9 25.8 | 18.8 |
| 201080 2002 $FG_{26}$ | 15.9 | X | 10.62553 | 234.29506 | 74.05729 | 15.50568 | 0.1246030 | 0.23579192 | 2.5948770 | 20 | 9 27.3 | 19.2 |
| 201081 2002 $GC_{2}$ | 16.2 | X | 325.65074 | 87.41846 | 60.17325 | 23.15151 | 0.2865872 | 0.26269278 | 2.4145561 | 20 | — | — |
| 201082 2002 $GA_{27}$ | 16.8 | X | 50.92670 | 27.95270 | 217.37641 | 3.08136 | 0.1398919 | 0.22791697 | 2.6543098 | 20 | 8 23.2 | 20.1 |
| 201083 2002 $GE_{51}$ | 16.1 | X | 90.43985 | 164.66338 | 42.06900 | 6.16297 | 0.1921538 | 0.23139003 | 2.6276829 | 20 | 9 1.9 | 20.1 |
| 201084 2002 $GL_{56}$ | 16.4 | X | 122.88493 | 331.63018 | 262.96525 | 4.74842 | 0.2023024 | 0.23953436 | 2.5677781 | 20 | 11 2.4 | 20.7 |
| 201085 2002 $GN_{58}$ | 16.9 | X | 48.26998 | 276.13578 | 188.51168 | 0.75756 | 0.1478364 | 0.26680505 | 2.3896815 | 20 | 1 24.7 | 18.8 |
| 201086 2002 $GJ_{59}$ | 16.6 | X | 20.21293 | 113.15870 | 171.95756 | 2.73430 | 0.0070836 | 0.23225775 | 2.6211341 | 20 | 8 15.9 | 20.0 |
| 201087 2002 $GU_{69}$ | 16.7 | X | 23.47439 | 26.90927 | 83.76561 | 3.54540 | 0.1720285 | 0.26381157 | 2.4077247 | 20 | — | — |
| 201088 2002 $GG_{70}$ | 15.9 | X | 359.59822 | 206.92250 | 79.47337 | 5.78345 | 0.1409954 | 0.22687112 | 2.6624609 | 20 | 7 26.7 | 18.6 |
| 201089 2002 $GU_{77}$ | 15.6 | X | 265.68321 | 257.36808 | 46.95401 | 8.61749 | 0.1933843 | 0.21708480 | 2.7418884 | 20 | 3 18.9 | 19.9 |
| 201090 2002 $GH_{88}$ | 15.7 | X | 90.60004 | 155.76267 | 76.62867 | 12.02833 | 0.1537993 | 0.23359241 | 2.6111404 | 20 | 10 4.7 | 19.8 |
| 201091 2002 $GS_{92}$ | 16.0 | X | 223.19416 | 146.87814 | 344.67704 | 7.05348 | 0.1935441 | 0.24415676 | 2.5352661 | 20 | 9 26.1 | 19.9 |
| 201092 2002 $GK_{94}$ | 16.5 | X | 203.36643 | 243.03196 | 225.35747 | 4.49210 | 0.2516079 | 0.23905102 | 2.5712382 | 20 | 8 3.8 | 20.9 |
| 201093 2002 $GT_{94}$ | 16.7 | X | 256.91534 | 274.17830 | 205.81647 | 2.94510 | 0.0909247 | 0.24556631 | 2.5255551 | 20 | 11 9.6 | 19.6 |
| 201094 2002 $GD_{97}$ | 16.6 | X | 306.43228 | 182.61353 | 314.56308 | 1.60688 | 0.1420559 | 0.25567911 | 2.4585133 | 20 | — | — |
| 201095 2002 $GC_{103}$ | 17.2 | X | 51.67675 | 298.24609 | 180.05782 | 0.91725 | 0.1362932 | 0.26962233 | 2.3730059 | 20 | 2 19.5 | 19.4 |
| 201096 2002 $GB_{109}$ | 15.9 | X | 106.30875 | 108.19916 | 110.11608 | 9.58129 | 0.1274373 | 0.23525448 | 2.5988275 | 20 | 9 29.1 | 20.0 |
| 201097 2002 $GY_{114}$ | 16.4 | X | 40.71151 | 358.41636 | 135.81654 | 6.65736 | 0.0827647 | 0.26975737 | 2.3722138 | 20 | 2 20.2 | 18.9 |
| 201098 2002 $GU_{122}$ | 16.6 | X | 0.19294 | 356.35670 | 139.98963 | 3.17446 | 0.1104021 | 0.26401331 | 2.4064980 | 20 | — | — |
| 201099 2002 $GG_{127}$ | 16.8 | X | 33.45536 | 52.65364 | 220.28199 | 3.89069 | 0.2322978 | 0.23133134 | 2.6281273 | 20 | 9 19.9 | 19.8 |
| 201100 2002 $GU_{128}$ | 15.8 | X | 340.17948 | 81.20059 | 296.77733 | 2.87693 | 0.0859243 | 0.24186478 | 2.5512575 | 20 | 10 30.6 | 18.6 |
| 201101 2002 $GU_{131}$ | 16.4 | X | 93.87931 | 21.96223 | 239.90813 | 4.01491 | 0.1140243 | 0.23900598 | 2.5715613 | 20 | 11 4.1 | 20.2 |
| 201102 2002 $GP_{142}$ | 16.7 | X | 183.71199 | 336.16375 | 192.85463 | 3.93803 | 0.1888710 | 0.24049349 | 2.5609464 | 20 | 10 6.5 | 20.9 |
| 201103 2002 $GQ_{145}$ | 16.0 | X | 132.27899 | 144.94550 | 194.84237 | 5.83784 | 0.0939672 | 0.20309210 | 2.8664257 | 20 | — | — |
| 201104 2002 $GD_{149}$ | 15.9 | X | 25.21497 | 82.50761 | 186.15551 | 12.12335 | 0.1323428 | 0.22926677 | 2.6438814 | 20 | 8 12.7 | 19.1 |
| 201105 2002 $GH_{149}$ | 16.7 | X | 82.31053 | 27.69876 | 204.60483 | 5.13312 | 0.0251983 | 0.23493586 | 2.6011766 | 20 | 8 30.8 | 20.1 |
| 201106 2002 $GS_{154}$ | 16.4 | X | 116.46809 | 142.04039 | 108.44671 | 4.87893 | 0.1761973 | 0.24179114 | 2.5517755 | 20 | 11 17.8 | 20.5 |
| 201107 2002 $GD_{163}$ | 16.6 | X | 328.25831 | 63.08655 | 57.44908 | 3.01474 | 0.1671757 | 0.25768225 | 2.4457555 | 20 | — | — |
| 201108 2002 $GX_{174}$ | 15.7 | X | 313.53739 | 133.71825 | 124.95126 | 6.29514 | 0.1350424 | 0.21760114 | 2.7375493 | 20 | 3 25.9 | 19.1 |
| 201109 2002 $GY_{178}$ | 16.9 | X | 198.92436 | 199.71983 | 169.62793 | 1.67245 | 0.0279968 | 0.21879562 | 2.7275767 | 20 | 4 5.7 | 20.7 |
| 201110 2002 $GP_{181}$ | 16.7 | X | 51.15306 | 252.40717 | 53.01286 | 3.49477 | 0.1304526 | 0.23864088 | 2.5741834 | 20 | 11 13.3 | 20.1 |
| 201111 2002 $GU_{183}$ | 16.5 | X | 181.79848 | 216.96114 | 127.82483 | 1.91646 | 0.1681820 | 0.20888520 | 2.8131805 | 20 | 2 20.6 | 21.2 |
| 201112 2002 $HG$ | 15.9 | X | 108.07368 | 159.76105 | 67.83104 | 9.50161 | 0.0694230 | 0.23557604 | 2.5964620 | 20 | 10 8.0 | 19.7 |
| 201113 2002 $HN_{3}$ | 15.9 | X | 209.84427 | 24.05608 | 123.14416 | 9.81611 | 0.0575278 | 0.24109566 | 2.5566805 | 20 | 10 23.1 | 19.6 |
| 201114 2002 $HL_{16}$ | 15.9 | X | 218.32165 | 156.15192 | 184.15473 | 6.03110 | 0.0427250 | 0.21704773 | 2.7422005 | 20 | 3 21.9 | 19.9 |
| 201115 2002 $JX_{12}$ | 15.6 | X | 268.56548 | 248.62407 | 69.54461 | 9.74689 | 0.2111636 | 0.21463171 | 2.7627407 | 20 | 4 6.8 | 19.9 |
| 201116 2002 $JV_{13}$ | 17.1 | X | 185.41299 | 256.43970 | 54.29044 | 22.40750 | 0.0648940 | 0.36766128 | 1.9297636 | 20 | — | — |
| 201117 2002 $JQ_{20}$ | 16.4 | X | 20.36319 | 12.18655 | 134.41702 | 7.92086 | 0.0439925 | 0.26539739 | 2.3981239 | 20 | 2 4.8 | 19.0 |
| 201118 2002 $JE_{28}$ | 16.0 | X | 106.62324 | 7.01300 | 219.65355 | 6.94298 | 0.0688886 | 0.23486105 | 2.6017290 | 20 | 9 28.3 | 19.6 |
| 201119 2002 $JW_{32}$ | 15.9 | X | 106.85245 | 1.06822 | 231.45371 | 12.69954 | 0.2208125 | 0.23423777 | 2.6063422 | 20 | 10 16.9 | 20.4 |
| 201120 2002 $JF_{35}$ | 16.1 | X | 55.16561 | 169.17726 | 79.75580 | 7.62713 | 0.1656312 | 0.22802074 | 2.6535044 | 20 | 9 12.9 | 19.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201121 2002 $JQ_{40}$ | 16.1 | X | 122.01612 | 13.96363 | 217.88250 | 8.26864 | 0.1130188 | 0.23954482 | 2.5677034 | 20 | 10 26.9 | 20.1 |
| 201122 2002 $JL_{44}$ | 16.3 | X | 307.29974 | 212.79310 | 303.12366 | 4.74716 | 0.1343590 | 0.25766284 | 2.4458784 | 20 | — | — |
| 201123 2002 $JZ_{44}$ | 15.9 | X | 317.81046 | 259.52560 | 29.79042 | 12.18595 | 0.1570279 | 0.22056189 | 2.7129955 | 20 | 5 5.2 | 19.1 |
| 201124 2002 $JE_{45}$ | 16.5 | X | 281.20999 | 328.84788 | 257.04276 | 2.14079 | 0.1898137 | 0.26169072 | 2.4207160 | 20 | — | — |
| 201125 2002 $JK_{54}$ | 15.9 | X | 219.39956 | 77.99936 | 53.62540 | 8.41699 | 0.1445061 | 0.23904086 | 2.5713111 | 20 | 10 2.4 | 19.7 |
| 201126 2002 $JL_{54}$ | 16.3 | X | 194.58763 | 346.65035 | 210.53567 | 6.00871 | 0.1187692 | 0.24451586 | 2.5327833 | 20 | 11 27.8 | 19.9 |
| 201127 2002 $JR_{61}$ | 16.4 | X | 68.28545 | 30.78002 | 188.97995 | 8.59135 | 0.1728296 | 0.22733374 | 2.6588477 | 20 | 8 16.2 | 20.2 |
| 201128 2002 $JX_{63}$ | 15.7 | X | 178.89098 | 331.29884 | 231.42378 | 6.81502 | 0.1432028 | 0.24105500 | 2.5569679 | 20 | 11 15.3 | 19.7 |
| 201129 2002 $JW_{68}$ | 15.7 | X | 312.05151 | 134.19309 | 62.91981 | 14.84900 | 0.1770238 | 0.26439746 | 2.4041665 | 20 | — | — |
| 201130 2002 $JW_{69}$ | 16.1 | X | 105.63168 | 57.24282 | 167.19425 | 9.19255 | 0.0894783 | 0.23543599 | 2.5974916 | 20 | 9 29.5 | 19.8 |
| 201131 2002 $JT_{76}$ | 16.9 | X | 103.45918 | 358.53103 | 211.47209 | 5.70472 | 0.1946126 | 0.23403236 | 2.6078670 | 20 | 9 14.7 | 21.1 |
| 201132 2002 $JT_{78}$ | 16.4 | X | 286.85986 | 112.19328 | 20.49897 | 5.06710 | 0.1339193 | 0.25189257 | 2.4830901 | 20 | — | — |
| 201133 2002 $JZ_{81}$ | 16.6 | X | 355.38791 | 242.93125 | 267.11902 | 0.47388 | 0.1219083 | 0.26383383 | 2.4075892 | 20 | — | — |
| 201134 2002 $JO_{82}$ | 16.0 | X | 236.49786 | 91.41382 | 217.72350 | 6.41253 | 0.2164695 | 0.20966154 | 2.8062317 | 20 | 2 20.2 | 20.9 |
| 201135 2002 $JV_{84}$ | 16.6 | X | 89.37908 | 229.85558 | 25.93434 | 5.01891 | 0.1467212 | 0.23559140 | 2.5963491 | 20 | 10 25.4 | 20.5 |
| 201136 2002 $JW_{93}$ | 15.9 | X | 289.74979 | 63.84235 | 246.14492 | 4.89146 | 0.0733670 | 0.21813378 | 2.7330910 | 20 | 5 5.8 | 19.5 |
| 201137 2002 $JJ_{97}$ | 15.6 | X | 9.78540 | 202.57802 | 79.19973 | 16.14332 | 0.1672483 | 0.22696894 | 2.6616958 | 20 | 8 16.7 | 18.7 |
| 201138 2002 $JV_{97}$ | 15.9 | X | 3.11048 | 205.74916 | 66.92610 | 8.94407 | 0.1936713 | 0.22371977 | 2.6874051 | 20 | 7 15.8 | 18.4 |
| 201139 2002 $JH_{98}$ | 15.4 | X | 340.57618 | 325.58009 | 20.83942 | 28.17550 | 0.0726590 | 0.23413930 | 2.6070729 | 20 | 9 26.7 | 18.7 |
| 201140 2002 $JE_{101}$ | 15.5 | X | 4.15365 | 53.90038 | 103.24106 | 23.65317 | 0.2535163 | 0.26583710 | 2.3954787 | 20 | — | — |
| 201141 2002 $JL_{103}$ | 16.2 | X | 112.57471 | 84.16568 | 129.81695 | 3.76640 | 0.1079148 | 0.23384184 | 2.6092833 | 20 | 9 25.3 | 20.1 |
| 201142 2002 $JY_{105}$ | 15.8 | X | 294.31667 | 70.53458 | 231.14270 | 16.33211 | 0.1940897 | 0.21588063 | 2.7520750 | 20 | 4 10.2 | 19.8 |
| 201143 2002 $JQ_{110}$ | 15.7 | X | 98.09826 | 290.38273 | 257.72156 | 10.56845 | 0.1286286 | 0.22752563 | 2.6573525 | 20 | 8 2.6 | 19.7 |
| 201144 2002 $JB_{118}$ | 17.2 | X | 136.60747 | 50.53585 | 71.80642 | 20.39497 | 0.0955445 | 0.39000733 | 1.8553287 | 20 | 6 24.2 | 19.3 |
| 201145 2002 $JD_{125}$ | 16.9 | X | 348.39530 | 154.77051 | 345.86777 | 1.03835 | 0.1224663 | 0.26121444 | 2.4236576 | 20 | — | — |
| 201146 2002 $JM_{127}$ | 16.0 | X | 76.53240 | 187.07692 | 64.12281 | 14.68501 | 0.1329272 | 0.23340322 | 2.6125512 | 20 | 10 11.4 | 20.0 |
| 201147 2002 $JO_{127}$ | 16.3 | X | 137.71167 | 126.22047 | 90.30095 | 5.42096 | 0.1141663 | 0.23855180 | 2.5748242 | 20 | 10 26.0 | 20.3 |
| 201148 2002 $JK_{130}$ | 15.6 | X | 291.75755 | 165.45103 | 159.12723 | 5.03048 | 0.1695914 | 0.22019133 | 2.7160384 | 20 | 5 15.3 | 19.1 |
| 201149 2002 $JP_{138}$ | 16.6 | X | 249.53912 | 264.25522 | 227.76295 | 5.74865 | 0.1547124 | 0.24396251 | 2.5366117 | 20 | 11 4.4 | 19.8 |
| 201150 2002 $JP_{143}$ | 15.5 | X | 34.26189 | 188.82543 | 97.96176 | 16.34713 | 0.0830141 | 0.23520500 | 2.5991920 | 20 | 9 27.7 | 19.1 |
| 201151 2002 $JD_{147}$ | 15.9 | X | 337.45389 | 270.24164 | 68.93272 | 11.47175 | 0.0445553 | 0.23008284 | 2.6376261 | 20 | 9 6.6 | 19.4 |
| 201152 2002 $KL$ | 15.1 | X | 199.46460 | 196.10243 | 136.50000 | 22.01975 | 0.3070736 | 0.20271033 | 2.8700235 | 20 | 2 23.0 | 20.4 |
| 201153 2002 $KP_{4}$ | 16.5 | X | 122.45334 | 143.59608 | 70.59531 | 7.29754 | 0.2511956 | 0.23464970 | 2.6032910 | 20 | 10 13.9 | 21.1 |
| 201154 2002 $KX_{4}$ | 16.0 | X | 155.36072 | 118.45928 | 85.97380 | 8.27874 | 0.1536274 | 0.23748207 | 2.5825505 | 20 | 10 28.6 | 20.2 |
| 201155 2002 $KL_{5}$ | 15.8 | X | 342.99341 | 30.59425 | 240.25768 | 10.51449 | 0.1594858 | 0.21867104 | 2.7286125 | 20 | 5 27.4 | 18.6 |
| 201156 2002 $KX_{12}$ | 16.2 | X | 30.20554 | 21.20002 | 131.10475 | 3.14107 | 0.1467564 | 0.26976456 | 2.3721717 | 20 | 2 29.9 | 18.2 |
| 201157 2002 $LO_{14}$ | 16.3 | X | 161.38350 | 308.93780 | 263.09196 | 11.26267 | 0.2692213 | 0.24027724 | 2.5624828 | 20 | 11 3.9 | 21.0 |
| 201158 2002 $LQ_{15}$ | 16.2 | X | 80.82099 | 151.36842 | 69.39641 | 14.74671 | 0.1954843 | 0.22803383 | 2.6534029 | 20 | 9 15.3 | 20.4 |
| 201159 2002 $LC_{18}$ | 16.6 | X | 120.23272 | 182.45422 | 100.41164 | 3.95457 | 0.1485803 | 0.24097094 | 2.5575625 | 20 | 12 27.7 | 20.5 |
| 201160 2002 $LK_{32}$ | 15.8 | X | 53.71222 | 26.78480 | 209.90464 | 13.11473 | 0.0590249 | 0.22559250 | 2.6725117 | 20 | 7 30.2 | 19.5 |
| 201161 2002 $LF_{35}$ | 13.7 | X | 43.96123 | 50.25636 | 310.64452 | 26.03745 | 0.2871441 | 0.17342433 | 3.1846572 | 20 | — | — |
| 201162 2002 $LN_{41}$ | 16.0 | X | 1.23330 | 69.28421 | 198.30259 | 8.74603 | 0.2031335 | 0.21978369 | 2.7193957 | 20 | 6 30.8 | 18.6 |
| 201163 2002 $LG_{44}$ | 15.6 | X | 90.14706 | 291.26847 | 246.18822 | 15.01629 | 0.0921604 | 0.22415049 | 2.6839613 | 20 | 7 5.7 | 19.5 |
| 201164 2002 $MN_{5}$ | 15.7 | X | 39.45192 | 187.79502 | 117.70733 | 15.04471 | 0.1608060 | 0.22558078 | 2.6726043 | 20 | 11 6.8 | 19.5 |
| 201165 2002 $NA_{7}$ | 15.7 | X | 289.86539 | 227.95970 | 149.15840 | 10.55159 | 0.2684466 | 0.21702177 | 2.7424192 | 20 | 7 5.6 | 19.3 |
| 201166 2002 $NP_{20}$ | 15.3 | X | 92.78925 | 64.09783 | 233.46076 | 8.73674 | 0.0975673 | 0.17807726 | 3.1289388 | 20 | 12 4.2 | 20.0 |
| 201167 2002 $NU_{30}$ | 15.2 | X | 77.91457 | 73.26560 | 181.57233 | 5.47675 | 0.1482494 | 0.17222549 | 3.1994188 | 20 | 10 3.8 | 19.9 |
| 201168 2002 $NL_{50}$ | 15.4 | X | 315.44551 | 208.08964 | 72.50934 | 11.35402 | 0.1314488 | 0.21224074 | 2.7834508 | 20 | 4 29.3 | 18.9 |
| 201169 2002 $NE_{58}$ | 16.3 | X | 151.97442 | 131.59202 | 141.11652 | 2.14751 | 0.1560534 | 0.18462390 | 3.0545279 | 20 | — | — |
| 201170 2002 $NM_{61}$ | 15.1 | X | 107.45810 | 256.82231 | 66.96778 | 8.09451 | 0.3139993 | 0.18256037 | 3.0775023 | 20 | — | — |
| 201171 2002 $NJ_{63}$ | 16.3 | X | 278.48584 | 273.31626 | 103.45677 | 10.85045 | 0.0687921 | 0.21871514 | 2.7282458 | 20 | 7 21.9 | 19.8 |
| 201172 2002 $OC_{3}$ | 16.2 | X | 183.34915 | 62.92263 | 306.79753 | 20.90797 | 0.1122961 | 0.36434107 | 1.9414698 | 20 | 2 27.1 | 19.0 |
| 201173 2002 $OT_{6}$ | 15.7 | X | 127.16239 | 158.60941 | 185.13261 | 11.26438 | 0.0835160 | 0.18826752 | 3.0149893 | 20 | — | — |
| 201174 2002 $OQ_{15}$ | 15.6 | X | 164.84798 | 70.52173 | 242.82240 | 8.29679 | 0.0657105 | 0.19075974 | 2.9886719 | 20 | — | — |
| 201175 2002 $OW_{16}$ | 15.5 | X | 208.70066 | 160.55334 | 176.71682 | 9.34283 | 0.1006967 | 0.20187569 | 2.8779287 | 20 | 3 6.5 | 19.9 |
| 201176 2002 $OO_{26}$ | 15.9 | X | 117.69071 | 293.75411 | 46.30629 | 4.72734 | 0.2333454 | 0.18542085 | 3.0457693 | 20 | — | — |
| 201177 2002 $OF_{29}$ | 15.9 | X | 52.72232 | 100.14428 | 241.96774 | 8.29293 | 0.0524919 | 0.17559725 | 3.1583305 | 20 | 12 6.1 | 20.4 |
| 201178 2002 $PA_{5}$ | 15.6 | X | 78.78970 | 202.53029 | 215.55810 | 10.24605 | 0.1600734 | 0.19078195 | 2.9884399 | 20 | 1 28.1 | 19.6 |
| 201179 2002 $PW_{9}$ | 16.1 | X | 231.09897 | 65.11649 | 260.16446 | 5.04269 | 0.0805918 | 0.20258099 | 2.8712450 | 20 | 3 13.9 | 20.4 |
| 201180 2002 $PH_{10}$ | 15.5 | X | 50.39243 | 178.80113 | 225.01395 | 4.29961 | 0.2498554 | 0.18315987 | 3.0707833 | 20 | — | — |
| 201181 2002 $PT_{26}$ | 15.4 | X | 102.80828 | 67.13569 | 307.24473 | 10.05314 | 0.1034254 | 0.18923188 | 3.0047374 | 20 | 1 2.6 | 19.5 |
| 201182 2002 $PR_{33}$ | 15.3 | X | 88.91927 | 93.96014 | 332.73506 | 6.59315 | 0.3137919 | 0.18933211 | 3.0036768 | 20 | 3 16.5 | 19.5 |
| 201183 2002 $PV_{42}$ | 15.0 | X | 29.09758 | 256.08842 | 139.13863 | 22.59142 | 0.2188640 | 0.17936019 | 3.1140005 | 20 | — | — |
| 201184 2002 $PW_{52}$ | 15.5 | X | 143.94854 | 217.02901 | 124.56195 | 11.51685 | 0.1072340 | 0.19094624 | 2.9867255 | 20 | 1 9.6 | 20.0 |
| 201185 2002 $PO_{66}$ | 15.4 | X | 115.80827 | 98.13856 | 229.96647 | 8.37916 | 0.2158896 | 0.18499766 | 3.0504124 | 20 | — | — |
| 201186 2002 $PN_{69}$ | 15.1 | X | 97.21645 | 128.03038 | 184.63600 | 16.24565 | 0.2594218 | 0.17854142 | 3.1235135 | 20 | — | — |
| 201187 2002 $PK_{70}$ | 15.2 | X | 81.47234 | 202.28504 | 208.48198 | 11.13758 | 0.2422785 | 0.18779920 | 3.0199997 | 20 | 2 4.2 | 19.3 |
| 201188 2002 $PT_{73}$ | 15.1 | X | 135.73243 | 87.34404 | 258.91703 | 10.55086 | 0.1174605 | 0.18981369 | 2.9985941 | 20 | 1 6.7 | 19.6 |
| 201189 2002 $PV_{73}$ | 15.2 | X | 104.65600 | 70.42146 | 201.19873 | 12.07630 | 0.0854109 | 0.17526283 | 3.1623469 | 20 | 11 15.6 | 20.0 |
| 201190 2002 $PF_{75}$ | 15.3 | X | 84.47442 | 172.40472 | 159.14981 | 10.68730 | 0.2166592 | 0.17761640 | 3.1343489 | 20 | — | — |
| 201191 2002 $PK_{75}$ | 15.4 | X | 201.29873 | 39.97859 | 244.69756 | 9.36623 | 0.0597872 | 0.19170371 | 2.9788528 | 20 | — | — |
| 201192 2002 $PR_{89}$ | 15.1 | X | 163.10581 | 88.34071 | 233.69917 | 11.08544 | 0.1937231 | 0.19025656 | 2.9939390 | 20 | 1 10.4 | 20.2 |
| 201193 2002 $PH_{91}$ | 14.6 | X | 144.50061 | 91.96154 | 274.24027 | 11.66583 | 0.1463241 | 0.19019144 | 2.9946224 | 20 | 2 8.1 | 19.4 |
| 201194 2002 $PR_{94}$ | 15.8 | X | 62.97236 | 166.76286 | 121.34863 | 12.62154 | 0.0628103 | 0.22515309 | 2.6759876 | 20 | 10 30.1 | 19.7 |
| 201195 2002 $PN_{104}$ | 15.9 | X | 128.86990 | 97.80405 | 233.63428 | 8.24819 | 0.0681364 | 0.18641538 | 3.0349268 | 20 | — | — |
| 201196 2002 $PP_{105}$ | 15.9 | X | 99.81807 | 119.72693 | 276.29052 | 8.60052 | 0.3427534 | 0.18765234 | 3.0215751 | 20 | 2 21.9 | 20.5 |
| 201197 2002 $PF_{111}$ | 14.2 | X | 200.71544 | 161.03312 | 256.68315 | 10.61099 | 0.0715491 | 0.15297623 | 3.4624758 | 20 | 6 7.3 | 19.4 |
| 201198 2002 $PD_{123}$ | 15.4 | X | 132.75370 | 88.82954 | 271.21610 | 9.12146 | 0.0707473 | 0.19193797 | 2.9764285 | 20 | 1 14.1 | 19.6 |
| 201199 2002 $PE_{123}$ | 15.9 | X | 186.71767 | 255.29377 | 297.26886 | 13.03776 | 0.1252118 | 0.23107642 | 2.6300598 | 20 | 11 6.1 | 20.2 |
| 201200 2002 $PP_{129}$ | 15.5 | X | 64.89043 | 290.11540 | 133.60257 | 14.64181 | 0.0824781 | 0.19048947 | 2.9914981 | 20 | 1 8.6 | 19.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201201 2002 $PM_{131}$ | 14.7 | X | 80.16512 | 40.97612 | 270.52397 | 16.53514 | 0.1853050 | 0.17445899 | 3.1720533 | 20 | 12 15.6 | 19.7 |
| 201202 2002 $PC_{137}$ | 15.5 | X | 59.18598 | 45.10694 | 339.46779 | 9.32430 | 0.1093751 | 0.18345515 | 3.0674873 | 20 | — | — |
| 201203 2002 $PF_{138}$ | 16.1 | X | 148.71256 | 117.71859 | 208.88844 | 9.38708 | 0.0833030 | 0.18908105 | 3.0063351 | 20 | — | — |
| 201204 Stevewilliams | 16.6 | X | 127.69122 | 55.06423 | 269.24716 | 1.61141 | 0.0658057 | 0.18472395 | 3.0534249 | 20 | — | — |
| 201205 2002 $PO_{155}$ | 16.2 | X | 88.56174 | 123.38473 | 122.14492 | 3.13240 | 0.1532303 | 0.22638710 | 2.6662545 | 20 | 10 12.9 | 20.2 |
| 201206 2002 $PJ_{165}$ | 16.4 | X | 90.96285 | 42.53971 | 346.20947 | 1.15875 | 0.1092083 | 0.18805439 | 3.0172669 | 20 | 1 5.2 | 20.3 |
| 201207 2002 $PN_{167}$ | 16.3 | X | 123.81531 | 293.81703 | 36.28106 | 3.15337 | 0.1653989 | 0.18541930 | 3.0457863 | 20 | — | — |
| 201208 2002 $PS_{171}$ | 16.5 | X | 246.13973 | 77.82083 | 213.37091 | 2.68985 | 0.0669548 | 0.20012908 | 2.8946490 | 20 | 2 20.6 | 20.9 |
| 201209 2002 $PY_{171}$ | 16.3 | X | 282.40059 | 231.45158 | 50.80927 | 2.75534 | 0.0181748 | 0.20384632 | 2.8593510 | 20 | 3 31.6 | 20.3 |
| 201210 2002 $PW_{182}$ | 15.5 | X | 123.00530 | 130.11056 | 235.48151 | 14.90079 | 0.0746326 | 0.18921841 | 3.0048799 | 20 | 1 8.4 | 20.0 |
| 201211 2002 $PJ_{185}$ | 16.0 | X | 208.45642 | 258.27414 | 303.03974 | 12.53055 | 0.1087134 | 0.23432312 | 2.6057092 | 20 | 12 17.3 | 19.7 |
| 201212 2002 $QT_{13}$ | 15.0 | X | 263.92221 | 245.35271 | 279.79883 | 5.30699 | 0.1281454 | 0.18216187 | 3.0819888 | 20 | 12 25.2 | 19.1 |
| 201213 2002 $QZ_{31}$ | 15.0 | X | 62.82550 | 255.14556 | 133.70134 | 11.82618 | 0.1451982 | 0.18300644 | 3.0724994 | 20 | — | — |
| 201214 2002 $QD_{41}$ | 15.3 | X | 142.26309 | 288.99657 | 69.65886 | 2.60769 | 0.2298713 | 0.19285200 | 2.9670164 | 20 | 2 9.1 | 20.2 |
| 201215 2002 $QL_{45}$ | 15.7 | X | 104.33681 | 261.24384 | 69.58749 | 1.28606 | 0.2517630 | 0.18252185 | 3.0779352 | 20 | — | — |
| 201216 2002 $QX_{45}$ | 15.4 | X | 133.68635 | 279.58210 | 44.66861 | 9.52552 | 0.1326372 | 0.18419226 | 3.0592981 | 20 | — | — |
| 201217 2002 $QZ_{48}$ | 15.4 | X | 28.67795 | 231.53600 | 148.54915 | 5.46256 | 0.2764296 | 0.17552455 | 3.1592025 | 20 | — | — |
| 201218 2002 $QW_{56}$ | 15.7 | X | 188.34660 | 334.75305 | 62.01682 | 2.91132 | 0.0738523 | 0.20406316 | 2.8573251 | 20 | 4 28.9 | 20.0 |
| 201219 2002 $QV_{57}$ | 15.8 | X | 93.43389 | 234.52834 | 161.91662 | 9.06848 | 0.0892575 | 0.18953764 | 3.0015050 | 20 | 1 13.7 | 19.9 |
| 201220 2002 $QP_{64}$ | 16.2 | X | 67.48727 | 96.97701 | 6.87905 | 3.08839 | 0.0871677 | 0.19643340 | 2.9308426 | 20 | 3 3.0 | 19.8 |
| 201221 2002 $QU_{65}$ | 15.9 | X | 104.24496 | 37.99252 | 335.56592 | 2.19927 | 0.1018778 | 0.18839370 | 3.0136430 | 20 | 1 2.7 | 19.9 |
| 201222 2002 $QX_{78}$ | 15.7 | X | 54.90993 | 39.71398 | 355.16653 | 4.10077 | 0.1637768 | 0.18168071 | 3.0874280 | 20 | — | — |
| 201223 2002 $QE_{85}$ | 15.8 | X | 149.79523 | 89.09026 | 189.33289 | 4.19309 | 0.1408262 | 0.18319229 | 3.0704210 | 20 | — | — |
| 201224 2002 $QQ_{98}$ | 15.8 | X | 253.88468 | 238.97301 | 340.96703 | 4.98211 | 0.0991780 | 0.18878915 | 3.0094331 | 20 | — | — |
| 201225 2002 $QA_{101}$ | 15.5 | X | 344.87749 | 335.95266 | 272.94291 | 6.85228 | 0.0967056 | 0.20879012 | 2.8140345 | 20 | 5 1.9 | 18.9 |
| 201226 2002 $QA_{103}$ | 15.3 | X | 23.12529 | 169.09094 | 235.93510 | 9.41158 | 0.0786631 | 0.17864505 | 3.1223054 | 20 | — | — |
| 201227 2002 $QB_{105}$ | 16.3 | X | 169.67863 | 172.96269 | 135.77674 | 1.71821 | 0.0354735 | 0.18903219 | 3.0068531 | 20 | — | — |
| 201228 2002 $QZ_{105}$ | 15.9 | X | 196.00654 | 330.31806 | 107.77824 | 10.45914 | 0.1409885 | 0.20950023 | 2.8076720 | 20 | 6 26.0 | 20.4 |
| 201229 2002 $QJ_{118}$ | 16.3 | X | 354.27749 | 80.70398 | 44.59302 | 4.14335 | 0.0218318 | 0.18943310 | 3.0026092 | 20 | — | — |
| 201230 2002 $QD_{123}$ | 15.5 | X | 258.00910 | 281.83239 | 95.59018 | 6.86737 | 0.0742419 | 0.21180097 | 2.7873023 | 20 | 6 23.4 | 19.2 |
| 201231 2002 $QV_{128}$ | 15.5 | X | 353.61932 | 255.25419 | 138.00335 | 7.15445 | 0.1202536 | 0.17347570 | 3.1840285 | 20 | 11 28.5 | 19.5 |
| 201232 2002 $RV_{5}$ | 15.6 | X | 102.22789 | 182.59962 | 270.48866 | 9.59196 | 0.1056705 | 0.19526326 | 2.9425399 | 20 | 4 1.5 | 19.9 |
| 201233 2002 $RR_{8}$ | 15.3 | X | 112.07677 | 302.27481 | 58.09094 | 6.61185 | 0.2862595 | 0.18339849 | 3.0681190 | 20 | 1 22.1 | 20.0 |
| 201234 2002 $RS_{16}$ | 15.1 | X | 78.42810 | 264.24757 | 174.14988 | 9.13956 | 0.1137848 | 0.19104616 | 2.9856841 | 20 | 2 17.3 | 19.1 |
| 201235 2002 $RR_{22}$ | 15.1 | X | 74.87877 | 50.64474 | 348.13959 | 13.64154 | 0.1050402 | 0.18524063 | 3.0477445 | 20 | — | — |
| 201236 2002 $RG_{24}$ | 15.9 | X | 333.81631 | 28.19505 | 273.30998 | 1.52507 | 0.0354381 | 0.21178181 | 2.7874705 | 20 | 7 2.5 | 19.3 |
| 201237 2002 $RR_{32}$ | 15.8 | X | 137.76197 | 342.77819 | 321.30071 | 4.12778 | 0.2439855 | 0.18295062 | 3.0731243 | 20 | — | — |
| 201238 2002 $RN_{42}$ | 15.5 | X | 59.10784 | 21.18928 | 349.63072 | 15.19809 | 0.2621212 | 0.17888294 | 3.1195367 | 20 | — | — |
| 201239 2002 $RM_{43}$ | 15.3 | X | 81.36600 | 211.92103 | 156.83514 | 10.77329 | 0.1275606 | 0.18241171 | 3.0791741 | 20 | — | — |
| 201240 2002 $RY_{45}$ | 15.7 | X | 69.01685 | 273.92628 | 81.44904 | 2.93988 | 0.1210094 | 0.17845408 | 3.1245327 | 20 | — | — |
| 201241 2002 $RN_{46}$ | 15.5 | X | 125.71117 | 248.35005 | 131.46142 | 4.91071 | 0.1420765 | 0.19030762 | 2.9934035 | 20 | 2 8.9 | 20.0 |
| 201242 2002 $RH_{77}$ | 15.8 | X | 205.55708 | 69.32511 | 292.41691 | 1.17843 | 0.0787577 | 0.20062802 | 2.8898480 | 20 | 4 2.7 | 20.0 |
| 201243 2002 $RM_{80}$ | 14.7 | X | 90.45908 | 132.97831 | 169.81141 | 10.73395 | 0.0996039 | 0.17406409 | 3.1768491 | 20 | 12 8.3 | 19.6 |
| 201244 2002 $RQ_{82}$ | 15.5 | X | 112.76462 | 159.16161 | 175.85576 | 4.99699 | 0.1846364 | 0.18180546 | 3.0860155 | 20 | — | — |
| 201245 2002 $RX_{89}$ | 15.3 | X | 76.08317 | 132.60802 | 209.73837 | 2.72903 | 0.0595666 | 0.17734806 | 3.1375097 | 20 | — | — |
| 201246 2002 $RG_{91}$ | 15.1 | X | 118.69358 | 309.98122 | 354.77257 | 4.85871 | 0.1265638 | 0.17806308 | 3.1291050 | 20 | — | — |
| 201247 2002 $RD_{94}$ | 15.3 | X | 354.06211 | 260.23511 | 183.69714 | 25.52395 | 0.2673023 | 0.17359148 | 3.1826126 | 20 | — | — |
| 201248 2002 $RK_{94}$ | 15.1 | X | 62.47444 | 224.06461 | 177.22312 | 12.95711 | 0.1578634 | 0.18106057 | 3.0944737 | 20 | — | — |
| 201249 2002 $RK_{97}$ | 14.9 | X | 50.22860 | 81.48115 | 8.58193 | 10.57239 | 0.1407487 | 0.18460521 | 3.0547341 | 20 | 1 30.4 | 18.7 |
| 201250 2002 $RT_{103}$ | 15.2 | X | 46.18233 | 30.32903 | 11.57130 | 10.82500 | 0.0991159 | 0.17794762 | 3.1304584 | 20 | — | — |
| 201251 2002 $RZ_{112}$ | 14.6 | X | 62.12729 | 40.45973 | 277.43551 | 13.68561 | 0.0826630 | 0.17173812 | 3.2054690 | 20 | 11 20.2 | 19.3 |
| 201252 2002 $RM_{116}$ | 16.0 | X | 118.94512 | 147.60170 | 241.85424 | 1.38552 | 0.1738662 | 0.19083931 | 2.9878410 | 20 | 2 16.1 | 20.4 |
| 201253 2002 $RV_{119}$ | 15.1 | X | 14.97189 | 285.51637 | 75.02572 | 5.82261 | 0.1469107 | 0.17070533 | 3.2183850 | 20 | 11 21.4 | 19.1 |
| 201254 2002 $RG_{123}$ | 15.6 | X | 61.07562 | 322.93868 | 78.41244 | 7.27587 | 0.1833809 | 0.18165144 | 3.0877597 | 20 | — | — |
| 201255 2002 $RA_{124}$ | 15.5 | X | 133.80147 | 318.03207 | 64.53006 | 10.74191 | 0.1000491 | 0.19327828 | 2.9626523 | 20 | 2 20.2 | 20.0 |
| 201256 2002 $RL_{132}$ | 14.9 | X | 66.00249 | 69.82008 | 269.93860 | 9.86565 | 0.2302365 | 0.17484806 | 3.1673460 | 20 | — | — |
| 201257 2002 $RP_{138}$ | 15.1 | X | 111.87591 | 329.61773 | 100.50524 | 13.05978 | 0.0269280 | 0.19620647 | 2.9331020 | 20 | 3 15.3 | 19.4 |
| 201258 2002 $RZ_{138}$ | 15.4 | X | 79.14116 | 332.56564 | 55.40332 | 10.76880 | 0.2145816 | 0.18323716 | 3.0699197 | 20 | 1 4.0 | 19.3 |
| 201259 2002 $RO_{141}$ | 15.1 | X | 199.72302 | 98.85254 | 221.21610 | 8.57573 | 0.0263584 | 0.19300975 | 2.9653995 | 20 | 2 4.5 | 19.5 |
| 201260 2002 $RQ_{144}$ | 15.6 | X | 90.76523 | 113.76230 | 266.57599 | 3.82776 | 0.0945802 | 0.18428027 | 3.0583240 | 20 | — | — |
| 201261 2002 $RA_{151}$ | 15.7 | X | 282.33568 | 90.66700 | 304.87763 | 10.70749 | 0.0556011 | 0.21757659 | 2.7377551 | 20 | 8 20.8 | 19.3 |
| 201262 2002 $RC_{152}$ | 15.3 | X | 53.82434 | 159.68427 | 235.20669 | 7.79571 | 0.0961589 | 0.18105626 | 3.0945228 | 20 | — | — |
| 201263 2002 $RP_{160}$ | 15.8 | X | 59.60616 | 73.74826 | 343.14692 | 7.83061 | 0.0835229 | 0.18564928 | 3.0432704 | 20 | — | — |
| 201264 2002 $RP_{161}$ | 16.0 | X | 96.08436 | 226.32393 | 139.33929 | 1.42043 | 0.1548811 | 0.18407175 | 3.0606332 | 20 | — | — |
| 201265 2002 $RF_{166}$ | 15.7 | X | 34.38075 | 77.47756 | 346.49108 | 1.66347 | 0.1105947 | 0.18188141 | 3.0851564 | 20 | — | — |
| 201266 2002 $RK_{167}$ | 15.4 | X | 30.40225 | 240.72575 | 173.43962 | 9.43009 | 0.0925610 | 0.17994027 | 3.1073045 | 20 | — | — |
| 201267 2002 $RX_{183}$ | 15.1 | X | 137.26456 | 81.32838 | 246.76626 | 14.02627 | 0.1158327 | 0.18391767 | 3.0623423 | 20 | — | — |
| 201268 2002 $RQ_{185}$ | 14.9 | X | 68.21747 | 48.96805 | 322.14755 | 15.96145 | 0.1683762 | 0.17903227 | 3.1178019 | 20 | — | — |
| 201269 2002 $RR_{185}$ | 15.4 | X | 71.84892 | 190.98361 | 209.06021 | 16.85182 | 0.1501709 | 0.18355833 | 3.0663377 | 20 | — | — |
| 201270 2002 $RE_{190}$ | 15.7 | X | 52.90662 | 219.49621 | 178.63543 | 6.55769 | 0.1518437 | 0.18100571 | 3.0950989 | 20 | — | — |
| 201271 2002 $RA_{201}$ | 15.2 | X | 134.83239 | 195.52710 | 159.61905 | 17.12715 | 0.0767332 | 0.18970412 | 2.9997487 | 20 | 1 11.8 | 19.8 |
| 201272 2002 $RK_{201}$ | 15.3 | X | 129.07670 | 240.49228 | 116.42747 | 7.95990 | 0.1153557 | 0.18756465 | 3.0225168 | 20 | 1 13.3 | 19.6 |
| 201273 2002 $RP_{210}$ | 16.3 | X | 26.00667 | 261.17708 | 186.40250 | 3.92976 | 0.0890362 | 0.18272030 | 3.0757062 | 20 | — | — |
| 201274 2002 $RS_{224}$ | 15.4 | X | 60.37684 | 73.80552 | 326.08100 | 10.18157 | 0.1090742 | 0.18307402 | 3.0717432 | 20 | — | — |
| 201275 2002 $RR_{228}$ | 15.1 | X | 82.76774 | 280.93067 | 94.17635 | 9.45659 | 0.0953722 | 0.18368605 | 3.0649162 | 20 | — | — |
| 201276 2002 $RN_{230}$ | 15.9 | X | 121.28711 | 329.87192 | 56.18715 | 2.52001 | 0.1813179 | 0.19010561 | 2.9955237 | 20 | 2 17.1 | 20.4 |
| 201277 2002 $RC_{239}$ | 15.6 | X | 154.47668 | 141.64935 | 175.74077 | 10.84626 | 0.0990279 | 0.18752363 | 3.0229576 | 20 | — | — |
| 201278 2002 $RM_{243}$ | 15.3 | X | 236.88832 | 278.86052 | 287.54539 | 11.54933 | 0.0957079 | 0.18444518 | 3.0565008 | 20 | — | — |
| 201279 2002 $RT_{255}$ | 16.1 | X | 115.33938 | 178.96003 | 206.23255 | 11.74456 | 0.1414339 | 0.19103680 | 2.9857816 | 20 | 1 31.2 | 20.7 |
| 201280 2002 $RJ_{264}$ | 16.1 | X | 20.29603 | 263.72919 | 205.77581 | 9.09365 | 0.1030381 | 0.18616387 | 3.0376597 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201281 2002 $RL_{271}$ | 16.3 | X | 195.27019 | 35.94355 | 284.85176 | 0.95783 | 0.1111437 | 0.19484254 | 2.9467742 | 20 | 2 4.3 | 20.9 |
| 201282 2002 $RN_{278}$ | 15.8 | X | 89.79745 | 229.66766 | 148.08185 | 0.81008 | 0.0341654 | 0.18271253 | 3.0757934 | 20 | — | — |
| 201283 2002 $RP_{278}$ | 16.1 | X | 254.70054 | 3.66662 | 190.28232 | 4.93435 | 0.0256699 | 0.18005194 | 3.1060195 | 20 | — | — |
| 201284 2002 $SM_{4}$ | 15.1 | X | 62.63305 | 4.57802 | 8.34312 | 15.29492 | 0.0628346 | 0.17752603 | 3.1354125 | 20 | — | — |
| 201285 2002 $SM_{5}$ | 16.0 | X | 73.96904 | 225.99728 | 132.48117 | 2.29114 | 0.1884921 | 0.17790504 | 3.1309578 | 20 | — | — |
| 201286 2002 $SD_{6}$ | 15.2 | X | 16.37308 | 293.80142 | 175.70878 | 11.81343 | 0.0600614 | 0.18424980 | 3.0586611 | 20 | — | — |
| 201287 2002 $SV_{14}$ | 14.6 | X | 19.70240 | 118.08127 | 305.28527 | 19.76507 | 0.1395379 | 0.17688576 | 3.1429741 | 20 | — | — |
| 201288 2002 $SU_{16}$ | 16.1 | X | 166.42908 | 338.70286 | 35.84082 | 0.32763 | 0.0531952 | 0.19370148 | 2.9583355 | 20 | 3 8.1 | 20.4 |
| 201289 2002 $SY_{23}$ | 14.9 | X | 110.21258 | 258.43670 | 82.92918 | 11.75501 | 0.2198940 | 0.18235624 | 3.0797985 | 20 | — | — |
| 201290 2002 $SM_{36}$ | 15.2 | X | 239.51022 | 200.04123 | 113.56890 | 3.08814 | 0.0799713 | 0.19587431 | 2.9364170 | 20 | 3 13.3 | 19.5 |
| 201291 2002 $SO_{41}$ | 15.5 | X | 76.17169 | 258.68987 | 76.01265 | 3.08390 | 0.2071648 | 0.17480139 | 3.1679097 | 20 | — | — |
| 201292 2002 $SF_{46}$ | 15.4 | X | 329.31388 | 273.44650 | 33.46748 | 6.91346 | 0.1407465 | 0.20941264 | 2.8084549 | 20 | 6 24.4 | 18.6 |
| 201293 2002 $SS_{52}$ | 15.3 | X | 144.51522 | 261.02369 | 48.39178 | 14.75360 | 0.2476472 | 0.18423059 | 3.0588737 | 20 | — | — |
| 201294 2002 $SS_{53}$ | 14.8 | X | 78.69610 | 35.28814 | 322.45817 | 15.72389 | 0.0894692 | 0.17693116 | 3.1424365 | 20 | — | — |
| 201295 2002 $SA_{57}$ | 15.2 | X | 70.75727 | 332.34597 | 59.69283 | 8.18089 | 0.2712413 | 0.18040318 | 3.1019866 | 20 | 1 5.2 | 18.8 |
| 201296 2002 $SD_{58}$ | 14.9 | X | 83.90588 | 271.90484 | 61.29657 | 13.22369 | 0.1581093 | 0.17494879 | 3.1661301 | 20 | — | — |
| 201297 2002 $SK_{60}$ | 15.6 | X | 172.32858 | 185.63991 | 125.31612 | 10.63996 | 0.0564793 | 0.18819822 | 3.0157295 | 20 | — | — |
| 201298 2002 $SV_{64}$ | 15.2 | X | 306.12393 | 168.69224 | 61.84950 | 13.58182 | 0.0610752 | 0.19545285 | 2.9406367 | 20 | 2 26.3 | 19.5 |
| 201299 2002 $SX_{70}$ | 16.1 | X | 98.00009 | 58.50601 | 345.04783 | 5.90118 | 0.0666279 | 0.19101013 | 2.9860594 | 20 | 1 27.1 | 20.2 |
| 201300 2002 $TL_{6}$ | 15.0 | X | 149.67981 | 264.29435 | 34.92457 | 12.69149 | 0.0496727 | 0.17965243 | 3.1106226 | 20 | — | — |
| 201301 2002 $TR_{7}$ | 15.0 | X | 43.52199 | 7.52742 | 20.08544 | 15.55400 | 0.2003634 | 0.17701244 | 3.1414744 | 20 | — | — |
| 201302 2002 $TD_{12}$ | 15.5 | X | 42.00074 | 207.09838 | 179.03574 | 9.68523 | 0.1028239 | 0.17658746 | 3.1465126 | 20 | — | — |
| 201303 2002 $TJ_{12}$ | 15.0 | X | 60.71114 | 294.19142 | 30.97551 | 12.27008 | 0.0650557 | 0.17092420 | 3.2156370 | 20 | 11 23.7 | 19.7 |
| 201304 2002 $TE_{34}$ | 15.3 | X | 2.80238 | 254.09988 | 200.47293 | 12.03402 | 0.0941936 | 0.17907322 | 3.1173265 | 20 | — | — |
| 201305 2002 $TY_{41}$ | 15.3 | X | 33.23486 | 34.41032 | 57.71013 | 4.62577 | 0.2313658 | 0.17917538 | 3.1161415 | 20 | 1 4.8 | 18.2 |
| 201306 2002 $TL_{62}$ | 15.2 | X | 138.39604 | 25.67979 | 261.11487 | 4.11281 | 0.1093862 | 0.17717515 | 3.1395507 | 20 | — | — |
| 201307 2002 $TC_{65}$ | 15.8 | X | 21.94768 | 135.20853 | 249.87207 | 3.51449 | 0.1909826 | 0.17276244 | 3.1927861 | 20 | — | — |
| 201308 Hansgrade | 15.7 | X | 114.51699 | 74.97129 | 269.61874 | 2.05546 | 0.1292019 | 0.18111130 | 3.0938958 | 20 | — | — |
| 201309 2002 $TH_{70}$ | 15.0 | X | 65.67786 | 182.90904 | 236.66430 | 9.45187 | 0.0729355 | 0.18349891 | 3.0669996 | 20 | 1 3.8 | 19.1 |
| 201310 2002 $TJ_{91}$ | 15.1 | X | 78.85714 | 49.08308 | 286.76130 | 5.65731 | 0.2700363 | 0.17468712 | 3.1692910 | 20 | — | — |
| 201311 2002 $TY_{91}$ | 16.5 | X | 252.29570 | 65.07118 | 0.06861 | 7.32432 | 0.0928443 | 0.27120771 | 2.3637490 | 20 | 8 24.6 | 19.4 |
| 201312 2002 $TQ_{92}$ | 15.5 | X | 58.66528 | 229.43751 | 176.43780 | 10.32641 | 0.0371969 | 0.18277737 | 3.0750659 | 20 | — | — |
| 201313 2002 $TR_{95}$ | 14.9 | X | 110.33798 | 74.66830 | 259.52566 | 8.11939 | 0.0884749 | 0.17961380 | 3.1110685 | 20 | — | — |
| 201314 2002 $TQ_{97}$ | 15.1 | X | 38.96197 | 174.70108 | 249.17007 | 9.28472 | 0.0740360 | 0.18328726 | 3.0693603 | 20 | — | — |
| 201315 2002 $TO_{98}$ | 15.3 | X | 65.43255 | 192.41744 | 203.93614 | 10.05723 | 0.1276721 | 0.18097510 | 3.0954479 | 20 | — | — |
| 201316 2002 $TA_{112}$ | 15.2 | X | 109.26078 | 304.74638 | 20.05447 | 9.65196 | 0.0716122 | 0.18004246 | 3.1061285 | 20 | — | — |
| 201317 2002 $TX_{112}$ | 15.1 | X | 72.66199 | 114.43561 | 221.71768 | 15.72576 | 0.2288656 | 0.17527032 | 3.1622568 | 20 | — | — |
| 201318 2002 $TA_{117}$ | 14.6 | X | 49.16511 | 100.57874 | 262.82092 | 7.92865 | 0.0776034 | 0.17366707 | 3.1816890 | 20 | 12 29.7 | 19.0 |
| 201319 2002 $TW_{118}$ | 14.8 | X | 105.55912 | 89.01334 | 311.13090 | 8.19621 | 0.1579923 | 0.18649447 | 3.0340687 | 20 | 2 12.3 | 19.0 |
| 201320 2002 $TC_{119}$ | 14.8 | X | 57.01811 | 61.98138 | 4.45608 | 25.64922 | 0.2197313 | 0.18117172 | 3.0932079 | 20 | 1 28.9 | 18.8 |
| 201321 2002 $TY_{122}$ | 15.0 | X | 282.45507 | 295.23435 | 285.54520 | 9.31476 | 0.0507784 | 0.19001753 | 2.9964494 | 20 | 1 11.9 | 19.4 |
| 201322 2002 $TO_{124}$ | 15.4 | X | 236.52129 | 337.20985 | 62.67748 | 5.19966 | 0.1069900 | 0.20989239 | 2.8041738 | 20 | 6 22.2 | 19.4 |
| 201323 2002 $TJ_{127}$ | 15.0 | X | 84.53828 | 47.40387 | 280.66254 | 8.01530 | 0.0665840 | 0.17519439 | 3.1631704 | 20 | 12 27.4 | 19.5 |
| 201324 2002 $TV_{127}$ | 15.1 | X | 38.48919 | 229.35270 | 230.45470 | 10.59329 | 0.0957615 | 0.18612649 | 3.0380664 | 20 | 1 14.4 | 19.0 |
| 201325 2002 $TQ_{135}$ | 14.7 | X | 73.81521 | 50.22466 | 275.54850 | 5.16045 | 0.2335336 | 0.17270025 | 3.1935526 | 20 | 12 30.0 | 19.7 |
| 201326 2002 $TR_{136}$ | 15.1 | X | 143.36378 | 115.17575 | 277.99910 | 8.99613 | 0.1034447 | 0.19173697 | 2.9785083 | 20 | 3 5.3 | 19.7 |
| 201327 2002 $TO_{139}$ | 15.1 | X | 159.86232 | 101.31036 | 278.79587 | 7.48920 | 0.1092361 | 0.19126144 | 2.9834432 | 20 | 3 7.7 | 19.9 |
| 201328 2002 $TO_{144}$ | 15.0 | X | 30.23321 | 218.19119 | 142.12006 | 13.99683 | 0.1855693 | 0.17035591 | 3.2227844 | 20 | 12 18.6 | 19.5 |
| 201329 2002 $TX_{146}$ | 15.9 | X | 71.91501 | 102.19362 | 252.90661 | 3.88166 | 0.1543580 | 0.17643196 | 3.1483612 | 20 | — | — |
| 201330 2002 $TM_{158}$ | 15.0 | X | 99.01459 | 276.40370 | 94.82560 | 11.01729 | 0.0939057 | 0.18172594 | 3.0869156 | 20 | — | — |
| 201331 2002 $TV_{159}$ | 15.7 | X | 41.61699 | 309.32162 | 75.90173 | 16.01160 | 0.2125740 | 0.17507759 | 3.1645771 | 20 | — | — |
| 201332 2002 $TV_{160}$ | 14.9 | X | 92.48552 | 242.44389 | 75.94714 | 17.33631 | 0.2274686 | 0.17466661 | 3.1695392 | 20 | — | — |
| 201333 2002 $TA_{163}$ | 14.4 | X | 340.53908 | 20.49953 | 69.08139 | 28.09133 | 0.1512750 | 0.17219120 | 3.1998436 | 20 | — | — |
| 201334 2002 $TW_{165}$ | 15.7 | X | 52.42324 | 2.18160 | 294.30488 | 11.92038 | 0.1677934 | 0.22478190 | 2.6789328 | 20 | 11 1.5 | 19.7 |
| 201335 2002 $TT_{166}$ | 14.7 | X | 144.50515 | 61.67839 | 224.54937 | 21.77947 | 0.0384672 | 0.17903262 | 3.1177978 | 20 | — | — |
| 201336 2002 $TU_{166}$ | 15.2 | X | 138.81208 | 74.95272 | 257.53271 | 14.35950 | 0.1305289 | 0.18533744 | 3.0466831 | 20 | — | — |
| 201337 2002 $TN_{169}$ | 15.0 | X | 37.86200 | 110.24701 | 304.36167 | 14.06217 | 0.0832067 | 0.17920991 | 3.1157412 | 20 | — | — |
| 201338 2002 $TK_{175}$ | 15.0 | X | 82.09752 | 332.65528 | 55.20967 | 10.72031 | 0.0572659 | 0.18239920 | 3.0793148 | 20 | — | — |
| 201339 2002 $TQ_{176}$ | 15.0 | X | 8.78777 | 351.11386 | 101.35460 | 13.53115 | 0.1165254 | 0.17866103 | 3.1221193 | 20 | — | — |
| 201340 2002 $TX_{185}$ | 15.4 | X | 67.00433 | 43.58705 | 333.24894 | 8.08860 | 0.1169659 | 0.17907129 | 3.1173489 | 20 | — | — |
| 201341 2002 $TH_{188}$ | 15.1 | X | 161.19708 | 37.04306 | 232.50419 | 10.64785 | 0.1507774 | 0.17884895 | 3.1199320 | 20 | — | — |
| 201342 2002 $TR_{189}$ | 14.4 | X | 154.62679 | 107.21565 | 271.05416 | 8.93893 | 0.1268454 | 0.19257854 | 2.9698246 | 20 | 2 29.9 | 19.2 |
| 201343 2002 $TT_{189}$ | 15.4 | X | 94.84071 | 45.36481 | 322.24353 | 8.63574 | 0.1137965 | 0.18201543 | 3.0836417 | 20 | — | — |
| 201344 2002 $TL_{192}$ | 15.2 | X | 40.23008 | 87.45789 | 320.83662 | 11.40791 | 0.2641307 | 0.17595236 | 3.1540796 | 20 | — | — |
| 201345 2002 $TJ_{198}$ | 15.2 | X | 85.45873 | 127.45454 | 276.17779 | 15.44323 | 0.2322636 | 0.18512317 | 3.0490335 | 20 | 1 30.0 | 19.4 |
| 201346 2002 $TW_{198}$ | 14.6 | X | 130.19978 | 6.30148 | 294.58871 | 16.37971 | 0.1223907 | 0.17872149 | 3.1214151 | 20 | — | — |
| 201347 2002 $TD_{199}$ | 14.6 | X | 67.61075 | 97.09276 | 255.08909 | 14.33917 | 0.0752364 | 0.17272555 | 3.1932407 | 20 | — | — |
| 201348 2002 $TU_{204}$ | 14.9 | X | 346.25100 | 293.68808 | 175.83309 | 23.52193 | 0.0800641 | 0.17825017 | 3.1269150 | 20 | — | — |
| 201349 2002 $TY_{210}$ | 15.3 | X | 32.24042 | 53.33829 | 36.42881 | 17.22290 | 0.1973340 | 0.17931910 | 3.1144762 | 20 | — | — |
| 201350 2002 $TG_{211}$ | 15.2 | X | 57.70091 | 322.43811 | 21.06891 | 12.50281 | 0.0719077 | 0.17090173 | 3.2159189 | 20 | 12 13.6 | 20.0 |
| 201351 2002 $TA_{213}$ | 15.1 | X | 67.97745 | 325.52244 | 67.25522 | 18.42538 | 0.3134486 | 0.18095195 | 3.0957119 | 20 | 1 7.6 | 18.7 |
| 201352 2002 $TR_{214}$ | 15.2 | X | 22.90108 | 19.79379 | 67.12289 | 12.30214 | 0.2273713 | 0.17803050 | 3.1294867 | 20 | — | — |
| 201353 2002 $TB_{216}$ | 15.1 | X | 351.76866 | 325.83286 | 111.63570 | 15.56983 | 0.1449542 | 0.17108323 | 3.2136439 | 20 | — | — |
| 201354 2002 $TV_{222}$ | 15.2 | X | 53.59389 | 11.41900 | 33.74616 | 6.16009 | 0.1971411 | 0.17801735 | 3.1296408 | 20 | — | — |
| 201355 2002 $TM_{223}$ | 15.2 | X | 54.70014 | 353.67531 | 40.35987 | 7.24243 | 0.1591356 | 0.17749355 | 3.1357950 | 20 | — | — |
| 201356 2002 $TN_{224}$ | 14.9 | X | 79.09343 | 315.23178 | 29.68863 | 9.63976 | 0.0681235 | 0.17374257 | 3.1807673 | 20 | — | — |
| 201357 2002 $TD_{231}$ | 15.0 | X | 91.13632 | 238.22100 | 128.75383 | 11.84656 | 0.1556930 | 0.18285620 | 3.0741821 | 20 | — | — |
| 201358 2002 $TW_{237}$ | 14.8 | X | 65.40561 | 116.33314 | 246.86276 | 20.61775 | 0.0198938 | 0.17487015 | 3.1670793 | 20 | — | — |
| 201359 2002 $TT_{240}$ | 15.0 | X | 156.85853 | 263.99120 | 101.44511 | 13.52029 | 0.1506459 | 0.18930937 | 3.0039173 | 20 | 2 27.4 | 19.9 |
| 201360 2002 $TO_{242}$ | 14.6 | X | 242.67012 | 303.47615 | 218.12390 | 20.87643 | 0.0710708 | 0.16967143 | 3.2314459 | 20 | 11 29.2 | 19.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201361 2002 $TX_{242}$ | 15.4 | X | 18.45017 | 233.72495 | 199.86059 | 4.86314 | 0.1749417 | 0.17623322 | 3.1507276 | 20 | — | — |
| 201362 2002 $TB_{248}$ | 15.8 | X | 19.05429 | 349.41923 | 49.23145 | 2.48189 | 0.1372584 | 0.17370333 | 3.1812463 | 20 | — | — |
| 201363 2002 $TG_{252}$ | 15.6 | X | 17.60341 | 303.67588 | 128.29505 | 5.07461 | 0.2346520 | 0.17648294 | 3.1477548 | 20 | — | — |
| 201364 2002 $TU_{252}$ | 14.8 | X | 281.67449 | 224.74406 | 248.75014 | 3.45901 | 0.1317754 | 0.16562713 | 3.2838381 | 20 | 11 11.3 | 19.0 |
| 201365 2002 $TA_{265}$ | 15.9 | X | 149.08130 | 92.13544 | 208.96940 | 4.18947 | 0.1417227 | 0.18162030 | 3.0881126 | 20 | — | — |
| 201366 2002 $TX_{266}$ | 14.8 | X | 28.63589 | 22.91175 | 64.91039 | 15.41220 | 0.1549308 | 0.17502364 | 3.1652273 | 20 | — | — |
| 201367 2002 $TY_{267}$ | 15.3 | X | 12.96459 | 34.00789 | 1.39144 | 13.49624 | 0.0921257 | 0.17168600 | 3.2061177 | 20 | 12 24.5 | 19.8 |
| 201368 2002 $TS_{270}$ | 15.0 | X | 205.86724 | 38.48484 | 225.38180 | 9.43189 | 0.0410393 | 0.18235346 | 3.0798298 | 20 | — | — |
| 201369 2002 $TA_{278}$ | 14.9 | X | 106.15532 | 130.94411 | 274.12128 | 9.01544 | 0.0852141 | 0.18706345 | 3.0279132 | 20 | 2 6.8 | 19.3 |
| 201370 2002 $TY_{290}$ | 15.3 | X | 60.82729 | 120.76943 | 245.13573 | 10.72259 | 0.2342707 | 0.17470036 | 3.1691309 | 20 | — | — |
| 201371 2002 $TP_{321}$ | 16.1 | X | 125.69175 | 39.76149 | 331.93684 | 1.17160 | 0.1043812 | 0.18841334 | 3.0134335 | 20 | 1 25.9 | 20.4 |
| 201372 Sheldon | 16.2 | X | 73.08556 | 169.13089 | 194.22379 | 16.95547 | 0.1594183 | 0.18134185 | 3.0912729 | 20 | — | — |
| 201373 2002 $TU_{375}$ | 15.8 | X | 35.46712 | 71.50637 | 4.77246 | 8.16623 | 0.1342332 | 0.18211936 | 3.0824684 | 20 | — | — |
| 201374 2002 $TM_{381}$ | 16.5 | X | 344.05964 | 68.24779 | 174.37999 | 2.10200 | 0.0088203 | 0.20157895 | 2.8807524 | 20 | 4 30.9 | 20.5 |
| 201375 2002 $UE_{5}$ | 15.5 | X | 137.61969 | 269.24392 | 51.34089 | 8.55465 | 0.2519115 | 0.18328872 | 3.0693440 | 20 | — | — |
| 201376 2002 $UN_{5}$ | 15.5 | X | 90.10081 | 307.15328 | 46.23967 | 16.59799 | 0.1943630 | 0.17925269 | 3.1152454 | 20 | — | — |
| 201377 2002 $UN_{15}$ | 14.7 | X | 61.77031 | 133.29099 | 201.58288 | 20.61916 | 0.0747695 | 0.16861501 | 3.2449292 | 20 | 12 9.3 | 19.7 |
| 201378 2002 $UO_{15}$ | 14.9 | X | 115.02882 | 242.68444 | 72.32674 | 17.17480 | 0.2059678 | 0.17696194 | 3.1420720 | 20 | — | — |
| 201379 2002 $UY_{28}$ | 14.2 | X | 325.50304 | 12.67630 | 82.71186 | 11.32727 | 0.1053490 | 0.17068952 | 3.2185837 | 20 | 12 28.9 | 18.1 |
| 201380 2002 $UE_{34}$ | 15.1 | X | 19.24190 | 33.98871 | 75.01733 | 18.16070 | 0.1911974 | 0.17906734 | 3.1173947 | 20 | — | — |
| 201381 2002 $UJ_{39}$ | 15.3 | X | 50.29838 | 333.07990 | 134.67572 | 2.72118 | 0.1998071 | 0.18278986 | 3.0749258 | 20 | 2 25.9 | 18.7 |
| 201382 2002 $UA_{49}$ | 15.3 | X | 81.00527 | 271.87076 | 89.99642 | 16.87381 | 0.2507484 | 0.17709493 | 3.1404988 | 20 | — | — |
| 201383 2002 $UT_{61}$ | 15.5 | X | 60.80343 | 215.74938 | 207.71865 | 13.93783 | 0.1073144 | 0.18702992 | 3.0282751 | 20 | 1 3.6 | 19.6 |
| 201384 2002 $UT_{71}$ | 15.2 | X | 193.40024 | 37.33913 | 236.03980 | 7.05065 | 0.1428707 | 0.18018677 | 3.1044698 | 20 | — | — |
| 201385 2002 $VB_{6}$ | 15.9 | X | 89.45951 | 340.23741 | 82.25129 | 2.60179 | 0.1533093 | 0.18461899 | 3.0545821 | 20 | 2 21.4 | 19.9 |
| 201386 2002 $VN_{9}$ | 14.7 | X | 347.60975 | 270.58147 | 237.16483 | 20.39137 | 0.2746022 | 0.17764202 | 3.1340475 | 20 | — | — |
| 201387 2002 $VV_{14}$ | 15.3 | X | 10.88976 | 76.58762 | 297.50118 | 4.15135 | 0.0337621 | 0.16745361 | 3.2599158 | 20 | 11 17.4 | 19.7 |
| 201388 2002 $VW_{16}$ | 15.1 | X | 352.27867 | 200.30032 | 244.01774 | 9.72467 | 0.1361080 | 0.17228915 | 3.1986306 | 20 | — | — |
| 201389 2002 $VB_{19}$ | 15.5 | X | 35.39955 | 6.82643 | 96.81913 | 2.34724 | 0.1631107 | 0.18048848 | 3.1010092 | 20 | 1 21.3 | 19.0 |
| 201390 2002 $VD_{21}$ | 15.2 | X | 59.79583 | 80.25961 | 318.30445 | 7.45898 | 0.1373690 | 0.17839716 | 3.1251972 | 20 | — | — |
| 201391 2002 $VY_{24}$ | 15.1 | X | 144.79597 | 12.62419 | 326.51641 | 8.70329 | 0.0731138 | 0.18351627 | 3.0668062 | 20 | 1 6.4 | 19.6 |
| 201392 2002 $VC_{41}$ | 15.1 | X | 72.93271 | 317.73562 | 84.04183 | 11.23389 | 0.1064270 | 0.18315221 | 3.0708689 | 20 | — | — |
| 201393 2002 $VN_{41}$ | 14.9 | X | 101.18933 | 92.78228 | 259.57218 | 8.78643 | 0.1907506 | 0.17823914 | 3.1270440 | 20 | — | — |
| 201394 2002 $VG_{52}$ | 14.9 | X | 61.47983 | 284.94335 | 56.31392 | 15.94175 | 0.2282571 | 0.17230924 | 3.1983821 | 20 | — | — |
| 201395 2002 $VS_{53}$ | 14.9 | X | 3.49210 | 320.12166 | 101.74307 | 11.67981 | 0.1450670 | 0.17103588 | 3.2142370 | 20 | — | — |
| 201396 2002 $VN_{61}$ | 14.9 | X | 109.81366 | 84.74900 | 229.64556 | 23.76857 | 0.2103313 | 0.17507796 | 3.1645726 | 20 | — | — |
| 201397 2002 $VR_{68}$ | 15.5 | X | 320.89668 | 18.23747 | 307.45293 | 8.71101 | 0.1602726 | 0.20951845 | 2.8075093 | 20 | 7 4.7 | 18.6 |
| 201398 2002 $VH_{71}$ | 15.9 | X | 131.33837 | 295.17000 | 89.91085 | 4.25058 | 0.1707789 | 0.18711602 | 3.0273461 | 20 | 2 25.8 | 20.5 |
| 201399 2002 $VT_{72}$ | 15.8 | X | 126.17622 | 307.52197 | 103.01319 | 6.19212 | 0.1323167 | 0.18851479 | 3.0123523 | 20 | 3 18.9 | 20.4 |
| 201400 2002 $VW_{77}$ | 15.7 | X | 133.38522 | 250.05793 | 123.38172 | 6.55608 | 0.2548419 | 0.18623268 | 3.0369114 | 20 | 2 21.5 | 20.6 |
| 201401 2002 $VE_{85}$ | 15.7 | X | 20.23051 | 273.83297 | 136.55869 | 11.03725 | 0.1577566 | 0.17465661 | 3.1696601 | 20 | — | — |
| 201402 2002 $VA_{89}$ | 15.1 | X | 22.78078 | 58.95800 | 32.19443 | 14.45931 | 0.2127250 | 0.17608250 | 3.1525253 | 20 | — | — |
| 201403 2002 $VJ_{89}$ | 14.4 | X | 6.40228 | 337.30166 | 88.18075 | 22.63207 | 0.0712958 | 0.17007978 | 3.2262716 | 20 | — | — |
| 201404 2002 $VE_{90}$ | 15.1 | X | 66.69373 | 326.82983 | 63.17635 | 8.68979 | 0.0859599 | 0.17682616 | 3.1436803 | 20 | — | — |
| 201405 2002 $VM_{95}$ | 15.4 | X | 22.89110 | 240.23609 | 174.07447 | 5.48045 | 0.1625673 | 0.17389464 | 3.1789126 | 20 | — | — |
| 201406 2002 $VZ_{97}$ | 16.0 | X | 27.21399 | 16.84325 | 82.83697 | 2.34218 | 0.1935706 | 0.17755625 | 3.1350568 | 20 | 1 1.8 | 19.4 |
| 201407 2002 $VK_{118}$ | 14.3 | X | 119.35755 | 53.43269 | 276.02409 | 20.80363 | 0.1404749 | 0.17927808 | 3.1149513 | 20 | — | — |
| 201408 2002 $VL_{118}$ | 14.5 | X | 16.33868 | 126.15588 | 280.25626 | 21.09899 | 0.1009504 | 0.17195745 | 3.2027427 | 20 | — | — |
| 201409 2002 $VF_{141}$ | 15.4 | X | 91.27552 | 168.96543 | 290.15559 | 7.46223 | 0.0518454 | 0.19057706 | 2.9905814 | 20 | 3 19.7 | 19.7 |
| 201410 2002 $WB$ | 14.9 | X | 60.63652 | 116.59124 | 324.68793 | 16.82310 | 0.3355820 | 0.17789325 | 3.1310961 | 20 | 2 27.7 | 18.4 |
| 201411 2002 $WY_{3}$ | 15.5 | X | 23.10169 | 18.89119 | 91.93577 | 6.19804 | 0.1130594 | 0.17788737 | 3.1311652 | 20 | 1 9.2 | 19.3 |
| 201412 2002 $WF_{6}$ | 15.5 | X | 6.00835 | 93.22266 | 313.56217 | 3.85322 | 0.1334733 | 0.16946938 | 3.2340140 | 20 | — | — |
| 201413 2002 $WC_{14}$ | 15.2 | X | 79.90121 | 343.46864 | 106.03335 | 11.13203 | 0.0414920 | 0.18453405 | 3.0555194 | 20 | 2 29.2 | 19.5 |
| 201414 2002 $XT$ | 15.3 | X | 72.56133 | 22.16778 | 93.62609 | 5.48014 | 0.1109731 | 0.18690123 | 3.0296650 | 20 | 3 31.9 | 19.4 |
| 201415 2002 $XH_{13}$ | 15.4 | X | 353.97265 | 356.00170 | 115.70071 | 2.76560 | 0.1667873 | 0.17316142 | 3.1878799 | 20 | — | — |
| 201416 2002 $XV_{15}$ | 14.7 | X | 335.70511 | 215.17006 | 272.38839 | 18.02843 | 0.1616155 | 0.17366947 | 3.1816597 | 20 | — | — |
| 201417 2002 $XD_{32}$ | 14.7 | X | 82.40393 | 90.00539 | 274.23944 | 12.79025 | 0.2156093 | 0.17494453 | 3.1661814 | 20 | — | — |
| 201418 2002 $XR_{33}$ | 15.2 | X | 81.03370 | 142.10365 | 278.91669 | 10.97176 | 0.1133678 | 0.18197616 | 3.0840853 | 20 | 1 30.4 | 19.4 |
| 201419 2002 $XE_{42}$ | 14.5 | X | 0.65455 | 213.32613 | 292.31185 | 15.75368 | 0.1689171 | 0.17763495 | 3.1341307 | 20 | 1 12.9 | 17.9 |
| 201420 2002 $XG_{56}$ | 15.0 | X | 99.44982 | 79.86274 | 296.25312 | 8.47102 | 0.1122175 | 0.17968732 | 3.1102199 | 20 | 1 3.1 | 19.1 |
| 201421 2002 $XA_{58}$ | 14.8 | X | 316.11617 | 106.41639 | 62.37788 | 14.93526 | 0.1804398 | 0.17318547 | 3.1875848 | 20 | — | — |
| 201422 2002 $XE_{90}$ | 15.1 | X | 73.91189 | 322.84710 | 113.13459 | 14.62447 | 0.1089884 | 0.18046954 | 3.1012262 | 20 | 2 12.4 | 19.2 |
| 201423 2002 $XF_{116}$ | 16.5 | X | 65.53959 | 39.04114 | 166.36332 | 0.79351 | 0.1559147 | 0.18772499 | 3.0207954 | 20 | 7 20.8 | 20.4 |
| 201424 2002 $YQ_{7}$ | 16.8 | X | 67.38416 | 213.32899 | 273.40598 | 6.23679 | 0.0632224 | 0.29816397 | 2.2190442 | 20 | 3 13.8 | 19.2 |
| 201425 2002 $YP_{14}$ | 16.6 | X | 257.35263 | 60.51826 | 298.73507 | 6.70147 | 0.1026217 | 0.30754315 | 2.1736954 | 20 | 5 23.4 | 19.3 |
| 201426 2003 $AG_{14}$ | 15.2 | X | 88.11332 | 276.50878 | 117.75153 | 13.52599 | 0.1091152 | 0.17702468 | 3.1413296 | 20 | 1 10.1 | 19.5 |
| 201427 2003 $AM_{28}$ | 17.0 | X | 183.73609 | 290.39353 | 133.50432 | 5.76833 | 0.0675573 | 0.30518707 | 2.1848685 | 20 | 5 28.7 | 19.9 |
| 201428 2003 $AQ_{56}$ | 17.1 | X | 195.97546 | 56.41747 | 19.12437 | 3.38251 | 0.0532001 | 0.30847094 | 2.1693346 | 20 | 6 30.2 | 19.7 |
| 201429 2003 $AH_{66}$ | 14.9 | X | 29.82297 | 159.56398 | 343.23087 | 17.86972 | 0.0689062 | 0.17765555 | 3.1338884 | 20 | 2 28.5 | 19.0 |
| 201430 2003 $AK_{66}$ | 14.9 | X | 63.08263 | 116.66236 | 323.73091 | 18.23692 | 0.0922633 | 0.17711785 | 3.1402279 | 20 | 2 1.6 | 18.9 |
| 201431 2003 $BZ_{34}$ | 16.6 | X | 253.23542 | 74.54564 | 278.68241 | 4.60879 | 0.1303618 | 0.30573825 | 2.1822418 | 20 | 5 5.3 | 19.4 |
| 201432 2003 $BS_{43}$ | 17.6 | X | 146.14388 | 32.14346 | 95.54025 | 3.61733 | 0.1253835 | 0.30581611 | 2.1818714 | 20 | 7 14.0 | 20.5 |
| 201433 2003 $BB_{52}$ | 16.9 | X | 79.26409 | 229.20403 | 333.54244 | 5.22093 | 0.0911072 | 0.30543520 | 2.1836850 | 20 | 8 5.2 | 19.4 |
| 201434 2003 $BD_{56}$ | 16.8 | X | 354.93153 | 192.99664 | 322.40259 | 6.87891 | 0.1016128 | 0.28665049 | 2.2780728 | 20 | — | — |
| 201435 2003 $BQ_{89}$ | 17.6 | X | 33.24865 | 77.31489 | 109.21137 | 0.86540 | 0.0988327 | 0.29411531 | 2.2393620 | 20 | 4 24.1 | 19.4 |
| 201436 2003 $DX_{1}$ | 17.0 | X | 180.44765 | 180.24475 | 50.93280 | 2.91154 | 0.1357285 | 0.26618888 | 2.3933678 | 20 | 12 27.5 | 20.3 |
| 201437 2003 $DN_{19}$ | 17.0 | X | 357.85808 | 275.03160 | 307.13563 | 1.50728 | 0.1129108 | 0.29407054 | 2.2395892 | 20 | 4 9.5 | 19.0 |
| 201438 2003 $EQ_{20}$ | 16.5 | X | 310.63193 | 244.19716 | 356.10863 | 7.46488 | 0.0823966 | 0.28777817 | 2.2721176 | 20 | 2 24.5 | 19.0 |
| 201439 2003 $EU_{23}$ | 16.9 | X | 251.24121 | 150.86995 | 70.67484 | 2.75497 | 0.1922823 | 0.27484646 | 2.3428399 | 20 | — | — |
| 201440 2003 $EU_{26}$ | 16.3 | X | 290.92461 | 239.71178 | 354.02100 | 7.74600 | 0.0641747 | 0.28460578 | 2.2889707 | 20 | 1 23.8 | 19.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201441 2003 $EE_{27}$ | 16.7 | X | 206.93881 | 256.00319 | 346.03400 | 5.31614 | 0.1938161 | 0.27042657 | 2.3682987 | 20 | — | — |
| 201442 2003 $EQ_{34}$ | 16.7 | X | 323.33471 | 298.83514 | 292.00017 | 4.01361 | 0.1820939 | 0.28673597 | 2.2776200 | 20 | 2 10.7 | 19.4 |
| 201443 2003 $EO_{35}$ | 16.3 | X | 0.30162 | 259.16949 | 299.29779 | 6.93172 | 0.0719081 | 0.28985023 | 2.2612762 | 20 | 3 8.9 | 18.8 |
| 201444 2003 $EZ_{44}$ | 17.5 | X | 99.00725 | 274.67411 | 286.84193 | 3.78681 | 0.1181979 | 0.30634705 | 2.1793497 | 20 | 8 30.3 | 20.3 |
| 201445 2003 $FH_{15}$ | 17.0 | X | 299.15049 | 5.93530 | 204.35995 | 4.82103 | 0.1218128 | 0.28020204 | 2.3128911 | 20 | — | — |
| 201446 2003 $FM_{48}$ | 17.3 | X | 8.26663 | 219.97175 | 1.07730 | 3.03995 | 0.0758737 | 0.29213594 | 2.2494658 | 20 | 4 29.4 | 19.5 |
| 201447 2003 $FQ_{50}$ | 17.0 | X | 95.84021 | 203.86509 | 245.64294 | 4.05432 | 0.0866370 | 0.28912988 | 2.2650305 | 20 | 3 10.2 | 19.7 |
| 201448 2003 $FE_{53}$ | 16.9 | X | 37.50995 | 324.86332 | 232.30414 | 6.01472 | 0.1218099 | 0.29294104 | 2.2453424 | 20 | 5 22.3 | 18.6 |
| 201449 2003 $FY_{58}$ | 17.1 | X | 165.75450 | 44.02224 | 229.49528 | 4.47619 | 0.2140732 | 0.26614444 | 2.3936342 | 20 | — | — |
| 201450 2003 $FT_{63}$ | 17.2 | X | 345.29019 | 103.29173 | 114.55790 | 2.96269 | 0.0803869 | 0.28866006 | 2.2674876 | 20 | 3 17.1 | 19.4 |
| 201451 2003 $FU_{65}$ | 16.8 | X | 343.74004 | 73.71956 | 133.25213 | 4.05394 | 0.1302130 | 0.28659630 | 2.2783599 | 20 | 2 19.7 | 19.1 |
| 201452 2003 $FJ_{68}$ | 16.6 | X | 336.82527 | 128.08295 | 63.41464 | 4.82060 | 0.0959412 | 0.28338325 | 2.2955492 | 20 | 1 23.6 | 19.1 |
| 201453 2003 $FV_{73}$ | 17.1 | X | 211.15835 | 190.54516 | 48.07741 | 2.65612 | 0.1309008 | 0.26863917 | 2.3787921 | 20 | — | — |
| 201454 2003 $FM_{74}$ | 16.3 | X | 291.97583 | 0.45167 | 256.57146 | 6.88624 | 0.1025655 | 0.28330686 | 2.2959618 | 20 | 2 14.6 | 19.3 |
| 201455 2003 $FU_{78}$ | 16.7 | X | 229.75780 | 49.85347 | 206.81451 | 4.72926 | 0.1966100 | 0.27338309 | 2.3511930 | 20 | — | — |
| 201456 2003 $FX_{79}$ | 16.3 | X | 42.73877 | 169.94162 | 124.19375 | 2.70156 | 0.4000687 | 0.24520883 | 2.5280092 | 20 | 11 26.2 | 20.2 |
| 201457 2003 $FC_{92}$ | 17.0 | X | 346.05166 | 107.41425 | 92.61853 | 3.33157 | 0.0952867 | 0.28566135 | 2.2833285 | 20 | 2 19.4 | 19.4 |
| 201458 2003 $FV_{96}$ | 17.8 | X | 165.57530 | 259.66083 | 192.35525 | 0.75613 | 0.0732178 | 0.29986467 | 2.2106459 | 20 | 6 14.1 | 20.6 |
| 201459 2003 $FG_{97}$ | 16.6 | X | 197.44330 | 325.41706 | 273.64317 | 3.98325 | 0.1608930 | 0.26691601 | 2.3890192 | 20 | — | — |
| 201460 2003 $FJ_{99}$ | 16.8 | X | 258.04247 | 134.81856 | 114.78418 | 3.79038 | 0.1335347 | 0.27869393 | 2.3212275 | 20 | — | — |
| 201461 2003 $FD_{101}$ | 17.3 | X | 16.22388 | 153.21908 | 23.50100 | 3.44169 | 0.0958615 | 0.28847442 | 2.2684603 | 20 | 3 8.4 | 19.4 |
| 201462 2003 $FZ_{103}$ | 16.4 | X | 157.59579 | 101.78678 | 210.75365 | 6.05780 | 0.1356830 | 0.27184200 | 2.3600707 | 20 | — | — |
| 201463 2003 $FC_{108}$ | 16.3 | X | 259.32659 | 18.47851 | 246.69627 | 6.60944 | 0.1505967 | 0.28085825 | 2.3092871 | 20 | 1 16.3 | 19.8 |
| 201464 2003 $FV_{108}$ | 16.8 | X | 95.66891 | 81.21030 | 79.02730 | 6.66856 | 0.0770508 | 0.29919946 | 2.2139213 | 20 | 6 22.1 | 19.3 |
| 201465 2003 $FB_{119}$ | 17.3 | X | 320.63159 | 71.91296 | 122.25846 | 1.87291 | 0.1460177 | 0.28057761 | 2.3108267 | 20 | — | — |
| 201466 2003 $FG_{120}$ | 17.0 | X | 239.98611 | 256.86136 | 13.16002 | 4.21586 | 0.1836147 | 0.27885327 | 2.3203432 | 20 | 1 5.0 | 20.7 |
| 201467 2003 $FQ_{121}$ | 16.6 | X | 250.21654 | 340.22482 | 224.84735 | 6.63092 | 0.0902912 | 0.27329513 | 2.3516975 | 20 | — | — |
| 201468 2003 $FL_{130}$ | 16.8 | X | 315.79649 | 93.97826 | 194.16774 | 12.27695 | 0.2592437 | 0.23400217 | 2.6080913 | 20 | 4 15.0 | 19.6 |
| 201469 2003 $GQ_{1}$ | 16.7 | X | 230.33420 | 241.82741 | 24.95993 | 2.10860 | 0.1955781 | 0.27509948 | 2.3414032 | 20 | — | — |
| 201470 2003 $GP_{17}$ | 17.1 | X | 342.05669 | 10.67263 | 208.44577 | 2.64360 | 0.1094320 | 0.28785802 | 2.2716975 | 20 | 3 7.1 | 19.3 |
| 201471 2003 $GV_{18}$ | 17.7 | X | 233.95659 | 217.05899 | 13.85357 | 2.78120 | 0.1329972 | 0.27169848 | 2.3609018 | 20 | — | — |
| 201472 2003 $GZ_{19}$ | 16.8 | X | 189.55771 | 241.19390 | 3.42802 | 1.88776 | 0.1619652 | 0.26722950 | 2.3871504 | 20 | — | — |
| 201473 2003 $GV_{22}$ | 16.9 | X | 208.35381 | 208.31645 | 49.66781 | 3.07505 | 0.1595839 | 0.26914218 | 2.3758273 | 20 | — | — |
| 201474 2003 $GN_{27}$ | 16.9 | X | 90.84892 | 270.23441 | 1.51601 | 3.85723 | 0.0914162 | 0.25555490 | 2.4593098 | 20 | 11 13.5 | 20.4 |
| 201475 2003 $GV_{28}$ | 17.0 | X | 76.30399 | 100.26861 | 78.70719 | 4.27340 | 0.1346254 | 0.29619975 | 2.2288436 | 20 | 7 1.9 | 19.4 |
| 201476 2003 $GS_{34}$ | 16.9 | X | 23.78262 | 67.01652 | 85.26102 | 7.37678 | 0.0674102 | 0.28461056 | 2.2889451 | 20 | 2 17.4 | 19.3 |
| 201477 2003 $GN_{37}$ | 16.7 | X | 233.76691 | 50.79608 | 222.43342 | 2.27848 | 0.1483107 | 0.27619441 | 2.3352110 | 20 | 1 3.9 | 20.2 |
| 201478 2003 $GT_{37}$ | 17.0 | X | 348.30291 | 8.72428 | 199.82988 | 5.54814 | 0.0440961 | 0.28694893 | 2.2764929 | 20 | 3 9.4 | 19.6 |
| 201479 2003 $GX_{49}$ | 16.2 | X | 203.54474 | 235.56781 | 53.49496 | 7.07572 | 0.0897262 | 0.27444936 | 2.3450993 | 20 | — | — |
| 201480 2003 $GF_{54}$ | 16.3 | X | 214.45264 | 238.19144 | 103.79082 | 7.03556 | 0.1438019 | 0.28471513 | 2.2883846 | 20 | 3 14.4 | 19.8 |
| 201481 2003 $HG_{1}$ | 16.4 | X | 160.64344 | 188.95936 | 78.50415 | 3.53319 | 0.1877454 | 0.26189568 | 2.4194528 | 20 | — | — |
| 201482 2003 $HU_{4}$ | 16.8 | X | 60.12933 | 189.22539 | 131.98167 | 6.63168 | 0.1214518 | 0.25514056 | 2.4619716 | 20 | 12 16.7 | 20.4 |
| 201483 2003 $HT_{7}$ | 17.1 | X | 230.60158 | 38.51908 | 189.94930 | 1.14514 | 0.1350968 | 0.26895051 | 2.3769560 | 20 | — | — |
| 201484 2003 $HC_{13}$ | 16.5 | X | 269.09025 | 149.89853 | 75.43029 | 7.75838 | 0.0766263 | 0.27441592 | 2.3452898 | 20 | — | — |
| 201485 2003 $HE_{20}$ | 16.6 | X | 239.11650 | 25.60499 | 208.28046 | 3.50281 | 0.1116297 | 0.27147789 | 2.3621805 | 20 | — | — |
| 201486 2003 $HX_{21}$ | 17.1 | X | 256.42433 | 87.94934 | 155.71857 | 2.66071 | 0.1873691 | 0.27461173 | 2.3441748 | 20 | — | — |
| 201487 2003 $HA_{36}$ | 16.3 | X | 297.93213 | 229.67635 | 70.96487 | 8.35575 | 0.1972832 | 0.23140734 | 2.6275518 | 20 | 4 18.5 | 19.8 |
| 201488 2003 $HJ_{39}$ | 17.1 | X | 298.05114 | 339.05244 | 253.70226 | 1.43063 | 0.1804905 | 0.27972363 | 2.3155275 | 20 | 1 13.9 | 20.1 |
| 201489 2003 $HT_{39}$ | 16.7 | X | 36.21212 | 208.45701 | 77.13874 | 2.90914 | 0.1999469 | 0.24310236 | 2.5425915 | 20 | 10 11.3 | 19.7 |
| 201490 2003 $HX_{51}$ | 15.9 | X | 290.09168 | 76.86080 | 184.66472 | 11.42686 | 0.1357326 | 0.22410985 | 2.6842858 | 20 | 2 21.9 | 19.7 |
| 201491 2003 $HG_{53}$ | 16.5 | X | 338.98941 | 249.87692 | 306.45347 | 7.68440 | 0.0364544 | 0.28162305 | 2.3051043 | 20 | 2 9.3 | 19.2 |
| 201492 2003 $HZ_{53}$ | 16.8 | X | 157.93482 | 76.96295 | 195.89076 | 2.23819 | 0.1728609 | 0.26399764 | 2.4065932 | 20 | — | — |
| 201493 2003 $JL_{1}$ | 16.5 | X | 220.17814 | 122.53780 | 99.38796 | 3.43348 | 0.1304892 | 0.26579911 | 2.3957070 | 20 | — | — |
| 201494 2003 $JM_{1}$ | 16.7 | X | 151.79437 | 183.36779 | 105.63073 | 3.85302 | 0.1651665 | 0.26286560 | 2.4134976 | 20 | — | — |
| 201495 2003 $JO_{3}$ | 15.7 | X | 300.73784 | 240.35335 | 39.10505 | 5.53088 | 0.1482119 | 0.17194280 | 3.2029246 | 20 | 4 4.4 | 20.0 |
| 201496 2003 $JS_{4}$ | 17.1 | X | 165.05680 | 158.23921 | 95.31182 | 3.30358 | 0.1631330 | 0.26153189 | 2.4216960 | 20 | — | — |
| 201497 Marcelroche | 15.7 | X | 44.02412 | 112.02328 | 166.88876 | 12.37327 | 0.2872161 | 0.24145266 | 2.5541598 | 20 | 10 27.4 | 19.3 |
| 201498 2003 $KN_{9}$ | 16.6 | X | 35.99001 | 326.73588 | 276.63325 | 8.20494 | 0.1714273 | 0.29547318 | 2.2324959 | 20 | 8 8.6 | 18.9 |
| 201499 2003 $KV_{18}$ | 16.7 | X | 287.70730 | 196.33009 | 13.60432 | 4.10847 | 0.1353855 | 0.27351314 | 2.3504476 | 20 | — | — |
| 201500 2003 $LV_{2}$ | 15.6 | X | 169.02114 | 333.39833 | 66.73878 | 15.66729 | 0.0523336 | 0.21808609 | 2.7334895 | 20 | 4 16.7 | 19.7 |
| 201501 2003 $LV_{4}$ | 15.5 | X | 317.69406 | 204.94060 | 130.61854 | 14.17883 | 0.2263370 | 0.23049981 | 2.6344442 | 20 | 7 4.4 | 18.1 |
| 201502 2003 $MK_{3}$ | 15.6 | X | 21.05304 | 204.58535 | 91.85218 | 7.01909 | 0.1626072 | 0.23793420 | 2.5792779 | 20 | 9 28.2 | 18.6 |
| 201503 2003 $MR_{5}$ | 15.7 | X | 243.22288 | 184.77834 | 134.64875 | 9.18936 | 0.2189957 | 0.21789052 | 2.7351248 | 20 | 3 12.8 | 20.2 |
| 201504 2003 $MW_{9}$ | 15.7 | X | 353.25716 | 68.15214 | 288.86904 | 23.36058 | 0.2921988 | 0.23900109 | 2.5715963 | 20 | 11 15.9 | 18.5 |
| 201505 2003 $MD_{13}$ | 16.1 | X | 15.34516 | 107.92046 | 185.42427 | 3.04873 | 0.2008276 | 0.23617139 | 2.5920967 | 20 | 9 14.2 | 18.7 |
| 201506 2003 $NQ$ | 16.4 | X | 85.57693 | 322.71098 | 289.61297 | 3.31485 | 0.2228889 | 0.24340789 | 2.5404634 | 20 | 10 24.3 | 20.5 |
| 201507 2003 $NC_{8}$ | 15.3 | X | 259.11190 | 47.90272 | 313.17196 | 14.85011 | 0.2871551 | 0.22241279 | 2.6979230 | 20 | 5 1.8 | 20.0 |
| 201508 2003 $OD_{1}$ | 14.1 | X | 195.19779 | 129.47162 | 268.81835 | 24.40588 | 0.2287584 | 0.21453924 | 2.7635345 | 20 | 5 1.1 | 19.2 |
| 201509 2003 $OP_{5}$ | 15.5 | X | 358.66836 | 23.38927 | 291.03271 | 12.20472 | 0.1568984 | 0.23527376 | 2.5986855 | 20 | 8 31.1 | 18.3 |
| 201510 2003 $OT_{5}$ | 15.7 | X | 26.93909 | 205.22850 | 93.34368 | 8.04239 | 0.1199242 | 0.23797160 | 2.5790077 | 20 | 10 4.6 | 18.9 |
| 201511 2003 $OY_{5}$ | 16.4 | X | 339.58033 | 75.84917 | 239.21616 | 3.01749 | 0.2613630 | 0.23150886 | 2.6267836 | 20 | 7 22.6 | 18.1 |
| 201512 2003 $OF_{9}$ | 16.4 | X | 48.18102 | 26.90147 | 261.97486 | 14.38695 | 0.0998074 | 0.23888023 | 2.5724637 | 20 | 10 7.9 | 20.2 |
| 201513 2003 $OU_{15}$ | 15.9 | X | 293.94310 | 101.31233 | 278.33414 | 10.51846 | 0.2155112 | 0.22921391 | 2.6442879 | 20 | 7 24.5 | 18.9 |
| 201514 2003 $OV_{19}$ | 15.4 | X | 270.05026 | 43.73027 | 279.40840 | 11.91652 | 0.1695070 | 0.22024206 | 2.7156213 | 20 | 4 8.9 | 19.7 |
| 201515 2003 $OS_{21}$ | 15.8 | X | 296.86234 | 126.79203 | 281.38789 | 3.61139 | 0.2115396 | 0.23627890 | 2.5913103 | 20 | 9 12.1 | 18.4 |
| 201516 2003 $OE_{29}$ | 15.9 | X | 303.03018 | 11.70821 | 341.97536 | 7.33041 | 0.0462144 | 0.22884099 | 2.6471598 | 20 | 7 31.4 | 19.2 |
| 201517 2003 $OF_{29}$ | 16.5 | X | 354.12301 | 307.66686 | 73.44008 | 2.66407 | 0.1045754 | 0.24081976 | 2.5586329 | 20 | 11 29.5 | 19.2 |
| 201518 2003 $OH_{29}$ | 16.0 | X | 25.31272 | 247.98773 | 125.39681 | 6.27986 | 0.1545210 | 0.24410654 | 2.5356138 | 20 | — | — |
| 201519 2003 $OV_{31}$ | 16.4 | X | 228.14959 | 18.85392 | 252.46503 | 6.09303 | 0.0918078 | 0.26576423 | 2.3959166 | 20 | — | — |
| 201520 2003 $PD_{4}$ | 16.7 | X | 341.29682 | 147.71113 | 157.87567 | 5.11485 | 0.2562172 | 0.22953477 | 2.6418230 | 20 | 7 11.2 | 18.5 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201521 2003 $QX_1$ | 15.6 | X | 43.85395 | 245.66011 | 191.69643 | 1.58473 | 0.0912547 | 0.19739837 | 2.9212833 | 20 | — | — |
| 201522 2003 $QC_2$ | 16.7 | X | 301.18090 | 226.82134 | 167.65774 | 0.21491 | 0.1271491 | 0.23238627 | 2.6201676 | 20 | 9 13.4 | 19.5 |
| 201523 2003 $QX_8$ | 16.2 | X | 228.67093 | 63.60271 | 269.29926 | 3.87572 | 0.1679547 | 0.21380708 | 2.7698398 | 20 | 3 15.2 | 20.7 |
| 201524 2003 $QX_{11}$ | 16.1 | X | 125.68723 | 228.00634 | 138.66558 | 7.12222 | 0.1658547 | 0.25913565 | 2.4366021 | 20 | 1 16.5 | 19.3 |
| 201525 2003 $QY_{12}$ | 16.4 | X | 217.40473 | 176.44928 | 118.76996 | 5.03198 | 0.1422535 | 0.26607451 | 2.3940536 | 20 | 1 17.3 | 20.1 |
| 201526 2003 $QZ_{17}$ | 15.5 | X | 261.72040 | 351.31447 | 351.63905 | 8.94493 | 0.1364937 | 0.22034271 | 2.7147943 | 20 | 5 1.3 | 19.5 |
| 201527 2003 $QT_{18}$ | 15.5 | X | 314.01371 | 326.79946 | 348.57339 | 13.26987 | 0.1173929 | 0.22443900 | 2.6816607 | 20 | 6 11.6 | 19.0 |
| 201528 2003 $QL_{20}$ | 15.7 | X | 275.92588 | 275.44851 | 90.97814 | 6.26063 | 0.0976823 | 0.22402701 | 2.6849475 | 20 | 6 29.3 | 19.3 |
| 201529 2003 $QS_{24}$ | 15.9 | X | 326.98403 | 105.28681 | 202.00413 | 6.95150 | 0.1086186 | 0.22418269 | 2.6837044 | 20 | 6 24.2 | 19.0 |
| 201530 2003 $QL_{25}$ | 16.3 | X | 91.59491 | 332.30598 | 297.36279 | 5.36010 | 0.2508055 | 0.24378892 | 2.5378157 | 20 | 11 21.8 | 20.6 |
| 201531 2003 $QE_{39}$ | 15.0 | X | 250.46309 | 31.15565 | 341.13838 | 10.55636 | 0.2902770 | 0.22042948 | 2.7140818 | 20 | 5 9.9 | 19.8 |
| 201532 2003 $QM_{49}$ | 17.0 | X | 285.30351 | 157.10013 | 160.34220 | 7.05047 | 0.2970336 | 0.22179052 | 2.7029669 | 20 | 4 9.7 | 21.1 |
| 201533 2003 $QY_{50}$ | 16.3 | X | 7.61462 | 213.71544 | 113.25289 | 3.83701 | 0.1384103 | 0.23354444 | 2.6114980 | 20 | 10 12.0 | 19.1 |
| 201534 2003 $QV_{61}$ | 15.5 | X | 224.24769 | 180.23588 | 156.37716 | 10.16233 | 0.1610218 | 0.21017679 | 2.8016435 | 20 | 3 19.8 | 20.1 |
| 201535 2003 $QV_{62}$ | 15.9 | X | 104.56188 | 319.30468 | 41.38454 | 3.08380 | 0.0912644 | 0.19500139 | 2.9451737 | 20 | — | — |
| 201536 2003 $QG_{67}$ | 15.6 | X | 275.55726 | 321.81816 | 20.54205 | 13.48100 | 0.1324428 | 0.22018104 | 2.7161230 | 20 | 5 17.9 | 19.5 |
| 201537 2003 $QA_{71}$ | 15.6 | X | 200.59898 | 321.80678 | 90.26529 | 6.41515 | 0.0585187 | 0.21955646 | 2.7212717 | 20 | 6 1.5 | 19.4 |
| 201538 2003 $QC_{73}$ | 14.9 | X | 12.36369 | 192.18210 | 185.61406 | 16.74303 | 0.2250188 | 0.18183321 | 3.0857015 | 20 | 12 22.2 | 19.0 |
| 201539 2003 $QA_{75}$ | 16.2 | X | 267.91947 | 130.95144 | 201.82769 | 4.39157 | 0.1177731 | 0.21976256 | 2.7195700 | 20 | 5 2.0 | 19.8 |
| 201540 2003 $QE_{76}$ | 16.2 | X | 342.08467 | 150.21286 | 270.13683 | 4.11963 | 0.2258419 | 0.24293424 | 2.5437644 | 20 | — | — |
| 201541 2003 $QH_{95}$ | 15.5 | X | 232.15341 | 248.00497 | 97.67911 | 10.02543 | 0.1978964 | 0.21406172 | 2.7676429 | 20 | 4 8.0 | 20.2 |
| 201542 2003 $QF_{96}$ | 15.3 | X | 232.86497 | 259.08834 | 120.00419 | 13.53678 | 0.2269351 | 0.21823416 | 2.7322529 | 20 | 5 16.7 | 20.0 |
| 201543 2003 $QU_{100}$ | 16.0 | X | 354.79273 | 135.86700 | 178.68156 | 10.40290 | 0.0738966 | 0.23222702 | 2.6213653 | 20 | 8 22.5 | 19.1 |
| 201544 2003 $QY_{100}$ | 16.0 | X | 240.99971 | 175.60264 | 196.51461 | 5.53791 | 0.0519696 | 0.22171567 | 2.7035752 | 20 | 5 29.5 | 19.8 |
| 201545 2003 $QF_{103}$ | 15.4 | X | 205.27389 | 293.73174 | 53.55534 | 12.47627 | 0.1605945 | 0.21017280 | 2.8016790 | 20 | 3 20.5 | 20.2 |
| 201546 2003 $QT_{103}$ | 15.9 | X | 296.86348 | 195.88464 | 131.95782 | 7.65722 | 0.1264290 | 0.22220974 | 2.6995662 | 20 | 6 3.2 | 19.3 |
| 201547 2003 $QN_{106}$ | 16.4 | X | 299.19117 | 59.35031 | 321.15545 | 1.70921 | 0.2665284 | 0.22776427 | 2.6554960 | 20 | 7 28.1 | 19.2 |
| 201548 2003 $QQ_{110}$ | 16.2 | X | 56.80235 | 200.84989 | 77.62872 | 4.75347 | 0.2259177 | 0.23882404 | 2.5728671 | 20 | 10 30.9 | 19.8 |
| 201549 2003 $RN$ | 15.7 | X | 84.12561 | 1.47206 | 263.94564 | 17.47527 | 0.1763226 | 0.23988855 | 2.5652500 | 20 | 11 1.6 | 19.9 |
| 201550 2003 $RC_{15}$ | 16.4 | X | 312.63733 | 186.63683 | 262.35338 | 3.33363 | 0.1337206 | 0.24188264 | 2.5511319 | 20 | 12 24.3 | 18.9 |
| 201551 2003 $RH_{15}$ | 14.9 | X | 77.30991 | 66.47242 | 220.22221 | 13.93641 | 0.2901188 | 0.18319826 | 3.0703543 | 20 | 11 26.1 | 20.0 |
| 201552 2003 $RQ_{16}$ | 15.5 | X | 265.15740 | 86.45006 | 282.25642 | 13.30360 | 0.0699937 | 0.22291076 | 2.6939034 | 20 | 6 22.4 | 19.0 |
| 201553 2003 $RD_{17}$ | 16.4 | X | 297.28620 | 281.02658 | 19.00212 | 3.15401 | 0.0818673 | 0.21904029 | 2.7255451 | 20 | 5 1.6 | 19.8 |
| 201554 2003 $RG_{17}$ | 16.0 | X | 146.15895 | 252.61001 | 197.73544 | 4.58148 | 0.1533379 | 0.21452124 | 2.7636891 | 20 | 5 25.6 | 20.4 |
| 201555 2003 $RY_{18}$ | 15.7 | X | 217.63436 | 27.74785 | 0.99357 | 6.07923 | 0.0763296 | 0.21721808 | 2.7407667 | 20 | 5 18.4 | 19.8 |
| 201556 2003 $RZ_{18}$ | 15.8 | X | 228.99198 | 242.80889 | 165.93689 | 2.93373 | 0.1835885 | 0.22030605 | 2.7150954 | 20 | 6 18.3 | 20.2 |
| 201557 2003 $RC_{26}$ | 15.6 | X | 26.33059 | 108.41551 | 228.25133 | 3.66074 | 0.1052659 | 0.17529125 | 3.1620050 | 20 | 11 2.9 | 19.7 |
| 201558 2003 $RC_{27}$ | 15.8 | X | 279.58474 | 268.12626 | 131.34951 | 13.05927 | 0.2782182 | 0.22534941 | 2.6744333 | 20 | 7 20.6 | 19.1 |
| 201559 2003 $SS_2$ | 16.4 | X | 193.01767 | 90.76974 | 312.43626 | 1.53023 | 0.1092250 | 0.21499107 | 2.7596612 | 20 | 5 10.2 | 20.8 |
| 201560 2003 $SB_8$ | 16.2 | X | 290.32501 | 330.68417 | 346.94374 | 3.70847 | 0.1856158 | 0.21983626 | 2.7189622 | 20 | 4 28.5 | 19.9 |
| 201561 2003 $SX_{10}$ | 16.6 | X | 235.93379 | 214.91875 | 179.74713 | 4.86478 | 0.1155341 | 0.21981357 | 2.7191493 | 20 | 6 14.3 | 20.6 |
| 201562 2003 $SF_{13}$ | 16.4 | X | 344.12905 | 142.71380 | 153.78000 | 3.75594 | 0.1331195 | 0.22595631 | 2.6696423 | 20 | 7 8.9 | 19.3 |
| 201563 2003 $SK_{16}$ | 16.0 | X | 175.52884 | 327.64777 | 68.15648 | 4.59019 | 0.1912044 | 0.21083634 | 2.7957976 | 20 | 4 17.4 | 20.7 |
| 201564 2003 $SW_{16}$ | 15.7 | X | 284.49110 | 27.53897 | 269.15382 | 3.79949 | 0.0914056 | 0.21583304 | 2.7524795 | 20 | 4 7.3 | 19.5 |
| 201565 2003 $SQ_{28}$ | 15.6 | X | 229.51287 | 120.47193 | 217.38312 | 5.20093 | 0.0644207 | 0.21112631 | 2.7932372 | 20 | 3 29.7 | 19.8 |
| 201566 2003 $SM_{29}$ | 15.8 | X | 348.11115 | 2.53954 | 240.53894 | 7.78416 | 0.0704910 | 0.21528979 | 2.7571079 | 20 | 5 1.7 | 19.1 |
| 201567 2003 $SN_{29}$ | 15.0 | X | 281.84413 | 148.41426 | 303.60324 | 7.67017 | 0.0555870 | 0.17774244 | 3.1328669 | 20 | 10 25.2 | 19.4 |
| 201568 2003 $SQ_{38}$ | 15.4 | X | 206.09188 | 211.37359 | 232.63116 | 8.40501 | 0.2553020 | 0.21838904 | 2.7309610 | 20 | 7 6.0 | 20.2 |
| 201569 2003 $SM_{47}$ | 16.1 | X | 214.30337 | 136.90445 | 294.07595 | 3.73936 | 0.1894389 | 0.22011350 | 2.7166786 | 20 | 7 2.1 | 20.4 |
| 201570 2003 $SD_{49}$ | 16.1 | X | 207.19283 | 175.49410 | 205.77112 | 2.75599 | 0.1948364 | 0.21310552 | 2.7759155 | 20 | 4 24.9 | 20.7 |
| 201571 2003 $SP_{50}$ | 16.6 | X | 276.50461 | 113.46070 | 252.60445 | 5.01407 | 0.0699689 | 0.22426883 | 2.6830171 | 20 | 7 3.7 | 20.1 |
| 201572 2003 $SE_{52}$ | 16.2 | X | 46.20881 | 150.62664 | 150.87232 | 6.04230 | 0.1229277 | 0.23519584 | 2.5992594 | 20 | 11 2.4 | 19.6 |
| 201573 2003 $SK_{59}$ | 15.6 | X | 310.48964 | 77.62158 | 257.64505 | 11.96439 | 0.1033295 | 0.22753823 | 2.6572544 | 20 | 7 6.1 | 18.8 |
| 201574 2003 $SQ_{61}$ | 16.0 | X | 273.24983 | 295.49782 | 128.56833 | 5.34113 | 0.1024701 | 0.23203675 | 2.6227982 | 20 | 9 15.4 | 19.3 |
| 201575 2003 $SX_{65}$ | 15.7 | X | 274.01726 | 196.96893 | 146.99021 | 6.23608 | 0.1620870 | 0.21964545 | 2.7205366 | 20 | 5 19.3 | 19.6 |
| 201576 2003 $SX_{69}$ | 16.1 | X | 226.31897 | 175.64336 | 185.22101 | 3.04164 | 0.1692153 | 0.21412791 | 2.7670724 | 20 | 4 18.4 | 20.6 |
| 201577 2003 $SR_{70}$ | 15.9 | X | 223.43573 | 157.11420 | 178.79537 | 18.24921 | 0.1915196 | 0.21121379 | 2.7924658 | 20 | 3 14.9 | 20.5 |
| 201578 2003 $ST_{71}$ | 15.5 | X | 151.24186 | 192.25862 | 227.89476 | 7.23847 | 0.2127826 | 0.20942138 | 2.8083768 | 20 | 4 25.3 | 20.2 |
| 201579 2003 $SA_{80}$ | 16.5 | X | 21.03315 | 135.94249 | 260.63224 | 3.24830 | 0.0601676 | 0.24436432 | 2.5338303 | 20 | — | — |
| 201580 2003 $SC_{80}$ | 16.4 | X | 239.69213 | 145.40123 | 243.48600 | 3.89203 | 0.1201400 | 0.21949727 | 2.7217609 | 20 | 6 10.3 | 20.2 |
| 201581 2003 $SS_{80}$ | 15.5 | X | 334.09099 | 16.03230 | 290.90320 | 12.29526 | 0.2354687 | 0.22683267 | 2.6627618 | 20 | 6 26.4 | 17.7 |
| 201582 2003 $SX_{85}$ | 15.5 | X | 206.15848 | 222.33591 | 208.50999 | 7.70567 | 0.2742661 | 0.21606956 | 2.7504705 | 20 | 6 20.1 | 20.4 |
| 201583 2003 $SJ_{87}$ | 15.7 | X | 282.08086 | 304.59994 | 34.66432 | 11.34862 | 0.1537697 | 0.22087722 | 2.7104128 | 20 | 5 20.7 | 19.5 |
| 201584 2003 $SX_{87}$ | 15.5 | X | 343.13958 | 24.52265 | 239.34038 | 13.40077 | 0.0952560 | 0.22079555 | 2.7110811 | 20 | 5 21.9 | 18.4 |
| 201585 2003 $SK_{90}$ | 15.6 | X | 252.65359 | 323.30824 | 54.20944 | 7.36611 | 0.1581808 | 0.22044599 | 2.7139463 | 20 | 6 5.0 | 19.6 |
| 201586 2003 $SF_{97}$ | 15.6 | X | 295.96579 | 312.77845 | 323.49435 | 11.28373 | 0.1436354 | 0.21346765 | 2.7727753 | 20 | 3 16.7 | 19.5 |
| 201587 2003 $SU_{104}$ | 15.7 | X | 226.10626 | 17.93910 | 332.71875 | 3.69080 | 0.0848659 | 0.21206661 | 2.7849743 | 20 | 4 9.1 | 20.0 |
| 201588 2003 $SS_{119}$ | 16.1 | X | 150.99423 | 103.19511 | 330.92601 | 5.97183 | 0.1479173 | 0.21184850 | 2.7868855 | 20 | 5 6.7 | 20.6 |
| 201589 2003 $SU_{120}$ | 15.8 | X | 204.25902 | 49.64127 | 18.40530 | 13.66059 | 0.0764868 | 0.22078967 | 2.7111292 | 20 | 6 25.2 | 20.1 |
| 201590 2003 $SZ_{127}$ | 15.5 | X | 90.56540 | 2.27058 | 10.22061 | 10.79292 | 0.1059296 | 0.19198613 | 2.9759307 | 20 | — | — |
| 201591 2003 $SU_{128}$ | 15.9 | X | 204.87417 | 133.45390 | 280.10009 | 4.84763 | 0.0377924 | 0.21694698 | 2.7430495 | 20 | 6 9.1 | 19.9 |
| 201592 2003 $SE_{129}$ | 16.0 | X | 241.45501 | 20.55319 | 356.09318 | 4.71809 | 0.1674485 | 0.21895140 | 2.7262828 | 20 | 5 21.1 | 20.2 |
| 201593 2003 $SX_{139}$ | 16.0 | X | 170.84522 | 80.39218 | 355.00885 | 2.10254 | 0.0565729 | 0.21601261 | 2.7509539 | 20 | 5 27.2 | 20.0 |
| 201594 2003 $SZ_{143}$ | 15.9 | X | 224.18358 | 106.49806 | 244.31057 | 3.31275 | 0.0833601 | 0.21104788 | 2.7939291 | 20 | 4 7.7 | 20.1 |
| 201595 2003 $SC_{146}$ | 15.6 | X | 214.22834 | 137.07140 | 260.14017 | 8.09711 | 0.1442966 | 0.21537196 | 2.7564066 | 20 | 5 22.5 | 19.9 |
| 201596 2003 $ST_{148}$ | 16.1 | X | 175.19173 | 82.84620 | 284.73682 | 1.66405 | 0.0857933 | 0.20482128 | 2.8502700 | 20 | 3 8.8 | 20.5 |
| 201597 2003 $SV_{151}$ | 16.3 | X | 7.60032 | 288.38231 | 76.25770 | 5.90113 | 0.0913960 | 0.23819489 | 2.5773957 | 20 | 11 25.9 | 19.4 |
| 201598 2003 $SA_{155}$ | 15.7 | X | 250.34341 | 64.92919 | 300.35979 | 4.46259 | 0.0801126 | 0.21740160 | 2.7392240 | 20 | 5 27.0 | 19.6 |
| 201599 2003 $SH_{164}$ | 16.1 | X | 222.52526 | 23.82799 | 11.09197 | 1.54707 | 0.0536625 | 0.21572139 | 2.7534292 | 20 | 6 4.7 | 20.0 |
| 201600 2003 $SR_{174}$ | 16.3 | X | 236.86663 | 50.22573 | 356.67453 | 5.61622 | 0.0458307 | 0.22278190 | 2.6949421 | 20 | 7 11.2 | 20.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201601 2003 $SU_{174}$ | 16.5 | X | 246.29102 | 44.77600 | 281.98756 | 0.62356 | 0.1335117 | 0.21349155 | 2.7725683 | 20 | 3 28.8 | 20.8 |
| 201602 2003 $SU_{187}$ | 16.2 | X | 238.02683 | 86.81681 | 298.43972 | 5.16025 | 0.0661319 | 0.22065368 | 2.7122430 | 20 | 6 9.6 | 20.1 |
| 201603 2003 $SC_{190}$ | 15.1 | X | 175.94014 | 306.25851 | 45.88329 | 15.70620 | 0.1608237 | 0.20507379 | 2.8479298 | 20 | 3 3.1 | 20.0 |
| 201604 2003 $SW_{192}$ | 15.3 | X | 305.66158 | 18.69843 | 269.55541 | 7.84040 | 0.0433135 | 0.21434407 | 2.7652118 | 20 | 5 1.9 | 19.0 |
| 201605 2003 $SZ_{195}$ | 15.8 | X | 272.61658 | 16.45123 | 277.18653 | 2.98146 | 0.0812556 | 0.20926595 | 2.8097672 | 20 | 3 21.8 | 19.9 |
| 201606 2003 $SC_{196}$ | 15.5 | X | 19.75552 | 24.03629 | 266.08977 | 7.79140 | 0.0254430 | 0.22503395 | 2.6769321 | 20 | 8 20.0 | 19.1 |
| 201607 2003 $SG_{196}$ | 15.6 | X | 239.87320 | 61.94160 | 222.02268 | 14.35862 | 0.1296909 | 0.20277735 | 2.8693911 | 20 | 1 28.1 | 20.4 |
| 201608 2003 $SK_{198}$ | 15.9 | X | 269.50017 | 42.66887 | 305.12232 | 7.55756 | 0.2264193 | 0.21892508 | 2.7265013 | 20 | 5 5.6 | 20.1 |
| 201609 2003 $SS_{201}$ | 15.7 | X | 235.21001 | 314.96859 | 27.73458 | 8.40900 | 0.1796512 | 0.21130115 | 2.7916961 | 20 | 4 4.5 | 20.1 |
| 201610 2003 $SA_{202}$ | 16.1 | X | 309.17176 | 206.44864 | 118.79664 | 2.75267 | 0.0964861 | 0.22189690 | 2.7021030 | 20 | 6 21.9 | 19.2 |
| 201611 2003 $SP_{203}$ | 16.5 | X | 206.62317 | 2.57696 | 17.91061 | 4.06894 | 0.1238380 | 0.21410320 | 2.7672854 | 20 | 4 24.9 | 20.8 |
| 201612 2003 $SB_{205}$ | 15.6 | X | 270.12958 | 279.96433 | 23.81208 | 13.99154 | 0.1941168 | 0.21228512 | 2.7830628 | 20 | 3 22.9 | 19.8 |
| 201613 2003 $SQ_{212}$ | 15.4 | X | 295.67607 | 190.91359 | 130.79474 | 13.13253 | 0.1928615 | 0.22281783 | 2.6946524 | 20 | 5 16.4 | 19.1 |
| 201614 2003 $SN_{217}$ | 16.3 | X | 219.15930 | 289.92507 | 50.97013 | 2.31877 | 0.0668921 | 0.20740679 | 2.8265331 | 20 | 3 24.2 | 20.4 |
| 201615 2003 $SV_{220}$ | 15.1 | X | 129.34960 | 287.84763 | 46.35156 | 12.90186 | 0.2373381 | 0.19153196 | 2.9806333 | 20 | — | — |
| 201616 2003 $ST_{226}$ | 16.3 | X | 46.53200 | 11.28532 | 356.39438 | 1.93368 | 0.2039475 | 0.18314022 | 3.0710029 | 20 | — | — |
| 201617 2003 $SB_{233}$ | 15.8 | X | 217.62372 | 244.36810 | 143.27108 | 4.75135 | 0.1059524 | 0.21556217 | 2.7547848 | 20 | 5 18.1 | 20.0 |
| 201618 2003 $SN_{233}$ | 16.3 | X | 323.06792 | 37.82448 | 68.86686 | 4.65724 | 0.1700897 | 0.24305919 | 2.5428926 | 20 | — | — |
| 201619 2003 $SR_{247}$ | 16.0 | X | 226.88996 | 203.02762 | 168.30855 | 2.85936 | 0.1721567 | 0.21466334 | 2.7624693 | 20 | 5 1.9 | 20.3 |
| 201620 2003 $SQ_{248}$ | 15.6 | X | 71.23559 | 169.62820 | 175.31749 | 12.04805 | 0.0467430 | 0.18703412 | 3.0282298 | 20 | — | — |
| 201621 2003 $SJ_{252}$ | 14.5 | X | 4.77844 | 327.38639 | 62.90952 | 19.15540 | 0.1540136 | 0.17576546 | 3.1563152 | 20 | 12 12.9 | 18.4 |
| 201622 2003 $SW_{252}$ | 15.6 | X | 169.75123 | 126.74778 | 353.10171 | 11.24628 | 0.0210173 | 0.22438984 | 2.6820524 | 20 | 7 28.2 | 19.4 |
| 201623 2003 $SE_{253}$ | 17.0 | X | 229.60220 | 138.64249 | 278.88703 | 2.41282 | 0.0811499 | 0.22309187 | 2.6924453 | 20 | 7 10.7 | 20.6 |
| 201624 2003 $SQ_{253}$ | 16.1 | X | 182.14189 | 221.79417 | 226.83425 | 2.57425 | 0.1646777 | 0.21670497 | 2.7450914 | 20 | 6 25.5 | 20.6 |
| 201625 2003 $SV_{258}$ | 16.3 | X | 232.73431 | 185.64507 | 176.94355 | 4.93123 | 0.0864073 | 0.21361354 | 2.7715126 | 20 | 5 4.1 | 20.3 |
| 201626 2003 $SB_{259}$ | 15.8 | X | 203.39288 | 4.01085 | 20.72478 | 4.44364 | 0.1147055 | 0.21080174 | 2.7961035 | 20 | 4 27.4 | 20.2 |
| 201627 2003 $SA_{260}$ | 15.9 | X | 25.18452 | 326.81586 | 21.75745 | 6.65217 | 0.1286164 | 0.23567524 | 2.5957334 | 20 | 12 3.2 | 19.2 |
| 201628 2003 $SO_{262}$ | 16.1 | X | 297.37155 | 294.91359 | 27.83546 | 6.21215 | 0.0173363 | 0.21918143 | 2.7243750 | 20 | 6 10.9 | 19.7 |
| 201629 2003 $SQ_{262}$ | 16.3 | X | 198.21568 | 243.47301 | 149.37468 | 4.12532 | 0.1058608 | 0.21357685 | 2.7718300 | 20 | 5 4.6 | 20.5 |
| 201630 2003 $SU_{266}$ | 16.2 | X | 193.46206 | 226.00623 | 173.46330 | 4.75692 | 0.0781741 | 0.21311718 | 2.7758143 | 20 | 5 8.3 | 20.4 |
| 201631 2003 $SG_{271}$ | 15.4 | X | 240.12065 | 320.19107 | 73.73252 | 10.58561 | 0.1820102 | 0.21833301 | 2.7314282 | 20 | 6 10.3 | 19.4 |
| 201632 2003 $SS_{277}$ | 15.8 | X | 346.34956 | 302.08448 | 317.19427 | 6.40728 | 0.0641257 | 0.21680570 | 2.7442410 | 20 | 5 20.8 | 19.4 |
| 201633 2003 $SY_{279}$ | 16.4 | X | 168.52534 | 185.30612 | 253.40233 | 3.93688 | 0.1333773 | 0.21576779 | 2.7530344 | 20 | 5 31.1 | 20.5 |
| 201634 2003 $SQ_{284}$ | 16.3 | X | 224.41406 | 45.26889 | 303.47294 | 3.58792 | 0.1842650 | 0.21275487 | 2.7789648 | 20 | 3 29.9 | 21.0 |
| 201635 2003 $SE_{286}$ | 15.6 | X | 186.85438 | 12.09344 | 319.16870 | 4.67690 | 0.0301685 | 0.20077624 | 2.8884255 | 20 | 2 5.6 | 19.7 |
| 201636 2003 $SJ_{297}$ | 15.8 | X | 270.27585 | 131.75448 | 187.31768 | 4.68674 | 0.1156601 | 0.21763238 | 2.7372873 | 20 | 4 17.6 | 19.7 |
| 201637 2003 $SB_{299}$ | 15.2 | X | 272.57479 | 116.28812 | 341.68656 | 21.92436 | 0.1820743 | 0.17350645 | 3.1836524 | 20 | 9 27.2 | 19.8 |
| 201638 2003 $SO_{311}$ | 15.9 | X | 279.86316 | 325.13983 | 23.04015 | 5.95374 | 0.0549239 | 0.21978749 | 2.7193644 | 20 | 6 15.9 | 19.6 |
| 201639 2003 $SX_{318}$ | 16.6 | X | 251.33851 | 256.50259 | 76.82125 | 2.73607 | 0.1858570 | 0.21486459 | 2.7607441 | 20 | 4 7.6 | 20.9 |
| 201640 2003 $SS_{326}$ | 16.3 | X | 278.26652 | 132.91144 | 220.24073 | 5.61548 | 0.0133434 | 0.22269683 | 2.6956284 | 20 | 6 27.1 | 20.0 |
| 201641 2003 $SU_{337}$ | 17.0 | X | 160.19969 | 99.08078 | 359.65350 | 3.28521 | 0.0771472 | 0.21791919 | 2.7348850 | 20 | 6 15.4 | 21.1 |
| 201642 2003 $SA_{338}$ | 15.4 | X | 201.18595 | 318.15387 | 96.53294 | 14.17779 | 0.0520682 | 0.21357081 | 2.7718823 | 20 | 6 6.8 | 19.5 |
| 201643 2003 $SC_{340}$ | 16.8 | X | 160.57417 | 97.60687 | 346.47023 | 7.17271 | 0.1716410 | 0.21450476 | 2.7638306 | 20 | 5 29.9 | 21.5 |
| 201644 2003 $SD_{355}$ | 15.3 | X | 52.18980 | 17.75929 | 326.03088 | 11.50766 | 0.0767847 | 0.18205176 | 3.0832314 | 20 | 12 11.7 | 19.8 |
| 201645 2003 $SM_{362}$ | 15.6 | X | 134.38120 | 261.64514 | 6.92428 | 9.88185 | 0.1083740 | 0.18201407 | 3.0836571 | 20 | 12 11.1 | 20.6 |
| 201646 2003 $SJ_{376}$ | 16.4 | X | 324.41310 | 117.07600 | 137.56717 | 0.77490 | 0.0198092 | 0.21332901 | 2.7739764 | 20 | 4 18.5 | 20.1 |
| 201647 2003 $SS_{429}$ | 16.7 | X | 160.01474 | 179.14749 | 197.11274 | 1.60519 | 0.0812325 | 0.20371772 | 2.8605542 | 20 | 3 3.6 | 20.8 |
| 201648 2003 $SF_{430}$ | 16.1 | X | 295.34866 | 132.90480 | 159.86398 | 2.04243 | 0.0152166 | 0.21282205 | 2.7783800 | 20 | 4 30.8 | 19.9 |
| 201649 2003 $TX_{1}$ | 16.0 | X | 35.83842 | 216.00998 | 185.15378 | 11.63110 | 0.1303588 | 0.18660947 | 3.0328220 | 20 | — | — |
| 201650 2003 $TS_{3}$ | 16.3 | X | 299.28096 | 258.70150 | 54.39954 | 3.16944 | 0.0867834 | 0.21578092 | 2.7529228 | 20 | 5 21.9 | 19.6 |
| 201651 2003 $TA_{7}$ | 15.6 | X | 5.40366 | 246.84886 | 73.20560 | 14.48333 | 0.1296818 | 0.23092404 | 2.6312167 | 20 | 10 3.7 | 18.8 |
| 201652 2003 $TE_{8}$ | 15.3 | X | 116.68483 | 236.89478 | 275.73456 | 8.29275 | 0.2444929 | 0.21359936 | 2.7716353 | 20 | 7 20.2 | 19.8 |
| 201653 2003 $TZ_{8}$ | 15.7 | X | 225.19512 | 352.66230 | 44.70215 | 11.79009 | 0.2837618 | 0.21740210 | 2.7392199 | 20 | 5 23.2 | 20.5 |
| 201654 2003 $TU_{10}$ | 15.6 | X | 316.85238 | 31.17328 | 259.54889 | 5.88958 | 0.0148857 | 0.21634568 | 2.7481297 | 20 | 5 26.2 | 19.2 |
| 201655 2003 $TY_{10}$ | 15.8 | X | 182.67681 | 177.35060 | 225.56246 | 5.18555 | 0.0272489 | 0.21108909 | 2.7935655 | 20 | 4 29.0 | 19.8 |
| 201656 2003 $TR_{14}$ | 15.3 | X | 185.10787 | 15.78975 | 59.99218 | 14.59574 | 0.1705248 | 0.21384717 | 2.7694937 | 20 | 6 10.8 | 19.9 |
| 201657 2003 $TV_{15}$ | 15.7 | X | 79.03097 | 321.30731 | 64.28510 | 7.27330 | 0.2101602 | 0.19175586 | 2.9783127 | 20 | — | — |
| 201658 2003 $TN_{20}$ | 15.3 | X | 204.88323 | 218.59529 | 293.68782 | 12.21949 | 0.1892029 | 0.23090016 | 2.6313981 | 20 | 9 27.3 | 19.8 |
| 201659 2003 $TO_{28}$ | 16.4 | X | 183.69723 | 79.24216 | 268.69688 | 0.99577 | 0.0763422 | 0.20371048 | 2.8606220 | 20 | 2 23.0 | 20.6 |
| 201660 2003 $TW_{45}$ | 16.2 | X | 40.45777 | 306.93426 | 237.77138 | 8.17788 | 0.0879745 | 0.21061793 | 2.7977301 | 20 | 5 6.3 | 19.6 |
| 201661 2003 $UU_{3}$ | 16.1 | X | 227.57851 | 78.23286 | 353.12953 | 4.66945 | 0.1610419 | 0.22118423 | 2.7079041 | 20 | 7 19.1 | 20.3 |
| 201662 2003 $UA_{9}$ | 15.4 | X | 244.04273 | 293.75858 | 97.44819 | 25.95476 | 0.2871723 | 0.21770001 | 2.7367203 | 20 | 6 5.4 | 20.1 |
| 201663 2003 $UB_{12}$ | 16.2 | X | 9.38922 | 331.27690 | 59.96589 | 2.28654 | 0.1541207 | 0.17902546 | 3.1178809 | 20 | 12 23.9 | 20.1 |
| 201664 2003 $UW_{13}$ | 16.6 | X | 343.92605 | 109.71626 | 300.22665 | 2.64768 | 0.1586817 | 0.23794347 | 2.5792109 | 20 | 12 27.8 | 19.1 |
| 201665 2003 $UK_{23}$ | 15.8 | X | 145.43870 | 155.78709 | 266.67798 | 1.52878 | 0.0924088 | 0.20548713 | 2.8441094 | 20 | 4 14.4 | 20.0 |
| 201666 2003 $UN_{50}$ | 16.0 | X | 156.47693 | 117.11949 | 246.73042 | 12.18327 | 0.2908429 | 0.20092119 | 2.8870362 | 20 | 2 23.1 | 21.3 |
| 201667 2003 $UX_{51}$ | 15.5 | X | 113.44503 | 217.44875 | 263.86988 | 11.77807 | 0.1080532 | 0.20989360 | 2.8041630 | 20 | 5 25.0 | 19.6 |
| 201668 2003 $UG_{57}$ | 15.5 | X | 239.92316 | 174.68321 | 231.91237 | 4.04254 | 0.1146881 | 0.21822610 | 2.7323202 | 20 | 7 3.9 | 19.4 |
| 201669 2003 $UK_{58}$ | 15.7 | X | 261.18021 | 75.05408 | 298.10386 | 4.10582 | 0.0787402 | 0.21986103 | 2.7187580 | 20 | 6 21.4 | 19.3 |
| 201670 2003 $UT_{60}$ | 15.3 | X | 219.13003 | 289.47893 | 86.33207 | 8.60832 | 0.1017470 | 0.21407889 | 2.7674948 | 20 | 5 6.2 | 19.5 |
| 201671 2003 $UZ_{70}$ | 15.8 | X | 142.66748 | 110.38780 | 241.36898 | 8.41818 | 0.0812801 | 0.19346087 | 2.9607879 | 20 | 1 15.4 | 20.2 |
| 201672 2003 $UK_{73}$ | 16.8 | X | 175.42747 | 29.51332 | 56.47357 | 1.05399 | 0.0374314 | 0.21369283 | 2.7708270 | 20 | 6 15.8 | 20.7 |
| 201673 2003 $UK_{77}$ | 15.5 | X | 123.85702 | 217.28011 | 245.81959 | 12.54108 | 0.0999953 | 0.20943137 | 2.8082875 | 20 | 5 12.5 | 19.5 |
| 201674 2003 $UH_{80}$ | 16.4 | X | 291.07091 | 265.41801 | 75.50631 | 5.67119 | 0.1625141 | 0.22103600 | 2.7091145 | 20 | 6 5.3 | 19.8 |
| 201675 2003 $UV_{81}$ | 16.2 | X | 184.90113 | 254.86359 | 157.53779 | 3.91145 | 0.0591119 | 0.21332817 | 2.7739838 | 20 | 5 15.4 | 20.2 |
| 201676 2003 $UC_{85}$ | 16.1 | X | 281.55742 | 305.60931 | 52.95856 | 5.55687 | 0.1262988 | 0.21976189 | 2.7195756 | 20 | 6 21.6 | 19.6 |
| 201677 2003 $UY_{86}$ | 15.1 | X | 82.54836 | 205.44525 | 178.92083 | 10.50297 | 0.1241485 | 0.18950524 | 3.0018471 | 20 | — | — |
| 201678 2003 $UH_{88}$ | 15.7 | X | 279.42199 | 246.73140 | 65.57531 | 4.47027 | 0.0825575 | 0.21262755 | 2.7800740 | 20 | 4 25.7 | 19.4 |
| 201679 2003 $UT_{88}$ | 15.5 | X | 245.03115 | 302.15665 | 92.13675 | 15.43014 | 0.1003259 | 0.21663607 | 2.7456734 | 20 | 6 25.9 | 19.4 |
| 201680 2003 $UJ_{92}$ | 14.8 | X | 300.97014 | 67.77604 | 237.95881 | 12.99007 | 0.3144871 | 0.21939716 | 2.7225888 | 20 | 4 4.8 | 18.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201681 2003 $UB_{94}$ | 15.9 | X | 282.08011 | 122.35859 | 249.05375 | 4.15360 | 0.0767766 | 0.22221879 | 2.6994930 | 20 | 7 17.4 | 19.4 |
| 201682 2003 $UB_{96}$ | 15.8 | X | 247.10288 | 336.86963 | 36.44106 | 6.75718 | 0.0462194 | 0.21687833 | 2.7436284 | 20 | 6 7.0 | 19.7 |
| 201683 2003 $UA_{99}$ | 15.4 | X | 39.07401 | 169.71609 | 199.30527 | 4.91962 | 0.1539274 | 0.18075297 | 3.0979834 | 20 | — | — |
| 201684 2003 $UC_{104}$ | 15.3 | X | 119.67779 | 229.02334 | 294.18266 | 11.63110 | 0.0715638 | 0.21826499 | 2.7319956 | 20 | 7 22.4 | 19.1 |
| 201685 2003 $UN_{107}$ | 15.2 | X | 31.61382 | 165.47482 | 180.91839 | 17.67947 | 0.1986062 | 0.17770304 | 3.1333300 | 20 | 12 7.4 | 19.7 |
| 201686 2003 $UY_{107}$ | 15.9 | X | 256.63753 | 265.64219 | 53.87151 | 4.67087 | 0.0976955 | 0.21043174 | 2.7993801 | 20 | 4 5.9 | 19.9 |
| 201687 2003 $UH_{109}$ | 16.6 | X | 227.97918 | 143.52607 | 302.88737 | 2.28443 | 0.1384877 | 0.22124297 | 2.7074247 | 20 | 8 9.0 | 20.4 |
| 201688 2003 $UA_{114}$ | 15.8 | X | 203.92323 | 325.95915 | 79.19697 | 10.31237 | 0.0982222 | 0.21362289 | 2.7714318 | 20 | 5 25.8 | 20.0 |
| 201689 2003 $UO_{116}$ | 15.8 | X | 147.95981 | 325.18704 | 132.75544 | 3.40204 | 0.0657008 | 0.21214184 | 2.7843158 | 20 | 5 31.5 | 19.8 |
| 201690 2003 $UO_{119}$ | 14.9 | X | 212.59920 | 184.23507 | 11.44727 | 11.05995 | 0.0397082 | 0.18178803 | 3.0862127 | 20 | 12 9.8 | 19.5 |
| 201691 2003 $UW_{119}$ | 16.1 | X | 80.16972 | 218.75546 | 233.32643 | 4.03307 | 0.0588302 | 0.20123125 | 2.8840698 | 20 | 2 27.4 | 20.0 |
| 201692 2003 $UC_{121}$ | 15.8 | X | 159.72719 | 347.31124 | 108.31800 | 2.39962 | 0.1024318 | 0.21400619 | 2.7681216 | 20 | 6 11.9 | 19.9 |
| 201693 2003 $UC_{124}$ | 16.0 | X | 121.82396 | 341.34889 | 282.63902 | 13.02649 | 0.0385567 | 0.23979631 | 2.5659078 | 20 | 12 3.2 | 19.7 |
| 201694 2003 $UA_{128}$ | 15.8 | X | 33.10047 | 50.20723 | 269.72581 | 6.59028 | 0.0755865 | 0.23236746 | 2.6203090 | 20 | 10 27.6 | 19.3 |
| 201695 2003 $UQ_{131}$ | 15.8 | X | 192.00283 | 188.74164 | 281.50889 | 8.99542 | 0.1948483 | 0.21738715 | 2.7393454 | 20 | 7 29.1 | 20.5 |
| 201696 2003 $UT_{131}$ | 15.3 | X | 65.30176 | 61.16583 | 14.10979 | 9.57971 | 0.1205647 | 0.19309841 | 2.9644918 | 20 | 1 31.1 | 19.1 |
| 201697 2003 $UX_{131}$ | 15.2 | X | 80.16802 | 134.53082 | 268.53152 | 7.54218 | 0.0911657 | 0.19126630 | 2.9833926 | 20 | 1 4.7 | 19.0 |
| 201698 2003 $UX_{132}$ | 16.3 | X | 144.89642 | 48.07770 | 21.85110 | 7.88641 | 0.3104916 | 0.20418489 | 2.8561893 | 20 | 5 6.3 | 21.4 |
| 201699 2003 $UH_{133}$ | 15.7 | X | 331.18641 | 93.31956 | 342.76509 | 14.07743 | 0.2055013 | 0.18009807 | 3.1054892 | 20 | 12 20.1 | 19.2 |
| 201700 2003 $UJ_{135}$ | 15.7 | X | 36.41720 | 13.44890 | 6.83838 | 12.02426 | 0.1011262 | 0.18169376 | 3.0872801 | 20 | — | — |
| 201701 2003 $UD_{139}$ | 15.8 | X | 194.42830 | 264.95778 | 101.00833 | 7.29038 | 0.1138998 | 0.20871835 | 2.8146796 | 20 | 3 30.9 | 20.3 |
| 201702 2003 $UW_{140}$ | 14.9 | X | 299.62273 | 278.38414 | 174.08915 | 25.30940 | 0.2386688 | 0.17604470 | 3.1529766 | 20 | 11 6.3 | 18.8 |
| 201703 2003 $UY_{140}$ | 15.4 | X | 177.10420 | 182.39965 | 260.83918 | 8.52196 | 0.1344828 | 0.21279511 | 2.7786144 | 20 | 6 14.2 | 19.7 |
| 201704 2003 $UK_{150}$ | 15.5 | X | 78.54272 | 208.56740 | 140.29814 | 10.56946 | 0.1065231 | 0.24159710 | 2.5531416 | 20 | — | — |
| 201705 2003 $UE_{159}$ | 16.5 | X | 179.24985 | 110.82650 | 84.63395 | 2.01776 | 0.0758965 | 0.23162451 | 2.6259092 | 20 | 11 10.3 | 20.2 |
| 201706 2003 $UO_{162}$ | 15.8 | X | 221.11420 | 321.19870 | 115.81272 | 4.41468 | 0.1526549 | 0.21923986 | 2.7238909 | 20 | 7 19.2 | 20.1 |
| 201707 2003 $UC_{163}$ | 15.1 | X | 350.18449 | 271.12719 | 201.47385 | 13.56304 | 0.3081383 | 0.18379615 | 3.0636920 | 20 | — | — |
| 201708 2003 $UJ_{163}$ | 15.9 | X | 102.20278 | 326.99198 | 86.20521 | 5.90679 | 0.1069910 | 0.19749664 | 2.9203142 | 20 | 2 18.8 | 20.0 |
| 201709 2003 $UC_{164}$ | 15.8 | X | 254.16232 | 315.16796 | 112.56379 | 4.97348 | 0.0735930 | 0.22459751 | 2.6803989 | 20 | 8 27.6 | 19.4 |
| 201710 2003 $UO_{167}$ | 16.0 | X | 223.55947 | 58.30874 | 308.36784 | 6.09731 | 0.1627624 | 0.21258215 | 2.7804698 | 20 | 4 20.0 | 20.7 |
| 201711 2003 $UF_{168}$ | 15.4 | X | 13.84256 | 96.11068 | 342.72967 | 4.38239 | 0.1604776 | 0.18566411 | 3.0431083 | 20 | — | — |
| 201712 2003 $UQ_{172}$ | 15.7 | X | 160.53776 | 246.50478 | 154.36817 | 7.55804 | 0.0709584 | 0.20531850 | 2.8456665 | 20 | 4 5.2 | 19.9 |
| 201713 2003 $UA_{176}$ | 16.4 | X | 272.01000 | 311.12465 | 10.21324 | 0.70979 | 0.0749292 | 0.21309726 | 2.7759873 | 20 | 4 27.8 | 20.2 |
| 201714 2003 $UA_{179}$ | 15.7 | X | 25.29401 | 21.92424 | 48.31389 | 3.97884 | 0.1285632 | 0.18788751 | 3.0190532 | 20 | — | — |
| 201715 2003 $UM_{181}$ | 15.7 | X | 198.52691 | 229.94663 | 159.08550 | 4.27738 | 0.1090727 | 0.20971915 | 2.8057178 | 20 | 4 30.1 | 20.1 |
| 201716 2003 $UN_{181}$ | 15.6 | X | 104.62491 | 72.17737 | 349.08707 | 6.62604 | 0.0693615 | 0.19942549 | 2.9014534 | 20 | 2 24.8 | 19.5 |
| 201717 2003 $UM_{183}$ | 16.0 | X | 161.62321 | 6.67590 | 12.68474 | 1.89544 | 0.0830463 | 0.20293103 | 2.8679423 | 20 | 3 10.1 | 20.3 |
| 201718 2003 $UL_{186}$ | 16.1 | X | 199.79048 | 84.36425 | 315.07306 | 3.38871 | 0.0764280 | 0.21187030 | 2.7866943 | 20 | 5 12.9 | 20.2 |
| 201719 2003 $UD_{189}$ | 15.7 | X | 285.63726 | 83.86032 | 277.51943 | 3.08028 | 0.1186688 | 0.22067418 | 2.7120750 | 20 | 7 2.8 | 19.0 |
| 201720 2003 $UO_{189}$ | 15.9 | X | 20.12924 | 355.88288 | 355.20763 | 4.05840 | 0.1241132 | 0.17550150 | 3.1594792 | 20 | 11 13.6 | 20.0 |
| 201721 2003 $UP_{189}$ | 15.8 | X | 289.82104 | 69.49587 | 242.29967 | 6.54231 | 0.1015428 | 0.21389036 | 2.7691208 | 20 | 5 4.0 | 19.4 |
| 201722 2003 $UK_{190}$ | 16.4 | X | 194.58817 | 281.54523 | 74.82005 | 3.84568 | 0.0751616 | 0.20430001 | 2.8551162 | 20 | 3 17.9 | 20.7 |
| 201723 2003 $UG_{192}$ | 15.9 | X | 252.65808 | 166.99544 | 232.93071 | 4.04617 | 0.1185107 | 0.21977615 | 2.7194579 | 20 | 7 9.9 | 19.8 |
| 201724 2003 $UM_{193}$ | 15.2 | X | 53.12722 | 104.73466 | 210.51652 | 4.76338 | 0.1304996 | 0.17860735 | 3.1227448 | 20 | 11 16.2 | 19.6 |
| 201725 2003 $UE_{194}$ | 15.9 | X | 169.62899 | 38.75030 | 50.46810 | 5.41039 | 0.1047830 | 0.21511439 | 2.7586064 | 20 | 6 13.8 | 20.1 |
| 201726 2003 $UH_{195}$ | 15.6 | X | 177.72030 | 139.55782 | 246.17862 | 5.34232 | 0.0834643 | 0.20450185 | 2.8532373 | 20 | 4 1.3 | 19.9 |
| 201727 2003 $UB_{196}$ | 15.8 | X | 169.18504 | 324.53840 | 87.02675 | 4.34932 | 0.1204075 | 0.20686725 | 2.8314456 | 20 | 4 29.1 | 20.3 |
| 201728 2003 $UM_{199}$ | 15.6 | X | 79.56267 | 296.79858 | 14.64260 | 2.04219 | 0.0804628 | 0.18032769 | 3.1028523 | 20 | 12 4.7 | 20.2 |
| 201729 2003 $UO_{219}$ | 16.1 | X | 3.54330 | 36.37816 | 353.86743 | 4.43398 | 0.1423216 | 0.17864373 | 3.1223209 | 20 | 12 11.8 | 20.0 |
| 201730 2003 $US_{224}$ | 15.9 | X | 237.71477 | 42.48453 | 334.15116 | 3.33984 | 0.1843625 | 0.21527420 | 2.7572410 | 20 | 5 15.9 | 20.3 |
| 201731 2003 $UY_{225}$ | 16.2 | X | 294.77463 | 348.00676 | 318.86101 | 2.74771 | 0.0801347 | 0.21343329 | 2.7730728 | 20 | 5 7.2 | 19.9 |
| 201732 2003 $UG_{228}$ | 15.6 | X | 276.59101 | 113.88491 | 193.27784 | 8.49798 | 0.1312112 | 0.21068671 | 2.7971212 | 20 | 4 7.8 | 19.6 |
| 201733 2003 $UQ_{248}$ | 16.3 | X | 294.72084 | 263.19854 | 48.54051 | 5.78511 | 0.1011328 | 0.21560533 | 2.7544172 | 20 | 5 11.4 | 19.6 |
| 201734 2003 $UQ_{250}$ | 15.5 | X | 345.41817 | 190.74741 | 25.48029 | 10.79419 | 0.0777907 | 0.20316910 | 2.8657014 | 20 | 3 26.3 | 19.0 |
| 201735 2003 $UY_{251}$ | 16.3 | X | 248.73623 | 329.16577 | 68.59459 | 3.17767 | 0.2077274 | 0.21998806 | 2.7177113 | 20 | 6 21.7 | 20.3 |
| 201736 2003 $UZ_{254}$ | 15.7 | X | 84.92933 | 126.68055 | 40.11430 | 6.29827 | 0.0263280 | 0.21402919 | 2.7679233 | 20 | 6 5.9 | 19.5 |
| 201737 2003 $UF_{258}$ | 15.3 | X | 320.82422 | 230.35797 | 32.77451 | 9.30813 | 0.2322085 | 0.21330596 | 2.7741763 | 20 | 3 28.1 | 18.6 |
| 201738 2003 $UT_{262}$ | 15.0 | X | 13.27650 | 307.44638 | 96.30795 | 12.32396 | 0.0965864 | 0.18131124 | 3.0916209 | 20 | — | — |
| 201739 2003 $UQ_{263}$ | 15.9 | X | 292.85770 | 255.99987 | 129.38800 | 5.16450 | 0.0460963 | 0.22414210 | 2.6840283 | 20 | 8 28.1 | 19.4 |
| 201740 2003 $UQ_{264}$ | 15.0 | X | 98.23569 | 288.62022 | 88.28022 | 10.10882 | 0.1209564 | 0.19052330 | 2.9911440 | 20 | 1 1.2 | 19.1 |
| 201741 2003 $UR_{264}$ | 16.3 | X | 85.58148 | 200.57961 | 137.35858 | 5.67683 | 0.2016374 | 0.24344313 | 2.5402183 | 20 | — | — |
| 201742 2003 $UJ_{265}$ | 16.0 | X | 290.02817 | 242.38694 | 117.14784 | 6.06723 | 0.1796923 | 0.22037754 | 2.7145082 | 20 | 6 26.9 | 19.4 |
| 201743 2003 $UZ_{265}$ | 16.2 | X | 273.71832 | 146.25399 | 206.67908 | 3.28567 | 0.0843525 | 0.21750364 | 2.7383673 | 20 | 6 10.0 | 19.8 |
| 201744 2003 $UB_{266}$ | 15.6 | X | 0.46048 | 229.42793 | 35.65099 | 9.70159 | 0.1335385 | 0.21785960 | 2.7353837 | 20 | 6 23.5 | 18.6 |
| 201745 2003 $UE_{268}$ | 15.8 | X | 307.18891 | 251.15678 | 37.43453 | 4.98165 | 0.0349522 | 0.21156955 | 2.7893345 | 20 | 5 7.4 | 19.5 |
| 201746 2003 $UN_{276}$ | 15.2 | X | 58.56004 | 227.11118 | 230.81814 | 6.79264 | 0.1496651 | 0.19353196 | 2.9600628 | 20 | 2 15.5 | 18.9 |
| 201747 2003 $UN_{280}$ | 15.5 | X | 173.75901 | 14.78124 | 82.49745 | 13.76398 | 0.1009593 | 0.21215107 | 2.7842351 | 20 | 6 28.4 | 19.8 |
| 201748 2003 $UT_{293}$ | 15.3 | X | 331.98743 | 263.48104 | 166.67414 | 25.16223 | 0.2747818 | 0.17769210 | 3.1334587 | 20 | 12 17.4 | 18.8 |
| 201749 2003 $UH_{297}$ | 16.2 | X | 302.71358 | 21.94430 | 255.17717 | 3.32513 | 0.1717904 | 0.21248321 | 2.7813329 | 20 | 3 25.2 | 19.8 |
| 201750 2003 $UY_{306}$ | 16.2 | X | 297.37370 | 206.41559 | 310.27472 | 4.00217 | 0.0595566 | 0.18874553 | 3.0098968 | 20 | — | — |
| 201751 Steinhardt | 16.1 | X | 189.93870 | 279.64102 | 100.22130 | 2.75915 | 0.0822678 | 0.20992638 | 2.8038710 | 20 | 4 10.0 | 20.4 |
| 201752 2003 $UJ_{323}$ | 16.6 | X | 236.38313 | 111.42581 | 17.91667 | 1.99361 | 0.0351991 | 0.23308726 | 2.6149117 | 20 | 10 30.2 | 19.9 |
| 201753 2003 $UM_{340}$ | 15.9 | X | 288.17647 | 187.04405 | 24.02538 | 2.00534 | 0.0449669 | 0.19682362 | 2.9269676 | 20 | 1 7.1 | 20.0 |
| 201754 2003 $UN_{359}$ | 16.7 | X | 29.11786 | 143.50608 | 147.18618 | 1.84975 | 0.0910133 | 0.22725370 | 2.6594719 | 20 | 9 16.5 | 20.0 |
| 201755 2003 $UO_{371}$ | 15.9 | X | 136.03028 | 141.70442 | 241.23979 | 11.51994 | 0.0966824 | 0.20609578 | 2.8385071 | 20 | 2 11.5 | 20.3 |
| 201756 2003 $VR_{4}$ | 16.2 | X | 314.94740 | 338.50308 | 324.26267 | 1.74917 | 0.0788347 | 0.21411214 | 2.7672083 | 20 | 6 1.2 | 19.5 |
| 201757 2003 $WZ_{11}$ | 15.5 | X | 285.41598 | 81.82507 | 280.76988 | 11.97647 | 0.1798946 | 0.21893293 | 2.7264361 | 20 | 6 24.4 | 18.9 |
| 201758 2003 $WC_{26}$ | 15.9 | X | 356.17527 | 189.00228 | 86.58927 | 3.55157 | 0.0530623 | 0.21894574 | 2.7263298 | 20 | 6 30.4 | 19.0 |
| 201759 2003 $WG_{33}$ | 15.2 | X | 98.61433 | 307.61428 | 47.72958 | 10.80305 | 0.1295655 | 0.18714330 | 3.0270519 | 20 | — | — |
| 201760 2003 $WJ_{36}$ | 15.8 | X | 28.57773 | 68.40176 | 9.61803 | 2.89279 | 0.1702169 | 0.18575706 | 3.0420930 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201761 2003 $WX_{36}$ | 15.9 | X | 96.08981 | 343.84732 | 33.03886 | 12.55672 | 0.1844274 | 0.19068775 | 2.9894240 | 20 | 1 9.1 | 20.1 |
| 201762 2003 $WN_{37}$ | 15.0 | X | 120.64880 | 28.20515 | 282.23072 | 9.37729 | 0.0929366 | 0.18256998 | 3.0773942 | 20 | — | — |
| 201763 2003 $WX_{37}$ | 15.4 | X | 334.78550 | 39.12202 | 18.07531 | 9.82717 | 0.1365783 | 0.17480038 | 3.1679219 | 20 | 11 25.4 | 19.3 |
| 201764 2003 $WV_{38}$ | 15.0 | X | 50.08964 | 0.52687 | 52.04139 | 15.41411 | 0.3077977 | 0.18528975 | 3.0472058 | 20 | — | — |
| 201765 2003 $WA_{43}$ | 15.3 | X | 204.55227 | 297.36971 | 104.75861 | 10.07812 | 0.1718516 | 0.21119262 | 2.7926525 | 20 | 5 21.2 | 19.9 |
| 201766 2003 $WE_{45}$ | 15.3 | X | 81.65358 | 344.98117 | 47.05106 | 11.90172 | 0.0729505 | 0.18807617 | 3.0170339 | 20 | — | — |
| 201767 2003 $WT_{45}$ | 15.9 | X | 260.61323 | 317.40919 | 130.46488 | 14.19509 | 0.1383481 | 0.22546337 | 2.6735320 | 20 | 9 26.0 | 19.6 |
| 201768 2003 $WQ_{67}$ | 16.0 | X | 72.47963 | 45.35481 | 59.12133 | 2.90159 | 0.0868808 | 0.19675308 | 2.9276671 | 20 | 3 11.5 | 19.9 |
| 201769 2003 $WE_{71}$ | 15.5 | X | 50.93756 | 14.76796 | 323.52248 | 13.14163 | 0.1110493 | 0.23619265 | 2.5919411 | 20 | 12 22.4 | 19.3 |
| 201770 2003 $WL_{81}$ | 15.1 | X | 350.70564 | 239.13557 | 267.31238 | 9.13190 | 0.0493524 | 0.19044867 | 2.9919253 | 20 | 1 6.5 | 19.1 |
| 201771 2003 $WS_{82}$ | 15.4 | X | 101.03238 | 249.17310 | 144.49793 | 15.75817 | 0.1773916 | 0.19203076 | 2.9754696 | 20 | 2 1.3 | 19.5 |
| 201772 2003 $WP_{83}$ | 15.9 | X | 51.68182 | 3.39888 | 1.27429 | 6.82069 | 0.0986185 | 0.18340673 | 3.0680272 | 20 | — | — |
| 201773 2003 $WO_{85}$ | 15.7 | X | 151.52246 | 239.66620 | 259.50418 | 9.07735 | 0.1469088 | 0.21450174 | 2.7638565 | 20 | 7 27.9 | 20.3 |
| 201774 2003 $WV_{85}$ | 14.7 | X | 33.46814 | 294.13476 | 55.72819 | 12.87436 | 0.1852441 | 0.17343537 | 3.1845222 | 20 | 12 8.5 | 19.0 |
| 201775 2003 $WA_{93}$ | 16.1 | X | 184.20315 | 96.76224 | 339.65443 | 3.58537 | 0.0816604 | 0.21170755 | 2.7881223 | 20 | 6 12.9 | 20.3 |
| 201776 2003 $WQ_{94}$ | 15.8 | X | 240.42978 | 339.16456 | 7.67416 | 3.59231 | 0.1052204 | 0.20997917 | 2.8034011 | 20 | 4 19.1 | 20.1 |
| 201777 Deronda | 15.4 | X | 47.65015 | 279.85987 | 86.51660 | 20.57287 | 0.2986205 | 0.18007054 | 3.1058056 | 20 | — | — |
| 201778 2003 $WL_{103}$ | 15.2 | X | 73.48804 | 290.75472 | 56.81925 | 6.98906 | 0.1888946 | 0.18126235 | 3.0921768 | 20 | — | — |
| 201779 2003 $WD_{104}$ | 15.1 | X | 294.91376 | 124.49075 | 73.39529 | 11.10363 | 0.0412688 | 0.18882306 | 3.0090728 | 20 | — | — |
| 201780 2003 $WJ_{105}$ | 15.9 | X | 190.89511 | 351.61713 | 38.18963 | 2.38793 | 0.1231791 | 0.20597198 | 2.8396444 | 20 | 4 22.1 | 20.2 |
| 201781 2003 $WC_{107}$ | 15.3 | X | 40.10134 | 349.99879 | 109.46035 | 4.42773 | 0.1631958 | 0.18948335 | 3.0020783 | 20 | 1 22.2 | 18.4 |
| 201782 2003 $WR_{107}$ | 17.1 | X | 143.72445 | 141.82895 | 291.06034 | 16.41901 | 0.1410649 | 0.38074201 | 1.8853074 | 20 | 4 14.1 | 19.8 |
| 201783 2003 $WU_{109}$ | 15.7 | X | 158.34102 | 119.71148 | 326.56411 | 2.44338 | 0.0353642 | 0.20989293 | 2.8041690 | 20 | 5 25.6 | 19.7 |
| 201784 2003 $WS_{113}$ | 15.2 | X | 300.81338 | 62.02207 | 29.25125 | 11.31533 | 0.0587285 | 0.17483193 | 3.1675408 | 20 | 11 19.0 | 19.4 |
| 201785 2003 $WF_{124}$ | 15.2 | X | 314.35503 | 78.31546 | 63.99896 | 19.65710 | 0.0957279 | 0.17984702 | 3.1083784 | 20 | — | — |
| 201786 2003 $WT_{126}$ | 15.0 | X | 13.45619 | 9.94331 | 67.15530 | 17.31924 | 0.0489706 | 0.17990972 | 3.1076561 | 20 | — | — |
| 201787 2003 $WV_{131}$ | 16.0 | X | 117.47459 | 195.76079 | 124.77983 | 1.47711 | 0.1215726 | 0.24332051 | 2.5410716 | 20 | — | — |
| 201788 2003 $WF_{134}$ | 15.4 | X | 88.70328 | 312.31847 | 67.90544 | 10.49664 | 0.1406659 | 0.18822562 | 3.0154368 | 20 | — | — |
| 201789 2003 $WK_{135}$ | 15.1 | X | 333.57239 | 45.43463 | 75.80931 | 11.55920 | 0.0875163 | 0.18214505 | 3.0821786 | 20 | — | — |
| 201790 2003 $WO_{135}$ | 15.4 | X | 52.30151 | 301.18947 | 105.17477 | 3.21695 | 0.1200051 | 0.18496574 | 3.0507634 | 20 | — | — |
| 201791 2003 $WY_{137}$ | 15.8 | X | 165.77435 | 342.18511 | 73.07687 | 2.98868 | 0.1573635 | 0.20455372 | 2.8527549 | 20 | 4 30.9 | 20.5 |
| 201792 2003 $WF_{139}$ | 15.3 | X | 186.19491 | 332.48432 | 67.81695 | 12.94025 | 0.0502761 | 0.20443702 | 2.8538404 | 20 | 5 3.5 | 19.5 |
| 201793 2003 $WQ_{142}$ | 14.6 | X | 52.88597 | 290.10377 | 95.12893 | 15.51809 | 0.1651486 | 0.17971617 | 3.1098870 | 20 | — | — |
| 201794 2003 $WA_{145}$ | 15.5 | X | 63.00078 | 315.31595 | 65.43885 | 12.93143 | 0.0416074 | 0.18365513 | 3.0652602 | 20 | — | — |
| 201795 2003 $WE_{145}$ | 16.1 | X | 226.59597 | 228.60990 | 242.16330 | 1.43599 | 0.0362392 | 0.22445213 | 2.6815562 | 20 | 9 21.1 | 19.7 |
| 201796 2003 $WY_{150}$ | 15.5 | X | 55.92264 | 300.97882 | 113.56976 | 5.66602 | 0.2096912 | 0.18821878 | 3.0155098 | 20 | — | — |
| 201797 2003 $WS_{154}$ | 16.4 | X | 164.36076 | 69.77491 | 46.63512 | 1.98496 | 0.2277530 | 0.21152073 | 2.7897637 | 20 | 7 15.1 | 21.2 |
| 201798 2003 $WJ_{161}$ | 15.8 | X | 121.15449 | 119.05509 | 72.73417 | 9.59382 | 0.2249162 | 0.21591359 | 2.7517949 | 20 | 9 15.1 | 20.6 |
| 201799 2003 $WL_{168}$ | 15.4 | X | 225.29404 | 296.86351 | 106.86344 | 10.94827 | 0.0897117 | 0.21512599 | 2.7585072 | 20 | 6 16.9 | 19.5 |
| 201800 2003 $WM_{189}$ | 15.2 | X | 125.27731 | 184.81262 | 149.01220 | 18.36344 | 0.2385936 | 0.19099046 | 2.9862645 | 20 | — | — |
| 201801 2003 $WM_{192}$ | 15.6 | X | 63.85601 | 10.52182 | 45.48774 | 10.99020 | 0.1481407 | 0.18755906 | 3.0225769 | 20 | 1 5.9 | 19.4 |
| 201802 2003 $XL_{3}$ | 15.6 | X | 140.37152 | 35.15814 | 101.57244 | 9.03086 | 0.1631952 | 0.20982735 | 2.8047532 | 20 | 7 17.6 | 20.1 |
| 201803 2003 $XX_{3}$ | 15.9 | X | 218.68105 | 355.87833 | 80.15897 | 6.06512 | 0.1022685 | 0.21668797 | 2.7452350 | 20 | 7 20.6 | 19.9 |
| 201804 2003 $XL_{6}$ | 14.9 | X | 271.79455 | 154.65491 | 356.26867 | 8.77369 | 0.1319703 | 0.17539500 | 3.1607580 | 20 | 12 15.6 | 19.2 |
| 201805 2003 $XM_{13}$ | 15.6 | X | 70.15222 | 162.74107 | 214.37514 | 11.44641 | 0.0654421 | 0.18298478 | 3.0727418 | 20 | — | — |
| 201806 2003 $XL_{14}$ | 17.0 | X | 3.34160 | 252.15227 | 299.56282 | 19.11669 | 0.0570892 | 0.37651369 | 1.8993961 | 20 | 2 15.8 | 18.8 |
| 201807 2003 $XC_{19}$ | 15.4 | X | 110.90313 | 68.45738 | 85.48253 | 9.47014 | 0.0865627 | 0.21008002 | 2.8025038 | 20 | 7 1.5 | 19.3 |
| 201808 2003 $XX_{19}$ | 16.0 | X | 252.93963 | 115.70841 | 307.35538 | 10.87885 | 0.1384998 | 0.21704456 | 2.7422273 | 20 | 8 6.9 | 19.9 |
| 201809 2003 $XK_{20}$ | 15.2 | X | 343.72969 | 141.21271 | 286.54742 | 25.83610 | 0.1391127 | 0.17341487 | 3.1847731 | 20 | 12 27.6 | 19.0 |
| 201810 2003 $XL_{26}$ | 15.9 | X | 238.03457 | 254.97329 | 116.43366 | 8.80181 | 0.1651933 | 0.21124872 | 2.7921580 | 20 | 5 15.4 | 20.3 |
| 201811 2003 $XT_{30}$ | 16.2 | X | 38.76927 | 297.95285 | 66.02414 | 5.53749 | 0.1449414 | 0.17786071 | 3.1314780 | 20 | 12 28.6 | 20.5 |
| 201812 2003 $YY_{1}$ | 15.8 | X | 179.33368 | 287.90495 | 101.64895 | 11.60193 | 0.1478227 | 0.20097636 | 2.8865078 | 20 | 4 16.9 | 20.7 |
| 201813 2003 $YN_{5}$ | 14.8 | X | 306.73805 | 47.77881 | 93.57796 | 18.67931 | 0.1929875 | 0.17461806 | 3.1701266 | 20 | — | — |
| 201814 2003 $YN_{12}$ | 15.4 | X | 69.88268 | 329.86881 | 49.78108 | 13.27777 | 0.1750066 | 0.18236106 | 3.0797442 | 20 | — | — |
| 201815 2003 $YH_{15}$ | 15.4 | X | 40.28540 | 25.78456 | 66.88517 | 12.37063 | 0.0981778 | 0.18470015 | 3.0536872 | 20 | 1 11.9 | 19.3 |
| 201816 2003 $YO_{15}$ | 15.2 | X | 116.64111 | 103.60412 | 69.09591 | 14.41713 | 0.1315361 | 0.21189797 | 2.7864517 | 20 | 8 10.7 | 19.7 |
| 201817 2003 $YG_{17}$ | 15.2 | X | 342.50570 | 9.92471 | 100.62996 | 19.11636 | 0.1949932 | 0.17717354 | 3.1395698 | 20 | — | — |
| 201818 2003 $YJ_{19}$ | 16.0 | X | 142.98567 | 17.64152 | 33.27971 | 2.30208 | 0.0705159 | 0.20000536 | 2.8958427 | 20 | 3 27.9 | 20.2 |
| 201819 2003 $YT_{20}$ | 15.6 | X | 345.25872 | 139.84533 | 312.89944 | 4.59877 | 0.0872801 | 0.17516527 | 3.1635210 | 20 | — | — |
| 201820 2003 $YO_{25}$ | 14.8 | X | 94.30767 | 319.02431 | 91.13558 | 17.45438 | 0.0827790 | 0.18860197 | 3.0114239 | 20 | 2 3.3 | 19.1 |
| 201821 2003 $YR_{25}$ | 15.3 | X | 146.93562 | 230.22751 | 299.42500 | 6.30987 | 0.2085694 | 0.21236160 | 2.7823946 | 20 | 9 1.1 | 20.1 |
| 201822 2003 $YW_{25}$ | 15.6 | X | 343.73662 | 47.09751 | 77.55347 | 6.07045 | 0.2245038 | 0.17953387 | 3.1119918 | 20 | — | — |
| 201823 2003 $YX_{26}$ | 14.9 | X | 309.87580 | 25.23847 | 102.47399 | 11.70974 | 0.1574092 | 0.17399900 | 3.1776414 | 20 | — | — |
| 201824 2003 $YH_{29}$ | 15.1 | X | 305.34192 | 6.04490 | 285.58339 | 13.49181 | 0.0852388 | 0.20221319 | 2.8747256 | 20 | 4 27.7 | 19.2 |
| 201825 2003 $YN_{29}$ | 14.8 | X | 242.89247 | 232.54110 | 106.04500 | 27.92469 | 0.2335715 | 0.20348696 | 2.8627164 | 20 | 4 15.7 | 20.1 |
| 201826 2003 $YT_{29}$ | 15.1 | X | 263.50574 | 87.20810 | 108.65694 | 15.41321 | 0.0786981 | 0.17709518 | 3.1404959 | 20 | — | — |
| 201827 2003 $YG_{30}$ | 15.3 | X | 38.25730 | 207.12134 | 282.65599 | 6.42667 | 0.1816587 | 0.19179877 | 2.9778684 | 20 | 2 25.9 | 18.6 |
| 201828 2003 $YP_{30}$ | 14.9 | X | 63.37962 | 281.79450 | 78.86355 | 6.40293 | 0.1673758 | 0.17987173 | 3.1080938 | 20 | — | — |
| 201829 2003 $YP_{32}$ | 15.4 | X | 326.22717 | 268.71862 | 282.66243 | 9.52518 | 0.2145915 | 0.18468751 | 3.0538265 | 20 | 1 8.1 | 19.3 |
| 201830 2003 $YX_{49}$ | 15.5 | X | 89.99517 | 326.78706 | 84.00573 | 2.93005 | 0.0588217 | 0.18975236 | 2.9992403 | 20 | 1 24.1 | 19.5 |
| 201831 2003 $YK_{53}$ | 15.8 | X | 88.57801 | 356.98753 | 89.14158 | 3.14976 | 0.0746553 | 0.19642361 | 2.9309400 | 20 | 3 8.3 | 19.7 |
| 201832 2003 $YD_{54}$ | 15.7 | X | 302.38264 | 308.80361 | 84.62970 | 7.12297 | 0.0805655 | 0.22498386 | 2.6773294 | 20 | 9 22.1 | 19.0 |
| 201833 2003 $YQ_{57}$ | 15.9 | X | 239.37068 | 290.63290 | 132.26917 | 4.18258 | 0.1850980 | 0.21681906 | 2.7441283 | 20 | 7 16.5 | 20.1 |
| 201834 2003 $YS_{57}$ | 15.5 | X | 220.62391 | 156.64658 | 262.91804 | 6.64018 | 0.1568440 | 0.21271093 | 2.7793475 | 20 | 6 25.6 | 19.8 |
| 201835 2003 $YB_{59}$ | 15.6 | X | 348.98305 | 276.78010 | 198.31998 | 1.55101 | 0.1721840 | 0.18175930 | 3.0865380 | 20 | — | — |
| 201836 2003 $YA_{61}$ | 15.1 | X | 348.74941 | 344.51235 | 105.95422 | 11.23493 | 0.0954861 | 0.17706901 | 3.1408052 | 20 | — | — |
| 201837 2003 $YE_{61}$ | 15.2 | X | 296.81278 | 215.66360 | 265.64720 | 2.16792 | 0.1574452 | 0.17211078 | 3.2008403 | 20 | 12 13.1 | 19.0 |
| 201838 2003 $YM_{66}$ | 14.5 | X | 5.82964 | 169.24081 | 269.22320 | 19.02839 | 0.0800542 | 0.17713498 | 3.1400254 | 20 | — | — |
| 201839 2003 $YH_{72}$ | 15.8 | X | 54.21584 | 142.93261 | 38.29951 | 3.26864 | 0.0876322 | 0.20323746 | 2.8650589 | 20 | 5 22.9 | 19.3 |
| 201840 2003 $YW_{74}$ | 15.4 | X | 10.57565 | 94.49109 | 326.89804 | 4.22594 | 0.1480364 | 0.17890226 | 3.1193121 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201841 2003 $YV_{78}$ | 15.2 | X | 38.82108 | 353.00142 | 75.44928 | 8.18067 | 0.1983971 | 0.18352288 | 3.0667326 | 20 | — | — |
| 201842 2003 $YS_{80}$ | 15.3 | X | 100.26136 | 188.73483 | 312.61477 | 7.47180 | 0.1466664 | 0.20003449 | 2.8955615 | 20 | 6 9.5 | 19.7 |
| 201843 2003 $YK_{81}$ | 14.9 | X | 222.43546 | 278.05740 | 284.65265 | 13.33941 | 0.1018529 | 0.17231615 | 3.1982965 | 20 | 12 21.4 | 19.6 |
| 201844 2003 $YW_{82}$ | 15.0 | X | 145.96976 | 204.15170 | 92.86101 | 17.25160 | 0.0561386 | 0.17626845 | 3.1503078 | 20 | — | — |
| 201845 2003 $YB_{85}$ | 15.6 | X | 41.60440 | 195.68609 | 230.33043 | 7.90056 | 0.1988027 | 0.18509285 | 3.0493665 | 20 | — | — |
| 201846 2003 $YM_{87}$ | 15.1 | X | 30.02691 | 131.54863 | 302.81540 | 8.27945 | 0.0844983 | 0.17941901 | 3.1133199 | 20 | — | — |
| 201847 2003 $YB_{88}$ | 16.1 | X | 244.27586 | 284.81936 | 122.92774 | 5.91348 | 0.1362258 | 0.21544221 | 2.7558073 | 20 | 7 8.1 | 20.2 |
| 201848 2003 $YR_{90}$ | 15.5 | X | 62.48650 | 335.76883 | 99.23102 | 11.30968 | 0.0945185 | 0.19106509 | 2.9854868 | 20 | 1 21.1 | 19.3 |
| 201849 2003 $YF_{91}$ | 15.4 | X | 29.10523 | 45.21177 | 66.41340 | 11.52200 | 0.0387442 | 0.18898192 | 3.0073862 | 20 | 1 17.7 | 19.5 |
| 201850 2003 $YJ_{92}$ | 15.7 | X | 295.98501 | 301.52436 | 139.40858 | 11.70039 | 0.0739402 | 0.23049193 | 2.6345042 | 20 | 11 17.5 | 19.1 |
| 201851 2003 $YJ_{98}$ | 15.9 | X | 15.54311 | 351.16307 | 119.78931 | 4.22540 | 0.1640875 | 0.18405400 | 3.0608300 | 20 | — | — |
| 201852 2003 $YV_{98}$ | 14.4 | X | 11.35514 | 259.76426 | 103.81611 | 20.06839 | 0.1308452 | 0.16873258 | 3.2434217 | 20 | 11 22.9 | 18.8 |
| 201853 2003 $YJ_{105}$ | 15.0 | X | 290.18217 | 107.49811 | 77.43829 | 17.68925 | 0.1375536 | 0.18093549 | 3.0958997 | 20 | — | — |
| 201854 2003 $YU_{106}$ | 14.9 | X | 350.66603 | 239.47872 | 285.55428 | 12.32792 | 0.1107242 | 0.18425090 | 3.0586490 | 20 | 1 23.8 | 18.7 |
| 201855 2003 $YW_{116}$ | 15.7 | X | 350.36329 | 116.98919 | 10.12742 | 0.42334 | 0.1471326 | 0.18102501 | 3.0948790 | 20 | — | — |
| 201856 2003 $YF_{118}$ | 16.6 | X | 283.74424 | 292.04490 | 308.51209 | 17.61690 | 0.0745242 | 0.36928970 | 1.9240865 | 20 | 1 7.9 | 18.8 |
| 201857 2003 $YS_{126}$ | 14.9 | X | 75.88435 | 310.43222 | 50.94939 | 11.41519 | 0.3121741 | 0.18302504 | 3.0722911 | 20 | — | — |
| 201858 2003 $YW_{129}$ | 14.7 | X | 93.39575 | 246.60901 | 88.32592 | 16.18840 | 0.0938752 | 0.17163238 | 3.2067855 | 20 | — | — |
| 201859 2003 $YJ_{130}$ | 15.6 | X | 239.52167 | 81.83548 | 294.82380 | 11.81983 | 0.2217811 | 0.21564705 | 2.7540619 | 20 | 5 12.8 | 20.2 |
| 201860 2003 $YP_{130}$ | 15.2 | X | 340.07634 | 173.29876 | 305.33479 | 9.55693 | 0.0092774 | 0.18040450 | 3.1019715 | 20 | — | — |
| 201861 2003 $YD_{132}$ | 15.1 | X | 261.53616 | 140.34386 | 38.99830 | 9.96226 | 0.0434630 | 0.17471339 | 3.1689734 | 20 | — | — |
| 201862 2003 $YR_{133}$ | 14.8 | X | 270.63374 | 118.40874 | 82.70903 | 17.65934 | 0.0588094 | 0.17847309 | 3.1243107 | 20 | — | — |
| 201863 2003 $YB_{134}$ | 15.5 | X | 30.09627 | 52.49188 | 6.14558 | 8.92883 | 0.1612411 | 0.17898154 | 3.1183909 | 20 | — | — |
| 201864 2003 $YY_{140}$ | 15.0 | X | 322.48353 | 124.73544 | 35.51954 | 11.52302 | 0.1722978 | 0.18176465 | 3.0864774 | 20 | — | — |
| 201865 2003 $YU_{143}$ | 15.0 | X | 53.09072 | 57.11934 | 329.25995 | 12.43854 | 0.1247678 | 0.17916386 | 3.1162750 | 20 | — | — |
| 201866 2003 $YV_{145}$ | 15.1 | X | 297.73372 | 61.40114 | 84.69929 | 11.11610 | 0.0393401 | 0.17597902 | 3.1537611 | 20 | — | — |
| 201867 2003 $YS_{146}$ | 14.9 | X | 22.79345 | 78.50416 | 83.99654 | 12.56938 | 0.1919222 | 0.18585192 | 3.0410579 | 20 | 3 23.7 | 18.4 |
| 201868 2003 $YP_{148}$ | 14.9 | X | 310.03725 | 69.23186 | 70.20506 | 19.02575 | 0.1680941 | 0.17480638 | 3.1678495 | 20 | — | — |
| 201869 2003 $YU_{150}$ | 14.8 | X | 352.27817 | 78.83523 | 73.42823 | 15.11526 | 0.1660133 | 0.18231666 | 3.0802441 | 20 | 1 6.4 | 18.5 |
| 201870 2003 $YG_{153}$ | 15.2 | X | 346.07686 | 44.92385 | 81.05005 | 17.94023 | 0.2293915 | 0.17745274 | 3.1362758 | 20 | — | — |
| 201871 2003 $YN_{154}$ | 15.1 | X | 37.34851 | 48.66299 | 59.47151 | 13.63512 | 0.1099376 | 0.18385006 | 3.0630931 | 20 | 1 30.6 | 19.1 |
| 201872 2003 $YE_{161}$ | 15.6 | X | 61.96559 | 239.67112 | 206.46335 | 8.30186 | 0.0669888 | 0.19152893 | 2.9806648 | 20 | 1 28.2 | 19.7 |
| 201873 2003 $YU_{162}$ | 15.7 | X | 43.55718 | 124.84382 | 301.76692 | 12.32230 | 0.2418494 | 0.18469924 | 3.0536973 | 20 | — | — |
| 201874 2003 $YV_{166}$ | 15.3 | X | 24.22505 | 326.26299 | 115.27931 | 10.53969 | 0.0650437 | 0.18041226 | 3.1018826 | 20 | — | — |
| 201875 2003 $YY_{168}$ | 15.6 | X | 41.35284 | 18.16208 | 50.36227 | 6.58388 | 0.1553873 | 0.18350893 | 3.0668880 | 20 | — | — |
| 201876 2003 $YB_{171}$ | 15.8 | X | 318.76040 | 78.59763 | 60.13938 | 10.56104 | 0.1938576 | 0.17654821 | 3.1469789 | 20 | — | — |
| 201877 2003 $YT_{175}$ | 15.6 | X | 23.30901 | 5.16281 | 33.53838 | 11.38505 | 0.1695590 | 0.17801000 | 3.1297270 | 20 | — | — |
| 201878 2003 $YF_{180}$ | 15.2 | X | 311.13368 | 111.57434 | 59.54125 | 17.50120 | 0.1960765 | 0.17859986 | 3.1228321 | 20 | — | — |
| 201879 2004 $AC_{1}$ | 14.5 | X | 358.64350 | 64.31567 | 39.85269 | 26.26704 | 0.2526620 | 0.17913179 | 3.1166469 | 20 | — | — |
| 201880 2004 $AP_{2}$ | 15.2 | X | 169.10366 | 48.59076 | 286.00063 | 9.74015 | 0.0271923 | 0.18499168 | 3.0504781 | 20 | 1 21.4 | 19.7 |
| 201881 2004 $AA_{4}$ | 15.3 | X | 323.79799 | 157.72484 | 310.77918 | 10.18416 | 0.1303100 | 0.17286258 | 3.1915529 | 20 | — | — |
| 201882 2004 $AC_{7}$ | 15.0 | X | 157.22759 | 104.18254 | 273.30198 | 10.97708 | 0.0871651 | 0.19137968 | 2.9822142 | 20 | 2 27.7 | 19.7 |
| 201883 2004 $AX_{7}$ | 15.3 | X | 318.68256 | 112.11057 | 10.24440 | 11.00243 | 0.1508130 | 0.17207999 | 3.2012220 | 20 | — | — |
| 201884 2004 $AU_{9}$ | 15.3 | X | 358.46637 | 1.65205 | 103.43864 | 11.49878 | 0.0644910 | 0.17874577 | 3.1211325 | 20 | — | — |
| 201885 2004 $AN_{10}$ | 17.2 | X | 102.86793 | 94.17783 | 305.27041 | 17.20869 | 0.1052098 | 0.36607723 | 1.9353265 | 20 | — | — |
| 201886 2004 $AW_{12}$ | 16.2 | X | 307.35401 | 74.34017 | 69.99237 | 2.39098 | 0.1572900 | 0.17533173 | 3.1615183 | 20 | — | — |
| 201887 2004 $AD_{14}$ | 16.5 | X | 25.15190 | 264.26632 | 207.61821 | 1.54396 | 0.2238468 | 0.18458940 | 3.0549086 | 20 | 1 11.4 | 19.5 |
| 201888 2004 $BB_{2}$ | 15.3 | X | 95.83764 | 307.93189 | 106.37943 | 12.73040 | 0.1400670 | 0.19259795 | 2.9696250 | 20 | 2 18.2 | 19.4 |
| 201889 2004 $BM_{9}$ | 15.8 | X | 326.69378 | 18.32361 | 123.23327 | 7.98231 | 0.1634082 | 0.17628632 | 3.1500949 | 20 | — | — |
| 201890 2004 $BB_{13}$ | 15.3 | X | 54.02902 | 310.18246 | 115.93244 | 5.95215 | 0.1502748 | 0.18209201 | 3.0827771 | 20 | 1 3.6 | 18.8 |
| 201891 2004 $BG_{14}$ | 14.7 | X | 286.43522 | 120.30896 | 85.32830 | 15.01347 | 0.1203076 | 0.17608643 | 3.1524785 | 20 | — | — |
| 201892 2004 $BK_{16}$ | 14.8 | X | 291.38986 | 85.03712 | 115.87551 | 14.63649 | 0.1695967 | 0.17595506 | 3.1540473 | 20 | — | — |
| 201893 2004 $BR_{17}$ | 15.0 | X | 318.25865 | 114.50483 | 19.13951 | 11.55120 | 0.0632854 | 0.17468690 | 3.1692938 | 20 | — | — |
| 201894 2004 $BT_{18}$ | 15.1 | X | 53.60599 | 148.54072 | 267.46029 | 7.63343 | 0.0974405 | 0.18089205 | 3.0963953 | 20 | — | — |
| 201895 2004 $BK_{19}$ | 15.2 | X | 9.71857 | 93.82330 | 98.01411 | 10.70877 | 0.0185564 | 0.19299026 | 2.9655992 | 20 | 4 4.9 | 19.4 |
| 201896 2004 $BX_{25}$ | 15.6 | X | 107.59545 | 278.81310 | 304.68677 | 10.79452 | 0.0920891 | 0.21565214 | 2.7540186 | 20 | 9 21.1 | 19.9 |
| 201897 2004 $BG_{33}$ | 15.5 | X | 275.81721 | 200.71044 | 341.00311 | 1.99134 | 0.1055579 | 0.17427043 | 3.1743410 | 20 | — | — |
| 201898 2004 $BN_{33}$ | 15.8 | X | 316.73579 | 88.31381 | 59.76547 | 1.68941 | 0.1129983 | 0.17635249 | 3.1493069 | 20 | — | — |
| 201899 2004 $BD_{47}$ | 15.3 | X | 217.69418 | 267.92163 | 115.63107 | 15.85890 | 0.1651950 | 0.20535971 | 2.8452857 | 20 | 5 13.9 | 20.2 |
| 201900 2004 $BR_{56}$ | 15.2 | X | 48.33453 | 53.94500 | 144.63997 | 13.04925 | 0.0601596 | 0.19706517 | 2.9245752 | 20 | 6 5.9 | 19.3 |
| 201901 2004 $BG_{64}$ | 15.9 | X | 330.37845 | 55.07328 | 39.81195 | 1.29593 | 0.1660703 | 0.17288762 | 3.1912448 | 20 | — | — |
| 201902 2004 $BL_{64}$ | 16.9 | X | 60.71342 | 156.83452 | 67.80869 | 0.93552 | 0.2260349 | 0.26406819 | 2.4061646 | 20 | 8 27.9 | 20.0 |
| 201903 2004 $BW_{68}$ | 14.9 | X | 305.44431 | 304.38786 | 222.65600 | 26.26121 | 0.2712021 | 0.17410644 | 3.1763340 | 20 | — | — |
| 201904 2004 $BC_{85}$ | 16.7 | X | 141.26250 | 44.69044 | 271.51070 | 17.27071 | 0.0757358 | 0.35670765 | 1.9690697 | 20 | — | — |
| 201905 2004 $BH_{89}$ | 14.9 | X | 286.56066 | 305.04925 | 279.60974 | 7.17609 | 0.1215036 | 0.18011765 | 3.1052641 | 20 | 1 13.6 | 19.3 |
| 201906 2004 $BV_{90}$ | 15.2 | X | 335.79488 | 209.97042 | 310.84797 | 4.30588 | 0.1074944 | 0.17922628 | 3.1155514 | 20 | — | — |
| 201907 2004 $BM_{91}$ | 15.2 | X | 339.54437 | 303.12951 | 171.14621 | 4.94947 | 0.1403128 | 0.17429232 | 3.1740752 | 20 | — | — |
| 201908 2004 $BJ_{97}$ | 15.3 | X | 42.43366 | 251.72017 | 132.86928 | 16.67487 | 0.2372430 | 0.17564838 | 3.1577175 | 20 | — | — |
| 201909 2004 $BF_{110}$ | 15.0 | X | 350.38734 | 96.44945 | 1.22322 | 25.75634 | 0.2187298 | 0.17388575 | 3.1790209 | 20 | — | — |
| 201910 2004 $BM_{111}$ | 16.9 | X | 40.38933 | 179.35196 | 128.18103 | 22.85489 | 0.0068515 | 0.39527237 | 1.8388166 | 20 | 11 27.8 | 19.3 |
| 201911 2004 $BU_{113}$ | 15.1 | X | 33.13782 | 2.97930 | 73.29290 | 10.85656 | 0.0821782 | 0.17935197 | 3.1140957 | 20 | — | — |
| 201912 2004 $BB_{116}$ | 15.1 | X | 196.11310 | 258.97775 | 86.27830 | 11.50485 | 0.0132042 | 0.19026289 | 2.9938726 | 20 | 3 11.0 | 19.5 |
| 201913 2004 $BF_{116}$ | 15.3 | X | 74.72622 | 340.24723 | 98.85491 | 11.19234 | 0.0888235 | 0.18648806 | 3.0341383 | 20 | 2 14.6 | 19.4 |
| 201914 2004 $BP_{119}$ | 14.9 | X | 313.54444 | 94.02709 | 95.01537 | 19.04845 | 0.1371648 | 0.17936247 | 3.1139741 | 20 | — | — |
| 201915 2004 $BH_{133}$ | 15.3 | X | 343.80418 | 18.63782 | 63.68268 | 5.67102 | 0.1218857 | 0.17261517 | 3.1946019 | 20 | — | — |
| 201916 2004 $BN_{141}$ | 16.6 | X | 18.18099 | 228.83983 | 198.89862 | 1.56118 | 0.2125485 | 0.17768226 | 3.1335744 | 20 | — | — |
| 201917 2004 $BO_{149}$ | 16.0 | X | 42.09894 | 74.07537 | 319.02022 | 4.21463 | 0.1653111 | 0.17621799 | 3.1509092 | 20 | — | — |
| 201918 2004 $CA_{4}$ | 15.2 | X | 32.17063 | 312.91497 | 118.00449 | 10.40894 | 0.2007049 | 0.17924926 | 3.1152851 | 20 | — | — |
| 201919 2004 $CC_{5}$ | 15.2 | X | 349.64373 | 116.05880 | 336.38203 | 10.67603 | 0.1053032 | 0.17297926 | 3.1901175 | 20 | — | — |
| 201920 2004 $CD_{6}$ | 15.6 | X | 59.30521 | 3.21606 | 67.76890 | 6.41053 | 0.2597842 | 0.18391319 | 3.0623921 | 20 | 2 3.7 | 18.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 201921 2004 $CN_{51}$ | 15.3 | X | 11.73693 | 54.95783 | 98.36653 | 12.72429 | 0.0556828 | 0.18481756 | 3.0523937 | 20 | 2 17.2 | 19.4 |
| 201922 2004 $CQ_{52}$ | 15.4 | X | 352.96655 | 54.43543 | 110.22533 | 2.08028 | 0.1600010 | 0.18141878 | 3.0903990 | 20 | 1 24.3 | 18.9 |
| 201923 2004 $CV_{66}$ | 15.2 | X | 59.70925 | 309.25906 | 109.08258 | 13.40979 | 0.1890178 | 0.17977949 | 3.1091568 | 20 | 1 8.1 | 18.7 |
| 201924 2004 $CB_{79}$ | 15.4 | X | 10.74180 | 7.02027 | 96.19851 | 2.33140 | 0.1830195 | 0.17756177 | 3.1349918 | 20 | — | — |
| 201925 2004 $CT_{83}$ | 15.0 | X | 71.51229 | 69.64746 | 325.60396 | 13.14071 | 0.2630592 | 0.17983642 | 3.1085006 | 20 | 1 11.5 | 18.8 |
| 201926 2004 $CU_{94}$ | 15.8 | X | 65.03006 | 286.00368 | 206.30339 | 2.70319 | 0.0904656 | 0.18950314 | 3.0018693 | 20 | 4 5.2 | 19.7 |
| 201927 2004 $CC_{97}$ | 14.8 | X | 173.72697 | 109.28631 | 80.19079 | 16.10759 | 0.0625520 | 0.15734521 | 3.3980808 | 20 | 10 23.6 | 20.1 |
| 201928 2004 $CE_{104}$ | 15.2 | X | 46.28076 | 160.43702 | 279.88176 | 16.19633 | 0.1580376 | 0.18044747 | 3.1014791 | 20 | 1 8.9 | 18.8 |
| 201929 2004 $CS_{120}$ | 15.5 | X | 333.71866 | 333.27752 | 198.07261 | 0.59539 | 0.0866273 | 0.18051945 | 3.1006545 | 20 | 1 12.5 | 19.4 |
| 201930 2004 $DR_{20}$ | 15.2 | X | 40.41590 | 45.91223 | 136.27016 | 9.01452 | 0.0756646 | 0.19146174 | 2.9813620 | 20 | 5 6.4 | 19.2 |
| 201931 2004 $DM_{25}$ | 17.1 | X | 116.85104 | 207.67674 | 257.50136 | 19.24607 | 0.0935231 | 0.37690627 | 1.8980769 | 20 | 4 26.6 | 19.4 |
| 201932 2004 $DW_{28}$ | 15.7 | X | 84.02779 | 348.25602 | 106.57676 | 3.21450 | 0.0697537 | 0.18689168 | 3.0297682 | 20 | 3 13.5 | 19.7 |
| 201933 2004 $DO_{45}$ | 15.0 | X | 314.18751 | 199.04092 | 10.55291 | 10.61450 | 0.1603629 | 0.17694401 | 3.1422842 | 20 | 1 27.3 | 19.4 |
| 201934 2004 $DP_{50}$ | 16.3 | X | 62.96508 | 33.15390 | 89.96134 | 1.05944 | 0.1478911 | 0.19000283 | 2.9966039 | 20 | 3 30.0 | 20.1 |
| 201935 2004 $DB_{67}$ | 15.1 | X | 183.94214 | 9.73202 | 288.89960 | 9.42947 | 0.0980980 | 0.18466511 | 3.0540735 | 20 | — | — |
| 201936 2004 $EV_{14}$ | 14.9 | X | 46.19200 | 351.56993 | 130.46387 | 11.09006 | 0.0369650 | 0.18109178 | 3.0941181 | 20 | 2 23.3 | 19.0 |
| 201937 2004 $EA_{16}$ | 14.2 | X | 60.78760 | 308.71711 | 175.38270 | 8.29518 | 0.1004295 | 0.12590068 | 3.9426117 | 20 | 3 27.7 | 19.4 |
| 201938 2004 $EN_{24}$ | 16.5 | X | 246.87779 | 178.85092 | 57.85019 | 22.39662 | 0.0734499 | 0.35415951 | 1.9785033 | 20 | — | — |
| 201939 2004 $EQ_{39}$ | 15.7 | X | 12.44685 | 322.92698 | 265.80905 | 1.91000 | 0.1112497 | 0.19212635 | 2.9744826 | 20 | 5 23.3 | 19.1 |
| 201940 2004 $EO_{43}$ | 15.5 | X | 23.53292 | 222.31076 | 282.87145 | 8.02645 | 0.2576853 | 0.18199309 | 3.0838941 | 20 | 2 21.4 | 18.3 |
| 201941 2004 $EY_{94}$ | 15.0 | X | 340.25139 | 47.10517 | 101.21940 | 9.89694 | 0.1872077 | 0.17376209 | 3.1805290 | 20 | — | — |
| 201942 2004 $FS_{1}$ | 17.7 | X | 8.63632 | 247.62015 | 200.67164 | 21.01896 | 0.0995086 | 0.35255966 | 1.9844842 | 20 | — | — |
| 201943 2004 $GU_{19}$ | 17.0 | X | 285.54855 | 97.83384 | 67.48292 | 25.12385 | 0.0560219 | 0.34632313 | 2.0082374 | 20 | — | — |
| 201944 2004 $GW_{19}$ | 17.2 | X | 292.89623 | 53.15454 | 215.45574 | 7.95861 | 0.2124248 | 0.30040166 | 2.2080106 | 20 | 2 13.9 | 20.3 |
| 201945 2004 $GD_{20}$ | 16.8 | X | 286.34054 | 183.88354 | 16.88058 | 1.96150 | 0.1222049 | 0.23106934 | 2.6301135 | 20 | — | — |
| 201946 2004 $GO_{28}$ | 16.7 | X | 72.67824 | 321.78508 | 82.55352 | 23.37951 | 0.1429186 | 0.35407786 | 1.9788074 | 20 | — | — |
| 201947 2004 $HG_{40}$ | 17.7 | X | 205.65833 | 299.92895 | 26.94781 | 8.19197 | 0.1851311 | 0.29697431 | 2.2249664 | 20 | 2 15.3 | 21.3 |
| 201948 2004 $HK_{70}$ | 17.0 | X | 310.35916 | 354.35776 | 81.17444 | 1.73037 | 0.0452548 | 0.21307460 | 2.7761841 | 20 | 11 24.9 | 20.6 |
| 201949 2004 $JF_{1}$ | 16.7 | X | 135.67309 | 1.54595 | 76.66491 | 23.42275 | 0.0805180 | 0.36507971 | 1.9388502 | 20 | 4 27.6 | 19.3 |
| 201950 2004 $JT_{11}$ | 17.0 | X | 270.24718 | 195.10035 | 125.88367 | 24.17488 | 0.0624297 | 0.36730769 | 1.9310019 | 20 | 5 1.9 | 19.8 |
| 201951 2004 $JV_{26}$ | 17.4 | X | 340.98814 | 83.94195 | 228.51251 | 3.42230 | 0.1781139 | 0.31312294 | 2.1477948 | 20 | 8 7.1 | 18.6 |
| 201952 2004 $JS_{43}$ | 17.6 | X | 331.05575 | 41.63578 | 233.40276 | 5.85481 | 0.1677082 | 0.30847869 | 2.1692983 | 20 | 5 3.9 | 19.1 |
| 201953 2004 $JO_{47}$ | 17.2 | X | 317.48538 | 180.56553 | 167.19608 | 2.15197 | 0.1387199 | 0.31724093 | 2.1291679 | 20 | 8 16.3 | 18.6 |
| 201954 2004 $KO_{3}$ | 17.1 | X | 10.38505 | 87.37834 | 211.49197 | 1.57742 | 0.1916936 | 0.31636487 | 2.1330967 | 20 | 9 29.7 | 18.5 |
| 201955 2004 $LD_{13}$ | 16.8 | X | 223.15149 | 12.89674 | 250.87066 | 6.81807 | 0.0983787 | 0.28229023 | 2.3014709 | 20 | — | — |
| 201956 2004 $LR_{16}$ | 16.7 | X | 186.01184 | 19.40672 | 273.20657 | 8.89935 | 0.2333507 | 0.27765659 | 2.3270054 | 20 | — | — |
| 201957 2004 $ME_{7}$ | 17.2 | X | 243.11053 | 150.45191 | 152.37147 | 4.29208 | 0.2060218 | 0.29071548 | 2.2567872 | 20 | 2 13.9 | 20.7 |
| 201958 2004 $NF_{7}$ | 16.3 | X | 152.31192 | 160.34660 | 192.15180 | 6.63082 | 0.1340227 | 0.27797591 | 2.3252230 | 20 | 1 20.8 | 19.7 |
| 201959 2004 $NS_{12}$ | 16.7 | X | 136.41448 | 231.35301 | 110.44798 | 9.98402 | 0.2460690 | 0.27543597 | 2.3394959 | 20 | 1 5.2 | 19.9 |
| 201960 2004 $NX_{14}$ | 17.6 | X | 151.54764 | 110.99268 | 219.94622 | 1.62739 | 0.2418915 | 0.27787133 | 2.3258063 | 20 | 1 5.6 | 21.0 |
| 201961 2004 $NB_{16}$ | 16.6 | X | 117.95621 | 329.46801 | 20.21245 | 4.68627 | 0.2626849 | 0.27193386 | 2.3595391 | 20 | — | — |
| 201962 2004 $NN_{20}$ | 17.2 | X | 177.52053 | 84.61775 | 254.76086 | 5.38253 | 0.1413049 | 0.28386169 | 2.2929691 | 20 | 1 30.2 | 20.7 |
| 201963 2004 $NW_{24}$ | 16.4 | X | 235.24599 | 8.04729 | 308.83748 | 6.09141 | 0.1539479 | 0.28926331 | 2.2643340 | 20 | 2 25.7 | 19.8 |
| 201964 2004 $NW_{26}$ | 16.8 | X | 120.06023 | 93.47707 | 272.30306 | 4.47652 | 0.2583788 | 0.27564234 | 2.3383280 | 20 | 1 18.8 | 19.8 |
| 201965 2004 $OE_{3}$ | 16.7 | X | 105.53793 | 70.65672 | 285.26558 | 4.28357 | 0.2359126 | 0.27162185 | 2.3613457 | 20 | — | — |
| 201966 2004 $ON_{11}$ | 16.4 | X | 51.97576 | 273.00829 | 76.09372 | 9.26448 | 0.2659376 | 0.26124670 | 2.4234580 | 20 | — | — |
| 201967 2004 $PB_{13}$ | 17.4 | X | 185.04376 | 122.76991 | 189.89229 | 1.54803 | 0.2216871 | 0.28051416 | 2.3111751 | 20 | 1 10.6 | 21.2 |
| 201968 2004 $PG_{17}$ | 17.0 | X | 123.60753 | 23.00088 | 322.66425 | 1.58119 | 0.1907026 | 0.27223396 | 2.3578048 | 20 | — | — |
| 201969 2004 $PK_{18}$ | 16.9 | X | 92.65152 | 26.67211 | 282.57059 | 3.74661 | 0.2046989 | 0.26384302 | 2.4075334 | 20 | — | — |
| 201970 2004 $PU_{18}$ | 17.3 | X | 209.69546 | 335.62710 | 296.27167 | 2.48679 | 0.2133188 | 0.27964556 | 2.3159585 | 20 | — | — |
| 201971 2004 $PA_{19}$ | 17.0 | X | 177.07624 | 336.46397 | 57.97314 | 1.00642 | 0.2103379 | 0.28812687 | 2.2702841 | 20 | 4 13.2 | 20.5 |
| 201972 2004 $PP_{25}$ | 17.2 | X | 202.91544 | 170.41648 | 137.19455 | 3.12695 | 0.1738241 | 0.28287449 | 2.2983008 | 20 | 1 17.5 | 20.8 |
| 201973 2004 $PA_{29}$ | 17.1 | X | 125.50577 | 197.15687 | 155.63639 | 3.08641 | 0.2082140 | 0.27354480 | 2.3502663 | 20 | 1 2.0 | 20.0 |
| 201974 2004 $PR_{29}$ | 17.5 | X | 238.28845 | 202.73851 | 68.38197 | 1.94769 | 0.2214027 | 0.28446647 | 2.2897180 | 20 | 1 2.8 | 21.1 |
| 201975 2004 $PU_{32}$ | 16.7 | X | 145.93338 | 231.14266 | 101.98989 | 2.87561 | 0.2423131 | 0.27533109 | 2.3400899 | 20 | 1 3.5 | 19.9 |
| 201976 2004 $PA_{33}$ | 17.7 | X | 137.52681 | 196.81602 | 149.72471 | 1.66804 | 0.2031370 | 0.27603001 | 2.3361381 | 20 | 1 6.8 | 20.8 |
| 201977 2004 $PQ_{34}$ | 17.1 | X | 102.92890 | 354.38454 | 20.77152 | 2.80282 | 0.2269867 | 0.27278305 | 2.3546397 | 20 | 1 5.2 | 19.6 |
| 201978 2004 $PO_{35}$ | 17.1 | X | 203.68179 | 169.56845 | 123.58355 | 3.26749 | 0.1617275 | 0.27995362 | 2.3142591 | 20 | — | — |
| 201979 2004 $PM_{51}$ | 17.1 | X | 94.78762 | 268.34244 | 67.63325 | 3.43166 | 0.2102007 | 0.26690987 | 2.3890558 | 20 | — | — |
| 201980 2004 $PW_{51}$ | 17.2 | X | 116.74299 | 229.41807 | 102.89968 | 4.54119 | 0.2138833 | 0.27092038 | 2.3654200 | 20 | — | — |
| 201981 2004 $PX_{51}$ | 16.7 | X | 157.26050 | 342.04509 | 27.29824 | 2.84459 | 0.1722153 | 0.28203849 | 2.3028402 | 20 | 2 22.5 | 20.0 |
| 201982 2004 $PF_{52}$ | 16.4 | X | 37.54264 | 318.66012 | 2.98957 | 5.23021 | 0.2095605 | 0.25619127 | 2.4552356 | 20 | 12 1.4 | 19.7 |
| 201983 2004 $PJ_{52}$ | 17.3 | X | 100.97943 | 231.08492 | 88.82227 | 3.41084 | 0.2253145 | 0.26608658 | 2.3939812 | 20 | — | — |
| 201984 2004 $PZ_{52}$ | 17.0 | X | 44.24539 | 35.42852 | 5.84879 | 6.38175 | 0.2629785 | 0.26576776 | 2.3958954 | 20 | — | — |
| 201985 2004 $PS_{54}$ | 16.8 | X | 119.23602 | 193.52912 | 107.55718 | 3.63790 | 0.1928259 | 0.26753519 | 2.3853316 | 20 | — | — |
| 201986 2004 $PA_{58}$ | 17.1 | X | 189.79209 | 58.43573 | 295.67223 | 5.36146 | 0.2216717 | 0.28581300 | 2.2825207 | 20 | 3 2.4 | 20.8 |
| 201987 2004 $PA_{66}$ | 17.3 | X | 172.75161 | 160.42962 | 153.73213 | 2.22129 | 0.2172793 | 0.27866257 | 2.3214017 | 20 | 1 1.9 | 21.0 |
| 201988 2004 $PU_{72}$ | 17.6 | X | 106.05250 | 221.28981 | 120.40161 | 2.15861 | 0.2098852 | 0.27100340 | 2.3649369 | 20 | — | — |
| 201989 2004 $PY_{74}$ | 17.7 | X | 89.11799 | 237.17802 | 104.69859 | 2.32265 | 0.2031908 | 0.26663291 | 2.3907099 | 20 | — | — |
| 201990 2004 $PC_{78}$ | 16.4 | X | 3.84786 | 60.18875 | 225.01618 | 3.45463 | 0.0783158 | 0.24393729 | 2.5367865 | 20 | 7 28.4 | 19.3 |
| 201991 2004 $PE_{83}$ | 16.9 | X | 191.51480 | 311.32255 | 349.96551 | 3.91788 | 0.1607226 | 0.27815045 | 2.3242502 | 20 | — | — |
| 201992 2004 $PJ_{84}$ | 16.8 | X | 114.06901 | 190.08578 | 140.29062 | 3.33046 | 0.2164452 | 0.26701780 | 2.3884120 | 20 | — | — |
| 201993 2004 $PM_{84}$ | 16.3 | X | 95.68925 | 4.52017 | 22.02249 | 4.35715 | 0.2204157 | 0.27006907 | 2.3703882 | 20 | 1 9.7 | 18.8 |
| 201994 2004 $PA_{85}$ | 16.6 | X | 88.50258 | 336.66741 | 44.46630 | 3.45213 | 0.2048783 | 0.26786496 | 2.3833735 | 20 | — | — |
| 201995 2004 $PT_{86}$ | 16.7 | X | 290.33249 | 30.54015 | 20.09485 | 5.29595 | 0.2779936 | 0.24515427 | 2.5283842 | 20 | 8 28.3 | 19.3 |
| 201996 2004 $PQ_{90}$ | 16.6 | X | 110.88377 | 181.36826 | 159.46042 | 6.43244 | 0.2029678 | 0.26771170 | 2.3842831 | 20 | — | — |
| 201997 2004 $PL_{97}$ | 16.6 | X | 127.82494 | 337.61839 | 3.49663 | 4.65307 | 0.2480246 | 0.27219422 | 2.3580343 | 20 | — | — |
| 201998 2004 $PX_{102}$ | 16.9 | X | 109.46989 | 98.81019 | 238.76014 | 3.67715 | 0.2548884 | 0.26747291 | 2.3857019 | 20 | — | — |
| 201999 2004 $PJ_{103}$ | 16.5 | X | 153.68649 | 34.71696 | 278.38890 | 3.27066 | 0.2422919 | 0.27139695 | 2.3626501 | 20 | — | — |
| 202000 2004 $PB_{109}$ | 17.4 | X | 101.08699 | 94.35036 | 278.31546 | 1.50312 | 0.1803000 | 0.27207313 | 2.3587339 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202001 2004 $PV_{113}$ | 17.0 | X | 98.29567 | 187.18272 | 162.58047 | 3.56385 | 0.2473764 | 0.26942769 | 2.3741486 | 20 | — | — |
| 202002 2004 $QW_{7}$ | 17.2 | X | 112.32525 | 215.70137 | 157.57992 | 5.12058 | 0.1561868 | 0.27424104 | 2.3462867 | 20 | 1 3.7 | 19.9 |
| 202003 2004 $QQ_{9}$ | 16.7 | X | 297.35047 | 331.69161 | 24.94115 | 5.01553 | 0.2200449 | 0.24166744 | 2.5526462 | 20 | 6 28.8 | 19.7 |
| 202004 2004 $QT_{9}$ | 16.8 | X | 141.68276 | 328.94276 | 5.23328 | 8.83967 | 0.1396171 | 0.27467011 | 2.3438426 | 20 | — | — |
| 202005 2004 $QZ_{13}$ | 15.7 | X | 212.95252 | 36.37191 | 303.29527 | 27.98072 | 0.1572234 | 0.28674259 | 2.2775849 | 20 | 2 22.1 | 19.7 |
| 202006 2004 $QC_{14}$ | 14.8 | X | 100.49594 | 162.19421 | 248.99333 | 24.32866 | 0.2799724 | 0.27237967 | 2.3569638 | 20 | 2 15.1 | 18.4 |
| 202007 2004 $QS_{24}$ | 16.8 | X | 9.04168 | 232.23122 | 165.59874 | 2.77547 | 0.1924375 | 0.25757032 | 2.4464640 | 20 | — | — |
| 202008 2004 $QX_{26}$ | 17.3 | X | 92.92065 | 357.43566 | 42.97644 | 5.00007 | 0.2116603 | 0.27439181 | 2.3454272 | 20 | 1 23.1 | 19.7 |
| 202009 2004 $RN_{5}$ | 16.8 | X | 359.43069 | 188.37174 | 96.14892 | 6.42594 | 0.1153771 | 0.30336135 | 2.1936258 | 20 | 7 30.8 | 18.5 |
| 202010 2004 $RE_{12}$ | 17.1 | X | 65.87049 | 186.85023 | 134.35213 | 3.43758 | 0.2106298 | 0.25737547 | 2.4476986 | 20 | 12 31.6 | 20.9 |
| 202011 2004 $RW_{16}$ | 17.0 | X | 91.80167 | 26.04237 | 14.15005 | 8.82884 | 0.1975564 | 0.27415572 | 2.3467735 | 20 | 1 19.8 | 19.6 |
| 202012 2004 $RC_{20}$ | 16.3 | X | 85.30982 | 40.04792 | 14.10166 | 23.76288 | 0.2085848 | 0.27261959 | 2.3555808 | 20 | 2 11.1 | 19.4 |
| 202013 2004 $RS_{27}$ | 17.1 | X | 157.09781 | 352.71361 | 342.48494 | 1.81525 | 0.2081583 | 0.27732249 | 2.3288740 | 20 | 1 13.4 | 20.4 |
| 202014 2004 $RT_{28}$ | 17.0 | X | 191.76637 | 155.49236 | 152.89134 | 4.16196 | 0.1234950 | 0.27933318 | 2.3176848 | 20 | 1 6.4 | 20.4 |
| 202015 2004 $RC_{33}$ | 16.6 | X | 116.53059 | 7.54706 | 6.47118 | 7.20895 | 0.1199077 | 0.27513213 | 2.3412179 | 20 | 1 6.2 | 19.5 |
| 202016 2004 $RL_{35}$ | 17.2 | X | 27.77162 | 283.58254 | 87.21913 | 2.38365 | 0.1911032 | 0.25828221 | 2.4419666 | 20 | — | — |
| 202017 2004 $RA_{37}$ | 17.4 | X | 64.51061 | 352.20914 | 6.69375 | 2.02846 | 0.2277125 | 0.26432227 | 2.4046223 | 20 | — | — |
| 202018 2004 $RA_{43}$ | 17.3 | X | 20.40046 | 205.84657 | 199.10019 | 1.89434 | 0.2038543 | 0.26207812 | 2.4183298 | 20 | — | — |
| 202019 2004 $RO_{43}$ | 16.6 | X | 68.87261 | 50.58820 | 319.67495 | 6.16155 | 0.1339568 | 0.26628603 | 2.3927857 | 20 | — | — |
| 202020 2004 $RQ_{45}$ | 17.5 | X | 170.99720 | 311.82186 | 4.10374 | 2.19376 | 0.2168253 | 0.27704323 | 2.3304387 | 20 | 1 3.2 | 21.0 |
| 202021 2004 $RX_{45}$ | 17.0 | X | 84.72757 | 35.08081 | 358.13032 | 6.89828 | 0.1441059 | 0.27163864 | 2.3612485 | 20 | — | — |
| 202022 2004 $RE_{46}$ | 16.5 | X | 63.50653 | 337.95728 | 8.34248 | 4.35117 | 0.1017908 | 0.26162190 | 2.4211405 | 20 | — | — |
| 202023 2004 $RZ_{48}$ | 17.3 | X | 78.87016 | 19.96339 | 22.62977 | 3.90364 | 0.1739110 | 0.27136875 | 2.3628138 | 20 | — | — |
| 202024 2004 $RZ_{53}$ | 17.5 | X | 210.53473 | 73.22805 | 236.03577 | 2.52423 | 0.1670973 | 0.28288874 | 2.2982236 | 20 | 1 25.7 | 21.1 |
| 202025 2004 $RP_{54}$ | 17.2 | X | 110.17534 | 205.31150 | 124.66707 | 2.28280 | 0.1985218 | 0.26735100 | 2.3864271 | 20 | — | — |
| 202026 2004 $RY_{54}$ | 16.9 | X | 104.00227 | 117.95650 | 288.40829 | 5.89210 | 0.0887543 | 0.27785504 | 2.3258973 | 20 | 1 25.3 | 19.5 |
| 202027 2004 $RS_{56}$ | 17.4 | X | 51.09787 | 268.63346 | 67.10871 | 3.28248 | 0.2233403 | 0.25786319 | 2.4446113 | 20 | — | — |
| 202028 2004 $RJ_{59}$ | 16.5 | X | 64.22633 | 284.36341 | 45.81952 | 3.37072 | 0.2032249 | 0.25902670 | 2.4372853 | 20 | — | — |
| 202029 2004 $RC_{62}$ | 17.4 | X | 241.84955 | 118.36464 | 170.61278 | 1.58590 | 0.2169842 | 0.28564341 | 2.2834241 | 20 | 1 26.8 | 21.1 |
| 202030 2004 $RK_{65}$ | 16.7 | X | 47.03676 | 226.46834 | 165.88222 | 8.71509 | 0.1458454 | 0.26386940 | 2.4073729 | 20 | — | — |
| 202031 2004 $RK_{67}$ | 16.5 | X | 72.55868 | 45.65912 | 357.36793 | 8.94351 | 0.0790306 | 0.27029301 | 2.3690788 | 20 | — | — |
| 202032 2004 $RP_{67}$ | 16.4 | X | 139.72216 | 313.07907 | 355.16128 | 6.61084 | 0.0212745 | 0.26682145 | 2.3895835 | 20 | — | — |
| 202033 2004 $RS_{71}$ | 16.7 | X | 214.84914 | 274.63394 | 26.82469 | 7.26507 | 0.1126887 | 0.28019623 | 2.3129231 | 20 | 1 22.9 | 20.2 |
| 202034 2004 $RL_{73}$ | 16.7 | X | 48.65353 | 275.51455 | 171.24741 | 13.20288 | 0.1457902 | 0.27158119 | 2.3615815 | 20 | — | — |
| 202035 2004 $RK_{77}$ | 16.7 | X | 162.43199 | 276.44039 | 30.07782 | 5.17419 | 0.1992592 | 0.27222914 | 2.3578326 | 20 | — | — |
| 202036 2004 $RE_{78}$ | 17.1 | X | 65.20414 | 5.77906 | 44.94718 | 2.03809 | 0.1725507 | 0.26857294 | 2.3791832 | 20 | — | — |
| 202037 2004 $RL_{85}$ | 17.4 | X | 78.24835 | 0.89047 | 336.74450 | 2.00167 | 0.2201011 | 0.26026995 | 2.4295175 | 20 | — | — |
| 202038 2004 $RA_{101}$ | 16.4 | X | 38.67763 | 118.37855 | 261.04490 | 2.59644 | 0.2064828 | 0.26075723 | 2.4264898 | 20 | — | — |
| 202039 2004 $RZ_{103}$ | 16.9 | X | 165.91691 | 91.84360 | 225.38049 | 4.57599 | 0.1669204 | 0.27475586 | 2.3433549 | 20 | — | — |
| 202040 2004 $RN_{104}$ | 16.5 | X | 28.22636 | 160.27105 | 264.19978 | 5.41098 | 0.1338862 | 0.26489599 | 2.4011491 | 20 | — | — |
| 202041 2004 $RS_{108}$ | 16.9 | X | 305.32267 | 298.66882 | 306.03674 | 5.48729 | 0.0433696 | 0.28721226 | 2.2751013 | 20 | 2 25.9 | 19.6 |
| 202042 2004 $RW_{135}$ | 17.2 | X | 358.56556 | 104.07303 | 30.30361 | 2.99464 | 0.1589623 | 0.27426835 | 2.3461310 | 20 | — | — |
| 202043 2004 $RP_{143}$ | 16.8 | X | 46.50106 | 6.28738 | 45.52849 | 3.66910 | 0.1663853 | 0.26563879 | 2.3966708 | 20 | — | — |
| 202044 2004 $RU_{146}$ | 17.2 | X | 57.35320 | 64.74360 | 344.15580 | 7.20203 | 0.1041083 | 0.26914875 | 2.3757887 | 20 | — | — |
| 202045 2004 $RV_{149}$ | 17.2 | X | 40.09874 | 101.38843 | 289.03889 | 0.89507 | 0.1862561 | 0.26199667 | 2.4188310 | 20 | — | — |
| 202046 2004 $RS_{153}$ | 16.4 | X | 91.50449 | 61.09620 | 263.38888 | 5.46384 | 0.1194737 | 0.26296628 | 2.4128816 | 20 | — | — |
| 202047 2004 $RM_{155}$ | 16.4 | X | 174.45483 | 46.15962 | 224.20094 | 6.63501 | 0.0512785 | 0.26748826 | 2.3856107 | 20 | — | — |
| 202048 2004 $RW_{157}$ | 16.6 | X | 110.23589 | 264.34677 | 255.66022 | 5.53563 | 0.0285330 | 0.29878436 | 2.2159714 | 20 | 7 4.9 | 19.2 |
| 202049 2004 $RG_{166}$ | 16.7 | X | 227.53105 | 105.67960 | 169.42580 | 4.19019 | 0.0690595 | 0.28061120 | 2.3106423 | 20 | — | — |
| 202050 2004 $RF_{167}$ | 16.8 | X | 56.94121 | 329.84305 | 26.93668 | 7.69290 | 0.1288766 | 0.26168539 | 2.4207488 | 20 | — | — |
| 202051 2004 $RW_{177}$ | 16.8 | X | 250.64452 | 47.33326 | 319.76304 | 13.20007 | 0.1881083 | 0.23373743 | 2.6100603 | 20 | 5 12.9 | 21.0 |
| 202052 2004 $RF_{190}$ | 15.7 | X | 147.53992 | 130.72391 | 230.97024 | 7.12282 | 0.1005211 | 0.21318881 | 2.7751925 | 20 | 1 31.3 | 20.0 |
| 202053 2004 $RH_{192}$ | 16.6 | X | 196.08229 | 105.38449 | 200.55846 | 4.85182 | 0.1832505 | 0.27812604 | 2.3243862 | 20 | 1 9.8 | 20.4 |
| 202054 2004 $RA_{193}$ | 16.6 | X | 71.32430 | 99.07433 | 282.79290 | 3.10228 | 0.2028475 | 0.26559541 | 2.3969318 | 20 | — | — |
| 202055 2004 $RS_{196}$ | 15.5 | X | 75.70647 | 143.62841 | 344.51238 | 15.94434 | 0.2386310 | 0.21787568 | 2.7352491 | 20 | 4 28.6 | 19.4 |
| 202056 2004 $RN_{227}$ | 16.6 | X | 113.48594 | 55.84212 | 226.18903 | 4.58726 | 0.2022390 | 0.25862156 | 2.4398300 | 20 | 12 24.8 | 20.7 |
| 202057 2004 $RV_{229}$ | 16.9 | X | 32.81797 | 33.66747 | 4.90075 | 5.72141 | 0.1145063 | 0.26044034 | 2.4284577 | 20 | — | — |
| 202058 2004 $RD_{250}$ | 17.6 | X | 172.77523 | 81.98138 | 215.89911 | 1.53568 | 0.2176005 | 0.27390683 | 2.3481949 | 20 | — | — |
| 202059 2004 $RB_{265}$ | 17.6 | X | 70.43759 | 276.68546 | 124.00455 | 1.92039 | 0.1845139 | 0.26935032 | 2.3746032 | 20 | — | — |
| 202060 2004 $RH_{291}$ | 16.9 | X | 92.43408 | 75.78770 | 296.14625 | 5.75761 | 0.1429578 | 0.27090294 | 2.3655215 | 20 | — | — |
| 202061 2004 $RN_{292}$ | 16.3 | X | 246.18401 | 279.53054 | 304.06390 | 6.42647 | 0.0622356 | 0.26984158 | 2.3717203 | 20 | — | — |
| 202062 2004 $RG_{309}$ | 16.5 | X | 62.55593 | 204.85299 | 300.55078 | 6.41567 | 0.1077821 | 0.28577279 | 2.2827348 | 20 | 4 10.7 | 19.1 |
| 202063 2004 $RX_{323}$ | 16.1 | X | 199.52061 | 49.22231 | 285.79766 | 6.43032 | 0.1301367 | 0.28062285 | 2.3105784 | 20 | 2 14.9 | 19.6 |
| 202064 2004 $RT_{333}$ | 16.8 | X | 191.50832 | 208.12830 | 71.54357 | 6.56628 | 0.2033715 | 0.27474117 | 2.3434384 | 20 | — | — |
| 202065 2004 $RK_{335}$ | 16.8 | X | 40.40726 | 200.43861 | 222.94362 | 2.64604 | 0.1087474 | 0.26509982 | 2.3999181 | 20 | — | — |
| 202066 2004 $RT_{339}$ | 16.8 | X | 49.44642 | 72.16367 | 11.05790 | 7.79394 | 0.0830219 | 0.27187777 | 2.3598637 | 20 | — | — |
| 202067 2004 $RW_{339}$ | 16.8 | X | 150.48161 | 154.86105 | 154.00566 | 5.14725 | 0.1696036 | 0.26979213 | 2.3720101 | 20 | — | — |
| 202068 2004 $SA_{4}$ | 17.3 | X | 31.30596 | 310.80242 | 82.71413 | 2.44342 | 0.1904257 | 0.25953845 | 2.4340804 | 20 | — | — |
| 202069 2004 $SN_{4}$ | 17.1 | X | 79.90856 | 85.84494 | 248.46480 | 2.91860 | 0.0486565 | 0.26279709 | 2.4139171 | 20 | — | — |
| 202070 2004 $SG_{11}$ | 16.6 | X | 216.95385 | 199.93545 | 91.82855 | 7.32347 | 0.1635368 | 0.28202893 | 2.3028922 | 20 | 1 10.9 | 20.3 |
| 202071 2004 $SN_{20}$ | 16.6 | X | 315.05550 | 132.91880 | 198.65956 | 3.45753 | 0.2785924 | 0.23873179 | 2.5735298 | 20 | 6 13.3 | 18.9 |
| 202072 2004 $SJ_{24}$ | 16.9 | X | 155.55099 | 272.74996 | 25.81464 | 7.44863 | 0.2224709 | 0.26912627 | 2.3759210 | 20 | — | — |
| 202073 2004 $SL_{24}$ | 17.4 | X | 265.68859 | 356.96077 | 79.24640 | 1.92252 | 0.1515947 | 0.24291414 | 2.5439048 | 20 | 9 14.0 | 20.5 |
| 202074 2004 $SP_{24}$ | 17.0 | X | 47.68659 | 137.90170 | 207.45217 | 8.47350 | 0.2361138 | 0.25649156 | 2.4533189 | 20 | — | — |
| 202075 2004 $SF_{30}$ | 17.2 | X | 148.24546 | 340.91011 | 350.06174 | 1.83602 | 0.1879383 | 0.27290763 | 2.3539230 | 20 | — | — |
| 202076 2004 $SV_{30}$ | 16.4 | X | 194.13094 | 288.75667 | 3.33943 | 5.59280 | 0.2095106 | 0.27578667 | 2.3375121 | 20 | — | — |
| 202077 2004 $SS_{32}$ | 15.9 | X | 101.29111 | 345.98919 | 22.44723 | 10.70844 | 0.1369904 | 0.26834914 | 2.3805058 | 20 | — | — |
| 202078 2004 $ST_{38}$ | 16.9 | X | 137.28831 | 174.70356 | 156.20678 | 2.66281 | 0.2143690 | 0.27072132 | 2.3665794 | 20 | — | — |
| 202079 2004 $SR_{39}$ | 16.7 | X | 115.97985 | 130.82759 | 237.84954 | 0.49929 | 0.2994811 | 0.27037490 | 2.3686004 | 20 | 1 24.8 | 19.7 |
| 202080 2004 $SR_{40}$ | 15.6 | X | 234.43852 | 349.64335 | 39.09436 | 13.52765 | 0.1489884 | 0.22739159 | 2.6583967 | 20 | 5 29.9 | 19.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202081 2004 $SA_{50}$ | 17.0 | X | 35.23694 | 209.69177 | 184.23651 | 3.26659 | 0.2040969 | 0.26081126 | 2.4261547 | 20 | — | — |
| 202082 2004 $SQ_{51}$ | 17.1 | X | 4.46950 | 92.45703 | 328.57433 | 2.15632 | 0.2181329 | 0.25895715 | 2.4377216 | 20 | — | — |
| 202083 2004 $ST_{53}$ | 16.5 | X | 22.10551 | 43.98865 | 20.77356 | 5.51904 | 0.1382046 | 0.26243208 | 2.4161549 | 20 | — | — |
| 202084 2004 $SE_{56}$ | 17.1 | X | 74.60266 | 359.68389 | 9.32952 | 5.96005 | 0.1458258 | 0.26473197 | 2.4021408 | 20 | — | — |
| 202085 2004 $SZ_{60}$ | 16.4 | X | 1.62489 | 77.38447 | 218.05262 | 15.06868 | 0.1847127 | 0.24091886 | 2.5579311 | 20 | 8 11.5 | 19.2 |
| 202086 2004 $TZ$ | 16.7 | X | 1.13736 | 318.77230 | 52.74005 | 6.21315 | 0.2569449 | 0.25238825 | 2.4798379 | 20 | 12 24.6 | 19.3 |
| 202087 2004 $TU_{1}$ | 16.7 | X | 273.04024 | 190.58161 | 124.63581 | 7.52284 | 0.1898764 | 0.29277488 | 2.2461918 | 20 | 4 4.4 | 19.8 |
| 202088 2004 $TB_{2}$ | 17.2 | X | 356.46656 | 349.37172 | 323.43016 | 1.51402 | 0.1530213 | 0.24356975 | 2.5393378 | 20 | 8 31.9 | 19.5 |
| 202089 2004 $TP_{3}$ | 17.1 | X | 262.92553 | 143.05273 | 22.12411 | 3.52381 | 0.0475102 | 0.26011037 | 2.4305111 | 20 | — | — |
| 202090 2004 $TN_{7}$ | 16.2 | X | 32.77993 | 272.64847 | 110.66784 | 8.14720 | 0.1445528 | 0.25893552 | 2.4378574 | 20 | — | — |
| 202091 2004 $TF_{14}$ | 16.6 | X | 333.52540 | 149.92755 | 176.65996 | 5.37751 | 0.2260250 | 0.24075097 | 2.5591202 | 20 | 7 28.6 | 18.7 |
| 202092 Algirdas | 17.0 | X | 259.96727 | 335.05299 | 5.49257 | 13.38113 | 0.2563161 | 0.22982896 | 2.6395682 | 20 | 4 13.0 | 21.2 |
| 202093 2004 $TP_{17}$ | 16.2 | X | 128.14608 | 74.92883 | 308.30159 | 4.59788 | 0.0323367 | 0.21057680 | 2.7980944 | 20 | 1 29.9 | 20.1 |
| 202094 2004 $TM_{18}$ | 15.5 | X | 257.48523 | 253.94882 | 104.89044 | 12.48874 | 0.2041596 | 0.22946399 | 2.6423663 | 20 | 5 16.1 | 19.6 |
| 202095 2004 $TQ_{20}$ | 16.9 | X | 242.04601 | 178.89838 | 134.73719 | 5.14605 | 0.1657325 | 0.28435984 | 2.2902903 | 20 | 3 1.6 | 20.5 |
| 202096 2004 $TE_{26}$ | 17.6 | X | 98.58781 | 148.30343 | 198.99390 | 5.38918 | 0.1354009 | 0.26576641 | 2.3959035 | 20 | — | — |
| 202097 2004 $TS_{28}$ | 17.2 | X | 210.91075 | 112.84316 | 137.68383 | 2.02970 | 0.1459809 | 0.27000029 | 2.3707908 | 20 | — | — |
| 202098 2004 $TB_{29}$ | 17.4 | X | 134.73172 | 115.53750 | 171.77925 | 2.59925 | 0.1667333 | 0.26374591 | 2.4081243 | 20 | — | — |
| 202099 2004 $TK_{29}$ | 16.9 | X | 141.00210 | 145.08644 | 166.16016 | 4.63230 | 0.1284685 | 0.26817480 | 2.3815374 | 20 | — | — |
| 202100 2004 $TV_{34}$ | 16.6 | X | 228.90897 | 249.24981 | 21.73127 | 8.77630 | 0.1920532 | 0.27769185 | 2.3268084 | 20 | — | — |
| 202101 2004 $TA_{35}$ | 17.1 | X | 94.29939 | 354.88700 | 20.26197 | 3.93812 | 0.1494983 | 0.26840594 | 2.3801700 | 20 | — | — |
| 202102 2004 $TB_{36}$ | 17.4 | X | 171.14310 | 85.80560 | 209.73497 | 0.82358 | 0.1845547 | 0.27039198 | 2.3685007 | 20 | — | — |
| 202103 2004 $TK_{36}$ | 16.9 | X | 260.61110 | 203.21284 | 10.54252 | 1.09199 | 0.1378617 | 0.26882297 | 2.3777077 | 20 | — | — |
| 202104 2004 $TV_{40}$ | 17.2 | X | 228.08981 | 256.83504 | 17.21438 | 5.59996 | 0.2207295 | 0.27823966 | 2.3237533 | 20 | — | — |
| 202105 2004 $TJ_{41}$ | 16.5 | X | 3.38611 | 259.99321 | 154.16994 | 2.34930 | 0.2069827 | 0.25631211 | 2.4544638 | 20 | — | — |
| 202106 2004 $TH_{42}$ | 16.7 | X | 279.15106 | 38.01919 | 337.12001 | 3.12459 | 0.2016790 | 0.23613585 | 2.5923568 | 20 | 6 29.9 | 20.1 |
| 202107 2004 $TB_{49}$ | 17.0 | X | 77.49828 | 247.50104 | 55.89244 | 2.06754 | 0.1814088 | 0.25441301 | 2.4666631 | 20 | 12 17.8 | 20.6 |
| 202108 2004 $TQ_{52}$ | 17.3 | X | 101.69453 | 339.70081 | 14.98621 | 1.30307 | 0.1939390 | 0.26520194 | 2.3993020 | 20 | — | — |
| 202109 2004 $TZ_{53}$ | 17.1 | X | 33.53662 | 36.88905 | 46.15127 | 2.81266 | 0.1825743 | 0.26407349 | 2.4061323 | 20 | — | — |
| 202110 2004 $TC_{55}$ | 16.3 | X | 26.61272 | 62.09356 | 207.90095 | 7.69304 | 0.1329984 | 0.23653307 | 2.5894536 | 20 | 8 18.1 | 19.4 |
| 202111 2004 $TL_{59}$ | 17.6 | X | 15.79831 | 301.77285 | 159.79879 | 2.11439 | 0.1744536 | 0.26670844 | 2.3902585 | 20 | — | — |
| 202112 2004 $TT_{72}$ | 17.1 | X | 132.89898 | 270.71038 | 9.64630 | 1.40383 | 0.1694122 | 0.26004282 | 2.4309320 | 20 | — | — |
| 202113 2004 $TJ_{104}$ | 16.6 | X | 274.30654 | 236.46737 | 86.16150 | 7.68828 | 0.1638257 | 0.29167362 | 2.2518422 | 20 | 4 19.7 | 19.6 |
| 202114 2004 $TM_{113}$ | 16.5 | X | 177.54970 | 136.48570 | 214.03482 | 4.86731 | 0.0578405 | 0.21340568 | 2.7733120 | 20 | 2 16.3 | 20.6 |
| 202115 2004 $TZ_{115}$ | 16.8 | X | 105.01188 | 260.34848 | 71.88304 | 4.87556 | 0.1840563 | 0.26648875 | 2.3915720 | 20 | — | — |
| 202116 2004 $TC_{116}$ | 16.7 | X | 43.89847 | 289.28760 | 68.78654 | 8.20091 | 0.1753817 | 0.25803093 | 2.4435517 | 20 | — | — |
| 202117 2004 $TO_{116}$ | 16.5 | X | 53.77001 | 34.31059 | 319.23652 | 5.01447 | 0.1184433 | 0.25727981 | 2.4483053 | 20 | — | — |
| 202118 2004 $TE_{118}$ | 16.1 | X | 357.23221 | 289.02956 | 34.87440 | 14.02694 | 0.1179609 | 0.24406236 | 2.5359198 | 20 | 9 23.5 | 18.9 |
| 202119 2004 $TD_{121}$ | 16.2 | X | 254.31520 | 215.58708 | 358.82187 | 9.98248 | 0.0237781 | 0.26776401 | 2.3839725 | 20 | — | — |
| 202120 2004 $TL_{121}$ | 17.5 | X | 36.40567 | 46.75572 | 351.41462 | 1.69062 | 0.1725909 | 0.26078955 | 2.4262894 | 20 | — | — |
| 202121 2004 $TL_{124}$ | 16.3 | X | 67.91169 | 67.47585 | 33.44785 | 9.23906 | 0.0470345 | 0.27933218 | 2.3176903 | 20 | 2 15.9 | 19.1 |
| 202122 2004 $TY_{127}$ | 16.4 | X | 177.07546 | 228.31508 | 48.40139 | 3.20282 | 0.0644603 | 0.26669527 | 2.3903372 | 20 | — | — |
| 202123 2004 $TC_{131}$ | 16.8 | X | 205.61666 | 107.79561 | 233.49386 | 1.98934 | 0.1874607 | 0.28204961 | 2.3027796 | 20 | 2 29.9 | 20.6 |
| 202124 2004 $TM_{146}$ | 17.3 | X | 108.11722 | 129.46368 | 194.62346 | 12.26284 | 0.2119268 | 0.26395805 | 2.4068338 | 20 | — | — |
| 202125 2004 $TQ_{150}$ | 17.6 | X | 272.63563 | 247.21357 | 274.76073 | 1.33305 | 0.1542201 | 0.25956368 | 2.4339226 | 20 | — | — |
| 202126 2004 $TZ_{161}$ | 17.1 | X | 120.10332 | 322.58455 | 34.59094 | 3.34677 | 0.0920867 | 0.26795680 | 2.3828289 | 20 | — | — |
| 202127 2004 $TB_{169}$ | 16.4 | X | 34.22184 | 313.79400 | 99.57419 | 3.64028 | 0.1850427 | 0.26200697 | 2.4187676 | 20 | — | — |
| 202128 2004 $TJ_{169}$ | 17.3 | X | 21.74503 | 233.31733 | 156.72842 | 4.76584 | 0.1974651 | 0.25699533 | 2.4501118 | 20 | — | — |
| 202129 2004 $TM_{170}$ | 16.3 | X | 65.51030 | 350.74619 | 71.42516 | 7.78571 | 0.2231636 | 0.26770287 | 2.3843355 | 20 | 1 4.2 | 18.0 |
| 202130 2004 $TF_{176}$ | 16.4 | X | 297.66556 | 314.21426 | 44.58462 | 3.59150 | 0.2562139 | 0.23696703 | 2.5862913 | 20 | 6 25.5 | 19.3 |
| 202131 2004 $TO_{178}$ | 17.1 | X | 187.82862 | 93.54929 | 187.63467 | 3.16045 | 0.1514117 | 0.27251221 | 2.3561995 | 20 | — | — |
| 202132 2004 $TP_{184}$ | 16.9 | X | 170.04378 | 13.01494 | 249.43618 | 2.09040 | 0.1673003 | 0.26475978 | 2.4019726 | 20 | — | — |
| 202133 2004 $TU_{201}$ | 16.5 | X | 239.34366 | 286.71589 | 0.27316 | 4.21969 | 0.0339442 | 0.21051593 | 2.7986338 | 20 | 2 11.6 | 20.4 |
| 202134 2004 $TX_{202}$ | 16.4 | X | 246.27602 | 9.22225 | 239.82906 | 5.70337 | 0.0933789 | 0.26870751 | 2.3783888 | 20 | — | — |
| 202135 2004 $TH_{209}$ | 17.4 | X | 168.55971 | 292.15747 | 3.98143 | 0.79078 | 0.1617384 | 0.27109446 | 2.3644073 | 20 | — | — |
| 202136 2004 $TA_{211}$ | 15.9 | X | 249.20737 | 69.48776 | 201.27302 | 5.68546 | 0.0155652 | 0.21318576 | 2.7752190 | 20 | 2 1.5 | 19.8 |
| 202137 2004 $TH_{218}$ | 17.4 | X | 188.32644 | 84.14967 | 150.15357 | 1.65930 | 0.1128311 | 0.26201586 | 2.4187129 | 20 | — | — |
| 202138 2004 $TE_{221}$ | 16.4 | X | 117.78154 | 240.51147 | 55.01819 | 9.80979 | 0.2306970 | 0.26294940 | 2.4129848 | 20 | — | — |
| 202139 2004 $TF_{241}$ | 16.8 | X | 270.04662 | 215.71332 | 218.06960 | 4.79844 | 0.1686071 | 0.24329740 | 2.5412325 | 20 | 9 11.2 | 19.9 |
| 202140 2004 $TM_{247}$ | 15.5 | X | 212.58928 | 306.59791 | 96.13664 | 14.45349 | 0.1021349 | 0.22842932 | 2.6503393 | 20 | 6 1.9 | 19.5 |
| 202141 2004 $TX_{272}$ | 16.3 | X | 148.04300 | 247.17148 | 23.10231 | 7.31385 | 0.1892032 | 0.25785170 | 2.4446840 | 20 | — | — |
| 202142 2004 $TA_{273}$ | 15.9 | X | 118.68135 | 132.33731 | 271.17370 | 2.52996 | 0.0988258 | 0.21032695 | 2.8003099 | 20 | 2 20.7 | 20.0 |
| 202143 2004 $TC_{278}$ | 17.1 | X | 238.74243 | 271.56134 | 177.92335 | 3.30797 | 0.1490870 | 0.23780987 | 2.5801768 | 20 | 8 25.3 | 20.8 |
| 202144 2004 $TU_{280}$ | 16.8 | X | 139.57821 | 273.45274 | 14.38757 | 1.92842 | 0.1635493 | 0.25964717 | 2.4334009 | 20 | — | — |
| 202145 2004 $TR_{283}$ | 17.7 | X | 13.19345 | 132.55728 | 178.96552 | 0.81390 | 0.2029449 | 0.24693408 | 2.5162205 | 20 | 10 10.5 | 20.1 |
| 202146 2004 $TO_{290}$ | 15.7 | X | 27.22882 | 300.07766 | 11.92718 | 14.97259 | 0.1471156 | 0.24590347 | 2.5232461 | 20 | 10 21.4 | 18.7 |
| 202147 2004 $TC_{311}$ | 16.0 | X | 217.64690 | 227.07961 | 250.84677 | 13.22547 | 0.1229490 | 0.24087343 | 2.5582528 | 20 | 9 4.5 | 20.1 |
| 202148 2004 $TX_{317}$ | 17.0 | X | 55.79903 | 92.46607 | 218.97772 | 8.57179 | 0.2051293 | 0.25229807 | 2.4804288 | 20 | 12 8.7 | 20.6 |
| 202149 2004 $TH_{324}$ | 16.5 | X | 168.90096 | 218.94287 | 61.47325 | 4.74892 | 0.0772212 | 0.26094827 | 2.4253054 | 20 | — | — |
| 202150 2004 $TJ_{337}$ | 17.2 | X | 260.92096 | 117.36552 | 262.63790 | 0.21995 | 0.1337417 | 0.23542993 | 2.5975361 | 20 | 6 22.5 | 20.6 |
| 202151 2004 $TL_{337}$ | 17.4 | X | 68.67919 | 92.58858 | 222.21229 | 0.73540 | 0.1927692 | 0.25689915 | 2.4507232 | 20 | 12 24.9 | 21.2 |
| 202152 2004 $TP_{343}$ | 16.4 | X | 337.82392 | 138.32046 | 210.33997 | 7.97523 | 0.1205741 | 0.24190941 | 2.5509437 | 20 | 9 13.9 | 19.1 |
| 202153 2004 $TT_{343}$ | 16.8 | X | 50.86234 | 33.23923 | 62.97225 | 3.81736 | 0.1525766 | 0.26947801 | 2.3738530 | 20 | 1 17.8 | 18.8 |
| 202154 2004 $TB_{345}$ | 16.0 | X | 288.47628 | 358.38321 | 52.29364 | 15.47330 | 0.0935892 | 0.24000895 | 2.5643921 | 20 | 9 29.8 | 19.3 |
| 202155 2004 $TX_{368}$ | 16.1 | X | 325.06901 | 94.63172 | 226.00982 | 12.47072 | 0.2152640 | 0.23527160 | 2.5987014 | 20 | 6 27.4 | 18.7 |
| 202156 2004 $US_{7}$ | 16.3 | X | 228.51725 | 87.05880 | 25.40808 | 12.58871 | 0.2143063 | 0.23833738 | 2.5763682 | 20 | 9 11.0 | 20.3 |
| 202157 2004 $VV_{2}$ | 16.8 | X | 215.80758 | 61.41993 | 220.14964 | 4.44707 | 0.0886846 | 0.27111663 | 2.3642784 | 20 | — | — |
| 202158 2004 $VX_{5}$ | 17.1 | X | 4.88261 | 349.46560 | 95.41657 | 2.14574 | 0.1613296 | 0.25903221 | 2.4372507 | 20 | — | — |
| 202159 2004 $VC_{7}$ | 16.4 | X | 333.98518 | 259.35060 | 180.08149 | 4.16362 | 0.1455132 | 0.25268255 | 2.4779120 | 20 | — | — |
| 202160 2004 $VR_{15}$ | 16.7 | X | 111.66586 | 63.86676 | 235.54417 | 7.40718 | 0.2029487 | 0.25827628 | 2.4420040 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202161 2004 $VE_{22}$ | 16.8 | X | 49.97029 | 19.61354 | 84.99272 | 4.08853 | 0.1343468 | 0.26880234 | 2.3778294 | 20 | 1 27.8 | 18.9 |
| 202162 2004 $VU_{25}$ | 17.1 | X | 304.60669 | 309.53843 | 40.23616 | 6.90834 | 0.3143690 | 0.23782275 | 2.5800837 | 20 | 6 12.7 | 19.8 |
| 202163 2004 $VL_{29}$ | 17.0 | X | 339.02691 | 112.96097 | 70.68157 | 3.72998 | 0.0895579 | 0.27200239 | 2.3591428 | 20 | 1 18.7 | 19.7 |
| 202164 2004 $VA_{41}$ | 16.6 | X | 20.70059 | 81.40797 | 221.32114 | 4.04220 | 0.1320594 | 0.24074256 | 2.5591798 | 20 | 9 26.7 | 19.6 |
| 202165 2004 $VR_{43}$ | 15.9 | X | 189.60254 | 151.17072 | 205.32667 | 5.73082 | 0.0534414 | 0.21440469 | 2.7646906 | 20 | 3 8.0 | 20.0 |
| 202166 2004 $VY_{48}$ | 16.0 | X | 232.83714 | 14.87356 | 102.88772 | 5.68027 | 0.1889450 | 0.23907928 | 2.5710356 | 20 | 9 23.2 | 19.7 |
| 202167 2004 $VQ_{59}$ | 16.1 | X | 273.38098 | 42.35007 | 34.73787 | 5.68650 | 0.1972494 | 0.24078316 | 2.5588921 | 20 | 9 20.3 | 19.0 |
| 202168 2004 $VA_{60}$ | 15.7 | X | 13.13976 | 39.43614 | 255.47972 | 12.03837 | 0.1661262 | 0.23751120 | 2.5823394 | 20 | 8 31.3 | 18.7 |
| 202169 2004 $VD_{60}$ | 15.7 | X | 36.45482 | 286.99738 | 19.61389 | 4.79303 | 0.1934069 | 0.24428131 | 2.5344043 | 20 | 11 5.6 | 19.0 |
| 202170 2004 $VE_{69}$ | 16.8 | X | 2.54376 | 111.70529 | 224.24932 | 2.97947 | 0.1013076 | 0.24061389 | 2.5600921 | 20 | 10 10.2 | 19.5 |
| 202171 2004 $VE_{71}$ | 15.8 | X | 325.36751 | 293.17455 | 61.78276 | 6.24000 | 0.1386223 | 0.23869025 | 2.5738285 | 20 | 9 4.5 | 18.4 |
| 202172 2004 $VH_{87}$ | 16.1 | X | 284.68742 | 349.20078 | 350.80154 | 4.00574 | 0.1655180 | 0.23050272 | 2.6344220 | 20 | 5 24.3 | 19.5 |
| 202173 2004 $WA_{1}$ | 16.4 | X | 275.29822 | 74.57696 | 217.52572 | 12.97808 | 0.0786115 | 0.21979933 | 2.7192667 | 20 | 3 21.1 | 20.4 |
| 202174 2004 $WB_{3}$ | 16.0 | X | 218.21263 | 47.66982 | 88.51958 | 6.55687 | 0.2248283 | 0.23939203 | 2.5687958 | 20 | 9 28.1 | 20.0 |
| 202175 2004 $XQ_{3}$ | 15.5 | X | 0.02937 | 210.80706 | 273.52825 | 24.29958 | 0.1915202 | 0.25951827 | 2.4342065 | 20 | — | — |
| 202176 2004 $XT_{4}$ | 15.9 | X | 268.54278 | 282.94602 | 47.66108 | 10.31493 | 0.1325307 | 0.22330109 | 2.6907632 | 20 | 4 28.3 | 19.7 |
| 202177 2004 $XH_{5}$ | 16.1 | X | 204.33812 | 357.37011 | 63.77830 | 2.30392 | 0.0866554 | 0.22498843 | 2.6772932 | 20 | 6 15.7 | 20.0 |
| 202178 2004 $XV_{7}$ | 16.7 | X | 28.62463 | 308.61855 | 143.84147 | 1.71333 | 0.1497805 | 0.26164529 | 2.4209962 | 20 | — | — |
| 202179 2004 $XU_{11}$ | 15.7 | X | 252.15020 | 279.19844 | 184.65367 | 11.85104 | 0.2175908 | 0.23871078 | 2.5736809 | 20 | 9 20.2 | 19.0 |
| 202180 2004 $XW_{11}$ | 15.8 | X | 257.37288 | 251.63514 | 189.39793 | 13.28671 | 0.1470354 | 0.23674252 | 2.5879261 | 20 | 9 5.2 | 19.4 |
| 202181 2004 $XE_{13}$ | 16.1 | X | 162.54907 | 236.13166 | 230.27073 | 3.09999 | 0.1265269 | 0.22228429 | 2.6989626 | 20 | 6 29.2 | 20.4 |
| 202182 2004 $XV_{18}$ | 16.8 | X | 25.91347 | 283.28387 | 187.91737 | 1.19025 | 0.1422769 | 0.26422648 | 2.4052035 | 20 | — | — |
| 202183 2004 $XE_{21}$ | 17.2 | X | 125.93021 | 198.31042 | 196.81277 | 0.97835 | 0.1937525 | 0.27235847 | 2.3570861 | 20 | 2 24.6 | 20.3 |
| 202184 2004 $XC_{22}$ | 15.5 | X | 282.55367 | 172.90755 | 262.50444 | 12.69603 | 0.1638902 | 0.24021690 | 2.5629119 | 20 | 9 29.2 | 18.7 |
| 202185 2004 $XN_{27}$ | 16.4 | X | 218.23750 | 68.16306 | 69.07616 | 1.58698 | 0.1291856 | 0.23761632 | 2.5815777 | 20 | 10 6.8 | 20.2 |
| 202186 2004 $XM_{32}$ | 16.5 | X | 12.69413 | 23.63983 | 72.93086 | 2.59258 | 0.0832254 | 0.25997449 | 2.4313579 | 20 | — | — |
| 202187 2004 $XS_{37}$ | 15.2 | X | 250.34809 | 219.33781 | 67.54767 | 18.08940 | 0.1298259 | 0.21176349 | 2.7876313 | 20 | 2 22.1 | 19.9 |
| 202188 2004 $XZ_{40}$ | 15.4 | X | 197.92313 | 114.94841 | 74.54354 | 14.04234 | 0.1026046 | 0.24067992 | 2.5596238 | 20 | 11 23.6 | 19.1 |
| 202189 2004 $XQ_{43}$ | 16.0 | X | 159.62092 | 204.40260 | 111.77523 | 3.27528 | 0.0824352 | 0.19883726 | 2.9071729 | 20 | — | — |
| 202190 2004 $XZ_{46}$ | 16.1 | X | 252.14257 | 205.71917 | 188.17312 | 1.61812 | 0.1110237 | 0.22799595 | 2.6536967 | 20 | 7 3.1 | 19.7 |
| 202191 2004 $XA_{48}$ | 16.6 | X | 85.39106 | 174.80790 | 47.61827 | 4.58913 | 0.1024928 | 0.22733215 | 2.6588600 | 20 | 9 4.7 | 20.3 |
| 202192 2004 $XO_{50}$ | 15.5 | X | 230.85481 | 288.41124 | 92.34863 | 8.20325 | 0.1148529 | 0.21938600 | 2.7226811 | 20 | 5 22.9 | 19.5 |
| 202193 2004 $XX_{56}$ | 16.3 | X | 273.09241 | 176.06313 | 234.20309 | 1.28069 | 0.1787792 | 0.23417700 | 2.6067930 | 20 | 8 12.2 | 19.5 |
| 202194 2004 $XV_{57}$ | 16.3 | X | 213.23524 | 218.75297 | 243.43478 | 1.65123 | 0.0480274 | 0.23015188 | 2.6370986 | 20 | 8 22.8 | 19.9 |
| 202195 2004 $XS_{64}$ | 16.6 | X | 96.72869 | 184.91676 | 295.43029 | 8.72319 | 0.1370990 | 0.27945795 | 2.3169949 | 20 | 5 2.4 | 19.6 |
| 202196 2004 $XE_{71}$ | 15.3 | X | 126.85488 | 247.80246 | 256.27759 | 13.05939 | 0.1454009 | 0.21845738 | 2.7303913 | 20 | 7 10.4 | 19.6 |
| 202197 2004 $XQ_{73}$ | 16.0 | X | 280.74463 | 126.02986 | 277.38171 | 3.75685 | 0.1286517 | 0.23789536 | 2.5795586 | 20 | 8 21.9 | 19.1 |
| 202198 2004 $XW_{76}$ | 16.0 | X | 218.55244 | 39.13158 | 71.04145 | 28.86054 | 0.0415230 | 0.23660124 | 2.5889562 | 20 | 10 1.6 | 20.3 |
| 202199 2004 $XW_{77}$ | 15.7 | X | 18.05714 | 259.44205 | 78.43313 | 14.67543 | 0.2321366 | 0.24558707 | 2.5254128 | 20 | 11 30.1 | 18.6 |
| 202200 2004 $XN_{81}$ | 15.5 | X | 218.58228 | 260.62756 | 107.75711 | 6.12474 | 0.1324972 | 0.21809842 | 2.7333864 | 20 | 4 24.5 | 19.8 |
| 202201 2004 $XC_{82}$ | 16.8 | X | 222.71569 | 218.16831 | 231.43604 | 3.51715 | 0.1762057 | 0.23215471 | 2.6219096 | 20 | 8 3.3 | 20.8 |
| 202202 2004 $XB_{84}$ | 16.1 | X | 333.94360 | 97.07690 | 12.38967 | 1.87549 | 0.1084426 | 0.25204620 | 2.4820810 | 20 | — | — |
| 202203 2004 $XK_{86}$ | 16.7 | X | 34.81263 | 297.20175 | 123.95807 | 3.16463 | 0.1720479 | 0.25627031 | 2.4547307 | 20 | — | — |
| 202204 2004 $XK_{88}$ | 16.1 | X | 308.32565 | 48.14532 | 38.49115 | 2.40386 | 0.1207803 | 0.24628874 | 2.5206140 | 20 | 12 14.4 | 18.7 |
| 202205 2004 $XB_{100}$ | 16.6 | X | 78.95003 | 195.26249 | 197.59831 | 0.83409 | 0.1837499 | 0.26055788 | 2.4277273 | 20 | — | — |
| 202206 2004 $XJ_{101}$ | 15.3 | X | 138.84899 | 229.25871 | 288.82452 | 11.56672 | 0.1082976 | 0.22384955 | 2.6863663 | 20 | 8 7.2 | 19.5 |
| 202207 2004 $XT_{101}$ | 16.1 | X | 320.15308 | 358.92514 | 34.93282 | 6.40044 | 0.3105805 | 0.24059224 | 2.5602457 | 20 | 10 13.3 | 17.2 |
| 202208 2004 $XB_{103}$ | 15.8 | X | 310.52352 | 342.17125 | 73.86330 | 15.48155 | 0.2423846 | 0.24134517 | 2.5549181 | 20 | 11 2.4 | 17.9 |
| 202209 2004 $XG_{103}$ | 15.5 | X | 209.27688 | 356.36888 | 73.62667 | 15.55202 | 0.0914289 | 0.22330081 | 2.6907655 | 20 | 7 2.2 | 19.5 |
| 202210 2004 $XA_{105}$ | 15.3 | X | 16.38992 | 247.60900 | 78.69073 | 11.72853 | 0.1549430 | 0.23890822 | 2.5722627 | 20 | 10 31.9 | 18.4 |
| 202211 2004 $XV_{106}$ | 16.3 | X | 259.43849 | 72.92668 | 330.01981 | 2.95301 | 0.1218707 | 0.23151523 | 2.6267355 | 20 | 7 24.1 | 19.7 |
| 202212 2004 $XG_{109}$ | 16.5 | X | 227.25952 | 56.28120 | 325.21255 | 2.83040 | 0.2227737 | 0.22426752 | 2.6830275 | 20 | 5 9.4 | 21.1 |
| 202213 2004 $XQ_{121}$ | 16.6 | X | 218.39244 | 164.95327 | 286.49216 | 2.56487 | 0.1558056 | 0.22860611 | 2.6489728 | 20 | 8 3.8 | 20.6 |
| 202214 2004 $XS_{122}$ | 17.1 | X | 55.16434 | 8.87693 | 91.23154 | 2.15145 | 0.1393466 | 0.26709984 | 2.3879229 | 20 | 1 31.6 | 19.4 |
| 202215 2004 $XT_{122}$ | 16.4 | X | 196.87845 | 68.15699 | 98.71229 | 2.39614 | 0.0507947 | 0.24003146 | 2.5642318 | 20 | 10 29.7 | 19.8 |
| 202216 2004 $XW_{124}$ | 16.5 | X | 39.54067 | 199.14364 | 289.10048 | 4.72672 | 0.1363371 | 0.26904051 | 2.3764258 | 20 | 2 9.6 | 18.7 |
| 202217 2004 $XR_{125}$ | 16.1 | X | 232.48633 | 31.29433 | 23.57018 | 14.63514 | 0.2384462 | 0.22819841 | 2.6521269 | 20 | 6 24.3 | 20.7 |
| 202218 2004 $XX_{128}$ | 16.2 | X | 220.87408 | 343.48767 | 81.11905 | 4.94754 | 0.2029250 | 0.22736748 | 2.6585846 | 20 | 6 29.2 | 20.6 |
| 202219 2004 $XC_{134}$ | 15.0 | X | 223.36704 | 240.56282 | 315.66758 | 5.64532 | 0.0573147 | 0.18719558 | 3.0264883 | 20 | 12 23.7 | 19.4 |
| 202220 2004 $XQ_{146}$ | 15.9 | X | 259.63835 | 17.79714 | 78.29307 | 14.47697 | 0.0951966 | 0.23386941 | 2.6090782 | 20 | 10 16.7 | 19.5 |
| 202221 2004 $XY_{146}$ | 15.8 | X | 208.14688 | 24.29743 | 94.07001 | 12.58635 | 0.1321143 | 0.22987148 | 2.6392427 | 20 | 9 4.9 | 20.0 |
| 202222 2004 $XG_{148}$ | 15.7 | X | 130.44530 | 201.70868 | 310.65504 | 6.77465 | 0.2079469 | 0.21746737 | 2.7386718 | 20 | 7 30.7 | 20.0 |
| 202223 2004 $XV_{176}$ | 16.5 | X | 207.63758 | 149.11607 | 217.74073 | 4.38228 | 0.0642433 | 0.21317336 | 2.7753266 | 20 | 4 11.1 | 20.4 |
| 202224 2004 $XQ_{180}$ | 16.3 | X | 276.32941 | 205.02841 | 295.74957 | 6.91884 | 0.1709690 | 0.24256511 | 2.5463445 | 20 | 12 27.1 | 18.7 |
| 202225 2004 $XH_{191}$ | 15.9 | X | 281.41060 | 341.31960 | 64.85956 | 14.22678 | 0.2014257 | 0.23497127 | 2.6009153 | 20 | 8 23.4 | 19.3 |
| 202226 2004 $XB_{192}$ | 15.8 | X | 285.10166 | 262.32881 | 259.59334 | 4.32330 | 0.2300422 | 0.18451984 | 3.0556763 | 20 | — | — |
| 202227 2004 $YL_{1}$ | 15.5 | X | 105.41450 | 12.88774 | 121.60128 | 15.10904 | 0.1844344 | 0.21341057 | 2.7732697 | 20 | 6 13.6 | 19.8 |
| 202228 2004 $YQ_{4}$ | 15.6 | X | 221.48161 | 144.79897 | 284.12626 | 13.38181 | 0.0362398 | 0.22786954 | 2.6546781 | 20 | 7 20.1 | 19.2 |
| 202229 2004 $YR_{5}$ | 15.5 | X | 179.05292 | 18.69170 | 37.11008 | 26.17290 | 0.1138859 | 0.21604509 | 2.7506782 | 20 | 5 8.4 | 19.9 |
| 202230 2004 $YG_{13}$ | 15.8 | X | 307.35127 | 176.88598 | 108.25945 | 7.21218 | 0.0500105 | 0.21347122 | 2.7727443 | 20 | 5 4.3 | 19.5 |
| 202231 2004 $YM_{16}$ | 16.6 | X | 59.84419 | 311.09621 | 97.81362 | 7.09001 | 0.1185947 | 0.25687077 | 2.4509037 | 20 | — | — |
| 202232 2004 $YV_{21}$ | 15.9 | X | 314.51070 | 293.89354 | 300.25861 | 6.26650 | 0.1806872 | 0.26448935 | 2.4036095 | 20 | 2 6.5 | 18.9 |
| 202233 2004 $YA_{23}$ | 15.9 | X | 332.28457 | 336.82053 | 299.27148 | 2.97140 | 0.0627246 | 0.21326417 | 2.7745387 | 20 | 5 23.5 | 19.3 |
| 202234 2004 $YQ_{26}$ | 16.3 | X | 192.81384 | 333.79240 | 119.87935 | 3.72120 | 0.0480583 | 0.22239729 | 2.6980483 | 20 | 7 17.3 | 20.2 |
| 202235 2004 $YC_{29}$ | 16.9 | X | 44.71661 | 343.83751 | 163.05468 | 2.10642 | 0.1515090 | 0.27083655 | 2.3659081 | 20 | 3 22.7 | 18.7 |
| 202236 2004 $YF_{31}$ | 14.8 | X | 248.47213 | 268.94728 | 125.81687 | 28.81980 | 0.1970124 | 0.22518437 | 2.6757399 | 20 | 6 23.2 | 19.2 |
| 202237 2004 $YF_{35}$ | 15.8 | X | 262.30270 | 234.37636 | 258.95179 | 11.04595 | 0.1501611 | 0.23964727 | 2.5669715 | 20 | 11 24.3 | 18.9 |
| 202238 2005 $AC_{2}$ | 16.6 | X | 325.52658 | 330.66832 | 106.52641 | 2.09648 | 0.1569779 | 0.24461284 | 2.5321138 | 20 | — | — |
| 202239 2005 $AM_{6}$ | 15.4 | X | 229.27245 | 284.84935 | 104.27902 | 14.73668 | 0.0017184 | 0.21762558 | 2.7373443 | 20 | 6 12.9 | 19.1 |
| 202240 2005 $AO_{6}$ | 16.5 | X | 85.01894 | 106.17808 | 270.98537 | 4.98996 | 0.0824244 | 0.25685668 | 2.4509934 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202241 2005 $AB_{7}$ | 15.7 | X | 280.90967 | 287.60622 | 104.99844 | 13.33874 | 0.1026697 | 0.22745505 | 2.6579022 | 20 | 8 14.0 | 19.1 |
| 202242 2005 $AB_{11}$ | 15.4 | X | 88.18480 | 250.92301 | 299.46601 | 11.48631 | 0.1306142 | 0.21721743 | 2.7407722 | 20 | 7 27.7 | 19.3 |
| 202243 2005 $AN_{13}$ | 16.6 | X | 279.33891 | 66.36118 | 332.24841 | 2.41748 | 0.2586066 | 0.23364776 | 2.6107280 | 20 | 7 23.7 | 19.8 |
| 202244 2005 $AW_{13}$ | 16.2 | X | 315.28038 | 345.06986 | 52.40577 | 3.49852 | 0.1423841 | 0.23740487 | 2.5831104 | 20 | 10 15.1 | 18.7 |
| 202245 2005 $AZ_{13}$ | 16.3 | X | 225.60927 | 155.38166 | 24.06362 | 5.07521 | 0.1253874 | 0.24213522 | 2.5493575 | 20 | 12 8.6 | 19.7 |
| 202246 2005 $AE_{14}$ | 15.1 | X | 55.40776 | 57.28136 | 100.07949 | 9.46331 | 0.1059740 | 0.20357173 | 2.8619216 | 20 | 4 29.7 | 18.8 |
| 202247 2005 $AW_{15}$ | 16.2 | X | 251.52275 | 124.66156 | 297.45143 | 3.13461 | 0.0663688 | 0.22834734 | 2.6509737 | 20 | 8 15.8 | 19.8 |
| 202248 2005 $AB_{16}$ | 15.3 | X | 250.07343 | 256.18475 | 126.25625 | 12.99912 | 0.2946595 | 0.22575575 | 2.6712231 | 20 | 5 28.7 | 19.9 |
| 202249 2005 $AS_{16}$ | 16.5 | X | 171.33183 | 187.20407 | 287.41509 | 2.69161 | 0.1648434 | 0.22293407 | 2.6937157 | 20 | 7 18.6 | 20.9 |
| 202250 2005 $AV_{17}$ | 16.2 | X | 143.29093 | 149.00830 | 303.37101 | 7.32572 | 0.2005614 | 0.21449245 | 2.7639364 | 20 | 5 26.5 | 20.8 |
| 202251 2005 $AE_{21}$ | 16.3 | X | 285.75917 | 339.94476 | 57.59519 | 4.79434 | 0.2260878 | 0.23191147 | 2.6237426 | 20 | 8 8.1 | 19.4 |
| 202252 2005 $AN_{22}$ | 16.2 | X | 260.34263 | 18.12579 | 68.61844 | 5.41105 | 0.1805862 | 0.23669006 | 2.5883085 | 20 | 9 17.3 | 19.6 |
| 202253 2005 $AW_{25}$ | 16.4 | X | 269.75429 | 320.21886 | 256.18990 | 3.48264 | 0.1398068 | 0.25553898 | 2.4594119 | 20 | — | — |
| 202254 2005 $AW_{26}$ | 15.6 | X | 110.96648 | 170.09876 | 265.43720 | 6.03906 | 0.1002350 | 0.20364817 | 2.8612055 | 20 | 3 21.1 | 19.8 |
| 202255 2005 $AF_{30}$ | 16.2 | X | 197.37757 | 102.66232 | 30.41621 | 11.02434 | 0.2368283 | 0.22812389 | 2.6527045 | 20 | 9 5.2 | 20.8 |
| 202256 2005 $AA_{31}$ | 16.6 | X | 30.32697 | 15.72668 | 115.03577 | 6.30600 | 0.1476508 | 0.26492629 | 2.4009660 | 20 | 1 28.6 | 18.7 |
| 202257 2005 $AM_{32}$ | 16.3 | X | 56.44826 | 174.11388 | 294.98090 | 6.17323 | 0.1118620 | 0.26553797 | 2.3972774 | 20 | 2 11.6 | 18.6 |
| 202258 2005 $AA_{39}$ | 16.1 | X | 156.21709 | 114.61328 | 101.45761 | 8.39504 | 0.2011576 | 0.23222541 | 2.6213774 | 20 | 11 10.2 | 20.6 |
| 202259 2005 $AA_{40}$ | 15.4 | X | 147.08311 | 112.38701 | 58.92209 | 13.65701 | 0.1042791 | 0.22702623 | 2.6612480 | 20 | 9 12.6 | 19.7 |
| 202260 2005 $AO_{43}$ | 15.4 | X | 243.96155 | 27.23515 | 67.06061 | 18.00839 | 0.1548004 | 0.23069005 | 2.6329956 | 20 | 9 17.2 | 19.5 |
| 202261 2005 $AM_{54}$ | 15.9 | X | 333.95686 | 358.51293 | 41.41727 | 3.77480 | 0.2518959 | 0.24084346 | 2.5584650 | 20 | 12 3.6 | 17.7 |
| 202262 2005 $AO_{55}$ | 16.8 | X | 63.08949 | 300.87759 | 156.86618 | 2.40371 | 0.1000490 | 0.26552411 | 2.3973609 | 20 | 2 6.8 | 19.3 |
| 202263 2005 $AK_{60}$ | 16.0 | X | 248.49510 | 286.48090 | 93.44885 | 5.85838 | 0.1255496 | 0.21994270 | 2.7180849 | 20 | 6 8.3 | 20.0 |
| 202264 2005 $AB_{61}$ | 15.7 | X | 125.70745 | 229.38706 | 305.22857 | 6.27637 | 0.0575076 | 0.22303233 | 2.6929245 | 20 | 8 12.4 | 19.5 |
| 202265 2005 $AY_{63}$ | 16.0 | X | 212.88466 | 195.50894 | 140.52384 | 2.84237 | 0.0657708 | 0.20570839 | 2.8420696 | 20 | 3 11.3 | 20.3 |
| 202266 2005 $AH_{69}$ | 15.9 | X | 106.70258 | 249.46477 | 174.85442 | 2.07217 | 0.0566317 | 0.20241600 | 2.8728050 | 20 | 2 27.8 | 19.9 |
| 202267 2005 $AZ_{69}$ | 16.3 | X | 243.71532 | 307.89681 | 97.99374 | 3.85714 | 0.0438747 | 0.22236631 | 2.6982989 | 20 | 7 18.2 | 20.0 |
| 202268 2005 $AP_{71}$ | 16.7 | X | 233.67192 | 139.07926 | 328.14128 | 2.70490 | 0.0469079 | 0.23101945 | 2.6304922 | 20 | 9 24.8 | 20.3 |
| 202269 2005 $AZ_{72}$ | 16.8 | X | 113.39983 | 77.51357 | 354.23974 | 1.62178 | 0.0492024 | 0.20382830 | 2.8595195 | 20 | 3 15.5 | 20.7 |
| 202270 2005 $AV_{80}$ | 15.9 | X | 210.57534 | 162.22176 | 53.27972 | 2.46564 | 0.0835242 | 0.17934289 | 3.1142008 | 20 | 12 26.8 | 20.6 |
| 202271 2005 $AK_{81}$ | 15.3 | X | 132.68744 | 6.41240 | 103.77817 | 16.22565 | 0.0743050 | 0.21337878 | 2.7735451 | 20 | 6 1.8 | 19.5 |
| 202272 2005 $BA_{3}$ | 15.5 | X | 312.75648 | 237.00202 | 118.06362 | 10.62201 | 0.1864127 | 0.23177572 | 2.6247670 | 20 | 7 30.9 | 17.9 |
| 202273 2005 $BO_{5}$ | 16.5 | X | 295.57049 | 52.12066 | 141.45805 | 5.70468 | 0.1565479 | 0.25403471 | 2.4691113 | 20 | — | — |
| 202274 2005 $BA_{15}$ | 16.3 | X | 239.73730 | 88.90109 | 266.96734 | 4.87901 | 0.0633189 | 0.21439631 | 2.7647626 | 20 | 5 3.4 | 20.2 |
| 202275 2005 $BA_{19}$ | 16.2 | X | 115.67389 | 111.47381 | 15.11741 | 4.94437 | 0.1052205 | 0.21381092 | 2.7698067 | 20 | 6 2.7 | 20.2 |
| 202276 2005 $BO_{20}$ | 15.9 | X | 215.19498 | 297.66975 | 315.11580 | 7.81579 | 0.2169468 | 0.18423541 | 3.0588205 | 20 | — | — |
| 202277 2005 $BH_{22}$ | 16.4 | X | 349.78866 | 287.82533 | 111.31718 | 3.88201 | 0.1964051 | 0.24290019 | 2.5440022 | 20 | 12 30.2 | 18.8 |
| 202278 2005 $BT_{22}$ | 16.3 | X | 245.67179 | 35.62083 | 334.54976 | 4.59949 | 0.0681113 | 0.21592090 | 2.7517328 | 20 | 5 29.0 | 20.3 |
| 202279 2005 $BT_{23}$ | 16.3 | X | 142.98915 | 56.61300 | 72.39159 | 5.65218 | 0.0581081 | 0.21883055 | 2.7272864 | 20 | 7 4.6 | 20.2 |
| 202280 2005 $BC_{26}$ | 16.2 | X | 261.15436 | 275.58213 | 153.52360 | 4.47191 | 0.2322115 | 0.23085560 | 2.6317367 | 20 | 8 13.2 | 19.7 |
| 202281 2005 $BF_{26}$ | 15.6 | X | 260.66157 | 305.61358 | 351.70516 | 6.36984 | 0.0384105 | 0.20347864 | 2.8627945 | 20 | 3 19.3 | 19.7 |
| 202282 2005 $BJ_{26}$ | 15.6 | X | 125.23885 | 275.19430 | 124.78613 | 17.74042 | 0.0793138 | 0.19975210 | 2.8982898 | 20 | 2 26.6 | 19.9 |
| 202283 2005 $BL_{26}$ | 15.9 | X | 236.69104 | 281.58549 | 101.57020 | 6.37261 | 0.0716029 | 0.21846983 | 2.7302877 | 20 | 6 5.4 | 19.8 |
| 202284 2005 $BA_{38}$ | 15.9 | X | 96.74263 | 255.39686 | 95.07659 | 2.44060 | 0.0674289 | 0.18682258 | 3.0305152 | 20 | — | — |
| 202285 2005 $BH_{44}$ | 16.8 | X | 300.77131 | 166.86374 | 160.85941 | 1.46315 | 0.0836689 | 0.21932223 | 2.7232088 | 20 | 6 14.1 | 20.1 |
| 202286 2005 $BM_{46}$ | 15.7 | X | 138.51569 | 214.13422 | 117.59817 | 3.36725 | 0.1442250 | 0.19075146 | 2.9887584 | 20 | — | — |
| 202287 2005 $BJ_{48}$ | 15.6 | X | 316.51643 | 200.58595 | 299.87670 | 5.22792 | 0.0705480 | 0.18465759 | 3.0541564 | 20 | — | — |
| 202288 2005 $CR_{11}$ | 16.0 | X | 74.57595 | 154.30848 | 104.51397 | 2.88277 | 0.0347266 | 0.22635006 | 2.6665454 | 20 | 9 28.8 | 19.5 |
| 202289 2005 $CA_{16}$ | 16.3 | X | 172.77710 | 124.85155 | 143.53630 | 1.70336 | 0.0633061 | 0.24699640 | 2.5157973 | 20 | — | — |
| 202290 2005 $CT_{19}$ | 16.0 | X | 87.95557 | 13.45678 | 306.89825 | 12.87694 | 0.1867987 | 0.24229900 | 2.5482086 | 20 | — | — |
| 202291 2005 $CV_{22}$ | 16.0 | X | 304.56311 | 332.34649 | 89.32749 | 5.59211 | 0.2336382 | 0.23818271 | 2.5774835 | 20 | 10 23.1 | 18.1 |
| 202292 2005 $CY_{24}$ | 16.3 | X | 179.16010 | 207.34278 | 254.48572 | 6.94981 | 0.1691865 | 0.22010872 | 2.7167179 | 20 | 7 8.7 | 20.9 |
| 202293 2005 $CQ_{27}$ | 16.6 | X | 141.44979 | 206.34380 | 219.60063 | 2.17791 | 0.1837222 | 0.20972010 | 2.8057093 | 20 | 4 22.2 | 20.9 |
| 202294 2005 $CR_{28}$ | 16.8 | X | 174.06056 | 45.17629 | 17.05176 | 3.18229 | 0.1698197 | 0.21317637 | 2.7753005 | 20 | 5 15.7 | 21.3 |
| 202295 2005 $CL_{40}$ | 16.8 | X | 203.36936 | 342.21148 | 65.01627 | 4.14031 | 0.1055811 | 0.21585343 | 2.7523062 | 20 | 5 26.6 | 21.0 |
| 202296 2005 $CC_{41}$ | 16.0 | X | 115.96647 | 305.80965 | 111.47082 | 6.76455 | 0.0881443 | 0.20031824 | 2.8928265 | 20 | 3 8.9 | 20.1 |
| 202297 2005 $CH_{43}$ | 16.2 | X | 90.37658 | 250.71269 | 331.34766 | 2.29356 | 0.0428807 | 0.22354780 | 2.6887832 | 20 | 8 30.5 | 19.7 |
| 202298 2005 $CG_{51}$ | 17.1 | X | 192.92781 | 146.22175 | 323.27172 | 6.77889 | 0.2556120 | 0.22286051 | 2.6943084 | 20 | 7 29.2 | 21.9 |
| 202299 2005 $CR_{51}$ | 15.7 | X | 195.82145 | 135.29132 | 322.86280 | 9.90153 | 0.1991511 | 0.22161225 | 2.7044162 | 20 | 7 20.5 | 20.2 |
| 202300 2005 $CL_{52}$ | 15.5 | X | 284.24988 | 147.21965 | 72.44515 | 5.20268 | 0.1535256 | 0.19029212 | 2.9935660 | 20 | — | — |
| 202301 2005 $CE_{53}$ | 16.0 | X | 185.65643 | 10.67063 | 116.07607 | 5.47168 | 0.0500380 | 0.22167747 | 2.7038858 | 20 | 8 22.6 | 19.8 |
| 202302 2005 $CF_{61}$ | 15.9 | X | 210.48057 | 165.94231 | 63.14123 | 4.27881 | 0.0277257 | 0.18051983 | 3.1006502 | 20 | — | — |
| 202303 2005 $CM_{63}$ | 15.6 | X | 113.69275 | 127.51059 | 314.24684 | 14.13965 | 0.1141924 | 0.20400489 | 2.8578691 | 20 | 3 29.5 | 20.0 |
| 202304 2005 $CV_{70}$ | 16.6 | X | 48.64525 | 25.33033 | 82.09972 | 3.22163 | 0.0821528 | 0.19626003 | 2.9325684 | 20 | 2 9.2 | 20.3 |
| 202305 2005 $CX_{78}$ | 15.9 | X | 131.07541 | 275.14370 | 195.31731 | 7.27360 | 0.1913026 | 0.21135332 | 2.7912367 | 20 | 6 7.9 | 20.5 |
| 202306 2005 $CQ_{79}$ | 15.6 | X | 265.23452 | 100.79159 | 144.08338 | 1.45945 | 0.1107745 | 0.18981327 | 2.9985986 | 20 | 1 14.8 | 20.0 |
| 202307 2005 $DQ$ | 15.5 | X | 0.04997 | 345.71994 | 165.86732 | 6.56517 | 0.0762393 | 0.19158619 | 2.9800708 | 20 | 1 22.9 | 19.3 |
| 202308 2005 $DN_{3}$ | 16.5 | X | 59.19257 | 149.36241 | 338.48590 | 6.48540 | 0.0829846 | 0.19915955 | 2.9040358 | 20 | 3 18.9 | 20.3 |
| 202309 2005 $ER_{4}$ | 15.3 | X | 346.26296 | 250.96718 | 158.82791 | 10.37158 | 0.1095456 | 0.17211906 | 3.2007376 | 20 | 12 6.6 | 19.5 |
| 202310 2005 $ER_{11}$ | 16.0 | X | 213.92990 | 56.89152 | 82.04181 | 3.22589 | 0.0250382 | 0.22983487 | 2.6395229 | 20 | 10 16.5 | 19.6 |
| 202311 2005 $EC_{12}$ | 15.3 | X | 237.85014 | 200.46412 | 56.66736 | 3.74363 | 0.0152490 | 0.18961303 | 3.0007094 | 20 | 1 8.3 | 19.6 |
| 202312 2005 $EF_{12}$ | 14.8 | X | 140.49297 | 273.64710 | 354.91830 | 11.47627 | 0.0685068 | 0.17307183 | 3.1889799 | 20 | 12 15.2 | 19.9 |
| 202313 2005 $EO_{13}$ | 15.8 | X | 227.85574 | 114.18047 | 126.80391 | 3.75047 | 0.2224217 | 0.17918005 | 3.1160872 | 20 | — | — |
| 202314 2005 $EM_{18}$ | 14.0 | X | 253.39141 | 276.27568 | 336.97383 | 7.64031 | 0.1344539 | 0.12433416 | 3.9756584 | 20 | 1 20.7 | 20.1 |
| 202315 2005 $ED_{20}$ | 16.3 | X | 115.71572 | 79.23480 | 131.00635 | 3.50161 | 0.1369337 | 0.22177124 | 2.7031235 | 20 | 9 24.3 | 20.5 |
| 202316 2005 $EZ_{28}$ | 15.2 | X | 56.01327 | 78.04366 | 11.66661 | 9.80539 | 0.0678626 | 0.18947955 | 3.0021184 | 20 | 1 30.9 | 19.3 |
| 202317 2005 $ET_{31}$ | 16.0 | X | 194.90102 | 311.49782 | 107.77028 | 4.53491 | 0.0944007 | 0.21131551 | 2.7915696 | 20 | 6 3.0 | 20.2 |
| 202318 2005 $ED_{32}$ | 16.0 | X | 208.60794 | 288.39351 | 280.05626 | 0.21010 | 0.1548947 | 0.17231212 | 3.1983464 | 20 | 12 7.7 | 20.8 |
| 202319 2005 $ED_{47}$ | 15.4 | X | 36.33365 | 209.79754 | 177.86914 | 9.52052 | 0.0766706 | 0.17484350 | 3.1674010 | 20 | — | — |
| 202320 2005 $EO_{49}$ | 16.1 | X | 179.92447 | 248.20987 | 238.56677 | 2.10294 | 0.1222999 | 0.22069031 | 2.7119429 | 20 | 8 11.1 | 20.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202321 2005 $EG_{55}$ | 15.7 | X | 71.23836 | 65.22583 | 347.06499 | 9.75093 | 0.1058827 | 0.18821203 | 3.0155819 | 20 | 1 8.4 | 19.7 |
| 202322 2005 $EV_{58}$ | 15.5 | X | 209.66618 | 65.65014 | 178.23698 | 4.88790 | 0.0841181 | 0.17719782 | 3.1392830 | 20 | — | — |
| 202323 2005 $EH_{61}$ | 15.2 | X | 334.45764 | 187.69773 | 325.75910 | 10.34987 | 0.0722022 | 0.18662683 | 3.0326340 | 20 | — | — |
| 202324 2005 $EG_{68}$ | 15.7 | X | 327.07808 | 321.60775 | 219.28210 | 6.20933 | 0.1676446 | 0.18884963 | 3.0087905 | 20 | 1 1.9 | 19.8 |
| 202325 2005 $EK_{74}$ | 16.4 | X | 135.34231 | 22.41089 | 192.43389 | 1.86653 | 0.1436624 | 0.22700449 | 2.6614180 | 20 | 10 18.6 | 20.4 |
| 202326 2005 $ER_{74}$ | 16.0 | X | 167.46889 | 270.25993 | 302.54021 | 5.35305 | 0.1238371 | 0.23230524 | 2.6207768 | 20 | 11 14.7 | 20.2 |
| 202327 2005 $ER_{75}$ | 16.3 | X | 332.70470 | 156.55936 | 11.62746 | 0.88556 | 0.0378479 | 0.18770244 | 3.0210374 | 20 | 1 12.3 | 20.2 |
| 202328 2005 $EP_{76}$ | 15.5 | X | 223.35920 | 60.75462 | 180.33267 | 5.32575 | 0.1077401 | 0.17927978 | 3.1149316 | 20 | — | — |
| 202329 2005 $EM_{80}$ | 15.6 | X | 324.79357 | 259.11364 | 270.91373 | 2.62475 | 0.1589157 | 0.18566881 | 3.0430569 | 20 | — | — |
| 202330 2005 $EX_{85}$ | 16.5 | X | 277.55633 | 34.82481 | 129.94469 | 7.86320 | 0.0955414 | 0.24356572 | 2.5393658 | 20 | — | — |
| 202331 2005 $EE_{91}$ | 15.2 | X | 169.06223 | 8.34817 | 302.78020 | 6.97554 | 0.0584898 | 0.18293254 | 3.0733268 | 20 | — | — |
| 202332 2005 $ER_{91}$ | 16.0 | X | 268.18142 | 128.68843 | 277.66988 | 4.84549 | 0.0528933 | 0.21969995 | 2.7200867 | 20 | 8 17.1 | 19.7 |
| 202333 2005 $EK_{93}$ | 15.5 | X | 108.44829 | 171.55944 | 104.51830 | 14.68913 | 0.0787468 | 0.23305299 | 2.6151680 | 20 | 12 6.2 | 19.5 |
| 202334 2005 $EV_{96}$ | 15.7 | X | 166.81991 | 287.14427 | 267.74926 | 7.97523 | 0.1798613 | 0.22935782 | 2.6431817 | 20 | 10 19.3 | 20.1 |
| 202335 2005 $EJ_{100}$ | 16.1 | X | 248.83683 | 109.39101 | 132.02674 | 1.61379 | 0.0858365 | 0.18603564 | 3.0390554 | 20 | — | — |
| 202336 2005 $EN_{106}$ | 15.4 | X | 181.91772 | 125.27612 | 120.63486 | 2.10415 | 0.1472689 | 0.17643929 | 3.1482740 | 20 | 12 27.2 | 20.3 |
| 202337 2005 $EN_{108}$ | 15.0 | X | 7.85476 | 159.61473 | 255.45426 | 6.43457 | 0.0463256 | 0.17686174 | 3.1432587 | 20 | — | — |
| 202338 2005 $EV_{110}$ | 16.3 | X | 231.93743 | 200.78503 | 52.98625 | 0.99636 | 0.0597769 | 0.18692360 | 3.0294233 | 20 | — | — |
| 202339 2005 $EB_{112}$ | 15.1 | X | 203.27209 | 206.85327 | 12.35437 | 15.88986 | 0.0451231 | 0.17286738 | 3.1914939 | 20 | 12 26.2 | 20.1 |
| 202340 2005 $EC_{119}$ | 15.0 | X | 124.30436 | 69.30834 | 260.28886 | 8.42251 | 0.0778013 | 0.18074360 | 3.0980905 | 20 | — | — |
| 202341 2005 $EC_{122}$ | 16.3 | X | 263.45932 | 27.86695 | 316.88935 | 2.94004 | 0.1090205 | 0.21089063 | 2.7953178 | 20 | 5 12.1 | 20.2 |
| 202342 2005 $ET_{126}$ | 15.3 | X | 3.77481 | 264.47135 | 187.92307 | 9.33330 | 0.0510739 | 0.17727775 | 3.1383393 | 20 | — | — |
| 202343 2005 $EB_{132}$ | 15.3 | X | 33.65517 | 13.81029 | 100.21583 | 10.72838 | 0.0471948 | 0.19333511 | 2.9620717 | 20 | 1 25.7 | 19.2 |
| 202344 2005 $EU_{136}$ | 16.5 | X | 22.92990 | 309.02679 | 203.11068 | 1.34401 | 0.0572730 | 0.19362104 | 2.9591548 | 20 | 2 26.4 | 20.3 |
| 202345 2005 $EX_{144}$ | 16.0 | X | 211.73212 | 226.34560 | 70.06688 | 1.72917 | 0.0547879 | 0.18773918 | 3.0206433 | 20 | 1 24.6 | 20.4 |
| 202346 2005 $EL_{153}$ | 14.8 | X | 138.84263 | 257.03265 | 88.65364 | 22.87766 | 0.0367714 | 0.18581214 | 3.0414919 | 20 | 1 1.1 | 19.2 |
| 202347 2005 $EJ_{167}$ | 15.6 | X | 88.75392 | 5.93354 | 339.46325 | 3.33028 | 0.0727948 | 0.17503963 | 3.1650345 | 20 | — | — |
| 202348 2005 $ER_{170}$ | 15.6 | X | 246.63005 | 175.84440 | 279.05221 | 12.35808 | 0.1385495 | 0.22897074 | 2.6461597 | 20 | 9 5.3 | 19.6 |
| 202349 2005 $EK_{172}$ | 15.7 | X | 343.33249 | 264.18114 | 315.58425 | 6.57799 | 0.1532214 | 0.19950218 | 2.9007098 | 20 | 3 15.1 | 19.1 |
| 202350 2005 $ER_{173}$ | 15.3 | X | 347.95290 | 241.97040 | 213.36171 | 6.67878 | 0.0826551 | 0.17932202 | 3.1144424 | 20 | — | — |
| 202351 2005 $EQ_{174}$ | 15.5 | X | 95.92578 | 118.60653 | 324.29132 | 4.86875 | 0.1017224 | 0.19648095 | 2.9303698 | 20 | 3 14.5 | 19.5 |
| 202352 2005 $ET_{181}$ | 15.5 | X | 267.24131 | 188.01253 | 49.05739 | 3.30893 | 0.0454230 | 0.18961780 | 3.0006590 | 20 | 1 15.5 | 19.8 |
| 202353 2005 $EF_{189}$ | 14.8 | X | 280.32628 | 221.91538 | 302.03362 | 16.05288 | 0.0965882 | 0.17829776 | 3.1263586 | 20 | — | — |
| 202354 2005 $EN_{194}$ | 15.5 | X | 309.51569 | 300.91495 | 193.66703 | 5.35866 | 0.0199246 | 0.17726515 | 3.1384880 | 20 | — | — |
| 202355 2005 $ED_{201}$ | 15.8 | X | 343.30503 | 28.86747 | 42.42044 | 14.20979 | 0.2103951 | 0.24497863 | 2.5295926 | 20 | — | — |
| 202356 2005 $EF_{214}$ | 16.2 | X | 340.51650 | 110.49628 | 59.29367 | 2.81640 | 0.1367122 | 0.18942574 | 3.0026870 | 20 | 1 12.6 | 19.8 |
| 202357 2005 $EV_{214}$ | 15.6 | X | 241.41540 | 163.47382 | 23.73499 | 2.40774 | 0.0310437 | 0.17612827 | 3.1519792 | 20 | — | — |
| 202358 2005 $EL_{217}$ | 14.9 | X | 327.67898 | 100.49568 | 28.32323 | 13.10208 | 0.0503458 | 0.17983261 | 3.1085445 | 20 | — | — |
| 202359 2005 $EH_{218}$ | 15.7 | X | 71.72129 | 145.00098 | 122.58358 | 12.87898 | 0.1636855 | 0.21933097 | 2.7231365 | 20 | 10 26.9 | 19.9 |
| 202360 2005 $EM_{223}$ | 15.5 | X | 242.61708 | 105.76830 | 104.95967 | 2.45319 | 0.1292099 | 0.17586964 | 3.1550685 | 20 | — | — |
| 202361 2005 $EM_{226}$ | 15.0 | X | 128.20996 | 238.00359 | 87.25746 | 11.37986 | 0.0826468 | 0.18047342 | 3.1011817 | 20 | — | — |
| 202362 2005 $EP_{242}$ | 15.2 | X | 189.94611 | 177.90083 | 102.72140 | 10.99150 | 0.0348842 | 0.18279737 | 3.0748417 | 20 | — | — |
| 202363 2005 $EW_{246}$ | 15.7 | X | 104.67240 | 338.54491 | 64.25154 | 2.69546 | 0.1265550 | 0.19021869 | 2.9943364 | 20 | 2 11.6 | 19.8 |
| 202364 2005 $EJ_{258}$ | 15.7 | X | 252.96194 | 3.39816 | 204.42430 | 4.07077 | 0.0594251 | 0.17822031 | 3.1272643 | 20 | — | — |
| 202365 2005 $EB_{259}$ | 15.1 | X | 324.56065 | 224.64509 | 298.87913 | 9.16576 | 0.0644471 | 0.18821493 | 3.0155509 | 20 | — | — |
| 202366 2005 $EX_{260}$ | 15.5 | X | 104.72243 | 293.00182 | 124.29231 | 4.32487 | 0.0383716 | 0.19294810 | 2.9660312 | 20 | 2 16.2 | 19.6 |
| 202367 2005 $EU_{271}$ | 15.2 | X | 28.01662 | 261.37408 | 145.78918 | 8.97601 | 0.0495100 | 0.17800864 | 3.1297429 | 20 | — | — |
| 202368 2005 $EQ_{275}$ | 15.3 | X | 206.79300 | 295.45968 | 298.89406 | 3.64843 | 0.0998403 | 0.17750682 | 3.1356387 | 20 | — | — |
| 202369 2005 $EH_{276}$ | 15.8 | X | 58.03080 | 315.17788 | 118.60993 | 1.25200 | 0.0632078 | 0.18488806 | 3.0516178 | 20 | 1 10.9 | 19.9 |
| 202370 2005 $EH_{279}$ | 15.0 | X | 296.06482 | 31.50030 | 135.42032 | 14.57968 | 0.0899491 | 0.18021156 | 3.1041852 | 20 | — | — |
| 202371 2005 $EW_{279}$ | 15.1 | X | 252.78137 | 74.59717 | 127.70262 | 7.98485 | 0.0713810 | 0.17830340 | 3.1262926 | 20 | — | — |
| 202372 2005 $ET_{290}$ | 15.9 | X | 108.93958 | 258.93602 | 81.52484 | 1.63545 | 0.1090569 | 0.18257203 | 3.0773712 | 20 | — | — |
| 202373 Ubuntu | 16.0 | X | 162.62700 | 105.74318 | 246.69712 | 1.19507 | 0.0442437 | 0.18763475 | 3.0217639 | 20 | 2 5.8 | 20.4 |
| 202374 2005 $EO_{323}$ | 16.1 | X | 271.80113 | 323.03532 | 143.98038 | 15.44032 | 0.1539056 | 0.23100617 | 2.6305930 | 20 | 11 6.8 | 19.6 |
| 202375 2005 $FY_{12}$ | 15.7 | X | 248.36268 | 302.65972 | 285.78912 | 2.26637 | 0.0586013 | 0.18438249 | 3.0571935 | 20 | — | — |
| 202376 2005 $GY_{13}$ | 14.8 | X | 150.93380 | 206.64066 | 88.57347 | 12.30324 | 0.1323028 | 0.16958744 | 3.2325129 | 20 | — | — |
| 202377 2005 $GQ_{19}$ | 14.9 | X | 323.28287 | 134.09048 | 26.05824 | 12.79796 | 0.0793327 | 0.18134389 | 3.0912497 | 20 | — | — |
| 202378 2005 $GT_{27}$ | 15.8 | X | 178.93747 | 279.58693 | 330.97213 | 5.07697 | 0.1364900 | 0.23497003 | 2.6009244 | 20 | — | — |
| 202379 2005 $GQ_{30}$ | 16.0 | X | 58.20179 | 59.88950 | 43.01652 | 3.30077 | 0.1167431 | 0.19023598 | 2.9941550 | 20 | 2 22.6 | 19.6 |
| 202380 2005 $GS_{31}$ | 15.6 | X | 289.18080 | 267.60199 | 298.36161 | 0.51136 | 0.1683525 | 0.18269248 | 3.0760184 | 20 | — | — |
| 202381 2005 $GG_{34}$ | 15.4 | X | 21.27391 | 355.41563 | 74.44327 | 2.42704 | 0.0347596 | 0.17733342 | 3.1376824 | 20 | — | — |
| 202382 2005 $GJ_{45}$ | 15.2 | X | 248.25086 | 121.55805 | 66.97422 | 11.63446 | 0.0642422 | 0.17432024 | 3.1737363 | 20 | — | — |
| 202383 2005 $GA_{56}$ | 16.0 | X | 49.72712 | 182.80071 | 204.99481 | 3.20952 | 0.1129780 | 0.17608446 | 3.1525019 | 20 | — | — |
| 202384 2005 $GU_{59}$ | 16.0 | X | 281.52994 | 340.08095 | 167.96444 | 1.17605 | 0.1336315 | 0.17322369 | 3.1871160 | 20 | 12 25.6 | 20.1 |
| 202385 2005 $GY_{63}$ | 14.9 | X | 235.72857 | 125.37551 | 67.77643 | 10.26379 | 0.0402563 | 0.17532926 | 3.1615480 | 20 | — | — |
| 202386 2005 $GR_{64}$ | 16.1 | X | 227.29720 | 345.25064 | 155.55777 | 4.83606 | 0.1445996 | 0.22765819 | 2.6563208 | 20 | 10 19.2 | 19.8 |
| 202387 2005 $GR_{74}$ | 15.8 | X | 27.55360 | 243.24099 | 194.69341 | 4.58229 | 0.1313492 | 0.18352056 | 3.0667585 | 20 | — | — |
| 202388 2005 $GL_{75}$ | 16.0 | X | 25.27529 | 77.28204 | 24.16313 | 3.07627 | 0.1013796 | 0.18314558 | 3.0709430 | 20 | — | — |
| 202389 2005 $GJ_{85}$ | 16.2 | X | 359.42995 | 85.91750 | 79.89315 | 2.96639 | 0.1502313 | 0.19165957 | 2.9793101 | 20 | 2 5.4 | 19.5 |
| 202390 2005 $GA_{86}$ | 15.7 | X | 322.03382 | 103.84293 | 29.92724 | 5.95915 | 0.0543767 | 0.17865851 | 3.1221487 | 20 | — | — |
| 202391 2005 $GT_{132}$ | 15.4 | X | 88.26000 | 329.41799 | 47.99171 | 6.87719 | 0.1296070 | 0.17695145 | 3.1421962 | 20 | — | — |
| 202392 2005 $GG_{138}$ | 15.5 | X | 23.42748 | 33.52824 | 34.05589 | 14.39563 | 0.2059127 | 0.17871771 | 3.1214592 | 20 | — | — |
| 202393 2005 $GW_{160}$ | 15.1 | X | 336.34776 | 44.06202 | 150.39621 | 3.18328 | 0.2307954 | 0.18819275 | 3.0157878 | 20 | 1 23.6 | 18.5 |
| 202394 2005 $GM_{175}$ | 15.2 | X | 198.41262 | 197.75164 | 110.48206 | 7.68078 | 0.0091008 | 0.18252319 | 3.0779202 | 20 | 1 24.6 | 19.5 |
| 202395 2005 $GR_{181}$ | 15.3 | X | 30.52966 | 281.77688 | 109.55597 | 2.48927 | 0.1210164 | 0.17052615 | 3.2206390 | 20 | — | — |
| 202396 2005 $HD_{6}$ | 15.0 | X | 7.65901 | 22.19577 | 86.65182 | 15.53660 | 0.0978133 | 0.17595532 | 3.1540442 | 20 | — | — |
| 202397 2005 $JS_{18}$ | 16.2 | X | 325.30528 | 268.35032 | 250.37225 | 0.63532 | 0.1396498 | 0.18015372 | 3.1048496 | 20 | — | — |
| 202398 2005 $JV_{18}$ | 17.7 | X | 202.65888 | 229.64620 | 44.36074 | 2.96142 | 0.1162373 | 0.30545159 | 2.1836069 | 20 | — | — |
| 202399 2005 $JS_{30}$ | 16.3 | X | 242.37347 | 6.71398 | 141.18505 | 2.71602 | 0.1393028 | 0.22901219 | 2.6458404 | 20 | 11 15.8 | 19.9 |
| 202400 2005 $JC_{37}$ | 14.6 | X | 228.65636 | 300.20550 | 254.47320 | 14.22057 | 0.1058124 | 0.17119814 | 3.2122057 | 20 | 12 17.4 | 19.2 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202401 2005 $JR_{69}$ | 15.1 | X | 327.86826 | 243.68142 | 191.87202 | 10.56090 | 0.1119933 | 0.16879722 | 3.2425936 | 20 | 12 8.3 | 19.2 |
| 202402 2005 $JO_{108}$ | 15.1 | X | 142.78711 | 273.70061 | 123.68476 | 11.51709 | 0.1329519 | 0.18434655 | 3.0575909 | 20 | 3 21.7 | 20.0 |
| 202403 2005 $JB_{146}$ | 17.1 | X | 359.14045 | 227.80019 | 53.36334 | 2.94020 | 0.1946336 | 0.26761612 | 2.3848508 | 20 | 7 25.6 | 18.7 |
| 202404 2005 $KB_{1}$ | 15.8 | X | 333.73524 | 304.09368 | 186.10878 | 9.91349 | 0.1919037 | 0.17651774 | 3.1473411 | 20 | — | — |
| 202405 2005 $LX_{6}$ | 15.7 | X | 289.20678 | 87.01869 | 65.64985 | 5.43191 | 0.1326412 | 0.17098717 | 3.2148474 | 20 | — | — |
| 202406 2005 $LO_{14}$ | 15.7 | X | 74.57741 | 340.72588 | 97.47094 | 11.92107 | 0.0700080 | 0.18260013 | 3.0770555 | 20 | 2 11.3 | 19.9 |
| 202407 2005 $LB_{23}$ | 16.3 | X | 263.14127 | 230.39510 | 111.79401 | 1.17203 | 0.1577398 | 0.18789104 | 3.0190155 | 20 | 5 4.2 | 20.7 |
| 202408 2005 $LY_{45}$ | 14.4 | X | 264.86185 | 79.58099 | 104.72187 | 21.90402 | 0.0307771 | 0.16809825 | 3.2515761 | 20 | — | — |
| 202409 2005 $MA_{2}$ | 16.6 | X | 48.26164 | 318.44417 | 240.32385 | 20.59929 | 0.2176574 | 0.39088452 | 1.8525520 | 20 | 7 2.9 | 18.2 |
| 202410 2005 $NP_{56}$ | 17.1 | X | 268.63755 | 145.90522 | 104.91552 | 1.57955 | 0.1001390 | 0.24030715 | 2.5622702 | 20 | 1 19.7 | 20.8 |
| 202411 2005 $RC$ | 17.2 | X | 266.13587 | 40.59320 | 191.97849 | 16.25185 | 0.7514352 | 0.31178580 | 2.1539312 | 20 | — | — |
| 202412 2005 $SQ_{210}$ | 17.1 | X | 215.55419 | 11.71153 | 329.37145 | 4.67281 | 0.1088984 | 0.30471006 | 2.1871481 | 20 | 3 9.1 | 20.2 |
| 202413 2005 $TZ_{183}$ | 16.7 | X | 145.35510 | 329.27635 | 114.92258 | 7.23284 | 0.0621108 | 0.29356238 | 2.2421730 | 20 | 5 10.4 | 19.7 |
| 202414 2005 $UV_{19}$ | 17.2 | X | 43.99722 | 86.87609 | 36.15765 | 4.30139 | 0.0275476 | 0.29146320 | 2.2529258 | 20 | 2 4.7 | 19.7 |
| 202415 2005 $UJ_{24}$ | 16.1 | X | 319.41542 | 77.54395 | 284.79286 | 1.19420 | 0.0608931 | 0.18882722 | 3.0090286 | 20 | 8 28.4 | 20.1 |
| 202416 2005 $UK_{95}$ | 17.4 | X | 119.74865 | 358.75619 | 144.48100 | 2.10713 | 0.0717832 | 0.30998681 | 2.1622566 | 20 | 6 29.8 | 20.1 |
| 202417 2005 $UN_{175}$ | 17.0 | X | 243.05465 | 33.57125 | 279.10800 | 2.91920 | 0.2035279 | 0.30197410 | 2.2003389 | 20 | 2 24.3 | 20.4 |
| 202418 2005 $UV_{179}$ | 17.8 | X | 141.09139 | 214.15248 | 202.14559 | 4.74874 | 0.1545072 | 0.29785241 | 2.2205913 | 20 | 4 2.4 | 20.7 |
| 202419 2005 $UP_{251}$ | 17.0 | X | 238.32042 | 297.45011 | 33.25704 | 7.65806 | 0.0193208 | 0.30213284 | 2.1995682 | 20 | 3 31.4 | 19.6 |
| 202420 2005 $UO_{506}$ | 16.7 | X | 64.12874 | 131.32406 | 91.22437 | 2.52783 | 0.0916167 | 0.22784886 | 2.6548387 | 20 | 8 4.8 | 20.1 |
| 202421 2005 $UQ_{513}$ | 3.5 | X | 228.69158 | 222.45609 | 307.53172 | 25.69942 | 0.1445561 | 0.00345490 | 43.3356691 | 20 | 10 8.7 | 20.4 |
| 202422 2005 $VU_{52}$ | 16.8 | X | 79.91503 | 86.73258 | 85.78426 | 6.54636 | 0.0575774 | 0.30661364 | 2.1780862 | 20 | 6 14.3 | 19.1 |
| 202423 2005 $VV_{118}$ | 16.7 | X | 138.17597 | 90.52493 | 258.07625 | 17.76333 | 0.0747902 | 0.35301444 | 1.9827794 | 20 | — | — |
| 202424 2005 $WX_{63}$ | 17.8 | X | 340.47584 | 50.51434 | 245.82608 | 1.05016 | 0.1967123 | 0.31371639 | 2.1450854 | 20 | 7 5.3 | 18.6 |
| 202425 2005 $WH_{112}$ | 17.2 | X | 226.26127 | 170.00639 | 229.31585 | 4.43034 | 0.0716321 | 0.30927104 | 2.1655915 | 20 | 6 15.2 | 19.8 |
| 202426 2005 $WP_{151}$ | 17.0 | X | 175.06653 | 320.34164 | 58.42340 | 5.42271 | 0.1801822 | 0.29658652 | 2.2269054 | 20 | 3 23.3 | 20.4 |
| 202427 2005 $WQ_{167}$ | 17.2 | X | 225.16164 | 242.20921 | 81.32562 | 6.25528 | 0.2262979 | 0.29906710 | 2.2145745 | 20 | 2 26.2 | 20.9 |
| 202428 2005 $WT_{175}$ | 17.0 | X | 46.74216 | 192.46274 | 66.53752 | 5.49559 | 0.0848091 | 0.31278458 | 2.1493435 | 20 | 9 13.4 | 19.3 |
| 202429 2005 $WD_{176}$ | 17.4 | X | 231.59314 | 300.15275 | 72.07247 | 7.69363 | 0.1448654 | 0.30453451 | 2.1879885 | 20 | 5 8.2 | 20.5 |
| 202430 2005 $WS_{183}$ | 16.9 | X | 35.81719 | 65.66880 | 349.30943 | 6.50711 | 0.1172430 | 0.27765694 | 2.3270034 | 20 | — | — |
| 202431 2005 $WM_{186}$ | 17.8 | X | 91.75431 | 286.81415 | 131.61168 | 1.59027 | 0.2206071 | 0.28337360 | 2.2956013 | 20 | 2 14.4 | 20.0 |
| 202432 2005 $WH_{193}$ | 16.4 | X | 134.55236 | 99.90008 | 262.50129 | 19.26628 | 0.0807431 | 0.35804838 | 1.9641511 | 20 | — | — |
| 202433 2005 $WR_{207}$ | 17.3 | X | 29.30301 | 101.00030 | 292.31819 | 0.50230 | 0.1808920 | 0.26572495 | 2.3961527 | 20 | — | — |
| 202434 2005 $XM_{2}$ | 17.3 | X | 160.89037 | 320.84373 | 83.66269 | 6.46101 | 0.1558296 | 0.29593882 | 2.2301535 | 20 | 4 11.5 | 20.6 |
| 202435 2005 $XH_{8}$ | 17.9 | X | 131.52212 | 159.10270 | 79.71483 | 29.06862 | 0.6915647 | 0.64807213 | 1.3224740 | 20 | 12 12.3 | 19.7 |
| 202436 2005 $XU_{15}$ | 17.5 | X | 269.21612 | 27.80693 | 237.54617 | 2.82198 | 0.2281016 | 0.29308288 | 2.2446178 | 20 | 1 19.3 | 21.1 |
| 202437 2005 $XF_{53}$ | 17.0 | X | 118.12185 | 39.18070 | 234.89979 | 3.80763 | 0.1280958 | 0.26987218 | 2.3715410 | 20 | 12 20.3 | 20.5 |
| 202438 2005 $XU_{79}$ | 17.0 | X | 355.32632 | 177.32449 | 348.12070 | 4.35645 | 0.1658585 | 0.27475495 | 2.3433601 | 20 | 1 7.3 | 19.3 |
| 202439 2005 $XC_{82}$ | 17.9 | X | 256.67045 | 286.62288 | 89.86229 | 4.07193 | 0.0959342 | 0.30965739 | 2.1637899 | 20 | 6 19.7 | 20.5 |
| 202440 2005 $YG_{16}$ | 17.3 | X | 359.38266 | 90.81975 | 125.03390 | 3.26158 | 0.0751360 | 0.29098331 | 2.2554022 | 20 | 4 8.2 | 19.5 |
| 202441 2005 $YZ_{29}$ | 17.0 | X | 249.21935 | 255.40986 | 5.79502 | 3.55340 | 0.1097573 | 0.27840755 | 2.3228190 | 20 | 1 5.9 | 20.3 |
| 202442 2005 $YM_{45}$ | 15.6 | X | 80.16371 | 321.54014 | 274.73768 | 5.47161 | 0.1706316 | 0.24127273 | 2.5554294 | 20 | 9 21.5 | 19.4 |
| 202443 2005 $YE_{58}$ | 17.3 | X | 259.94033 | 73.33426 | 286.38573 | 3.90875 | 0.1592433 | 0.30496570 | 2.1859257 | 20 | 5 19.8 | 20.2 |
| 202444 2005 $YM_{64}$ | 17.0 | X | 276.99930 | 290.81009 | 71.38770 | 2.41051 | 0.1672713 | 0.30949546 | 2.1645446 | 20 | 6 15.8 | 19.3 |
| 202445 2005 $YN_{82}$ | 17.2 | X | 145.88640 | 351.23098 | 245.04747 | 1.68496 | 0.1657186 | 0.25321611 | 2.4744299 | 20 | 11 26.6 | 21.3 |
| 202446 2005 $YQ_{91}$ | 16.6 | X | 249.85245 | 145.23743 | 128.74207 | 6.89765 | 0.1165394 | 0.28155827 | 2.3054579 | 20 | 1 21.3 | 20.0 |
| 202447 2005 $YZ_{98}$ | 16.6 | X | 268.33661 | 170.18677 | 86.92538 | 6.71778 | 0.1408035 | 0.28418454 | 2.2912321 | 20 | 1 17.6 | 19.9 |
| 202448 2005 $YJ_{108}$ | 17.1 | X | 207.37249 | 348.59144 | 233.23162 | 1.74856 | 0.1556156 | 0.26291578 | 2.4131905 | 20 | — | — |
| 202449 2005 $YP_{116}$ | 17.6 | X | 98.21833 | 352.11447 | 79.35296 | 3.41569 | 0.0748571 | 0.28484521 | 2.2876879 | 20 | 2 19.8 | 20.2 |
| 202450 2005 $YR_{126}$ | 17.1 | X | 336.47140 | 195.12485 | 336.49443 | 3.21683 | 0.1814311 | 0.27779259 | 2.3262459 | 20 | — | — |
| 202451 2005 $YU_{139}$ | 16.9 | X | 170.35624 | 94.02650 | 318.66706 | 4.52790 | 0.1502238 | 0.29648214 | 2.2274281 | 20 | 4 26.2 | 20.3 |
| 202452 2005 $YA_{152}$ | 18.3 | X | 120.53770 | 58.54447 | 42.11467 | 1.77163 | 0.1447589 | 0.29438903 | 2.2379736 | 20 | 5 9.1 | 21.3 |
| 202453 2005 $YE_{155}$ | 17.0 | X | 49.93639 | 29.51502 | 97.20803 | 6.44517 | 0.1299158 | 0.28478681 | 2.2880006 | 20 | 2 29.0 | 19.1 |
| 202454 2005 $YX_{173}$ | 16.8 | X | 73.76954 | 20.31067 | 122.15384 | 8.52145 | 0.1665461 | 0.28860026 | 2.2678008 | 20 | 5 12.8 | 19.4 |
| 202455 2005 $YF_{192}$ | 17.0 | X | 195.28196 | 252.47271 | 98.77369 | 4.96479 | 0.1899259 | 0.28930842 | 2.2640986 | 20 | 3 7.0 | 20.6 |
| 202456 2005 $YW_{192}$ | 16.2 | X | 151.12903 | 172.72751 | 117.94078 | 7.57893 | 0.0981251 | 0.26510727 | 2.3998732 | 20 | — | — |
| 202457 2005 $YO_{202}$ | 16.7 | X | 184.28711 | 203.34815 | 105.20400 | 8.58693 | 0.1402607 | 0.28023868 | 2.3126895 | 20 | — | — |
| 202458 2005 $YU_{266}$ | 16.7 | X | 173.72885 | 230.66789 | 12.21652 | 2.46238 | 0.1411887 | 0.25994463 | 2.4315441 | 20 | — | — |
| 202459 2005 $YC_{271}$ | 17.1 | X | 24.53554 | 67.50540 | 102.50341 | 3.48194 | 0.0945055 | 0.28646318 | 2.2790657 | 20 | 3 14.7 | 19.1 |
| 202460 2005 $YG_{280}$ | 17.6 | X | 95.36764 | 226.67527 | 100.50286 | 1.28905 | 0.0821658 | 0.26438505 | 2.4042417 | 20 | — | — |
| 202461 2005 $YY_{286}$ | 16.6 | X | 32.62215 | 257.72396 | 269.69560 | 3.48764 | 0.1657209 | 0.28434449 | 2.2903728 | 20 | 3 25.9 | 18.3 |
| 202462 2006 $AP_{13}$ | 16.8 | X | 27.07237 | 106.91652 | 301.91439 | 13.33848 | 0.0635295 | 0.26595705 | 2.3947584 | 20 | — | — |
| 202463 2006 $AZ_{13}$ | 16.6 | X | 225.18978 | 93.75721 | 120.92634 | 2.10391 | 0.1283516 | 0.26242913 | 2.4161730 | 20 | — | — |
| 202464 2006 $AT_{15}$ | 17.1 | X | 315.29892 | 24.86085 | 261.40292 | 8.07568 | 0.0572206 | 0.30669968 | 2.1776789 | 20 | 5 8.9 | 19.5 |
| 202465 2006 $AR_{18}$ | 17.8 | X | 81.96303 | 247.18878 | 233.71041 | 2.50272 | 0.0985797 | 0.29039747 | 2.2584345 | 20 | 4 7.1 | 20.2 |
| 202466 2006 $AP_{20}$ | 17.2 | X | 61.88549 | 55.68372 | 66.29480 | 5.96621 | 0.0987226 | 0.28634483 | 2.2796936 | 20 | 3 11.7 | 19.6 |
| 202467 2006 $AP_{23}$ | 16.9 | X | 204.79684 | 304.95543 | 319.66056 | 1.89450 | 0.1734546 | 0.26835772 | 2.3804550 | 20 | — | — |
| 202468 2006 $AT_{27}$ | 16.9 | X | 201.72274 | 75.46831 | 166.58277 | 2.79891 | 0.1284077 | 0.26434074 | 2.4045104 | 20 | — | — |
| 202469 2006 $AQ_{30}$ | 17.2 | X | 154.06726 | 239.87942 | 112.14836 | 5.75194 | 0.2294614 | 0.28351322 | 2.2948475 | 20 | 2 1.9 | 20.6 |
| 202470 2006 $AS_{31}$ | 16.8 | X | 175.64269 | 35.30661 | 6.78084 | 5.75218 | 0.0993815 | 0.29643936 | 2.2276424 | 20 | 4 16.5 | 19.9 |
| 202471 2006 $AQ_{38}$ | 17.4 | X | 225.33345 | 147.51180 | 100.82356 | 2.21823 | 0.1511740 | 0.27015143 | 2.3699064 | 20 | — | — |
| 202472 2006 $AL_{42}$ | 17.9 | X | 115.47566 | 176.76203 | 254.92854 | 2.12388 | 0.1121620 | 0.28841574 | 2.2687679 | 20 | 3 17.9 | 20.7 |
| 202473 2006 $AQ_{55}$ | 16.5 | X | 167.65529 | 260.03494 | 100.71633 | 7.49542 | 0.1332835 | 0.28884536 | 2.2665177 | 20 | 2 19.3 | 19.8 |
| 202474 2006 $AO_{70}$ | 17.0 | X | 103.82646 | 236.97421 | 131.69987 | 6.47864 | 0.1669842 | 0.27559403 | 2.3386013 | 20 | — | — |
| 202475 2006 $AZ_{70}$ | 16.3 | X | 63.24831 | 348.70107 | 298.80102 | 4.25919 | 0.1868146 | 0.24667124 | 2.5180076 | 20 | 11 11.9 | 20.0 |
| 202476 2006 $AM_{73}$ | 17.3 | X | 312.19399 | 22.97320 | 163.53700 | 2.86188 | 0.1395941 | 0.27450196 | 2.3447997 | 20 | — | — |
| 202477 2006 $AX_{93}$ | 15.2 | X | 177.11798 | 213.50488 | 329.74307 | 10.67446 | 0.1101328 | 0.17643491 | 3.1483261 | 20 | 10 8.8 | 20.2 |
| 202478 2006 $BD_{2}$ | 17.3 | X | 71.06325 | 190.56856 | 305.33361 | 3.21749 | 0.1083010 | 0.28928008 | 2.2642464 | 20 | 4 12.6 | 19.6 |
| 202479 2006 $BH_{4}$ | 17.4 | X | 245.82484 | 273.29812 | 298.00997 | 0.54570 | 0.1354335 | 0.26666203 | 2.3905359 | 20 | — | — |
| 202480 2006 $BR_{5}$ | 17.0 | X | 316.22227 | 249.54367 | 308.31111 | 1.58290 | 0.1530676 | 0.27572117 | 2.3378823 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202481 2006 $BR_{6}$ | 16.2 | X | 128.90505 | 315.39478 | 319.30877 | 4.67414 | 0.1751273 | 0.25549349 | 2.4597038 | 20 | 12 28.7 | 20.1 |
| 202482 2006 $BG_{11}$ | 16.0 | X | 279.50588 | 262.99554 | 107.14629 | 7.11680 | 0.0507864 | 0.23491662 | 2.6013187 | 20 | 7 17.9 | 19.3 |
| 202483 2006 $BN_{25}$ | 17.1 | X | 124.46745 | 253.77715 | 208.80393 | 1.58583 | 0.0789504 | 0.29300153 | 2.2450333 | 20 | 5 8.7 | 19.9 |
| 202484 2006 $BQ_{33}$ | 16.1 | X | 328.46794 | 184.39423 | 128.94693 | 3.76176 | 0.1199660 | 0.22893611 | 2.6464266 | 20 | 7 5.3 | 18.9 |
| 202485 2006 $BQ_{40}$ | 16.6 | X | 48.23630 | 103.31408 | 148.05874 | 2.51847 | 0.0658495 | 0.23271352 | 2.6177107 | 20 | 8 17.8 | 20.0 |
| 202486 2006 $BU_{46}$ | 16.9 | X | 311.92227 | 43.92635 | 158.32361 | 2.27513 | 0.1658965 | 0.27400036 | 2.3476605 | 20 | — | — |
| 202487 2006 $BF_{50}$ | 16.2 | X | 208.90721 | 144.07181 | 90.28356 | 4.13223 | 0.1440517 | 0.26291178 | 2.4132150 | 20 | — | — |
| 202488 2006 $BK_{50}$ | 17.1 | X | 119.01408 | 37.99390 | 328.64236 | 6.85115 | 0.1313110 | 0.27673529 | 2.3321672 | 20 | — | — |
| 202489 2006 $BQ_{51}$ | 16.5 | X | 190.75604 | 148.30796 | 109.97698 | 3.35133 | 0.1545904 | 0.26298100 | 2.4127915 | 20 | — | — |
| 202490 2006 $BL_{60}$ | 15.9 | X | 345.72923 | 13.00755 | 322.59500 | 3.84312 | 0.2045020 | 0.23842041 | 2.5757701 | 20 | 9 14.5 | 18.0 |
| 202491 2006 $BC_{62}$ | 17.4 | X | 106.28816 | 18.47282 | 49.28434 | 7.81694 | 0.1896791 | 0.28615408 | 2.2807066 | 20 | 3 17.9 | 20.3 |
| 202492 2006 $BG_{65}$ | 18.0 | X | 132.79113 | 271.36677 | 155.51471 | 3.37314 | 0.2229739 | 0.28921892 | 2.2645657 | 20 | 4 16.7 | 21.3 |
| 202493 2006 $BV_{70}$ | 16.4 | X | 324.42863 | 255.67410 | 61.20265 | 5.89647 | 0.2844128 | 0.23359342 | 2.6111329 | 20 | 6 9.4 | 18.7 |
| 202494 2006 $BD_{85}$ | 16.9 | X | 155.21238 | 251.88050 | 43.39169 | 1.90975 | 0.1769991 | 0.26526987 | 2.3988924 | 20 | — | — |
| 202495 2006 $BB_{86}$ | 17.5 | X | 164.88587 | 280.34485 | 115.19297 | 4.85908 | 0.1268115 | 0.29049207 | 2.2579441 | 20 | 4 1.5 | 20.7 |
| 202496 2006 $BW_{91}$ | 15.4 | X | 264.65684 | 191.36291 | 322.39559 | 8.36409 | 0.0763876 | 0.18893835 | 3.0078486 | 20 | 12 21.3 | 19.5 |
| 202497 2006 $BE_{125}$ | 16.7 | X | 65.96622 | 313.49399 | 346.43730 | 2.77046 | 0.1790923 | 0.24473343 | 2.5312819 | 20 | 11 29.7 | 20.4 |
| 202498 2006 $BX_{132}$ | 16.2 | X | 233.56787 | 44.25504 | 198.59026 | 1.61390 | 0.0330231 | 0.19738003 | 2.9214643 | 20 | — | — |
| 202499 2006 $BS_{135}$ | 17.1 | X | 271.35903 | 215.41679 | 354.28644 | 1.82837 | 0.1557346 | 0.26702934 | 2.3883431 | 20 | — | — |
| 202500 2006 $BA_{140}$ | 17.7 | X | 126.66726 | 124.78631 | 268.75096 | 3.44945 | 0.1487930 | 0.28123035 | 2.3072497 | 20 | 2 15.2 | 20.7 |
| 202501 2006 $BS_{145}$ | 15.5 | X | 64.99683 | 213.33791 | 5.93856 | 13.41998 | 0.1978653 | 0.22429941 | 2.6827732 | 20 | 8 22.5 | 19.3 |
| 202502 2006 $BK_{146}$ | 16.8 | X | 194.40754 | 103.10728 | 129.82777 | 2.14243 | 0.1238095 | 0.25937934 | 2.4350757 | 20 | — | — |
| 202503 2006 $BZ_{146}$ | 17.0 | X | 326.76152 | 6.33776 | 189.28148 | 2.94638 | 0.1710482 | 0.27615293 | 2.3354448 | 20 | 1 2.4 | 19.7 |
| 202504 2006 $BK_{148}$ | 16.3 | X | 261.38694 | 330.96693 | 230.64886 | 5.94891 | 0.1174871 | 0.26526295 | 2.3989341 | 20 | — | — |
| 202505 2006 $BK_{149}$ | 16.8 | X | 20.21024 | 340.43345 | 175.88623 | 5.30973 | 0.0922821 | 0.28132074 | 2.3067554 | 20 | 2 12.6 | 19.0 |
| 202506 2006 $BZ_{155}$ | 16.4 | X | 95.76636 | 291.13040 | 346.18886 | 2.94366 | 0.1079702 | 0.24729743 | 2.5137552 | 20 | 11 26.1 | 20.2 |
| 202507 2006 $BW_{164}$ | 17.0 | X | 311.40122 | 5.86171 | 331.43405 | 0.86125 | 0.0832185 | 0.23220915 | 2.6214998 | 20 | 7 15.2 | 20.0 |
| 202508 2006 $BH_{165}$ | 17.1 | X | 31.08237 | 47.72456 | 239.90308 | 1.20846 | 0.0562553 | 0.23786269 | 2.5797948 | 20 | 9 10.7 | 20.2 |
| 202509 2006 $BG_{166}$ | 16.4 | X | 345.68023 | 11.16352 | 323.71382 | 3.56753 | 0.0770592 | 0.23981123 | 2.5658014 | 20 | 9 8.1 | 19.1 |
| 202510 2006 $BZ_{169}$ | 17.1 | X | 297.21581 | 113.17067 | 93.95799 | 1.61330 | 0.0692782 | 0.27335750 | 2.3513398 | 20 | — | — |
| 202511 2006 $BR_{176}$ | 16.2 | X | 346.39935 | 295.49223 | 11.48615 | 4.35007 | 0.2327924 | 0.23501349 | 2.6006038 | 20 | 8 2.4 | 18.0 |
| 202512 2006 $BR_{178}$ | 17.2 | X | 29.25901 | 71.23868 | 334.73591 | 2.06358 | 0.1791932 | 0.26777466 | 2.3839093 | 20 | — | — |
| 202513 2006 $BX_{184}$ | 17.2 | X | 110.71337 | 232.94912 | 100.06992 | 3.57147 | 0.1220119 | 0.26653698 | 2.3912835 | 20 | — | — |
| 202514 2006 $BE_{199}$ | 17.0 | X | 356.75815 | 265.11577 | 184.00810 | 2.28771 | 0.1454321 | 0.26602924 | 2.3943252 | 20 | — | — |
| 202515 2006 $BB_{200}$ | 16.6 | X | 296.85945 | 24.90659 | 172.50402 | 4.04804 | 0.1493555 | 0.26954139 | 2.3734809 | 20 | — | — |
| 202516 2006 $BN_{205}$ | 17.6 | X | 39.08492 | 271.33048 | 115.60812 | 2.00170 | 0.1907616 | 0.26373009 | 2.4082206 | 20 | — | — |
| 202517 2006 $BW_{246}$ | 17.5 | X | 355.54913 | 145.38418 | 347.14766 | 1.08059 | 0.1250400 | 0.27279526 | 2.3545694 | 20 | — | — |
| 202518 2006 $BG_{253}$ | 17.0 | X | 192.17995 | 298.05124 | 285.68333 | 1.46114 | 0.1430765 | 0.25521038 | 2.4615226 | 20 | 12 27.4 | 20.3 |
| 202519 2006 $BA_{260}$ | 16.8 | X | 215.67712 | 343.40736 | 241.50078 | 1.76881 | 0.1341915 | 0.26026117 | 2.4295721 | 20 | — | — |
| 202520 2006 $BL_{270}$ | 16.2 | X | 205.57259 | 273.20467 | 179.69499 | 12.68997 | 0.1616390 | 0.24038527 | 2.5617150 | 20 | 7 22.1 | 20.4 |
| 202521 2006 $BP_{274}$ | 17.5 | X | 287.68508 | 277.95962 | 123.21953 | 2.48171 | 0.1599774 | 0.24252036 | 2.5466577 | 20 | 8 28.0 | 20.4 |
| 202522 2006 $CO_{41}$ | 15.9 | X | 172.30497 | 276.35189 | 317.00343 | 6.85542 | 0.1505260 | 0.18147282 | 3.0897855 | 20 | 12 4.5 | 21.0 |
| 202523 2006 $DZ_{2}$ | 17.1 | X | 301.96944 | 245.08717 | 155.11019 | 4.74777 | 0.1739268 | 0.24617494 | 2.5213907 | 20 | 9 21.4 | 19.4 |
| 202524 2006 $DJ_{4}$ | 17.5 | X | 93.20522 | 30.28743 | 106.67275 | 7.89502 | 0.1600918 | 0.29233528 | 2.2484431 | 20 | 5 29.9 | 20.4 |
| 202525 2006 $DP_{6}$ | 16.5 | X | 195.47330 | 59.70933 | 84.91930 | 2.26228 | 0.1154174 | 0.24077535 | 2.5589474 | 20 | 9 23.6 | 20.3 |
| 202526 2006 $DO_{8}$ | 16.5 | X | 103.26048 | 216.25313 | 100.63916 | 2.51773 | 0.0640946 | 0.18850709 | 3.0124344 | 20 | — | — |
| 202527 2006 $DP_{8}$ | 16.5 | X | 351.87250 | 205.42064 | 144.19772 | 11.45733 | 0.2609854 | 0.24489336 | 2.5301798 | 20 | 11 6.9 | 18.8 |
| 202528 2006 $DW_{8}$ | 16.7 | X | 75.10813 | 113.22040 | 106.86532 | 7.77841 | 0.1295790 | 0.30006211 | 2.2096761 | 20 | 9 1.5 | 19.5 |
| 202529 2006 $DP_{10}$ | 18.1 | X | 75.02876 | 216.62204 | 262.84562 | 0.13820 | 0.1787414 | 0.28710928 | 2.2756452 | 20 | 4 8.6 | 20.4 |
| 202530 2006 $DZ_{16}$ | 15.8 | X | 137.61206 | 161.54407 | 74.30367 | 4.07756 | 0.1491498 | 0.17742472 | 3.1366060 | 20 | 11 8.4 | 20.8 |
| 202531 2006 $DG_{19}$ | 16.8 | X | 356.38815 | 214.18363 | 36.69889 | 2.72699 | 0.0839977 | 0.22319602 | 2.6916076 | 20 | 5 26.1 | 19.9 |
| 202532 2006 $DS_{26}$ | 16.4 | X | 30.91324 | 249.16008 | 359.43809 | 2.78526 | 0.2460374 | 0.22321737 | 2.6914360 | 20 | 8 15.2 | 19.2 |
| 202533 2006 $DY_{32}$ | 17.1 | X | 319.70635 | 341.60749 | 169.67944 | 1.78824 | 0.1060533 | 0.26551193 | 2.3974341 | 20 | — | — |
| 202534 2006 $DB_{37}$ | 16.1 | X | 116.29365 | 303.58281 | 186.06816 | 1.70480 | 0.0136777 | 0.22092157 | 2.7100500 | 20 | 5 28.1 | 19.8 |
| 202535 2006 $DX_{43}$ | 16.9 | X | 50.44050 | 256.40759 | 12.14353 | 1.61300 | 0.0740730 | 0.23871817 | 2.5736278 | 20 | 9 16.1 | 20.2 |
| 202536 2006 $DT_{51}$ | 17.0 | X | 226.95991 | 151.11754 | 64.22764 | 3.45560 | 0.1011178 | 0.26073087 | 2.4266534 | 20 | — | — |
| 202537 2006 $DO_{60}$ | 16.0 | X | 236.23014 | 91.54148 | 195.12526 | 1.64998 | 0.0288416 | 0.20276490 | 2.8695086 | 20 | 2 7.3 | 20.1 |
| 202538 2006 $DM_{61}$ | 16.0 | X | 41.09480 | 40.69554 | 192.20114 | 3.94450 | 0.0725077 | 0.22320207 | 2.6915590 | 20 | 7 11.7 | 19.3 |
| 202539 2006 $DJ_{62}$ | 16.3 | X | 310.91526 | 318.06147 | 220.47084 | 5.78773 | 0.0848352 | 0.26961186 | 2.3730673 | 20 | — | — |
| 202540 2006 $DK_{62}$ | 16.6 | X | 311.39294 | 2.42412 | 201.26640 | 2.35680 | 0.1098080 | 0.27410264 | 2.3470765 | 20 | 1 2.7 | 19.4 |
| 202541 2006 $DA_{78}$ | 17.4 | X | 28.50007 | 255.03666 | 141.68854 | 3.21962 | 0.1356744 | 0.26065796 | 2.4271059 | 20 | — | — |
| 202542 2006 $DN_{92}$ | 16.3 | X | 211.46237 | 212.46328 | 54.94304 | 1.35957 | 0.2241720 | 0.19054381 | 2.9909293 | 20 | — | — |
| 202543 2006 $DB_{94}$ | 16.2 | X | 218.22830 | 304.22998 | 18.65213 | 2.06765 | 0.0331185 | 0.20678436 | 2.8322023 | 20 | 3 2.3 | 20.1 |
| 202544 2006 $DQ_{115}$ | 15.7 | X | 12.92611 | 283.24791 | 64.19949 | 2.37531 | 0.1176585 | 0.24138541 | 2.5546341 | 20 | 11 15.1 | 18.7 |
| 202545 2006 $DC_{124}$ | 17.0 | X | 269.07700 | 326.02732 | 184.40643 | 3.02883 | 0.0299209 | 0.25685049 | 2.4510327 | 20 | — | — |
| 202546 2006 $DW_{127}$ | 16.2 | X | 293.46567 | 352.66870 | 354.80393 | 3.41847 | 0.1940577 | 0.23528172 | 2.5986269 | 20 | 6 12.8 | 19.3 |
| 202547 2006 $DP_{149}$ | 15.6 | X | 48.00988 | 150.11475 | 188.85222 | 10.41770 | 0.1185815 | 0.17802246 | 3.1295809 | 20 | 12 7.1 | 20.1 |
| 202548 2006 $DW_{155}$ | 15.6 | X | 74.77081 | 265.42950 | 61.85486 | 2.46571 | 0.0563198 | 0.18464898 | 3.0542513 | 20 | 12 16.5 | 20.1 |
| 202549 2006 $DO_{172}$ | 17.4 | X | 358.85838 | 106.30566 | 19.56838 | 3.41231 | 0.1442410 | 0.26989462 | 2.3714095 | 20 | — | — |
| 202550 2006 $DJ_{175}$ | 16.8 | X | 344.12043 | 305.88123 | 156.69044 | 6.70585 | 0.0970867 | 0.26343102 | 2.4100429 | 20 | — | — |
| 202551 2006 $DX_{188}$ | 14.4 | X | 214.62576 | 245.82358 | 23.20261 | 4.29511 | 0.1179654 | 0.12491999 | 3.9632192 | 20 | 1 3.4 | 20.5 |
| 202552 2006 $DB_{196}$ | 16.6 | X | 11.46351 | 134.07382 | 94.52037 | 7.62697 | 0.1435822 | 0.28924069 | 2.2644520 | 20 | 5 22.9 | 18.3 |
| 202553 2006 $DY_{197}$ | 16.9 | X | 258.40627 | 289.71535 | 357.24720 | 2.10487 | 0.0432381 | 0.28019511 | 2.3129293 | 20 | 2 24.3 | 19.7 |
| 202554 2006 $DV_{198}$ | 16.3 | X | 119.50395 | 173.19764 | 69.39929 | 15.99796 | 0.0692788 | 0.24313156 | 2.5423880 | 20 | 11 9.3 | 20.0 |
| 202555 2006 $DV_{203}$ | 15.9 | X | 135.01169 | 143.61315 | 86.74455 | 5.45805 | 0.0735688 | 0.24367484 | 2.5386077 | 20 | 11 9.0 | 19.5 |
| 202556 2006 $DQ_{210}$ | 16.7 | X | 317.66970 | 311.04263 | 291.21387 | 2.53745 | 0.1213759 | 0.27938705 | 2.3173868 | 20 | 2 29.4 | 19.4 |
| 202557 2006 $DY_{210}$ | 16.8 | X | 275.73698 | 322.96292 | 237.65066 | 3.46243 | 0.0985014 | 0.26431102 | 2.4046906 | 20 | — | — |
| 202558 2006 $DZ_{214}$ | 16.3 | X | 146.36908 | 150.49846 | 297.80659 | 1.56950 | 0.0551145 | 0.22006049 | 2.7171149 | 20 | 5 15.1 | 20.1 |
| 202559 2006 $DL_{216}$ | 15.6 | X | 137.67994 | 286.05345 | 343.97921 | 9.30230 | 0.0870514 | 0.18269968 | 3.0759376 | 20 | 12 16.7 | 20.5 |
| 202560 2006 $EQ_{7}$ | 16.0 | X | 191.79332 | 83.65322 | 180.42389 | 10.24339 | 0.0797325 | 0.19140674 | 2.9819331 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202561 2006 $EU_9$ | 17.2 | X | 11.15297 | 206.48691 | 50.11157 | 2.47970 | 0.0283676 | 0.22500949 | 2.6771261 | 20 | 6 26.0 | 20.6 |
| 202562 2006 $EG_{17}$ | 15.2 | X | 168.09352 | 40.08992 | 178.14441 | 9.52953 | 0.1705743 | 0.17620527 | 3.1510608 | 20 | 11 14.8 | 20.5 |
| 202563 2006 $ER_{17}$ | 15.6 | X | 92.39948 | 153.07877 | 179.74492 | 10.36929 | 0.0697059 | 0.18462229 | 3.0545457 | 20 | — | — |
| 202564 2006 $EP_{20}$ | 16.7 | X | 52.33264 | 213.29510 | 83.95951 | 2.58496 | 0.1188964 | 0.24519363 | 2.5281137 | 20 | 11 4.5 | 20.1 |
| 202565 2006 $EO_{23}$ | 16.8 | X | 353.73482 | 315.55020 | 336.00190 | 0.90039 | 0.1132201 | 0.22928127 | 2.6437700 | 20 | 7 21.2 | 19.4 |
| 202566 2006 $EQ_{28}$ | 16.9 | X | 23.59120 | 101.09665 | 348.13986 | 5.00710 | 0.1090433 | 0.26852584 | 2.3794614 | 20 | — | — |
| 202567 2006 $EA_{41}$ | 16.4 | X | 143.49643 | 64.67706 | 204.17453 | 4.56805 | 0.1270287 | 0.18022991 | 3.1039745 | 20 | 12 20.7 | 21.4 |
| 202568 2006 $EL_{48}$ | 16.7 | X | 312.23052 | 250.11562 | 69.64108 | 3.62477 | 0.0867448 | 0.22762203 | 2.6566022 | 20 | 6 20.4 | 19.7 |
| 202569 2006 $EX_{50}$ | 17.0 | X | 308.02129 | 274.99582 | 18.63760 | 4.94883 | 0.0954688 | 0.22136278 | 2.7064478 | 20 | 5 5.8 | 20.4 |
| 202570 2006 $ED_{58}$ | 16.0 | X | 12.75059 | 35.61395 | 308.94869 | 3.15304 | 0.1556379 | 0.24276099 | 2.5449746 | 20 | 11 15.7 | 19.0 |
| 202571 2006 $EX_{71}$ | 17.0 | X | 296.27721 | 74.14930 | 349.12333 | 1.79599 | 0.0931433 | 0.24316791 | 2.5421346 | 20 | 10 21.5 | 19.8 |
| 202572 2006 $FP_{11}$ | 15.5 | X | 65.01487 | 292.31725 | 134.24441 | 2.83986 | 0.0541693 | 0.19875319 | 2.9079927 | 20 | 1 7.8 | 19.3 |
| 202573 2006 $FY_{13}$ | 16.1 | X | 205.31144 | 203.69857 | 113.49104 | 1.95836 | 0.0301940 | 0.20109756 | 2.8853478 | 20 | 2 9.8 | 20.3 |
| 202574 2006 $FD_{14}$ | 16.1 | X | 325.34657 | 111.38526 | 179.69011 | 5.23812 | 0.0139731 | 0.21949917 | 2.7217452 | 20 | 6 8.4 | 19.8 |
| 202575 2006 $FM_{14}$ | 15.5 | X | 130.70917 | 182.78271 | 93.49216 | 1.40830 | 0.2390580 | 0.17420837 | 3.1750949 | 20 | 12 19.1 | 20.9 |
| 202576 2006 $FC_{17}$ | 16.3 | X | 266.83995 | 14.03075 | 18.64441 | 1.56016 | 0.0938860 | 0.22898635 | 2.6460394 | 20 | 7 24.3 | 19.7 |
| 202577 2006 $FE_{17}$ | 16.4 | X | 5.52543 | 62.55354 | 193.69071 | 4.55625 | 0.0990636 | 0.21942563 | 2.7223532 | 20 | 6 19.3 | 19.6 |
| 202578 2006 $FZ_{22}$ | 16.7 | X | 325.66432 | 65.88206 | 48.04034 | 3.08284 | 0.0502202 | 0.25623165 | 2.4549776 | 20 | — | — |
| 202579 2006 $FE_{23}$ | 16.1 | X | 146.10969 | 41.17254 | 56.71682 | 2.77663 | 0.0436662 | 0.21810408 | 2.7333392 | 20 | 5 26.8 | 19.9 |
| 202580 2006 $FD_{27}$ | 16.7 | X | 139.21579 | 165.92713 | 27.72959 | 6.27741 | 0.0691140 | 0.23411808 | 2.6072304 | 20 | 9 26.5 | 20.5 |
| 202581 2006 $FP_{31}$ | 16.0 | X | 149.46526 | 139.80191 | 137.16701 | 1.86428 | 0.1721418 | 0.17770279 | 3.1333330 | 20 | — | — |
| 202582 2006 $FW_{36}$ | 15.8 | X | 116.72179 | 172.92200 | 66.88788 | 19.04268 | 0.1254635 | 0.24243290 | 2.5472702 | 20 | 11 6.6 | 19.9 |
| 202583 2006 $FA_{40}$ | 16.6 | X | 336.56931 | 161.72880 | 152.74075 | 4.93225 | 0.0962063 | 0.22672986 | 2.6635666 | 20 | 7 22.7 | 19.5 |
| 202584 2006 $GO_3$ | 15.9 | X | 259.62635 | 206.30988 | 200.48006 | 12.85003 | 0.1151830 | 0.23031015 | 2.6358903 | 20 | 7 26.5 | 19.8 |
| 202585 2006 $GV_{16}$ | 17.3 | X | 309.59518 | 77.28356 | 69.19613 | 3.09436 | 0.1573580 | 0.26092028 | 2.4254788 | 20 | — | — |
| 202586 2006 $GP_{25}$ | 16.6 | X | 308.25075 | 213.01856 | 72.60069 | 1.43317 | 0.0287698 | 0.21408255 | 2.7674633 | 20 | 5 6.3 | 20.2 |
| 202587 2006 $GN_{31}$ | 15.1 | X | 9.60252 | 344.34030 | 41.68751 | 26.62370 | 0.1251555 | 0.17255640 | 3.1953272 | 20 | 12 6.1 | 19.5 |
| 202588 2006 $GM_{36}$ | 15.9 | X | 274.36252 | 17.56412 | 29.98958 | 10.44000 | 0.1215256 | 0.23438657 | 2.6052390 | 20 | 8 25.9 | 19.3 |
| 202589 2006 $GO_{37}$ | 16.0 | X | 99.34644 | 310.63507 | 247.02078 | 11.64332 | 0.1102716 | 0.22563867 | 2.6721471 | 20 | 8 12.8 | 20.1 |
| 202590 2006 $GT_{38}$ | 15.6 | X | 103.12673 | 164.95495 | 24.98310 | 14.19580 | 0.1634904 | 0.22557539 | 2.6726468 | 20 | 8 25.1 | 19.9 |
| 202591 2006 $GU_{47}$ | 15.9 | X | 284.52859 | 201.03966 | 205.83695 | 15.20094 | 0.1176049 | 0.23418753 | 2.6067149 | 20 | 8 31.1 | 19.3 |
| 202592 2006 $GM_{48}$ | 15.4 | X | 28.94081 | 26.40690 | 223.00574 | 11.46164 | 0.1729743 | 0.21944977 | 2.7221536 | 20 | 7 25.9 | 18.7 |
| 202593 2006 $GT_{52}$ | 16.2 | X | 294.12204 | 37.54253 | 96.70636 | 7.61186 | 0.1010890 | 0.25503918 | 2.4626240 | 20 | — | — |
| 202594 2006 $GY_{54}$ | 16.2 | X | 158.49643 | 200.16934 | 141.84298 | 2.48239 | 0.1142258 | 0.19292840 | 2.9662331 | 20 | 1 25.2 | 20.7 |
| 202595 2006 $HY_4$ | 16.2 | X | 183.86471 | 295.49389 | 41.92409 | 2.55103 | 0.0711524 | 0.20311089 | 2.8662490 | 20 | 2 11.9 | 20.4 |
| 202596 2006 $HQ_{16}$ | 15.8 | X | 32.13284 | 82.15655 | 33.14964 | 10.36322 | 0.0595213 | 0.20038319 | 2.8922014 | 20 | 1 26.7 | 19.7 |
| 202597 2006 $HD_{17}$ | 15.3 | X | 87.07215 | 327.04528 | 262.65383 | 12.20953 | 0.1155492 | 0.22930360 | 2.6435983 | 20 | 9 8.9 | 19.4 |
| 202598 2006 $HP_{17}$ | 15.0 | X | 126.72863 | 232.84879 | 57.46057 | 17.54938 | 0.2000828 | 0.17721162 | 3.1391200 | 20 | 12 30.8 | 20.5 |
| 202599 2006 $HS_{18}$ | 17.6 | X | 281.92881 | 69.83663 | 77.79666 | 5.31244 | 0.1497593 | 0.25364555 | 2.4716362 | 20 | — | — |
| 202600 2006 $HT_{20}$ | 16.7 | X | 48.01868 | 187.08335 | 42.52432 | 5.50831 | 0.0958288 | 0.21963428 | 2.7206289 | 20 | 7 23.1 | 20.1 |
| 202601 2006 $HG_{21}$ | 16.1 | X | 225.36268 | 219.31177 | 148.50750 | 5.01630 | 0.0870711 | 0.21294220 | 2.7773347 | 20 | 5 3.1 | 20.2 |
| 202602 2006 $HL_{23}$ | 16.1 | X | 335.93068 | 147.68579 | 105.45371 | 3.08459 | 0.0351339 | 0.21243095 | 2.7817890 | 20 | 5 1.9 | 19.6 |
| 202603 2006 $HL_{24}$ | 15.9 | X | 259.29761 | 180.65820 | 109.25721 | 3.26190 | 0.0322406 | 0.20232456 | 2.8736705 | 20 | 3 11.2 | 20.0 |
| 202604 2006 $HP_{25}$ | 15.8 | X | 229.40306 | 194.48041 | 74.97844 | 4.65802 | 0.0958942 | 0.19095258 | 2.9866594 | 20 | 1 9.2 | 20.4 |
| 202605 Shenchunshan | 16.0 | X | 161.89957 | 182.95259 | 96.36741 | 4.34297 | 0.1875020 | 0.17943781 | 3.1131024 | 20 | — | — |
| 202606 2006 $HU_{34}$ | 15.1 | X | 142.13146 | 262.13656 | 44.53992 | 12.53953 | 0.1648962 | 0.17961124 | 3.1110981 | 20 | — | — |
| 202607 2006 $HC_{39}$ | 15.9 | X | 146.18312 | 358.21486 | 149.80734 | 4.62469 | 0.0422812 | 0.22415668 | 2.6839119 | 20 | 8 1.5 | 19.6 |
| 202608 2006 $HQ_{43}$ | 16.5 | X | 288.36519 | 265.59212 | 4.13060 | 1.50899 | 0.0445894 | 0.20376296 | 2.8601308 | 20 | 3 18.5 | 20.4 |
| 202609 2006 $HL_{44}$ | 16.1 | X | 194.09801 | 23.99780 | 201.43884 | 2.25824 | 0.0485418 | 0.17665671 | 3.1456902 | 20 | 12 23.5 | 20.7 |
| 202610 2006 $HY_{45}$ | 15.6 | X | 146.32973 | 178.32359 | 100.49082 | 2.51308 | 0.1809788 | 0.17930108 | 3.1146849 | 20 | — | — |
| 202611 2006 $HP_{50}$ | 16.6 | X | 16.37298 | 313.50086 | 333.02112 | 1.14706 | 0.0700428 | 0.22792760 | 2.6542272 | 20 | 8 18.8 | 19.9 |
| 202612 2006 $HX_{53}$ | 15.9 | X | 147.33576 | 338.47369 | 204.96465 | 15.47832 | 0.1001513 | 0.23048791 | 2.6345349 | 20 | 9 17.9 | 20.1 |
| 202613 2006 $HE_{55}$ | 15.0 | X | 195.01083 | 227.99921 | 30.21188 | 19.12872 | 0.1788740 | 0.18212421 | 3.0824137 | 20 | — | — |
| 202614 Kayleigh | 15.9 | X | 164.16585 | 259.10016 | 220.85304 | 13.64353 | 0.0965628 | 0.22398150 | 2.6853111 | 20 | 7 14.8 | 20.3 |
| 202615 2006 $HR_{64}$ | 16.3 | X | 139.51732 | 268.50824 | 152.30555 | 3.55121 | 0.1070120 | 0.20595088 | 2.8398383 | 20 | 4 9.1 | 20.6 |
| 202616 2006 $HC_{65}$ | 16.7 | X | 336.92616 | 273.70299 | 98.07662 | 2.37077 | 0.0663931 | 0.23297790 | 2.6157299 | 20 | 10 16.4 | 19.8 |
| 202617 2006 $HC_{67}$ | 15.8 | X | 96.91669 | 186.24528 | 199.88587 | 3.76183 | 0.0955972 | 0.18943204 | 3.0026203 | 20 | 1 6.9 | 19.9 |
| 202618 2006 $HW_{72}$ | 15.3 | X | 80.09575 | 272.66905 | 68.16045 | 20.64526 | 0.1915321 | 0.17280984 | 3.1922023 | 20 | — | — |
| 202619 2006 $HX_{72}$ | 15.3 | X | 128.23266 | 184.50960 | 114.37807 | 5.85301 | 0.1101535 | 0.17584610 | 3.1553501 | 20 | — | — |
| 202620 2006 $HX_{73}$ | 15.3 | X | 134.59509 | 285.40980 | 66.28675 | 12.64030 | 0.0338128 | 0.18956154 | 3.0012527 | 20 | 1 2.9 | 19.6 |
| 202621 2006 $HT_{78}$ | 17.4 | X | 211.21213 | 272.73919 | 221.17832 | 3.10145 | 0.2284187 | 0.23878067 | 2.5731786 | 20 | 9 13.5 | 21.6 |
| 202622 2006 $HN_{79}$ | 15.7 | X | 129.75994 | 253.35243 | 65.80297 | 1.81323 | 0.1540756 | 0.17938418 | 3.1137229 | 20 | — | — |
| 202623 2006 $HK_{80}$ | 15.5 | X | 109.70067 | 311.23380 | 42.47015 | 9.33751 | 0.1087435 | 0.18387726 | 3.0627910 | 20 | — | — |
| 202624 2006 $HU_{80}$ | 16.7 | X | 27.31964 | 201.84931 | 45.68723 | 3.12120 | 0.0386561 | 0.21882485 | 2.7273338 | 20 | 7 8.2 | 20.2 |
| 202625 2006 $HE_{82}$ | 15.1 | X | 155.43348 | 93.03137 | 229.08689 | 20.83520 | 0.0832962 | 0.18608912 | 3.0384731 | 20 | — | — |
| 202626 2006 $HD_{83}$ | 16.2 | X | 339.18137 | 245.83871 | 227.85532 | 9.24238 | 0.0173900 | 0.18375985 | 3.0640954 | 20 | — | — |
| 202627 2006 $HN_{90}$ | 16.3 | X | 199.21290 | 351.63418 | 266.59147 | 1.58516 | 0.1626071 | 0.18288533 | 3.0738557 | 20 | — | — |
| 202628 2006 $HN_{94}$ | 15.8 | X | 120.72839 | 225.62080 | 84.55633 | 2.26900 | 0.1744066 | 0.18011539 | 3.1052900 | 20 | — | — |
| 202629 2006 $HE_{95}$ | 16.0 | X | 212.94992 | 317.47116 | 98.07828 | 5.90559 | 0.0613974 | 0.21902820 | 2.7256455 | 20 | 6 20.1 | 19.7 |
| 202630 2006 $HW_{100}$ | 15.2 | X | 124.17769 | 358.58400 | 67.61059 | 16.32866 | 0.1241236 | 0.20304368 | 2.8668815 | 20 | 4 8.3 | 19.7 |
| 202631 2006 $HK_{117}$ | 16.1 | X | 123.13611 | 219.05414 | 90.47377 | 2.55586 | 0.1342185 | 0.17904284 | 3.1176791 | 20 | — | — |
| 202632 2006 $HN_{120}$ | 16.3 | X | 114.38386 | 343.73543 | 71.55729 | 3.08080 | 0.0606875 | 0.19834926 | 2.9119393 | 20 | 2 28.9 | 20.4 |
| 202633 2006 $HA_{152}$ | 16.4 | X | 281.58050 | 258.31795 | 12.65094 | 1.96060 | 0.0172364 | 0.20313434 | 2.8660284 | 20 | 3 15.8 | 20.3 |
| 202634 2006 $HU_{153}$ | 15.9 | X | 65.60852 | 196.16729 | 226.57988 | 9.71478 | 0.0202870 | 0.19027587 | 2.9937365 | 20 | 1 1.4 | 20.2 |
| 202635 2006 $JD_1$ | 16.6 | X | 251.43434 | 237.14016 | 191.23606 | 7.97554 | 0.1280018 | 0.23403035 | 2.6078819 | 20 | 8 13.7 | 20.3 |
| 202636 2006 $JA_3$ | 16.2 | X | 236.10127 | 283.12904 | 36.74128 | 2.44079 | 0.0636984 | 0.20431857 | 2.8549434 | 20 | 3 17.3 | 20.3 |
| 202637 2006 $JT_4$ | 15.1 | X | 99.09634 | 231.43085 | 69.83004 | 5.76463 | 0.1469892 | 0.17123601 | 3.2117321 | 20 | 12 17.1 | 20.0 |
| 202638 2006 $JC_8$ | 16.4 | X | 12.95411 | 177.51669 | 52.41733 | 6.01947 | 0.0714145 | 0.21348730 | 2.7726051 | 20 | 5 23.8 | 19.6 |
| 202639 2006 $JU_8$ | 17.2 | X | 160.70952 | 130.97225 | 9.28808 | 2.47732 | 0.0466660 | 0.22514885 | 2.6760212 | 20 | 8 10.5 | 20.9 |
| 202640 2006 $JW_{13}$ | 15.9 | X | 280.94290 | 177.79882 | 209.04049 | 3.07778 | 0.1030346 | 0.23207506 | 2.6225095 | 20 | 8 2.7 | 19.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202641 2006 $JE_{15}$ | 16.4 | X | 170.28082 | 186.36987 | 168.34052 | 2.22069 | 0.0986988 | 0.19994763 | 2.8964000 | 20 | 2 18.9 | 20.9 |
| 202642 2006 $JS_{15}$ | 16.3 | X | 58.87682 | 209.70520 | 31.28598 | 3.55766 | 0.0067547 | 0.22508584 | 2.6765207 | 20 | 8 10.2 | 19.8 |
| 202643 2006 $JR_{27}$ | 16.5 | X | 79.47936 | 108.87257 | 75.08016 | 3.23361 | 0.0205311 | 0.21832425 | 2.7315012 | 20 | 6 21.7 | 20.0 |
| 202644 2006 $JU_{33}$ | 16.3 | X | 154.51736 | 135.42703 | 152.95762 | 1.03395 | 0.1424110 | 0.18008746 | 3.1056111 | 20 | — | — |
| 202645 2006 $JD_{34}$ | 15.8 | X | 112.62583 | 214.92490 | 77.13460 | 3.08494 | 0.1579054 | 0.17061515 | 3.2195189 | 20 | 12 19.3 | 20.9 |
| 202646 2006 $JM_{34}$ | 16.4 | X | 273.74015 | 74.70537 | 147.31767 | 0.96116 | 0.0247628 | 0.19156356 | 2.9803055 | 20 | 1 6.4 | 20.6 |
| 202647 2006 $JR_{38}$ | 16.2 | X | 122.86420 | 259.01365 | 211.94178 | 9.00033 | 0.1111941 | 0.21278166 | 2.7787315 | 20 | 5 23.9 | 20.3 |
| 202648 2006 $JK_{42}$ | 15.8 | X | 165.56624 | 256.56448 | 217.28519 | 13.97674 | 0.1497523 | 0.22239508 | 2.6980662 | 20 | 7 9.4 | 20.5 |
| 202649 2006 $JS_{46}$ | 15.6 | X | 219.52208 | 6.84141 | 221.65233 | 16.52396 | 0.1546949 | 0.18271585 | 3.0757561 | 20 | — | — |
| 202650 2006 $JL_{47}$ | 15.7 | X | 131.98493 | 129.33624 | 41.81599 | 15.28998 | 0.0348647 | 0.22674716 | 2.6634312 | 20 | 8 23.3 | 19.7 |
| 202651 2006 $JO_{56}$ | 16.1 | X | 69.56827 | 190.45332 | 24.54203 | 5.51956 | 0.1055749 | 0.22199931 | 2.7012719 | 20 | 8 5.3 | 19.7 |
| 202652 2006 $JA_{58}$ | 15.4 | X | 256.52102 | 178.19077 | 40.93449 | 13.31206 | 0.0542431 | 0.18820273 | 3.0156812 | 20 | — | — |
| 202653 2006 $KW$ | 15.1 | X | 197.12848 | 206.50748 | 74.02672 | 9.70423 | 0.0399997 | 0.18591296 | 3.0403922 | 20 | — | — |
| 202654 2006 $KY_{6}$ | 16.1 | X | 214.68796 | 210.33332 | 238.09787 | 3.87562 | 0.0671961 | 0.22420468 | 2.6835289 | 20 | 8 3.0 | 19.9 |
| 202655 2006 $KK_{10}$ | 16.1 | X | 236.32667 | 117.57321 | 197.50651 | 1.40797 | 0.0570903 | 0.20109436 | 2.8853785 | 20 | 3 11.3 | 20.4 |
| 202656 2006 $KE_{11}$ | 15.7 | X | 129.86403 | 314.56778 | 64.56314 | 12.17953 | 0.0164971 | 0.19256334 | 2.9699808 | 20 | 1 30.7 | 20.1 |
| 202657 2006 $KV_{15}$ | 16.0 | X | 150.90400 | 252.66197 | 158.80808 | 2.43573 | 0.0653349 | 0.20335748 | 2.8639315 | 20 | 4 5.9 | 20.1 |
| 202658 2006 $KW_{20}$ | 16.6 | X | 117.73196 | 316.77013 | 206.02519 | 2.42715 | 0.0801225 | 0.22257587 | 2.6966050 | 20 | 7 20.5 | 20.4 |
| 202659 2006 $KU_{22}$ | 16.3 | X | 20.61441 | 177.77137 | 50.69106 | 5.09791 | 0.0462351 | 0.21289401 | 2.7777538 | 20 | 6 1.4 | 19.7 |
| 202660 2006 $KK_{39}$ | 15.5 | X | 356.26927 | 199.98247 | 90.22219 | 15.58205 | 0.0486935 | 0.21792392 | 2.7348454 | 20 | 7 21.8 | 19.0 |
| 202661 2006 $KR_{49}$ | 16.0 | X | 179.23325 | 112.38842 | 197.83954 | 3.70931 | 0.0786887 | 0.18827228 | 3.0149385 | 20 | 1 6.7 | 20.6 |
| 202662 2006 $KE_{63}$ | 17.1 | X | 252.01172 | 103.04862 | 27.81119 | 1.91856 | 0.0465187 | 0.24336039 | 2.5407940 | 20 | 11 22.5 | 20.3 |
| 202663 2006 $KE_{78}$ | 16.5 | X | 35.64153 | 291.74008 | 173.43927 | 5.52767 | 0.1503329 | 0.26410945 | 2.4059139 | 20 | — | — |
| 202664 2006 $KD_{94}$ | 15.7 | X | 75.43279 | 249.91126 | 144.30412 | 4.98350 | 0.1530723 | 0.18364946 | 3.0653232 | 20 | — | — |
| 202665 2006 $KX_{100}$ | 16.2 | X | 135.28342 | 272.33377 | 256.52074 | 6.81567 | 0.1343491 | 0.22638853 | 2.6662433 | 20 | 8 18.5 | 20.6 |
| 202666 2006 $KG_{101}$ | 16.3 | X | 172.65978 | 103.24095 | 278.38619 | 0.78393 | 0.0503834 | 0.20506676 | 2.8479949 | 20 | 3 22.1 | 20.3 |
| 202667 2006 $KD_{102}$ | 15.9 | X | 180.68600 | 127.11242 | 154.29856 | 8.64283 | 0.1045381 | 0.18143392 | 3.0902271 | 20 | — | — |
| 202668 2006 $KP_{106}$ | 16.9 | X | 103.12398 | 174.38722 | 263.69055 | 3.81371 | 0.1499072 | 0.27640699 | 2.3340135 | 20 | 3 16.2 | 19.8 |
| 202669 2006 $KB_{107}$ | 16.1 | X | 90.63361 | 153.13357 | 15.21191 | 3.92645 | 0.0381709 | 0.21891067 | 2.7266209 | 20 | 6 18.3 | 19.9 |
| 202670 2006 $KC_{115}$ | 16.4 | X | 197.28253 | 83.47959 | 193.58854 | 4.07765 | 0.1424158 | 0.18490837 | 3.0513943 | 20 | — | — |
| 202671 2006 $KA_{121}$ | 15.7 | X | 130.97034 | 358.22261 | 196.00415 | 13.38356 | 0.1594619 | 0.22858931 | 2.6491025 | 20 | 9 17.9 | 20.1 |
| 202672 2006 $KW_{122}$ | 15.4 | X | 101.94613 | 194.62755 | 126.48751 | 10.48130 | 0.0642945 | 0.17459623 | 3.1703908 | 20 | — | — |
| 202673 2006 $LA_{5}$ | 15.7 | X | 237.04434 | 227.83527 | 41.74219 | 3.46331 | 0.2425382 | 0.18893172 | 3.0079190 | 20 | 1 10.3 | 21.0 |
| 202674 2006 $LT_{5}$ | 16.5 | X | 116.27803 | 89.80134 | 135.88050 | 2.65757 | 0.2329043 | 0.23072874 | 2.6327013 | 20 | 10 19.8 | 20.9 |
| 202675 2006 $MB_{1}$ | 15.1 | X | 86.04363 | 264.23591 | 98.07527 | 17.44017 | 0.1411969 | 0.17989728 | 3.1077994 | 20 | — | — |
| 202676 2006 $MH_{8}$ | 15.7 | X | 219.52667 | 295.35588 | 126.93407 | 6.66445 | 0.0234916 | 0.20995075 | 2.8036541 | 20 | 7 10.2 | 19.5 |
| 202677 2006 $QG_{39}$ | 15.1 | X | 179.08886 | 240.74474 | 134.90762 | 12.26027 | 0.0954121 | 0.18792298 | 3.0186733 | 20 | 3 28.9 | 19.9 |
| 202678 2006 $QF_{167}$ | 15.0 | X | 162.34849 | 218.87224 | 143.89381 | 10.91650 | 0.0379260 | 0.17834006 | 3.1258642 | 20 | 2 19.2 | 19.6 |
| 202679 2006 $SG_{142}$ | 16.8 | X | 47.13959 | 254.52785 | 169.14202 | 7.22854 | 0.1255077 | 0.23675854 | 2.5878093 | 20 | — | — |
| 202680 2006 $TV_{63}$ | 14.9 | X | 293.07068 | 138.29695 | 166.71619 | 16.33203 | 0.0712249 | 0.18856932 | 3.0117715 | 20 | 5 9.6 | 19.3 |
| 202681 2006 $UX_{89}$ | 16.2 | X | 162.94922 | 356.55010 | 239.88116 | 7.78229 | 0.0737092 | 0.21569855 | 2.7536235 | 20 | 12 9.7 | 20.2 |
| 202682 2006 $UP_{139}$ | 16.4 | X | 218.22953 | 174.45139 | 104.67364 | 2.53487 | 0.1191769 | 0.23643578 | 2.5901640 | 20 | 1 2.7 | 20.2 |
| 202683 2006 $US_{216}$ | 19.8 | X | 35.77796 | 56.40946 | 193.25192 | 3.43234 | 0.5624407 | 1.93885355 | 0.6369510 | 20 | — | — |
| 202684 2006 $VG_{74}$ | 16.8 | X | 38.74054 | 203.45988 | 182.97819 | 1.19913 | 0.1054651 | 0.21931313 | 2.7232842 | 20 | — | — |
| 202685 2006 $VV_{85}$ | 17.9 | X | 104.26329 | 57.82703 | 227.81170 | 2.12721 | 0.0898832 | 0.28818075 | 2.2700011 | 20 | 12 23.7 | 21.1 |
| 202686 Birkfellner | 16.9 | X | 135.74535 | 202.65366 | 84.21096 | 5.79373 | 0.2083591 | 0.27291432 | 2.3538846 | 20 | — | — |
| 202687 2007 $DJ_{38}$ | 16.8 | X | 74.12046 | 313.92087 | 347.42850 | 3.06522 | 0.1599346 | 0.26192163 | 2.4192930 | 20 | 12 11.4 | 20.4 |
| 202688 2007 $DN_{102}$ | 17.2 | X | 268.03715 | 320.53879 | 295.49027 | 5.04948 | 0.1517907 | 0.29349267 | 2.2425280 | 20 | 1 13.2 | 20.2 |
| 202689 2007 $DR_{111}$ | 16.8 | X | 59.67863 | 291.81519 | 0.93095 | 2.39033 | 0.1970993 | 0.25769327 | 2.4456858 | 20 | 11 18.6 | 20.2 |
| 202690 2007 $EM_{46}$ | 16.9 | X | 344.99396 | 27.42958 | 188.45563 | 4.00392 | 0.0948790 | 0.29996981 | 2.2101293 | 20 | 3 7.8 | 19.0 |
| 202691 2007 $EK_{70}$ | 17.1 | X | 178.65891 | 198.17801 | 83.22922 | 2.86945 | 0.1824735 | 0.27689183 | 2.3312881 | 20 | — | — |
| 202692 2007 $EL_{82}$ | 17.8 | X | 352.95864 | 189.99416 | 64.53922 | 2.64524 | 0.1535492 | 0.30525014 | 2.1845675 | 20 | 5 22.0 | 18.9 |
| 202693 2007 $EC_{120}$ | 16.5 | X | 327.27461 | 292.69463 | 37.98345 | 14.13041 | 0.2166174 | 0.23915575 | 2.5704875 | 20 | 7 26.8 | 19.1 |
| 202694 2007 $EY_{172}$ | 17.4 | X | 177.63486 | 341.35573 | 325.24907 | 1.96379 | 0.1879798 | 0.28108790 | 2.3080291 | 20 | — | — |
| 202695 2007 $EY_{183}$ | 17.1 | X | 178.98788 | 220.34550 | 51.92398 | 2.72209 | 0.1558883 | 0.27849768 | 2.3223179 | 20 | — | — |
| 202696 2007 $ET_{189}$ | 17.8 | X | 300.96630 | 39.49341 | 276.89256 | 1.38851 | 0.1767033 | 0.31314953 | 2.1476732 | 20 | 5 11.8 | 19.6 |
| 202697 2007 $EX_{208}$ | 16.1 | X | 328.31609 | 45.94900 | 173.32538 | 13.85603 | 0.1358903 | 0.22009236 | 2.7168526 | 20 | 2 19.5 | 19.6 |
| 202698 2007 $ER_{209}$ | 16.7 | X | 179.94333 | 319.17184 | 56.07005 | 8.55069 | 0.1996104 | 0.29626273 | 2.2285277 | 20 | 3 25.5 | 20.3 |
| 202699 2007 $EH_{220}$ | 17.2 | X | 119.12588 | 207.78028 | 79.74323 | 1.66295 | 0.1992199 | 0.26251830 | 2.4156258 | 20 | — | — |
| 202700 2007 $FS_{37}$ | 16.7 | X | 1.88343 | 68.40030 | 177.86046 | 2.89528 | 0.1083689 | 0.23183720 | 2.6243030 | 20 | 5 29.9 | 19.6 |
| 202701 2007 $FB_{38}$ | 16.9 | X | 130.27751 | 63.85444 | 27.68381 | 21.15106 | 0.0909012 | 0.38111586 | 1.8840743 | 20 | 4 25.2 | 18.7 |
| 202702 2007 $FT_{42}$ | 16.7 | X | 9.16774 | 148.51261 | 64.52051 | 22.92648 | 0.0433820 | 0.37766475 | 1.8955347 | 20 | 4 25.4 | 18.6 |
| 202703 2007 $FO_{43}$ | 15.2 | X | 257.47612 | 53.46545 | 244.24485 | 13.69018 | 0.1544837 | 0.21678782 | 2.7443919 | 20 | 2 25.3 | 19.8 |
| 202704 Utena | 16.9 | X | 331.65024 | 139.76681 | 104.93680 | 6.24257 | 0.0699919 | 0.29945504 | 2.2126614 | 20 | 4 6.1 | 19.2 |
| 202705 2007 $GH_{16}$ | 17.2 | X | 266.26321 | 108.62558 | 227.61059 | 5.83309 | 0.1704206 | 0.30284581 | 2.1961146 | 20 | 4 22.9 | 19.9 |
| 202706 2007 $GL_{16}$ | 16.4 | X | 243.99168 | 67.01813 | 235.38407 | 2.55472 | 0.1608990 | 0.21561907 | 2.7543002 | 20 | 2 22.9 | 20.7 |
| 202707 2007 $GN_{20}$ | 17.4 | X | 118.44158 | 244.83136 | 61.22064 | 2.30759 | 0.1854440 | 0.26420535 | 2.4053317 | 20 | — | — |
| 202708 2007 $GD_{23}$ | 17.6 | X | 160.89299 | 226.94074 | 51.60368 | 1.81305 | 0.1767439 | 0.26837317 | 2.3803637 | 20 | — | — |
| 202709 2007 $GE_{25}$ | 15.6 | X | 304.76481 | 238.30328 | 35.38261 | 11.71783 | 0.1980312 | 0.22101176 | 2.7093126 | 20 | 3 24.8 | 19.2 |
| 202710 2007 $GR_{26}$ | 16.9 | X | 230.77402 | 187.22332 | 80.51539 | 4.76050 | 0.0916659 | 0.28458723 | 2.2890702 | 20 | — | — |
| 202711 2007 $GS_{54}$ | 17.0 | X | 255.63165 | 194.29404 | 101.47021 | 5.95767 | 0.1134781 | 0.29402644 | 2.2398131 | 20 | 2 25.9 | 20.1 |
| 202712 2007 $GC_{61}$ | 16.9 | X | 317.45377 | 292.39223 | 4.77765 | 3.85640 | 0.0686290 | 0.23196201 | 2.6233615 | 20 | 5 29.0 | 20.2 |
| 202713 2007 $GP_{64}$ | 18.4 | X | 172.96540 | 196.32384 | 226.06752 | 4.05654 | 0.0955016 | 0.30501845 | 2.1856736 | 20 | 5 12.5 | 21.1 |
| 202714 2007 $HZ_{7}$ | 17.1 | X | 261.37827 | 52.63715 | 173.82254 | 6.72947 | 0.0745775 | 0.28368828 | 2.2939034 | 20 | — | — |
| 202715 2007 $HF_{16}$ | 15.9 | X | 350.25321 | 223.88799 | 93.80224 | 5.33007 | 0.2436357 | 0.23799870 | 2.5788119 | 20 | 9 3.9 | 17.7 |
| 202716 2007 $HC_{19}$ | 16.6 | X | 34.91504 | 2.25639 | 262.41240 | 1.18916 | 0.0936630 | 0.24291396 | 2.5439060 | 20 | 8 21.5 | 19.5 |
| 202717 2007 $HC_{20}$ | 17.3 | X | 259.93388 | 44.14484 | 212.71723 | 5.03664 | 0.1679044 | 0.28579044 | 2.2826408 | 20 | 1 5.4 | 20.8 |
| 202718 2007 $HN_{25}$ | 17.4 | X | 80.45997 | 255.18261 | 48.18387 | 1.04649 | 0.2059394 | 0.25595581 | 2.4567411 | 20 | 12 22.6 | 21.3 |
| 202719 2007 $HE_{27}$ | 16.1 | X | 33.70316 | 289.45061 | 29.62748 | 4.75104 | 0.1620934 | 0.17267411 | 3.1938749 | 20 | 10 29.6 | 20.1 |
| 202720 2007 $HF_{35}$ | 16.8 | X | 305.40252 | 310.16598 | 18.95130 | 4.26621 | 0.2214896 | 0.23200266 | 2.6230550 | 20 | 5 31.5 | 19.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202721 2007 $HF_{36}$ | 17.8 | X | 151.65058 | 224.47091 | 220.69965 | 19.11383 | 0.0808746 | 0.38044591 | 1.8862855 | 20 | 5 17.5 | 19.8 |
| 202722 2007 $HU_{43}$ | 16.4 | X | 342.55654 | 105.63479 | 202.40684 | 14.14844 | 0.1279032 | 0.23774785 | 2.5806255 | 20 | 7 21.0 | 19.4 |
| 202723 2007 $HY_{62}$ | 17.4 | X | 16.87865 | 76.82433 | 204.16526 | 8.93264 | 0.1940787 | 0.23892279 | 2.5721581 | 20 | 8 25.9 | 20.1 |
| 202724 2007 $HD_{65}$ | 16.6 | X | 332.59539 | 92.17571 | 203.86404 | 11.88147 | 0.2726150 | 0.23086665 | 2.6316527 | 20 | 5 30.2 | 19.0 |
| 202725 2007 $HG_{75}$ | 16.7 | X | 154.77929 | 172.89893 | 183.37370 | 2.35884 | 0.0850743 | 0.20872618 | 2.8146092 | 20 | 2 2.4 | 20.7 |
| 202726 2007 $HN_{79}$ | 16.5 | X | 155.70420 | 152.79510 | 137.05743 | 10.91442 | 0.1981272 | 0.26846303 | 2.3798325 | 20 | — | — |
| 202727 2007 $HP_{90}$ | 17.2 | X | 321.69530 | 203.97086 | 84.83339 | 6.30615 | 0.1314563 | 0.30457160 | 2.1878109 | 20 | 5 15.9 | 19.1 |
| 202728 2007 $JU_{9}$ | 15.5 | X | 346.08103 | 65.80136 | 244.13881 | 12.02590 | 0.2274246 | 0.23357696 | 2.6112556 | 20 | 7 29.5 | 17.9 |
| 202729 2007 $JK_{12}$ | 15.9 | X | 331.63104 | 139.35644 | 185.08378 | 13.23480 | 0.1508877 | 0.23542531 | 2.5975701 | 20 | 7 23.7 | 18.8 |
| 202730 2007 $JU_{12}$ | 15.9 | X | 2.47562 | 174.72878 | 109.41616 | 11.29515 | 0.1952818 | 0.23380311 | 2.6095715 | 20 | 8 3.3 | 18.1 |
| 202731 2007 $JU_{13}$ | 17.2 | X | 39.62476 | 158.91787 | 50.74432 | 4.37515 | 0.0438923 | 0.30618184 | 2.1801335 | 20 | 6 4.2 | 19.3 |
| 202732 2007 $JW_{15}$ | 16.1 | X | 23.09024 | 218.48100 | 79.21985 | 6.21297 | 0.3081234 | 0.23853350 | 2.5749559 | 20 | 10 26.5 | 19.0 |
| 202733 2007 $JM_{22}$ | 15.7 | X | 314.72971 | 72.46219 | 206.95534 | 10.72574 | 0.0524946 | 0.22471720 | 2.6794470 | 20 | 5 4.2 | 19.0 |
| 202734 2007 $JU_{32}$ | 16.8 | X | 209.58781 | 187.63868 | 75.64669 | 8.06004 | 0.0851741 | 0.27632672 | 2.3344655 | 20 | — | — |
| 202735 2007 $KJ_{1}$ | 17.4 | X | 144.82454 | 137.98190 | 154.81570 | 2.56062 | 0.2024014 | 0.26490283 | 2.4011077 | 20 | — | — |
| 202736 Julietclare | 17.2 | X | 118.35885 | 203.37589 | 84.73177 | 2.73388 | 0.1847874 | 0.26206282 | 2.4184240 | 20 | — | — |
| 202737 2007 $KT_{5}$ | 16.0 | X | 177.63687 | 226.10227 | 100.86044 | 3.24441 | 0.0698834 | 0.20500341 | 2.8485816 | 20 | 1 22.8 | 20.1 |
| 202738 2007 $LK_{1}$ | 15.3 | X | 176.38888 | 25.09183 | 203.18461 | 7.90068 | 0.0885382 | 0.18532737 | 3.0467934 | 20 | 12 7.5 | 20.0 |
| 202739 2007 $LP_{29}$ | 17.1 | X | 311.23262 | 354.85208 | 254.26659 | 4.76150 | 0.1729925 | 0.28847453 | 2.2684597 | 20 | 2 18.6 | 20.0 |
| 202740 Vicsympho | 16.0 | X | 118.85309 | 313.79410 | 6.34568 | 5.69065 | 0.1751210 | 0.17884414 | 3.1199879 | 20 | — | — |
| 202741 2007 $LQ_{32}$ | 15.7 | X | 90.87381 | 50.69487 | 275.24101 | 10.44022 | 0.2121452 | 0.25324817 | 2.4742211 | 20 | — | — |
| 202742 2007 $MZ_{11}$ | 16.3 | X | 239.75031 | 19.64926 | 213.37441 | 1.09824 | 0.0492509 | 0.19031398 | 2.9933368 | 20 | — | — |
| 202743 2007 $MB_{12}$ | 16.0 | X | 162.13790 | 157.45690 | 230.75109 | 1.09297 | 0.1094236 | 0.20342128 | 2.8633326 | 20 | 3 22.2 | 20.2 |
| 202744 2007 $MW_{14}$ | 16.6 | X | 90.92691 | 240.05969 | 131.20519 | 1.38236 | 0.2086179 | 0.26001953 | 2.4310771 | 20 | — | — |
| 202745 2007 $ND$ | 15.1 | X | 117.31021 | 289.13300 | 43.22591 | 8.16252 | 0.1601886 | 0.18506940 | 3.0496241 | 20 | — | — |
| 202746 2007 $NO$ | 15.8 | X | 329.80261 | 220.77872 | 78.92435 | 9.63304 | 0.2354757 | 0.22450768 | 2.6811138 | 20 | 6 3.4 | 18.1 |
| 202747 2007 $OU_{1}$ | 16.3 | X | 171.86336 | 266.18216 | 346.02735 | 7.55245 | 0.1537272 | 0.25879500 | 2.4387397 | 20 | — | — |
| 202748 2007 $OV_{3}$ | 16.1 | X | 270.64653 | 120.69065 | 282.24773 | 11.40512 | 0.1387356 | 0.23042173 | 2.6350393 | 20 | 8 2.4 | 19.6 |
| 202749 2007 $PH_{3}$ | 14.7 | X | 112.65900 | 270.52663 | 106.15807 | 12.21285 | 0.1496953 | 0.18971524 | 2.9996315 | 20 | 1 23.2 | 18.9 |
| 202750 2007 $PQ_{7}$ | 15.4 | X | 171.77673 | 316.84064 | 308.96948 | 8.87066 | 0.0712683 | 0.18187371 | 3.0852434 | 20 | — | — |
| 202751 2007 $PR_{23}$ | 15.9 | X | 117.19601 | 52.20304 | 269.11289 | 4.94284 | 0.2392893 | 0.25539172 | 2.4603573 | 20 | — | — |
| 202752 2007 $PX_{30}$ | 11.9 | X | 331.65396 | 83.18526 | 285.50747 | 18.71271 | 0.1467567 | 0.08214199 | 5.2411419 | 20 | 8 25.7 | 18.4 |
| 202753 2007 $PK_{45}$ | 15.0 | X | 113.66239 | 224.26255 | 74.31937 | 17.51979 | 0.2130407 | 0.17563695 | 3.1578546 | 20 | 12 30.2 | 20.4 |
| 202754 2007 $PK_{46}$ | 15.9 | X | 241.42599 | 291.51203 | 329.54635 | 2.14061 | 0.0679602 | 0.19158736 | 2.9800587 | 20 | 1 12.9 | 20.2 |
| 202755 2007 $QW_{1}$ | 15.8 | X | 59.81654 | 87.88698 | 263.88075 | 3.75662 | 0.0886896 | 0.17053963 | 3.2204693 | 20 | 12 29.2 | 20.3 |
| 202756 2007 $QL_{11}$ | 13.4 | X | 281.47614 | 283.93319 | 170.40483 | 13.75505 | 0.0270309 | 0.08218748 | 5.2392078 | 20 | 10 20.0 | 20.3 |
| 202757 2007 $QY_{14}$ | 16.4 | X | 298.62778 | 34.33080 | 197.99580 | 4.41901 | 0.2782849 | 0.27768472 | 2.3268483 | 20 | 1 2.6 | 19.9 |
| 202758 2007 $RJ_{19}$ | 13.3 | X | 289.89447 | 35.99297 | 33.10929 | 4.01569 | 0.0482085 | 0.07914122 | 5.3728026 | 20 | 9 27.3 | 20.3 |
| 202759 2007 $RL_{57}$ | 15.7 | X | 296.98728 | 346.17816 | 248.90822 | 3.95072 | 0.2228578 | 0.19519753 | 2.9432004 | 20 | 1 21.9 | 20.2 |
| 202760 2007 $RP_{64}$ | 16.2 | X | 196.32339 | 337.55654 | 338.60213 | 1.93943 | 0.0953422 | 0.19253927 | 2.9702283 | 20 | 1 31.4 | 20.9 |
| 202761 2007 $RB_{65}$ | 16.4 | X | 125.48441 | 136.99213 | 322.22421 | 1.16493 | 0.0195020 | 0.20677657 | 2.8322734 | 20 | 4 29.9 | 20.4 |
| 202762 2007 $RS_{69}$ | 15.6 | X | 47.44439 | 75.10740 | 35.66857 | 3.15471 | 0.0344468 | 0.19051430 | 2.9912381 | 20 | 2 9.4 | 19.7 |
| 202763 2007 $RW_{94}$ | 15.8 | X | 166.59952 | 350.80219 | 78.56377 | 3.22282 | 0.0489931 | 0.20260510 | 2.8710172 | 20 | 5 15.3 | 19.9 |
| 202764 2007 $RM_{152}$ | 15.6 | X | 352.19146 | 229.28785 | 228.43924 | 3.80635 | 0.1713012 | 0.17352519 | 3.1834231 | 20 | — | — |
| 202765 2007 $RZ_{155}$ | 16.0 | X | 63.35514 | 236.02922 | 336.08295 | 4.29598 | 0.0977700 | 0.21866799 | 2.7286379 | 20 | 7 20.9 | 19.5 |
| 202766 2007 $RE_{197}$ | 15.5 | X | 66.18359 | 359.29833 | 338.75695 | 5.66851 | 0.1388482 | 0.16987783 | 3.2288280 | 20 | 12 26.6 | 20.4 |
| 202767 2007 $RA_{220}$ | 16.8 | X | 213.53769 | 165.14118 | 327.95138 | 2.23450 | 0.1876747 | 0.22355742 | 2.6887061 | 20 | 9 17.3 | 21.1 |
| 202768 2007 $RT_{228}$ | 17.2 | X | 279.37901 | 254.06019 | 319.53548 | 4.09576 | 0.1521112 | 0.27070360 | 2.3666827 | 20 | — | — |
| 202769 2007 $RF_{234}$ | 16.3 | X | 185.09408 | 225.19527 | 112.77516 | 8.08495 | 0.1341012 | 0.26834616 | 2.3805235 | 20 | 2 9.2 | 19.9 |
| 202770 2007 $RW_{238}$ | 15.1 | X | 84.11809 | 278.26469 | 60.81797 | 6.23178 | 0.1413843 | 0.17290667 | 3.1910104 | 20 | — | — |
| 202771 2007 $RH_{278}$ | 14.7 | X | 92.69726 | 211.22553 | 85.07792 | 13.11557 | 0.1756207 | 0.16360404 | 3.3108541 | 20 | 12 7.3 | 19.8 |
| 202772 2007 $TS$ | 16.4 | X | 119.14005 | 174.92663 | 219.83567 | 10.36912 | 0.2236083 | 0.26208537 | 2.4182852 | 20 | 2 17.6 | 20.0 |
| 202773 2007 $TY_{2}$ | 15.5 | X | 290.77905 | 243.31064 | 104.33462 | 11.50471 | 0.0765146 | 0.21227418 | 2.7831585 | 20 | 6 27.7 | 19.2 |
| 202774 2007 $TX_{213}$ | 16.4 | X | 293.80492 | 165.96241 | 300.80162 | 2.80889 | 0.0341927 | 0.23427722 | 2.6060496 | 20 | 12 18.1 | 19.5 |
| 202775 2007 $TF_{235}$ | 16.2 | X | 224.10280 | 184.95003 | 122.57227 | 3.14575 | 0.0723343 | 0.19620152 | 2.9331513 | 20 | 2 18.3 | 20.6 |
| 202776 2007 $TK_{348}$ | 16.5 | X | 17.26534 | 251.76479 | 117.76504 | 2.55871 | 0.1024944 | 0.24320005 | 2.5419106 | 20 | 12 18.9 | 19.5 |
| 202777 2007 $TP_{351}$ | 15.7 | X | 56.81826 | 350.32009 | 49.85796 | 4.24130 | 0.1080988 | 0.17761440 | 3.1343724 | 20 | — | — |
| 202778 Dmytria | 15.4 | X | 117.13655 | 89.49942 | 331.28529 | 9.57732 | 0.1227317 | 0.18694641 | 3.0291768 | 20 | 3 15.0 | 19.9 |
| 202779 2007 $UY_{10}$ | 15.3 | X | 123.00757 | 96.89811 | 289.27559 | 7.40016 | 0.0729706 | 0.18151322 | 3.0893269 | 20 | 2 4.5 | 19.7 |
| 202780 2007 $VA_{169}$ | 17.1 | X | 66.17794 | 315.41353 | 86.41801 | 1.41914 | 0.0685357 | 0.24430394 | 2.5342478 | 20 | — | — |
| 202781 2007 $VP_{297}$ | 15.0 | X | 344.00795 | 201.50353 | 90.52077 | 15.23773 | 0.1771062 | 0.21299110 | 2.7769097 | 20 | 6 29.3 | 17.8 |
| 202782 2007 $VM_{299}$ | 15.1 | X | 88.54605 | 294.80512 | 144.46997 | 11.91640 | 0.1313407 | 0.18118027 | 3.0931106 | 20 | 3 9.9 | 19.4 |
| 202783 2007 $YK_{2}$ | 12.1 | X | 36.13163 | 58.16748 | 282.82278 | 21.16023 | 0.0340061 | 0.08274042 | 5.2158397 | 20 | 10 17.9 | 19.2 |
| 202784 Gangkeda | 16.0 | X | 259.95245 | 142.48160 | 305.14655 | 4.78865 | 0.0198802 | 0.20268486 | 2.8702640 | 20 | 10 1.5 | 20.0 |
| 202785 2008 $GE_{44}$ | 17.6 | X | 189.22629 | 186.95376 | 22.01494 | 1.05998 | 0.1672792 | 0.28590232 | 2.2820453 | 20 | 12 9.4 | 20.7 |
| 202786 2008 $MF_{1}$ | 14.3 | X | 63.87961 | 302.17043 | 43.87796 | 27.42396 | 0.2869084 | 0.17977588 | 3.1091984 | 20 | — | — |
| 202787 Kestecher | 17.2 | X | 29.09071 | 290.38246 | 42.68476 | 1.03265 | 0.2306230 | 0.26055726 | 2.4277312 | 20 | 12 10.9 | 20.2 |
| 202788 2008 $OK_{18}$ | 17.1 | X | 247.23538 | 181.17254 | 165.11324 | 2.31973 | 0.1530273 | 0.30341895 | 2.1933482 | 20 | 4 18.3 | 20.1 |
| 202789 2008 $PU_{11}$ | 14.9 | X | 112.67265 | 269.81526 | 328.32864 | 24.63275 | 0.2612506 | 0.17986373 | 3.1081859 | 20 | 10 12.8 | 20.7 |
| 202790 2008 $QR_{3}$ | 16.7 | X | 356.71245 | 237.86765 | 167.03146 | 8.35638 | 0.1024629 | 0.25838738 | 2.4413039 | 20 | — | — |
| 202791 2008 $QC_{4}$ | 13.0 | X | 276.93231 | 210.44830 | 221.67711 | 8.23926 | 0.0804036 | 0.08353753 | 5.1826073 | 20 | 9 8.3 | 19.8 |
| 202792 2008 $QB_{6}$ | 15.0 | X | 57.79562 | 201.55518 | 140.82203 | 11.42060 | 0.0820427 | 0.18257125 | 3.0773799 | 20 | 12 18.8 | 19.5 |
| 202793 2008 $QG_{13}$ | 16.7 | X | 296.67856 | 38.03416 | 292.90280 | 0.77539 | 0.1599240 | 0.23394004 | 2.6085531 | 20 | 5 31.2 | 19.6 |
| 202794 2008 $QO_{16}$ | 15.5 | X | 243.62882 | 165.10644 | 337.88567 | 8.84413 | 0.0473133 | 0.17860838 | 3.1227328 | 20 | 11 9.8 | 20.0 |
| 202795 2008 $QD_{17}$ | 16.2 | X | 190.21628 | 147.27539 | 173.86253 | 1.80501 | 0.0648808 | 0.20721783 | 2.8282511 | 20 | 1 27.9 | 20.4 |
| 202796 2008 $QQ_{29}$ | 16.8 | X | 104.28000 | 180.04926 | 120.91481 | 3.02861 | 0.0712957 | 0.26863285 | 2.3788294 | 20 | — | — |
| 202797 2008 $QR_{30}$ | 12.7 | X | 293.36833 | 154.88974 | 256.37003 | 8.48059 | 0.1246467 | 0.08117909 | 5.2825053 | 20 | 8 28.4 | 19.6 |
| 202798 2008 $QG_{36}$ | 16.6 | X | 184.53295 | 8.84946 | 352.96003 | 3.44982 | 0.1127287 | 0.21374241 | 2.7703985 | 20 | 3 12.2 | 20.7 |
| 202799 2008 $RB_{22}$ | 16.8 | X | 27.75746 | 321.06362 | 58.35909 | 2.98818 | 0.2099242 | 0.26411223 | 2.4058970 | 20 | — | — |
| 202800 2008 $RZ_{34}$ | 15.5 | X | 105.69850 | 258.39189 | 194.25377 | 4.67953 | 0.0996134 | 0.21231949 | 2.7827625 | 20 | 4 8.1 | 19.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202801 2008 $RC_{47}$ | 16.7 | X | 247.41431 | 193.82979 | 181.78698 | 2.84774 | 0.1931343 | 0.22790784 | 2.6543807 | 20 | 5 25.0 | 20.7 |
| 202802 2008 $RE_{79}$ | 15.8 | X | 141.32183 | 256.85333 | 191.08496 | 8.66948 | 0.1550305 | 0.21680075 | 2.7442828 | 20 | 5 18.7 | 20.2 |
| 202803 2008 $RZ_{104}$ | 16.6 | X | 10.12043 | 40.29087 | 180.57854 | 2.21056 | 0.0271071 | 0.22476616 | 2.6790579 | 20 | 5 6.6 | 20.0 |
| 202804 2008 $RO_{116}$ | 16.4 | X | 274.89884 | 124.50672 | 219.96653 | 5.79098 | 0.0348064 | 0.22045709 | 2.7138552 | 20 | 6 7.9 | 20.1 |
| 202805 2008 $RS_{116}$ | 15.5 | X | 127.08902 | 110.09658 | 225.04285 | 15.07577 | 0.0921024 | 0.18412181 | 3.0600784 | 20 | — | — |
| 202806 Sierrastars | 17.4 | X | 203.68750 | 304.04899 | 33.57269 | 4.68120 | 0.2316965 | 0.29578682 | 2.2309175 | 20 | 2 25.9 | 21.1 |
| 202807 2008 $SR_{11}$ | 14.7 | X | 40.39100 | 345.62925 | 24.85986 | 17.73648 | 0.1176166 | 0.17628182 | 3.1501485 | 20 | — | — |
| 202808 2008 $SJ_{15}$ | 16.1 | X | 295.02982 | 208.05920 | 273.94875 | 1.11947 | 0.0627890 | 0.18642541 | 3.0348180 | 20 | 12 23.8 | 20.1 |
| 202809 2008 $SQ_{33}$ | 16.2 | X | 130.75876 | 45.50436 | 317.24377 | 1.17011 | 0.0814236 | 0.20299474 | 2.8673422 | 20 | 1 15.8 | 20.2 |
| 202810 2008 $SE_{42}$ | 15.9 | X | 60.35128 | 74.77649 | 249.99879 | 3.12645 | 0.1665822 | 0.17944920 | 3.1129706 | 20 | 12 10.1 | 20.4 |
| 202811 2008 $SO_{43}$ | 15.7 | X | 248.04071 | 149.49596 | 203.76448 | 5.48487 | 0.0707288 | 0.22183816 | 2.7025799 | 20 | 5 10.9 | 19.6 |
| 202812 2008 $SB_{46}$ | 16.0 | X | 8.33553 | 86.79537 | 185.70788 | 3.21364 | 0.1260219 | 0.23307646 | 2.6149925 | 20 | 7 20.4 | 18.7 |
| 202813 2008 $SV_{52}$ | 17.5 | X | 265.25894 | 259.13871 | 189.13961 | 6.13926 | 0.1847652 | 0.24452085 | 2.5327488 | 20 | 9 23.4 | 20.5 |
| 202814 2008 $SX_{60}$ | 15.6 | X | 150.36389 | 65.11308 | 344.72511 | 7.55850 | 0.1617111 | 0.21185186 | 2.7868560 | 20 | 4 6.9 | 20.1 |
| 202815 2008 $SQ_{62}$ | 15.5 | X | 348.36525 | 73.39695 | 352.23680 | 10.43530 | 0.0838663 | 0.17788178 | 3.1312308 | 20 | 12 28.6 | 19.7 |
| 202816 2008 $SS_{62}$ | 17.7 | X | 290.93970 | 315.40575 | 342.13636 | 4.26657 | 0.2147761 | 0.31005132 | 2.1619567 | 20 | 3 22.9 | 20.2 |
| 202817 2008 $SS_{64}$ | 16.0 | X | 214.47672 | 323.98641 | 11.59700 | 1.86174 | 0.0830477 | 0.21524674 | 2.7574755 | 20 | 3 10.7 | 20.2 |
| 202818 2008 $SN_{74}$ | 15.6 | X | 67.26693 | 231.68203 | 331.09711 | 10.90959 | 0.0172174 | 0.22648801 | 2.6654625 | 20 | 7 2.1 | 19.3 |
| 202819 Carlosanchez | 16.7 | X | 220.59564 | 186.07635 | 185.33849 | 6.06843 | 0.0396587 | 0.22401860 | 2.6850147 | 20 | 5 5.0 | 20.4 |
| 202820 2008 $SQ_{86}$ | 17.2 | X | 281.21598 | 252.84092 | 303.95963 | 5.11677 | 0.0839487 | 0.27790870 | 2.3255979 | 20 | — | — |
| 202821 2008 $SD_{104}$ | 17.2 | X | 348.51593 | 100.98538 | 206.81359 | 1.39697 | 0.2079256 | 0.23762188 | 2.5815375 | 20 | 8 7.0 | 19.3 |
| 202822 2008 $SP_{106}$ | 16.1 | X | 86.03262 | 222.47194 | 176.64928 | 2.12275 | 0.1591610 | 0.19125030 | 2.9835591 | 20 | 1 17.3 | 19.9 |
| 202823 2008 $SW_{107}$ | 15.9 | X | 32.55806 | 161.65278 | 216.12940 | 10.84911 | 0.0745651 | 0.17788072 | 3.1312432 | 20 | 12 26.7 | 20.4 |
| 202824 2008 $SX_{107}$ | 12.8 | X | 336.71324 | 163.97448 | 234.68137 | 8.49330 | 0.0823508 | 0.08333077 | 5.1911762 | 20 | 10 16.6 | 19.4 |
| 202825 2008 $SX_{115}$ | 15.3 | X | 159.97088 | 139.13302 | 167.71297 | 9.94234 | 0.0306394 | 0.19027134 | 2.9937841 | 20 | — | — |
| 202826 2008 $SG_{118}$ | 15.5 | X | 344.67672 | 10.41952 | 204.84046 | 11.98276 | 0.1164077 | 0.21051667 | 2.7986273 | 20 | 3 13.9 | 18.9 |
| 202827 2008 $SQ_{143}$ | 15.9 | X | 175.90532 | 279.89736 | 77.65436 | 3.19107 | 0.0821523 | 0.20288616 | 2.8683651 | 20 | 2 28.7 | 20.3 |
| 202828 2008 $SS_{155}$ | 17.0 | X | 196.63939 | 228.00384 | 145.68663 | 6.09503 | 0.1589376 | 0.29939329 | 2.2129657 | 20 | 4 4.9 | 20.3 |
| 202829 2008 $SD_{160}$ | 15.9 | X | 272.38960 | 351.70024 | 351.86701 | 2.27402 | 0.1323146 | 0.22715592 | 2.6602350 | 20 | 5 18.4 | 19.6 |
| 202830 2008 $SY_{166}$ | 16.5 | X | 223.00794 | 168.08691 | 172.82315 | 4.06106 | 0.2117968 | 0.21578324 | 2.7529030 | 20 | 3 19.9 | 21.2 |
| 202831 2008 $SX_{167}$ | 16.8 | X | 66.51187 | 211.78227 | 187.08079 | 7.85580 | 0.2859447 | 0.27049147 | 2.3679199 | 20 | — | — |
| 202832 2008 $SZ_{193}$ | 17.0 | X | 212.19534 | 269.34595 | 76.50776 | 4.55995 | 0.2026608 | 0.29810087 | 2.2193573 | 20 | 3 14.4 | 20.5 |
| 202833 2008 $SX_{194}$ | 16.0 | X | 354.25752 | 8.98710 | 93.05073 | 0.13877 | 0.1483165 | 0.18067169 | 3.0989125 | 20 | — | — |
| 202834 2008 $SW_{195}$ | 16.4 | X | 109.18993 | 239.26680 | 180.44637 | 2.13589 | 0.0678141 | 0.20035540 | 2.8924688 | 20 | 2 26.9 | 20.4 |
| 202835 2008 $SY_{195}$ | 16.3 | X | 117.40993 | 273.75275 | 199.24561 | 3.85585 | 0.1588872 | 0.21128611 | 2.7918286 | 20 | 5 25.6 | 20.5 |
| 202836 2008 $SS_{201}$ | 16.1 | X | 78.33258 | 132.77915 | 263.90241 | 1.92535 | 0.0470114 | 0.18908708 | 3.0062711 | 20 | — | — |
| 202837 2008 $SR_{205}$ | 16.5 | X | 304.65136 | 207.68123 | 182.17218 | 9.71758 | 0.1963638 | 0.24045445 | 2.5612236 | 20 | 9 3.9 | 19.0 |
| 202838 2008 $SE_{206}$ | 16.3 | X | 8.42782 | 222.55811 | 85.65545 | 5.74537 | 0.2619905 | 0.24297613 | 2.5434721 | 20 | 10 8.8 | 18.7 |
| 202839 2008 $SX_{218}$ | 17.3 | X | 78.57724 | 25.95770 | 330.20223 | 2.31276 | 0.2458681 | 0.27031051 | 2.3689765 | 20 | — | — |
| 202840 2008 $SG_{235}$ | 17.9 | X | 152.79652 | 31.78556 | 34.43239 | 4.62233 | 0.0939433 | 0.30099154 | 2.2051249 | 20 | 4 23.9 | 20.7 |
| 202841 2008 $SQ_{242}$ | 16.0 | X | 321.93361 | 311.80976 | 179.06729 | 1.52581 | 0.1467534 | 0.17936533 | 3.1139410 | 20 | — | — |
| 202842 2008 $SU_{264}$ | 16.2 | X | 185.58944 | 103.18250 | 48.22672 | 9.45041 | 0.1052943 | 0.23767053 | 2.5811852 | 20 | 9 25.3 | 20.1 |
| 202843 2008 $SV_{264}$ | 16.7 | X | 13.00000 | 254.81037 | 49.55740 | 8.26196 | 0.2576956 | 0.24295062 | 2.5436501 | 20 | 10 11.1 | 19.1 |
| 202844 2008 $TK_{7}$ | 16.0 | X | 246.10176 | 101.71481 | 194.87164 | 4.04090 | 0.0460810 | 0.21083676 | 2.7957939 | 20 | 2 27.9 | 20.1 |
| 202845 2008 $TN_{12}$ | 16.2 | X | 66.78834 | 251.90992 | 304.40568 | 4.48617 | 0.2178633 | 0.23547241 | 2.5972237 | 20 | 7 23.5 | 19.5 |
| 202846 2008 $TK_{20}$ | 16.5 | X | 158.27204 | 8.28287 | 19.22209 | 1.88419 | 0.0717170 | 0.20481694 | 2.8503103 | 20 | 3 15.5 | 20.6 |
| 202847 2008 $TK_{24}$ | 17.4 | X | 149.41812 | 224.86984 | 215.75157 | 3.41066 | 0.1338677 | 0.30061051 | 2.2069879 | 20 | 5 13.5 | 20.3 |
| 202848 2008 $TG_{48}$ | 16.9 | X | 309.75313 | 172.21730 | 145.93963 | 2.12266 | 0.1057588 | 0.23603868 | 2.5930681 | 20 | 6 11.9 | 19.8 |
| 202849 2008 $TM_{74}$ | 18.2 | X | 30.32510 | 145.04209 | 267.00368 | 0.47838 | 0.1689367 | 0.26433801 | 2.4045269 | 20 | — | — |
| 202850 2008 $TM_{78}$ | 13.3 | X | 299.97234 | 341.52844 | 82.92430 | 1.36003 | 0.0480910 | 0.08069895 | 5.3034378 | 20 | 10 3.8 | 20.1 |
| 202851 2008 $TW_{90}$ | 16.5 | X | 331.17840 | 286.44895 | 39.81269 | 11.97069 | 0.3304604 | 0.23917840 | 2.5703252 | 20 | 7 10.9 | 18.2 |
| 202852 2008 $TH_{92}$ | 16.1 | X | 289.91208 | 223.54702 | 131.95560 | 4.95218 | 0.2967318 | 0.23263708 | 2.6182841 | 20 | 6 2.7 | 19.4 |
| 202853 2008 $TW_{94}$ | 16.0 | X | 248.86834 | 332.60803 | 13.21495 | 14.12800 | 0.2051707 | 0.21959118 | 2.7209848 | 20 | 4 15.2 | 20.3 |
| 202854 2008 $TJ_{99}$ | 13.3 | X | 18.17092 | 268.92688 | 77.14368 | 1.88060 | 0.0689220 | 0.08239146 | 5.2305567 | 20 | 10 13.4 | 19.9 |
| 202855 2008 $TX_{109}$ | 12.5 | X | 287.60836 | 320.57144 | 123.01293 | 8.45753 | 0.0421663 | 0.08047660 | 5.3132018 | 20 | 10 14.1 | 19.5 |
| 202856 2008 $TN_{116}$ | 16.0 | X | 218.33950 | 48.17567 | 346.04067 | 5.77107 | 0.0933003 | 0.22156385 | 2.7048101 | 20 | 5 25.3 | 20.1 |
| 202857 2008 $TT_{117}$ | 15.4 | X | 149.87613 | 245.02601 | 28.90586 | 16.69069 | 0.2009597 | 0.18049891 | 3.1008898 | 20 | 12 31.8 | 20.9 |
| 202858 2008 $TW_{117}$ | 16.1 | X | 140.75291 | 195.98569 | 298.50096 | 1.71807 | 0.1222182 | 0.22192164 | 2.7019022 | 20 | 7 13.2 | 20.1 |
| 202859 2008 $TP_{124}$ | 16.9 | X | 231.72003 | 159.09503 | 299.53780 | 3.24543 | 0.1400949 | 0.23933913 | 2.5691743 | 20 | 8 29.9 | 20.4 |
| 202860 2008 $TX_{125}$ | 16.5 | X | 50.00626 | 120.23684 | 346.26671 | 5.81895 | 0.1988231 | 0.19621814 | 2.9329857 | 20 | 2 21.6 | 19.5 |
| 202861 2008 $TM_{128}$ | 17.2 | X | 219.41839 | 281.90881 | 34.87526 | 6.25452 | 0.2120714 | 0.29638440 | 2.2279178 | 20 | 2 13.6 | 20.9 |
| 202862 2008 $TT_{128}$ | 16.6 | X | 7.12988 | 124.10888 | 170.46111 | 5.63488 | 0.1319055 | 0.24044210 | 2.5613114 | 20 | 8 21.9 | 19.2 |
| 202863 2008 $TD_{161}$ | 16.1 | X | 154.73946 | 264.85933 | 34.61047 | 3.46634 | 0.1201904 | 0.19182274 | 2.9776204 | 20 | — | — |
| 202864 2008 $UY_{3}$ | 17.4 | X | 247.98026 | 117.40760 | 213.60414 | 5.74493 | 0.1905203 | 0.30192579 | 2.2005736 | 20 | 3 24.2 | 20.6 |
| 202865 2008 $UQ_{6}$ | 17.1 | X | 229.29242 | 304.58351 | 53.05698 | 10.00415 | 0.1691963 | 0.29929046 | 2.2134725 | 20 | 4 15.9 | 20.4 |
| 202866 2008 $UK_{30}$ | 16.2 | X | 326.27429 | 203.10248 | 67.11029 | 4.49182 | 0.1415031 | 0.21815657 | 2.7329007 | 20 | 4 28.1 | 19.3 |
| 202867 2008 $UU_{36}$ | 16.5 | X | 342.14850 | 269.04030 | 359.15313 | 2.92225 | 0.0459754 | 0.21874027 | 2.7280368 | 20 | 5 28.8 | 20.0 |
| 202868 2008 $UC_{49}$ | 15.6 | X | 166.08967 | 278.03956 | 40.39921 | 10.19633 | 0.1152409 | 0.18929996 | 3.0040168 | 20 | 1 6.8 | 20.4 |
| 202869 2008 $UM_{53}$ | 16.2 | X | 39.06690 | 219.78057 | 56.29568 | 8.45049 | 0.1914140 | 0.23493018 | 2.6012185 | 20 | 10 2.3 | 19.5 |
| 202870 2008 $UF_{62}$ | 16.2 | X | 211.93711 | 354.77150 | 24.93220 | 6.75041 | 0.0479258 | 0.21517665 | 2.7580742 | 20 | 5 2.7 | 20.1 |
| 202871 2008 $UE_{92}$ | 15.7 | X | 107.74375 | 352.53259 | 71.05934 | 10.72578 | 0.2569681 | 0.20095308 | 2.8867307 | 20 | 3 31.6 | 20.2 |
| 202872 2008 $UG_{109}$ | 16.0 | X | 230.99027 | 316.15420 | 20.39319 | 2.08186 | 0.0418424 | 0.20617913 | 2.8377420 | 20 | 4 2.2 | 19.9 |
| 202873 2008 $UV_{119}$ | 16.6 | X | 191.82439 | 267.90911 | 265.15365 | 5.92135 | 0.0583084 | 0.24405186 | 2.5359925 | 20 | 10 28.7 | 20.1 |
| 202874 2008 $UT_{124}$ | 16.4 | X | 171.35611 | 226.88128 | 278.63651 | 8.81797 | 0.1734216 | 0.22784803 | 2.6548451 | 20 | 8 22.9 | 20.9 |
| 202875 2008 $UR_{130}$ | 17.1 | X | 229.31783 | 62.10505 | 222.81757 | 6.50210 | 0.1039920 | 0.28496825 | 2.2870293 | 20 | 1 12.7 | 20.4 |
| 202876 2008 $UT_{131}$ | 16.8 | X | 166.31764 | 25.32252 | 359.29471 | 1.65604 | 0.1056478 | 0.20605892 | 2.8388456 | 20 | 3 22.0 | 20.9 |
| 202877 2008 $UW_{145}$ | 17.2 | X | 38.98774 | 246.44524 | 60.54328 | 6.01513 | 0.2352803 | 0.24709078 | 2.5151566 | 20 | 11 17.3 | 20.3 |
| 202878 2008 $UH_{184}$ | 17.5 | X | 151.18802 | 308.64898 | 35.70469 | 1.30319 | 0.2003791 | 0.27966712 | 2.3158394 | 20 | 1 18.0 | 20.8 |
| 202879 2008 $UF_{251}$ | 15.7 | X | 175.86238 | 300.26148 | 24.34526 | 1.21584 | 0.1240974 | 0.19613503 | 2.9338142 | 20 | 1 22.3 | 20.2 |
| 202880 2008 $UH_{262}$ | 15.8 | X | 155.78650 | 269.99419 | 358.30596 | 7.06482 | 0.1915728 | 0.25914896 | 2.4365186 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202881 2008 $UV_{281}$ | 16.8 | X | 244.87781 | 16.21032 | 58.20127 | 8.41471 | 0.1413986 | 0.23099405 | 2.6306850 | 20 | 8 17.5 | 20.6 |
| 202882 2008 $UA_{316}$ | 16.3 | X | 307.41684 | 141.60701 | 226.43221 | 1.35355 | 0.1706999 | 0.23359414 | 2.6111276 | 20 | 8 10.5 | 18.8 |
| 202883 4723 P–L | 15.8 | X | 253.26922 | 173.33632 | 184.65032 | 9.35820 | 0.1338651 | 0.22626786 | 2.6671911 | 20 | 5 16.5 | 19.8 |
| 202884 7590 P–L | 16.3 | X | 255.15868 | 12.53704 | 34.88018 | 6.91894 | 0.2879580 | 0.22714636 | 2.6603097 | 20 | 7 2.0 | 20.4 |
| 202885 3095 T–2 | 17.2 | X | 310.32561 | 288.80272 | 30.40134 | 3.78287 | 0.1837441 | 0.31208357 | 2.1525609 | 20 | 6 1.5 | 18.8 |
| 202886 1979 $OZ_{9}$ | 17.8 | X | 12.92556 | 111.46066 | 172.17115 | 4.67481 | 0.1931843 | 0.31374452 | 2.1449571 | 20 | 9 8.9 | 19.1 |
| 202887 1981 $EO_{33}$ | 15.5 | X | 178.05421 | 356.33728 | 190.17373 | 15.65658 | 0.1511962 | 0.21410343 | 2.7672834 | 20 | 10 22.8 | 19.9 |
| 202888 1981 $EM_{34}$ | 16.8 | X | 7.74787 | 270.36469 | 266.80784 | 6.18950 | 0.0658096 | 0.27712971 | 2.3299539 | 20 | 2 21.8 | 19.3 |
| 202889 1991 $TF_{15}$ | 16.3 | X | 340.18836 | 337.31223 | 39.61529 | 6.89371 | 0.2113395 | 0.23795878 | 2.5791003 | 20 | 11 7.3 | 18.2 |
| 202890 1991 $VN_{7}$ | 15.3 | X | 83.34614 | 310.93683 | 61.50584 | 5.84170 | 0.1420376 | 0.17880684 | 3.1204217 | 20 | — | — |
| 202891 1992 $EO_{10}$ | 16.2 | X | 238.69522 | 339.64683 | 135.60189 | 3.04173 | 0.1493493 | 0.22951345 | 2.6419866 | 20 | 9 28.9 | 19.7 |
| 202892 1993 SP | 17.0 | X | 86.63081 | 259.94744 | 171.70951 | 4.59329 | 0.2396225 | 0.27403243 | 2.3474773 | 20 | 2 29.3 | 19.5 |
| 202893 1993 $TH_{39}$ | 16.8 | X | 80.21784 | 306.71996 | 79.54479 | 4.10201 | 0.2005275 | 0.26729748 | 2.3867457 | 20 | — | — |
| 202894 1994 $WB_{5}$ | 18.4 | X | 89.10065 | 19.97140 | 51.97561 | 1.42218 | 0.2053899 | 0.28173546 | 2.3044911 | 20 | 2 27.8 | 20.8 |
| 202895 1994 YP | 16.5 | X | 100.85827 | 155.52771 | 281.93060 | 26.55120 | 0.2564121 | 0.28094738 | 2.3087986 | 20 | 3 12.8 | 20.2 |
| 202896 1995 $DD_{7}$ | 17.2 | X | 63.08165 | 322.43255 | 143.03664 | 3.36184 | 0.1226982 | 0.27478544 | 2.3431868 | 20 | 2 19.5 | 19.5 |
| 202897 1995 $DE_{9}$ | 17.1 | X | 142.14206 | 16.21419 | 15.05808 | 2.72818 | 0.2050834 | 0.27598522 | 2.3363909 | 20 | 3 9.5 | 20.6 |
| 202898 1995 $FK_{14}$ | 15.4 | X | 254.91460 | 136.98853 | 134.66331 | 4.23079 | 0.0285739 | 0.19269284 | 2.9686500 | 20 | 2 12.9 | 19.5 |
| 202899 1995 $FP_{16}$ | 17.3 | X | 266.58334 | 251.06910 | 11.33438 | 1.28199 | 0.1570128 | 0.27031949 | 2.3689241 | 20 | 1 22.7 | 20.6 |
| 202900 1995 $FL_{20}$ | 16.4 | X | 187.71695 | 210.94149 | 108.00067 | 2.51976 | 0.2012328 | 0.26920843 | 2.3754375 | 20 | 1 21.1 | 20.3 |
| 202901 1995 $OJ_{17}$ | 16.1 | X | 151.65988 | 108.77711 | 124.20832 | 9.19137 | 0.0579118 | 0.24490960 | 2.5300679 | 20 | 12 1.6 | 19.8 |
| 202902 1995 $SC_{13}$ | 17.2 | X | 33.68785 | 167.73279 | 174.73923 | 1.45872 | 0.1756887 | 0.24235183 | 2.5478382 | 20 | 12 16.5 | 20.6 |
| 202903 1995 $SD_{52}$ | 16.7 | X | 263.15758 | 56.42874 | 12.07622 | 2.52187 | 0.1926303 | 0.23287504 | 2.6165001 | 20 | 8 22.6 | 20.0 |
| 202904 1995 $UF_{23}$ | 16.6 | X | 61.95336 | 328.52798 | 308.47517 | 2.32802 | 0.0596348 | 0.23485470 | 2.6017758 | 20 | 10 8.6 | 19.9 |
| 202905 1995 $UE_{31}$ | 17.3 | X | 337.58171 | 301.43586 | 13.46750 | 3.36472 | 0.1555854 | 0.31254041 | 2.1504628 | 20 | 8 6.1 | 18.6 |
| 202906 1995 $WW_{11}$ | 16.5 | X | 349.49049 | 270.31997 | 103.91354 | 5.22502 | 0.2159741 | 0.23683208 | 2.5872737 | 20 | 11 25.5 | 18.9 |
| 202907 1996 $RH_{1}$ | 16.3 | X | 194.53671 | 352.63982 | 296.88666 | 7.56987 | 0.1968047 | 0.26621923 | 2.3931859 | 20 | — | — |
| 202908 1996 $TH_{11}$ | 16.5 | X | 91.68377 | 149.04241 | 218.37498 | 2.52358 | 0.2402408 | 0.25972202 | 2.4329333 | 20 | — | — |
| 202909 Jakoten | 14.8 | X | 82.54809 | 60.78829 | 266.66204 | 17.27808 | 0.2916475 | 0.17234238 | 3.1979720 | 20 | — | — |
| 202910 1996 $VE_{14}$ | 17.1 | X | 293.75625 | 332.78560 | 213.71862 | 0.72970 | 0.1249626 | 0.25837307 | 2.4413941 | 20 | — | — |
| 202911 1997 $EC_{14}$ | 16.5 | X | 237.97440 | 289.49026 | 176.63255 | 3.51905 | 0.1436740 | 0.23538864 | 2.5978399 | 20 | 9 16.4 | 20.2 |
| 202912 1997 $MK_{8}$ | 16.0 | X | 32.98309 | 95.51846 | 149.37658 | 4.60336 | 0.0508388 | 0.21214966 | 2.7842474 | 20 | 7 12.9 | 19.5 |
| 202913 1997 $NV_{5}$ | 16.6 | X | 191.98385 | 89.36397 | 288.83067 | 3.84040 | 0.2000939 | 0.28764008 | 2.2728448 | 20 | 4 2.9 | 20.3 |
| 202914 1997 PA | 16.2 | X | 223.16145 | 23.57323 | 317.21116 | 8.78157 | 0.2846011 | 0.28843838 | 2.2686492 | 20 | 3 10.1 | 20.4 |
| 202915 1997 $TR_{7}$ | 17.0 | X | 245.74914 | 278.69035 | 2.90440 | 3.84327 | 0.2205082 | 0.28222990 | 2.3017988 | 20 | 1 22.6 | 20.7 |
| 202916 1997 $TK_{9}$ | 17.3 | X | 189.00252 | 79.44599 | 218.31946 | 5.11400 | 0.1465342 | 0.27529720 | 2.3402820 | 20 | — | — |
| 202917 1997 $WZ_{5}$ | 15.4 | X | 82.26277 | 271.15614 | 195.02574 | 3.00292 | 0.0146061 | 0.19118482 | 2.9842403 | 20 | 3 15.3 | 19.5 |
| 202918 1997 $WK_{20}$ | 16.1 | X | 133.37582 | 238.04925 | 87.05653 | 3.68734 | 0.0980753 | 0.18162056 | 3.0881096 | 20 | — | — |
| 202919 1997 $YJ_{12}$ | 17.3 | X | 348.82731 | 138.95285 | 270.51686 | 0.44397 | 0.1698641 | 0.25740859 | 2.4474887 | 20 | — | — |
| 202920 1997 $YP_{19}$ | 16.8 | X | 100.37902 | 111.21327 | 311.25244 | 3.00155 | 0.1921357 | 0.27250219 | 2.3562573 | 20 | 2 28.6 | 19.6 |
| 202921 1998 $AM_{1}$ | 15.7 | X | 268.66951 | 130.21827 | 118.21346 | 2.06929 | 0.1267733 | 0.17968061 | 3.1102974 | 20 | 1 22.4 | 20.2 |
| 202922 1998 $FM_{31}$ | 16.4 | X | 253.24818 | 196.22875 | 40.98454 | 2.70488 | 0.1869012 | 0.25883247 | 2.4385044 | 20 | — | — |
| 202923 1998 $JM_{3}$ | 16.2 | X | 78.74048 | 171.04084 | 95.79405 | 7.90206 | 0.0859974 | 0.23657576 | 2.5891421 | 20 | 10 25.2 | 19.9 |
| 202924 1998 $OK_{5}$ | 16.1 | X | 270.37891 | 121.25898 | 238.06674 | 4.04019 | 0.1295751 | 0.21999929 | 2.7176188 | 20 | 6 7.2 | 19.8 |
| 202925 1998 $QF_{29}$ | 16.3 | X | 271.63305 | 75.83585 | 284.51052 | 5.76677 | 0.2087462 | 0.21765554 | 2.7370931 | 20 | 5 28.9 | 20.3 |
| 202926 1998 $QM_{84}$ | 15.9 | X | 258.74942 | 62.60657 | 287.03804 | 9.04095 | 0.2820901 | 0.21474395 | 2.7617780 | 20 | 4 20.3 | 20.7 |
| 202927 1998 $SQ_{85}$ | 17.4 | X | 234.07353 | 315.78943 | 88.26511 | 0.97019 | 0.1502146 | 0.30610113 | 2.1805168 | 20 | 6 22.7 | 20.1 |
| 202928 1998 $ST_{92}$ | 17.4 | X | 313.50494 | 23.87304 | 345.86089 | 2.42068 | 0.1287561 | 0.31270531 | 2.1497067 | 20 | 9 15.5 | 18.9 |
| 202929 1998 $SZ_{125}$ | 16.1 | X | 309.91293 | 262.48590 | 67.43966 | 5.35014 | 0.0904201 | 0.21652996 | 2.7465703 | 20 | 6 30.4 | 19.4 |
| 202930 Ivezic | 16.7 | X | 302.84201 | 7.45583 | 346.16869 | 4.56042 | 0.1309146 | 0.21958674 | 2.7210215 | 20 | 7 18.0 | 20.0 |
| 202931 1998 $TB_{1}$ | 16.6 | X | 200.21182 | 168.19409 | 184.16103 | 1.38546 | 0.1299700 | 0.20409608 | 2.8570178 | 20 | 3 16.4 | 21.1 |
| 202932 1998 $TF_{27}$ | 17.7 | X | 190.39603 | 87.74347 | 15.87363 | 1.31206 | 0.0733251 | 0.30827157 | 2.1702698 | 20 | 8 2.0 | 20.3 |
| 202933 1998 $VY_{40}$ | 16.4 | X | 200.85804 | 173.57752 | 222.57112 | 1.25636 | 0.0962584 | 0.20706244 | 2.8296659 | 20 | 5 10.5 | 20.8 |
| 202934 1998 $WC_{39}$ | 15.9 | X | 131.31664 | 138.28824 | 174.12919 | 1.61699 | 0.1424935 | 0.18861643 | 3.0112700 | 20 | — | — |
| 202935 1998 $YJ_{17}$ | 16.3 | X | 52.99686 | 329.25097 | 135.50110 | 1.98388 | 0.1133275 | 0.18948993 | 3.0020088 | 20 | 2 15.4 | 19.9 |
| 202936 1998 $YL_{21}$ | 16.9 | X | 70.66536 | 222.59056 | 286.08615 | 3.58108 | 0.0721139 | 0.28901182 | 2.2656473 | 20 | 4 25.4 | 19.4 |
| 202937 1999 $AL_{18}$ | 17.1 | X | 144.39228 | 171.27643 | 305.84184 | 3.22029 | 0.0664976 | 0.29382519 | 2.2408358 | 20 | 6 23.1 | 19.9 |
| 202938 1999 $AY_{18}$ | 15.3 | X | 216.50085 | 164.20441 | 136.36577 | 3.28016 | 0.0484856 | 0.18898574 | 3.0073458 | 20 | 2 3.1 | 19.6 |
| 202939 1999 $AC_{26}$ | 16.8 | X | 348.32116 | 66.79178 | 132.87834 | 3.08033 | 0.1834143 | 0.27906380 | 2.3191760 | 20 | 2 9.8 | 19.0 |
| 202940 1999 $CD_{5}$ | 16.8 | X | 84.59551 | 67.84594 | 81.96732 | 4.72034 | 0.2032673 | 0.28811205 | 2.2703620 | 20 | 6 11.3 | 19.4 |
| 202941 1999 $CD_{14}$ | 16.8 | X | 172.35745 | 97.63651 | 16.45837 | 1.50618 | 0.1514750 | 0.29672358 | 2.2262196 | 20 | 7 23.2 | 20.0 |
| 202942 1999 $CK_{89}$ | 16.9 | X | 170.96414 | 117.31464 | 328.19315 | 6.40005 | 0.1443354 | 0.29424157 | 2.2387213 | 20 | 6 11.8 | 20.3 |
| 202943 1999 EO | 16.2 | X | 5.04225 | 29.92262 | 152.98022 | 4.54438 | 0.1288311 | 0.18907798 | 3.0063675 | 20 | 3 10.2 | 19.7 |
| 202944 1999 $FM_{2}$ | 15.6 | X | 46.87063 | 296.46923 | 167.13597 | 2.65508 | 0.0615927 | 0.18381827 | 3.0634463 | 20 | 1 31.9 | 19.7 |
| 202945 1999 $FY_{78}$ | 15.7 | X | 359.53979 | 100.20674 | 81.35538 | 3.82071 | 0.1530697 | 0.18490015 | 3.0514848 | 20 | 2 28.4 | 19.2 |
| 202946 1999 $FL_{96}$ | 16.3 | X | 92.85307 | 213.22615 | 98.65555 | 13.20368 | 0.1757689 | 0.25546101 | 2.4599124 | 20 | — | — |
| 202947 1999 $GC_{11}$ | 17.8 | X | 85.33905 | 342.65832 | 154.87030 | 0.52743 | 0.1776382 | 0.28582571 | 2.2824531 | 20 | 5 21.5 | 20.3 |
| 202948 1999 $JU_{41}$ | 16.9 | X | 317.24900 | 137.80241 | 95.32706 | 3.30488 | 0.1615576 | 0.27571832 | 2.3378984 | 20 | 2 12.2 | 19.5 |
| 202949 1999 $JQ_{87}$ | 16.3 | X | 225.30114 | 145.17370 | 96.50319 | 6.59689 | 0.2321893 | 0.26523802 | 2.3990844 | 20 | — | — |
| 202950 1999 $JB_{116}$ | 16.3 | X | 131.54572 | 118.22593 | 172.67014 | 6.16976 | 0.1239720 | 0.25697507 | 2.4502405 | 20 | — | — |
| 202951 1999 RE | 15.4 | X | 318.24620 | 301.11973 | 23.40953 | 12.07693 | 0.3126432 | 0.22961745 | 2.6411889 | 20 | 5 29.9 | 18.2 |
| 202952 1999 $RW_{20}$ | 15.8 | X | 351.36745 | 358.06993 | 8.91992 | 8.08859 | 0.1940551 | 0.23781280 | 2.5801556 | 20 | 11 12.2 | 18.4 |
| 202953 1999 $RS_{45}$ | 16.2 | X | 284.37570 | 35.05123 | 347.59618 | 5.40447 | 0.2256530 | 0.22991108 | 2.6389396 | 20 | 7 14.8 | 19.5 |
| 202954 1999 $RU_{68}$ | 16.5 | X | 347.06629 | 252.06424 | 116.04543 | 3.70756 | 0.2466239 | 0.23794503 | 2.5791996 | 20 | 11 15.9 | 18.6 |
| 202955 1999 $RQ_{89}$ | 16.6 | X | 16.94680 | 330.77600 | 14.07808 | 3.87954 | 0.2720758 | 0.23928422 | 2.5695674 | 20 | 12 10.9 | 19.6 |
| 202956 1999 $RR_{91}$ | 16.2 | X | 322.80843 | 229.82314 | 150.48716 | 3.62614 | 0.2323540 | 0.23463809 | 2.6033769 | 20 | 9 30.1 | 18.0 |
| 202957 1999 $RF_{103}$ | 15.7 | X | 8.64011 | 52.12914 | 295.68982 | 11.57900 | 0.2707981 | 0.23909185 | 2.5709455 | 20 | 12 1.5 | 18.6 |
| 202958 1999 $RQ_{109}$ | 15.2 | X | 341.94148 | 30.46225 | 318.24450 | 12.16684 | 0.2473473 | 0.23433702 | 2.6056062 | 20 | 9 21.8 | 17.3 |
| 202959 1999 $RA_{151}$ | 15.9 | X | 331.44487 | 210.04633 | 132.57853 | 6.02642 | 0.2564926 | 0.23419024 | 2.6066948 | 20 | 8 18.6 | 17.7 |
| 202960 1999 $RM_{156}$ | 16.2 | X | 294.78797 | 179.40553 | 184.67544 | 7.56776 | 0.2125435 | 0.23054088 | 2.6341313 | 20 | 7 4.9 | 19.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 202961 1999 $RU_{157}$ | 16.6 | X | 340.20336 | 241.45102 | 126.77648 | 5.71211 | 0.2887490 | 0.23673634 | 2.5879712 | 20 | 11 4.8 | 18.3 |
| 202962 1999 $RU_{225}$ | 16.3 | X | 329.32582 | 48.34445 | 283.23248 | 2.54769 | 0.2493688 | 0.23372605 | 2.6101450 | 20 | 7 23.4 | 18.1 |
| 202963 1999 $RU_{242}$ | 16.0 | X | 8.73459 | 303.28156 | 56.73561 | 6.69361 | 0.1921819 | 0.23981194 | 2.5657963 | 20 | 12 5.9 | 18.9 |
| 202964 1999 $TH_{15}$ | 15.4 | X | 130.72782 | 198.82462 | 16.49749 | 12.36289 | 0.0976569 | 0.23488309 | 2.6015662 | 20 | 10 13.6 | 19.3 |
| 202965 1999 $TK_{28}$ | 14.9 | X | 233.88623 | 84.93691 | 288.19643 | 2.23899 | 0.2694642 | 0.12717341 | 3.9162629 | 20 | 5 4.0 | 21.3 |
| 202966 1999 $TE_{32}$ | 15.9 | X | 273.68127 | 201.68709 | 202.77993 | 14.38073 | 0.1091025 | 0.22964706 | 2.6409618 | 20 | 8 11.8 | 19.6 |
| 202967 1999 $TH_{69}$ | 16.4 | X | 351.48394 | 14.73847 | 339.68767 | 1.97691 | 0.1801140 | 0.23488157 | 2.6015775 | 20 | 10 24.0 | 18.9 |
| 202968 1999 $TR_{70}$ | 16.6 | X | 307.89706 | 30.10019 | 20.27396 | 2.41123 | 0.0768633 | 0.23481276 | 2.6020856 | 20 | 10 22.2 | 19.5 |
| 202969 1999 $TP_{77}$ | 16.5 | X | 161.68908 | 220.23498 | 26.70426 | 3.09704 | 0.1044772 | 0.24126845 | 2.5554596 | 20 | 12 24.8 | 20.4 |
| 202970 1999 $TF_{81}$ | 16.3 | X | 224.23611 | 152.48632 | 41.00492 | 5.16926 | 0.0788736 | 0.24426101 | 2.5345447 | 20 | — | — |
| 202971 1999 $TW_{95}$ | 16.2 | X | 259.41808 | 211.91391 | 137.78954 | 4.35162 | 0.2273155 | 0.22348359 | 2.6892982 | 20 | 5 1.8 | 20.3 |
| 202972 1999 $TP_{97}$ | 15.9 | X | 329.28827 | 267.42976 | 84.06171 | 4.66729 | 0.2007072 | 0.23237790 | 2.6202305 | 20 | 9 2.0 | 18.1 |
| 202973 1999 $TW_{101}$ | 15.7 | X | 226.11427 | 304.76078 | 86.90078 | 9.99904 | 0.2061767 | 0.22169181 | 2.7037692 | 20 | 5 24.6 | 20.1 |
| 202974 1999 $TZ_{113}$ | 16.1 | X | 274.06196 | 187.00531 | 197.66450 | 14.51381 | 0.1563452 | 0.22837897 | 2.6507289 | 20 | 7 10.1 | 19.9 |
| 202975 1999 $TT_{121}$ | 14.9 | X | 217.68366 | 351.97842 | 48.58429 | 2.74960 | 0.2907197 | 0.12569546 | 3.9469018 | 20 | 5 22.8 | 21.5 |
| 202976 1999 $TV_{129}$ | 16.1 | X | 232.63311 | 114.49217 | 279.34587 | 1.31409 | 0.1875291 | 0.22430973 | 2.6826909 | 20 | 6 2.4 | 20.2 |
| 202977 1999 $TU_{159}$ | 16.5 | X | 309.01864 | 187.27567 | 222.67176 | 3.79425 | 0.1732355 | 0.23671345 | 2.5881380 | 20 | 10 16.9 | 19.0 |
| 202978 1999 $TF_{165}$ | 16.0 | X | 169.38489 | 209.73470 | 357.08512 | 14.44092 | 0.0036319 | 0.23924089 | 2.5698777 | 20 | 11 13.9 | 19.7 |
| 202979 1999 $TR_{202}$ | 16.7 | X | 294.70629 | 121.15396 | 307.24048 | 2.71185 | 0.0956046 | 0.23577855 | 2.5949751 | 20 | 10 23.3 | 19.7 |
| 202980 1999 $TP_{222}$ | 16.3 | X | 345.89459 | 222.89954 | 113.21829 | 4.76440 | 0.3185113 | 0.23387495 | 2.6090370 | 20 | 9 29.7 | 17.7 |
| 202981 1999 $TR_{238}$ | 15.7 | X | 256.53889 | 210.04179 | 171.54662 | 9.70190 | 0.1289141 | 0.22474992 | 2.6791870 | 20 | 6 19.8 | 19.7 |
| 202982 1999 $TD_{239}$ | 14.6 | X | 227.64618 | 299.33513 | 73.71733 | 3.96903 | 0.2609697 | 0.12489961 | 3.9636502 | 20 | 5 1.4 | 21.0 |
| 202983 1999 $TL_{272}$ | 15.8 | X | 319.96566 | 106.06401 | 226.11817 | 10.69853 | 0.1998448 | 0.22880537 | 2.6474346 | 20 | 7 5.6 | 18.6 |
| 202984 1999 $UR_{29}$ | 16.0 | X | 24.57105 | 200.94052 | 24.30563 | 12.18043 | 0.1234845 | 0.22301914 | 2.6930306 | 20 | 6 7.8 | 19.2 |
| 202985 1999 $VC_{18}$ | 17.1 | X | 288.46715 | 62.65701 | 6.77365 | 3.64424 | 0.1015622 | 0.23398361 | 2.6082292 | 20 | 10 14.4 | 20.1 |
| 202986 1999 $VW_{33}$ | 16.4 | X | 299.09502 | 334.52752 | 71.59230 | 3.99694 | 0.2236281 | 0.23056871 | 2.6339194 | 20 | 9 15.2 | 19.0 |
| 202987 1999 $VU_{40}$ | 16.7 | X | 295.21221 | 149.37007 | 244.64180 | 1.82503 | 0.1618999 | 0.23073989 | 2.6326164 | 20 | 8 26.9 | 19.7 |
| 202988 1999 $VW_{41}$ | 16.4 | X | 290.70283 | 115.97827 | 246.06002 | 4.84173 | 0.1910862 | 0.22732116 | 2.6589458 | 20 | 6 29.4 | 19.7 |
| 202989 1999 $VP_{78}$ | 16.2 | X | 277.79688 | 79.63081 | 354.73462 | 4.16665 | 0.2086462 | 0.23206781 | 2.6225641 | 20 | 9 17.6 | 19.3 |
| 202990 1999 $VN_{101}$ | 15.7 | X | 119.02679 | 18.58922 | 62.67036 | 5.32019 | 0.0483834 | 0.21140415 | 2.7907892 | 20 | 4 5.1 | 19.5 |
| 202991 1999 $VR_{110}$ | 16.4 | X | 167.16716 | 222.26389 | 231.91570 | 4.49674 | 0.0882708 | 0.21785842 | 2.7353935 | 20 | 6 17.6 | 20.6 |
| 202992 1999 $VG_{135}$ | 15.3 | X | 193.63056 | 103.84437 | 293.87328 | 2.64668 | 0.3104893 | 0.12382553 | 3.9865382 | 20 | 5 2.8 | 22.1 |
| 202993 1999 $VP_{135}$ | 16.8 | X | 185.69663 | 213.69875 | 229.93445 | 6.17594 | 0.2840367 | 0.21937040 | 2.7228102 | 20 | 6 20.6 | 21.7 |
| 202994 1999 $VT_{138}$ | 16.1 | X | 81.68494 | 86.68681 | 69.06875 | 10.19706 | 0.0965845 | 0.21453049 | 2.7636096 | 20 | 5 29.4 | 19.8 |
| 202995 1999 $VC_{142}$ | 16.5 | X | 171.72689 | 233.00181 | 25.61611 | 1.02106 | 0.0833660 | 0.24338570 | 2.5406178 | 20 | — | — |
| 202996 1999 $VN_{166}$ | 16.1 | X | 210.38274 | 110.16206 | 246.95654 | 9.26118 | 0.2011064 | 0.21492572 | 2.7602206 | 20 | 3 25.4 | 20.9 |
| 202997 1999 $VT_{175}$ | 16.8 | X | 206.07299 | 123.39659 | 45.41642 | 3.68350 | 0.2350048 | 0.23228218 | 2.6209503 | 20 | 10 22.3 | 21.0 |
| 202998 1999 $VJ_{183}$ | 15.9 | X | 282.77532 | 61.47312 | 41.43778 | 12.55521 | 0.2738139 | 0.23535138 | 2.5981141 | 20 | 10 28.1 | 18.2 |
| 202999 1999 $VE_{186}$ | 15.9 | X | 241.53821 | 28.54109 | 55.01884 | 16.07511 | 0.1940173 | 0.22746029 | 2.6578613 | 20 | 8 22.5 | 20.1 |
| 203000 1999 $VC_{195}$ | 15.8 | X | 281.83243 | 16.25738 | 64.56450 | 8.71537 | 0.1672547 | 0.23376505 | 2.6098547 | 20 | 10 14.7 | 18.8 |
| 203001 1999 $VL_{197}$ | 16.0 | X | 338.05648 | 350.57770 | 54.69825 | 14.82940 | 0.1632933 | 0.23796859 | 2.5790294 | 20 | 12 8.8 | 18.6 |
| 203002 1999 $VZ_{203}$ | 15.8 | X | 270.50955 | 87.78383 | 277.03239 | 9.44587 | 0.2817329 | 0.22548101 | 2.6733926 | 20 | 5 23.3 | 19.8 |
| 203003 1999 $VD_{208}$ | 16.4 | X | 8.27034 | 237.40402 | 79.95163 | 3.56952 | 0.0751942 | 0.22942153 | 2.6426923 | 20 | 9 21.2 | 19.5 |
| 203004 1999 $VD_{210}$ | 16.3 | X | 174.56366 | 343.16001 | 50.59953 | 6.95075 | 0.0364232 | 0.21387678 | 2.7692381 | 20 | 4 9.9 | 20.3 |
| 203005 1999 $VA_{211}$ | 15.9 | X | 268.25208 | 337.94357 | 78.55674 | 15.05293 | 0.2382759 | 0.22808786 | 2.6529838 | 20 | 8 8.5 | 19.7 |
| 203006 1999 $WS_{12}$ | 16.5 | X | 325.86322 | 340.51555 | 49.43733 | 4.47395 | 0.1996019 | 0.23519957 | 2.5992319 | 20 | 10 24.2 | 18.6 |
| 203007 1999 $XB_{30}$ | 15.5 | X | 199.34265 | 228.06602 | 234.93948 | 11.75597 | 0.1721525 | 0.22159427 | 2.7045625 | 20 | 7 25.7 | 20.1 |
| 203008 1999 $XV_{50}$ | 16.1 | X | 244.43987 | 304.23585 | 84.85619 | 4.82785 | 0.2354322 | 0.22200350 | 2.7012379 | 20 | 6 3.6 | 20.3 |
| 203009 1999 $XV_{96}$ | 15.5 | X | 226.34254 | 145.67138 | 261.50664 | 8.14578 | 0.2144568 | 0.22019273 | 2.7160269 | 20 | 6 11.2 | 19.7 |
| 203010 1999 $XJ_{181}$ | 15.9 | X | 263.54362 | 79.94087 | 311.39327 | 7.01434 | 0.3514392 | 0.22523493 | 2.6753394 | 20 | 6 11.7 | 20.1 |
| 203011 1999 $XH_{183}$ | 15.5 | X | 268.78734 | 111.24168 | 301.00178 | 12.71525 | 0.0807811 | 0.22596537 | 2.6695709 | 20 | 8 20.3 | 19.0 |
| 203012 1999 $XE_{203}$ | 15.0 | X | 320.64588 | 86.01728 | 297.25191 | 24.77054 | 0.2346855 | 0.22914747 | 2.6447990 | 20 | 9 6.6 | 18.0 |
| 203013 1999 $XJ_{204}$ | 15.8 | X | 120.52045 | 167.82777 | 315.40670 | 10.97357 | 0.1662747 | 0.21083842 | 2.7957792 | 20 | 6 10.8 | 20.2 |
| 203014 1999 $XC_{233}$ | 15.4 | X | 275.50345 | 266.18491 | 77.45161 | 11.65849 | 0.2558512 | 0.22287422 | 2.6941979 | 20 | 5 8.7 | 19.4 |
| 203015 1999 $YF_{3}$ | 18.4 | X | 103.33577 | 147.08247 | 298.90094 | 26.76280 | 0.1433424 | 0.54360148 | 1.4869018 | 20 | 2 2.1 | 18.0 |
| 203016 1999 $YP_{4}$ | 15.5 | X | 341.80655 | 74.86079 | 312.97097 | 33.69612 | 0.1987131 | 0.23442484 | 2.6049555 | 20 | 11 16.3 | 19.0 |
| 203017 2000 $AM_{45}$ | 15.6 | X | 153.73395 | 239.67525 | 271.95949 | 14.57693 | 0.2161391 | 0.21892228 | 2.7265245 | 20 | 8 12.7 | 20.5 |
| 203018 2000 $AJ_{93}$ | 15.5 | X | 225.39336 | 145.26285 | 300.01590 | 21.66521 | 0.1317974 | 0.22036691 | 2.7145955 | 20 | 8 2.7 | 19.6 |
| 203019 2000 $AN_{126}$ | 16.0 | X | 181.98611 | 346.06792 | 138.51703 | 10.72756 | 0.1916316 | 0.21758394 | 2.7376935 | 20 | 8 8.8 | 20.7 |
| 203020 2000 $AW_{127}$ | 15.7 | X | 172.07046 | 251.80190 | 303.21857 | 14.42293 | 0.3624357 | 0.22072303 | 2.7116748 | 20 | 10 13.1 | 21.2 |
| 203021 2000 $AJ_{152}$ | 15.0 | X | 232.61974 | 327.56925 | 118.82335 | 29.88680 | 0.1449076 | 0.22369042 | 2.6876402 | 20 | 8 15.4 | 19.1 |
| 203022 2000 $AD_{183}$ | 15.4 | X | 186.97312 | 245.37997 | 241.60089 | 12.90402 | 0.1580371 | 0.22082726 | 2.7108215 | 20 | 8 12.1 | 20.0 |
| 203023 2000 $AM_{208}$ | 15.7 | X | 183.26462 | 356.61855 | 89.06314 | 13.73685 | 0.0944337 | 0.21712043 | 2.7415884 | 20 | 6 23.9 | 19.8 |
| 203024 2000 $AL_{212}$ | 16.4 | X | 196.87188 | 114.13519 | 322.99210 | 6.71108 | 0.2085458 | 0.21336893 | 2.7736305 | 20 | 6 23.4 | 21.1 |
| 203025 2000 $AO_{225}$ | 16.4 | X | 33.17095 | 270.32607 | 329.93170 | 0.99583 | 0.0448908 | 0.21524763 | 2.7574678 | 20 | 7 6.9 | 19.9 |
| 203026 2000 $AN_{226}$ | 16.2 | X | 136.17330 | 160.44403 | 304.34754 | 3.34938 | 0.0179020 | 0.21127326 | 2.7919418 | 20 | 5 20.4 | 20.2 |
| 203027 2000 $AC_{241}$ | 15.2 | X | 142.53682 | 308.77684 | 154.43676 | 13.72717 | 0.2031854 | 0.21437501 | 2.7649458 | 20 | 6 11.3 | 20.0 |
| 203028 2000 $AQ_{252}$ | 16.3 | X | 188.55215 | 75.54449 | 119.37996 | 4.23694 | 0.0284138 | 0.22894223 | 2.6463794 | 20 | 11 24.6 | 20.0 |
| 203029 2000 $BR$ | 16.1 | X | 120.06662 | 239.33028 | 290.53687 | 6.53226 | 0.1558345 | 0.21457964 | 2.7631876 | 20 | 8 6.9 | 20.5 |
| 203030 2000 $BM_{1}$ | 16.4 | X | 157.35771 | 39.12390 | 118.85227 | 3.78695 | 0.0727241 | 0.21936701 | 2.7228382 | 20 | 8 29.6 | 20.3 |
| 203031 2000 $BQ_{10}$ | 16.0 | X | 269.63153 | 284.46752 | 119.76788 | 6.23703 | 0.0565427 | 0.21978860 | 2.7193552 | 20 | 8 18.7 | 19.6 |
| 203032 2000 $BR_{11}$ | 16.2 | X | 169.80048 | 190.37289 | 293.58273 | 7.20480 | 0.1982031 | 0.21710172 | 2.7417460 | 20 | 7 28.0 | 20.9 |
| 203033 2000 $BD_{33}$ | 15.8 | X | 84.37955 | 257.84232 | 317.53012 | 6.65936 | 0.1595329 | 0.21436936 | 2.7649943 | 20 | 8 27.7 | 19.9 |
| 203034 2000 $BY_{48}$ | 15.8 | X | 210.19132 | 208.33743 | 116.62674 | 3.81944 | 0.1459719 | 0.20136392 | 2.8828029 | 20 | 2 23.1 | 20.4 |
| 203035 2000 $CJ_{65}$ | 16.1 | X | 287.37804 | 128.79159 | 344.23192 | 2.86667 | 0.0809105 | 0.22971115 | 2.6404706 | 20 | 12 12.2 | 19.2 |
| 203036 2000 $CX_{65}$ | 15.9 | X | 189.04084 | 64.34501 | 155.80137 | 5.75580 | 0.1546741 | 0.22883812 | 2.6471820 | 20 | 12 13.7 | 20.1 |
| 203037 2000 $CE_{79}$ | 16.0 | X | 349.80637 | 348.88961 | 317.00689 | 4.13984 | 0.0512914 | 0.21405187 | 2.7677277 | 20 | 8 1.8 | 19.3 |
| 203038 2000 $CE_{113}$ | 15.8 | X | 175.86087 | 297.35110 | 127.37067 | 8.68023 | 0.2217170 | 0.21199943 | 2.7855626 | 20 | 5 23.8 | 20.7 |
| 203039 2000 $DG_{10}$ | 16.1 | X | 249.17672 | 127.43095 | 142.23035 | 2.67095 | 0.0570118 | 0.19490326 | 2.9461621 | 20 | 1 31.5 | 20.5 |
| 203040 2000 $DH_{11}$ | 15.9 | X | 192.40039 | 119.06703 | 333.83092 | 4.49462 | 0.0839571 | 0.21368599 | 2.7708861 | 20 | 7 14.4 | 20.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203041 2000 $DE_{36}$ | 17.5 | X | 56.55304 | 48.03516 | 159.66396 | 3.91178 | 0.0902880 | 0.30543752 | 2.1836740 | 20 | 7 7.2 | 19.8 |
| 203042 2000 $DZ_{46}$ | 15.9 | X | 97.61163 | 218.09134 | 311.03345 | 2.64817 | 0.0325058 | 0.20883160 | 2.8136619 | 20 | 6 27.7 | 19.8 |
| 203043 2000 $DR_{48}$ | 16.2 | X | 52.49899 | 243.76634 | 326.14381 | 3.50665 | 0.0477215 | 0.20843296 | 2.8172483 | 20 | 6 23.4 | 19.8 |
| 203044 2000 $DG_{113}$ | 16.1 | X | 91.68511 | 192.93267 | 335.74239 | 3.64431 | 0.0423364 | 0.20917889 | 2.8105468 | 20 | 6 20.7 | 19.9 |
| 203045 2000 $DW_{113}$ | 16.7 | X | 161.83166 | 48.06747 | 142.24440 | 4.43425 | 0.0953596 | 0.22142105 | 2.7059729 | 20 | 10 15.1 | 20.8 |
| 203046 2000 $EC_{45}$ | 15.3 | X | 178.88839 | 165.72361 | 356.11752 | 13.82191 | 0.1391887 | 0.21713628 | 2.7414550 | 20 | 9 22.4 | 19.6 |
| 203047 2000 $EC_{52}$ | 16.5 | X | 281.60244 | 163.35028 | 175.85579 | 1.94621 | 0.0522180 | 0.20729499 | 2.8275493 | 20 | 6 7.1 | 20.3 |
| 203048 2000 $EP_{109}$ | 15.6 | X | 186.42656 | 306.78764 | 118.77281 | 12.95728 | 0.2380077 | 0.21111647 | 2.7933239 | 20 | 6 2.4 | 20.6 |
| 203049 2000 $EO_{113}$ | 15.6 | X | 142.01266 | 7.71147 | 348.94024 | 8.50627 | 0.0959857 | 0.18991374 | 2.9975410 | 20 | 1 26.6 | 20.1 |
| 203050 2000 $EN_{125}$ | 15.9 | X | 198.85139 | 19.07451 | 152.99624 | 11.03459 | 0.1189880 | 0.22215407 | 2.7000172 | 20 | 10 31.2 | 20.1 |
| 203051 2000 $ER_{193}$ | 17.5 | X | 356.18117 | 357.24959 | 268.05160 | 1.61178 | 0.1374073 | 0.30248600 | 2.1978558 | 20 | 6 18.9 | 19.1 |
| 203052 2000 $FB_{20}$ | 15.7 | X | 229.44255 | 160.22571 | 47.89875 | 13.82705 | 0.1162540 | 0.22948867 | 2.6421768 | 20 | — | — |
| 203053 2000 $FH_{51}$ | 16.1 | X | 117.49960 | 95.23327 | 189.98175 | 1.04797 | 0.1837987 | 0.17165489 | 3.2065050 | 20 | 12 17.1 | 21.3 |
| 203054 2000 $GA_{16}$ | 16.7 | X | 329.57470 | 250.64995 | 14.23665 | 3.94978 | 0.1910455 | 0.29667032 | 2.2264861 | 20 | 4 10.7 | 18.7 |
| 203055 2000 $GH_{24}$ | 17.8 | X | 191.44566 | 272.54780 | 210.64941 | 1.05533 | 0.0991932 | 0.31099952 | 2.1575601 | 20 | 8 28.8 | 20.7 |
| 203056 2000 $GA_{26}$ | 17.2 | X | 334.69937 | 70.80748 | 191.17724 | 7.56668 | 0.1362219 | 0.29727331 | 2.2234743 | 20 | 4 27.2 | 19.1 |
| 203057 2000 $GP_{121}$ | 16.2 | X | 235.16708 | 311.26922 | 40.06029 | 2.19008 | 0.0288796 | 0.20022286 | 2.8937451 | 20 | 4 27.5 | 20.3 |
| 203058 2000 $GO_{180}$ | 16.0 | X | 6.13586 | 48.80638 | 201.29608 | 0.88170 | 0.0624602 | 0.20276198 | 2.8695361 | 20 | 6 10.2 | 19.4 |
| 203059 2000 $HO_{32}$ | 17.3 | X | 312.94260 | 235.52156 | 55.30725 | 6.28476 | 0.1626895 | 0.29508895 | 2.2344334 | 20 | 4 27.5 | 19.5 |
| 203060 2000 $HK_{67}$ | 15.7 | X | 252.15318 | 193.47697 | 46.60862 | 2.79849 | 0.0883095 | 0.18365872 | 3.0652202 | 20 | — | — |
| 203061 2000 $JP_{68}$ | 16.1 | X | 144.13998 | 44.06186 | 248.39656 | 0.32801 | 0.1502985 | 0.17581271 | 3.1557496 | 20 | — | — |
| 203062 2000 $KF_{3}$ | 16.3 | X | 262.80430 | 141.70578 | 82.53487 | 2.49705 | 0.1339159 | 0.18206288 | 3.0831059 | 20 | — | — |
| 203063 2000 $KM_{54}$ | 15.7 | X | 97.77147 | 73.69211 | 172.60853 | 13.35184 | 0.1542259 | 0.21084046 | 2.7957613 | 20 | 10 22.1 | 20.1 |
| 203064 2000 $NH_{20}$ | 15.9 | X | 117.10212 | 78.60108 | 292.06278 | 9.17947 | 0.2470706 | 0.27019186 | 2.3696700 | 20 | 1 20.9 | 19.0 |
| 203065 2000 $OR_{21}$ | 15.9 | X | 136.32780 | 79.16031 | 299.38195 | 21.13302 | 0.2596532 | 0.27314510 | 2.3525586 | 20 | 2 14.8 | 19.7 |
| 203066 2000 $PD_{19}$ | 16.5 | X | 98.19453 | 253.77599 | 120.12173 | 8.73440 | 0.1919614 | 0.26739615 | 2.3861584 | 20 | — | — |
| 203067 2000 $PE_{22}$ | 16.3 | X | 209.31278 | 231.83978 | 74.61738 | 7.51372 | 0.2237405 | 0.27586552 | 2.3370667 | 20 | 1 24.6 | 20.3 |
| 203068 2000 $PN_{32}$ | 15.2 | X | 299.36659 | 345.40737 | 337.08906 | 15.01420 | 0.1877807 | 0.19173014 | 2.9785790 | 20 | 5 13.9 | 19.4 |
| 203069 2000 $QS_{12}$ | 16.9 | X | 95.05145 | 204.52139 | 155.61411 | 1.72779 | 0.1988390 | 0.26558647 | 2.3969856 | 20 | — | — |
| 203070 2000 $QQ_{21}$ | 17.4 | X | 76.57640 | 19.89080 | 3.89831 | 2.12562 | 0.2300274 | 0.26425858 | 2.4050087 | 20 | — | — |
| 203071 2000 $QG_{27}$ | 16.8 | X | 134.50190 | 228.64748 | 144.51456 | 3.02504 | 0.2214508 | 0.27084398 | 2.3658648 | 20 | 2 9.4 | 20.3 |
| 203072 2000 $QC_{39}$ | 16.8 | X | 135.24183 | 39.72690 | 304.28383 | 3.46133 | 0.2243561 | 0.26922907 | 2.3753161 | 20 | 1 5.2 | 20.0 |
| 203073 2000 $QM_{39}$ | 17.2 | X | 178.51522 | 37.91420 | 315.52606 | 2.69544 | 0.1784633 | 0.27638185 | 2.3341551 | 20 | 2 21.9 | 20.7 |
| 203074 2000 $QT_{43}$ | 16.9 | X | 120.49805 | 188.93535 | 178.42085 | 1.30107 | 0.1987136 | 0.26927614 | 2.3750393 | 20 | 1 14.2 | 19.8 |
| 203075 2000 $QP_{46}$ | 17.0 | X | 140.84509 | 41.86253 | 321.38847 | 0.87538 | 0.1997809 | 0.27156810 | 2.3616573 | 20 | 2 1.0 | 20.1 |
| 203076 2000 $QU_{49}$ | 17.2 | X | 107.02930 | 17.75193 | 6.18493 | 1.29674 | 0.1865373 | 0.26885135 | 2.3775404 | 20 | 1 17.3 | 19.9 |
| 203077 2000 $QH_{57}$ | 17.1 | X | 112.46728 | 233.58097 | 143.48400 | 3.41555 | 0.1940019 | 0.26894495 | 2.3769887 | 20 | 1 16.0 | 19.9 |
| 203078 2000 $QR_{59}$ | 17.0 | X | 136.83990 | 252.46526 | 94.16246 | 3.29181 | 0.2109443 | 0.26934604 | 2.3746284 | 20 | 1 8.5 | 20.3 |
| 203079 2000 $QE_{82}$ | 16.9 | X | 73.20026 | 162.06120 | 181.23967 | 1.87838 | 0.2330662 | 0.25933230 | 2.4353702 | 20 | — | — |
| 203080 2000 $QF_{85}$ | 15.8 | X | 127.26628 | 82.22840 | 301.53609 | 6.11566 | 0.1256064 | 0.27247221 | 2.3564302 | 20 | 2 1.9 | 18.7 |
| 203081 2000 $QG_{86}$ | 16.2 | X | 319.31459 | 329.74302 | 307.70591 | 8.90078 | 0.1628319 | 0.28768092 | 2.2726297 | 20 | 4 11.6 | 18.7 |
| 203082 2000 $QN_{86}$ | 16.2 | X | 63.41658 | 123.73555 | 272.03257 | 5.25663 | 0.1219043 | 0.26478178 | 2.4018395 | 20 | — | — |
| 203083 2000 $QT_{95}$ | 16.9 | X | 119.40750 | 30.79010 | 341.14774 | 4.41360 | 0.1387551 | 0.26908431 | 2.3761680 | 20 | 1 11.0 | 19.9 |
| 203084 2000 $QN_{97}$ | 16.7 | X | 44.44550 | 37.36064 | 350.37413 | 13.49739 | 0.2492883 | 0.25892400 | 2.4379297 | 20 | — | — |
| 203085 2000 $QT_{100}$ | 16.7 | X | 189.38103 | 269.93578 | 68.61716 | 3.56731 | 0.1765685 | 0.27453175 | 2.3446301 | 20 | 2 15.3 | 20.4 |
| 203086 2000 $QX_{103}$ | 16.8 | X | 109.51752 | 299.69442 | 74.94932 | 3.14465 | 0.1973102 | 0.26697462 | 2.3886695 | 20 | 1 10.3 | 19.6 |
| 203087 2000 $QD_{123}$ | 16.3 | X | 129.50506 | 43.71055 | 308.25311 | 5.51642 | 0.1550774 | 0.26653897 | 2.3912716 | 20 | — | — |
| 203088 2000 $QD_{166}$ | 16.4 | X | 99.47950 | 139.44580 | 238.71170 | 5.71887 | 0.1316733 | 0.26712902 | 2.3877490 | 20 | — | — |
| 203089 2000 $QC_{203}$ | 16.3 | X | 185.82997 | 154.73523 | 130.79158 | 6.89228 | 0.1470929 | 0.26916525 | 2.3756916 | 20 | — | — |
| 203090 2000 $QU_{214}$ | 16.3 | X | 127.52203 | 351.84344 | 7.93452 | 7.31381 | 0.1276037 | 0.26851998 | 2.3794960 | 20 | 1 4.1 | 19.4 |
| 203091 2000 $QV_{215}$ | 16.5 | X | 43.27025 | 319.54292 | 84.74203 | 3.39329 | 0.2074780 | 0.26066437 | 2.4270661 | 20 | — | — |
| 203092 2000 $QY_{221}$ | 16.2 | X | 158.67250 | 244.53244 | 73.84220 | 6.85244 | 0.1256819 | 0.26987877 | 2.3715024 | 20 | — | — |
| 203093 2000 $RS_{6}$ | 16.3 | X | 104.32444 | 203.82197 | 157.36511 | 1.80774 | 0.2240512 | 0.26315790 | 2.4117101 | 20 | — | — |
| 203094 2000 $RU_{16}$ | 16.2 | X | 154.98856 | 62.27193 | 261.91985 | 5.83218 | 0.1255055 | 0.26868958 | 2.3784946 | 20 | — | — |
| 203095 2000 $RO_{37}$ | 15.6 | X | 128.69900 | 47.84726 | 315.14673 | 7.89619 | 0.1803030 | 0.26444027 | 2.4039070 | 20 | 1 17.8 | 18.8 |
| 203096 2000 $RQ_{43}$ | 16.1 | X | 178.87820 | 39.61364 | 309.90084 | 6.07270 | 0.1515243 | 0.27279482 | 2.3545720 | 20 | 2 15.9 | 19.7 |
| 203097 2000 $RL_{67}$ | 16.1 | X | 89.95142 | 208.30411 | 162.06407 | 6.05157 | 0.2143352 | 0.26143559 | 2.4222906 | 20 | — | — |
| 203098 2000 $RY_{84}$ | 17.1 | X | 182.99889 | 210.23106 | 116.62044 | 3.70449 | 0.1852118 | 0.27316878 | 2.3524226 | 20 | 1 25.4 | 20.7 |
| 203099 2000 $RF_{93}$ | 16.4 | X | 69.75656 | 68.59297 | 320.62437 | 6.60544 | 0.2726487 | 0.26076037 | 2.4264704 | 20 | — | — |
| 203100 2000 $RP_{93}$ | 17.2 | X | 76.85062 | 284.85750 | 58.03741 | 3.06266 | 0.2264518 | 0.25957217 | 2.4338696 | 20 | — | — |
| 203101 2000 $RN_{95}$ | 16.6 | X | 113.09418 | 291.79693 | 53.26916 | 3.19469 | 0.2231161 | 0.26417142 | 2.4055377 | 20 | — | — |
| 203102 2000 $RD_{102}$ | 15.9 | X | 94.39016 | 74.35981 | 303.03613 | 9.56154 | 0.2553141 | 0.26401997 | 2.4064575 | 20 | 1 2.1 | 18.3 |
| 203103 2000 $SS_{15}$ | 16.0 | X | 133.66578 | 82.91621 | 252.79947 | 8.38880 | 0.0924262 | 0.26590173 | 2.3950905 | 20 | — | — |
| 203104 2000 $SJ_{24}$ | 16.5 | X | 228.85864 | 147.68794 | 298.06459 | 23.14283 | 0.0735478 | 0.39259365 | 1.8471714 | 20 | 8 24.7 | 18.7 |
| 203105 2000 $SK_{31}$ | 16.9 | X | 64.67513 | 114.69032 | 277.06688 | 0.59067 | 0.1879765 | 0.26256547 | 2.4153365 | 20 | — | — |
| 203106 2000 $SP_{35}$ | 16.7 | X | 124.22296 | 312.96465 | 26.55360 | 2.71951 | 0.0620715 | 0.26506090 | 2.4001531 | 20 | — | — |
| 203107 2000 $ST_{38}$ | 16.5 | X | 73.45217 | 338.17737 | 66.50075 | 5.91060 | 0.1695408 | 0.26449758 | 2.4035597 | 20 | — | — |
| 203108 2000 $SD_{115}$ | 16.7 | X | 102.42541 | 345.16777 | 26.20222 | 3.56745 | 0.1936101 | 0.26426823 | 2.4049501 | 20 | — | — |
| 203109 2000 $SX_{115}$ | 16.8 | X | 117.26105 | 195.01079 | 152.99289 | 2.78358 | 0.2456948 | 0.26442262 | 2.4040139 | 20 | — | — |
| 203110 2000 $SE_{141}$ | 17.0 | X | 95.67564 | 91.61870 | 223.14411 | 6.18307 | 0.2722339 | 0.25896935 | 2.4376451 | 20 | — | — |
| 203111 2000 $SR_{143}$ | 16.2 | X | 287.09672 | 99.34209 | 242.79015 | 11.79113 | 0.1962241 | 0.23719590 | 2.5846273 | 20 | 5 26.8 | 19.5 |
| 203112 2000 $SN_{166}$ | 16.7 | X | 104.71371 | 128.12849 | 251.00469 | 5.40826 | 0.1298909 | 0.26573551 | 2.3960892 | 20 | — | — |
| 203113 2000 $SF_{181}$ | 16.2 | X | 168.82725 | 275.97297 | 68.77043 | 7.54310 | 0.2402719 | 0.27332739 | 2.3515124 | 20 | 2 9.7 | 20.2 |
| 203114 2000 $SK_{195}$ | 16.8 | X | 184.35893 | 298.36771 | 350.28656 | 3.14036 | 0.1668939 | 0.26875163 | 2.3781284 | 20 | — | — |
| 203115 2000 $SH_{196}$ | 16.8 | X | 71.82716 | 71.79159 | 357.20466 | 2.21408 | 0.1277257 | 0.26856997 | 2.3792007 | 20 | 1 15.0 | 19.0 |
| 203116 2000 $SP_{207}$ | 17.0 | X | 85.28752 | 116.50531 | 212.43060 | 1.30520 | 0.2047925 | 0.25810050 | 2.4431126 | 20 | — | — |
| 203117 2000 $SN_{218}$ | 16.5 | X | 171.90975 | 200.21981 | 136.63387 | 7.28502 | 0.3191849 | 0.27136555 | 2.3628323 | 20 | 2 4.3 | 20.6 |
| 203118 2000 $SP_{221}$ | 15.8 | X | 48.23547 | 246.08285 | 108.69958 | 9.67590 | 0.1617121 | 0.25384574 | 2.4703366 | 20 | — | — |
| 203119 2000 $SJ_{226}$ | 16.1 | X | 52.90743 | 243.63610 | 149.76712 | 6.86347 | 0.2399458 | 0.25804819 | 2.4434427 | 20 | — | — |
| 203120 2000 $SK_{226}$ | 16.4 | X | 20.15612 | 319.91542 | 88.99189 | 7.64010 | 0.2211751 | 0.25489777 | 2.4635347 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203121 2000 $SV_{228}$ | 16.8 | X | 50.47937 | 82.34324 | 343.99380 | 1.62404 | 0.2000426 | 0.26208734 | 2.4182731 | 20 | — | — |
| 203122 2000 $SY_{229}$ | 16.3 | X | 143.08404 | 309.72299 | 35.77520 | 6.29075 | 0.1437551 | 0.26647553 | 2.3916511 | 20 | 1 6.7 | 19.6 |
| 203123 2000 $SH_{231}$ | 16.7 | X | 150.73151 | 69.17563 | 269.11562 | 2.35338 | 0.2374524 | 0.26731122 | 2.3866639 | 20 | 1 14.8 | 20.2 |
| 203124 2000 $SV_{233}$ | 16.5 | X | 143.34048 | 244.80941 | 73.16828 | 7.14992 | 0.1628828 | 0.26582454 | 2.3955542 | 20 | — | — |
| 203125 2000 $SN_{237}$ | 16.4 | X | 112.61086 | 306.74199 | 87.60050 | 6.18469 | 0.1501229 | 0.26873974 | 2.3781986 | 20 | 2 3.4 | 19.3 |
| 203126 2000 $SV_{243}$ | 16.6 | X | 357.81173 | 313.05766 | 84.37479 | 3.25133 | 0.2041495 | 0.25391592 | 2.4698814 | 20 | — | — |
| 203127 2000 $SZ_{246}$ | 16.7 | X | 196.06373 | 253.60063 | 88.99673 | 4.45152 | 0.1333118 | 0.27566236 | 2.3382148 | 20 | 2 25.7 | 20.2 |
| 203128 2000 $SE_{249}$ | 14.7 | X | 154.01668 | 348.91193 | 61.44515 | 3.22223 | 0.2792195 | 0.12537171 | 3.9536937 | 20 | 4 22.6 | 21.3 |
| 203129 2000 $SA_{252}$ | 16.1 | X | 48.08224 | 74.01674 | 27.63638 | 13.27920 | 0.1084224 | 0.26780998 | 2.3836997 | 20 | 1 22.2 | 18.8 |
| 203130 2000 $SO_{258}$ | 16.9 | X | 49.83166 | 284.37821 | 100.22336 | 5.04613 | 0.2021870 | 0.25799672 | 2.4437677 | 20 | — | — |
| 203131 2000 $SJ_{277}$ | 15.4 | X | 52.91187 | 347.41245 | 40.05802 | 8.48400 | 0.3123333 | 0.25746040 | 2.4471603 | 20 | — | — |
| 203132 2000 $SG_{352}$ | 16.4 | X | 322.78650 | 318.93300 | 48.59781 | 8.60357 | 0.2814744 | 0.24638161 | 2.5199805 | 20 | 9 12.6 | 18.0 |
| 203133 2000 $SO_{369}$ | 16.4 | X | 185.98200 | 346.49502 | 338.81456 | 5.27923 | 0.1273202 | 0.27109684 | 2.3643934 | 20 | 1 24.5 | 19.8 |
| 203134 2000 $TK_{2}$ | 16.4 | X | 250.96522 | 42.34524 | 43.44178 | 4.61293 | 0.1860957 | 0.24284901 | 2.5443596 | 20 | 9 2.7 | 19.8 |
| 203135 2000 $TM_{6}$ | 17.0 | X | 348.78270 | 117.99993 | 336.01256 | 0.80083 | 0.1625333 | 0.25847178 | 2.4407724 | 20 | — | — |
| 203136 2000 $TT_{13}$ | 17.2 | X | 47.13269 | 63.79148 | 5.11634 | 2.05085 | 0.1912862 | 0.26221339 | 2.4174981 | 20 | — | — |
| 203137 2000 $TY_{28}$ | 17.7 | X | 35.43015 | 36.39338 | 344.47631 | 0.59245 | 0.1890030 | 0.25637072 | 2.4540897 | 20 | — | — |
| 203138 2000 $TH_{58}$ | 16.7 | X | 132.79599 | 241.38641 | 131.56546 | 3.26628 | 0.1294878 | 0.26825877 | 2.3810404 | 20 | 1 27.1 | 19.8 |
| 203139 2000 $UP_{20}$ | 16.9 | X | 77.40117 | 247.71164 | 138.20660 | 2.10940 | 0.1917989 | 0.26148307 | 2.4219974 | 20 | — | — |
| 203140 2000 $UT_{21}$ | 16.7 | X | 122.33188 | 275.03386 | 104.81207 | 3.68718 | 0.1939465 | 0.26707297 | 2.3880830 | 20 | 2 2.2 | 19.7 |
| 203141 2000 $UV_{41}$ | 16.2 | X | 56.56328 | 356.92582 | 46.52493 | 5.67933 | 0.1039049 | 0.25940619 | 2.4349077 | 20 | — | — |
| 203142 2000 $UV_{57}$ | 16.3 | X | 301.07947 | 103.66200 | 308.30503 | 2.26725 | 0.2041766 | 0.24534839 | 2.5270504 | 20 | 10 1.1 | 18.5 |
| 203143 2000 $UW_{57}$ | 16.2 | X | 57.02777 | 88.19155 | 305.52103 | 2.09292 | 0.1822686 | 0.25984408 | 2.4321713 | 20 | — | — |
| 203144 2000 $UO_{61}$ | 16.3 | X | 277.58095 | 125.81605 | 233.37277 | 12.10854 | 0.1990133 | 0.23655452 | 2.5892971 | 20 | 6 5.9 | 19.8 |
| 203145 2000 $UZ_{84}$ | 17.2 | X | 36.50452 | 9.34272 | 55.60462 | 4.30891 | 0.1683155 | 0.25957231 | 2.4338687 | 20 | — | — |
| 203146 2000 $VE_{4}$ | 16.8 | X | 72.57770 | 353.10443 | 9.50126 | 0.89726 | 0.1975558 | 0.25856993 | 2.4401548 | 20 | — | — |
| 203147 2000 $VP_{4}$ | 17.2 | X | 171.55522 | 337.25622 | 347.05631 | 1.79168 | 0.1968204 | 0.26883490 | 2.3776374 | 20 | 1 13.6 | 20.8 |
| 203148 2000 $VY_{38}$ | 17.3 | X | 134.17571 | 50.58645 | 52.97372 | 23.31865 | 0.0667943 | 0.37905265 | 1.8909049 | 20 | 5 18.4 | 19.2 |
| 203149 2000 $VP_{48}$ | 16.5 | X | 86.37379 | 334.15209 | 15.86778 | 2.50567 | 0.2190254 | 0.25735013 | 2.4478593 | 20 | — | — |
| 203150 2000 $WA_{10}$ | 15.9 | X | 10.33788 | 200.10801 | 103.81240 | 13.08032 | 0.1727684 | 0.23338866 | 2.6126599 | 20 | 9 23.4 | 18.9 |
| 203151 2000 $WV_{10}$ | 15.9 | X | 232.76470 | 44.41130 | 98.89409 | 14.65444 | 0.1013235 | 0.24048947 | 2.5609750 | 20 | 11 10.4 | 19.5 |
| 203152 2000 $WH_{15}$ | 15.6 | X | 29.66825 | 235.68720 | 86.55266 | 14.12543 | 0.1293578 | 0.24555662 | 2.5256216 | 20 | 11 12.8 | 18.9 |
| 203153 2000 $WL_{18}$ | 16.5 | X | 22.32715 | 224.60445 | 202.16208 | 4.25667 | 0.1770826 | 0.25610467 | 2.4557890 | 20 | — | — |
| 203154 2000 $WT_{31}$ | 15.9 | X | 34.51041 | 285.86680 | 98.03338 | 8.69332 | 0.1514926 | 0.25311501 | 2.4750888 | 20 | — | — |
| 203155 2000 $WU_{101}$ | 16.5 | X | 281.04871 | 189.07041 | 192.53280 | 3.75015 | 0.1803725 | 0.23793957 | 2.5792391 | 20 | 7 14.4 | 19.7 |
| 203156 2000 $WK_{138}$ | 14.9 | X | 179.07999 | 207.01224 | 196.42980 | 2.32491 | 0.2607161 | 0.12494648 | 3.9626590 | 20 | 5 1.1 | 21.5 |
| 203157 2000 $WC_{140}$ | 14.8 | X | 167.81787 | 42.48252 | 38.41425 | 2.75042 | 0.2457513 | 0.12585200 | 3.9436282 | 20 | 6 3.8 | 21.4 |
| 203158 2000 $WF_{142}$ | 15.8 | X | 103.88632 | 323.22840 | 111.37192 | 10.10548 | 0.2415925 | 0.26998458 | 2.3708828 | 20 | 4 3.5 | 19.2 |
| 203159 2000 $WQ_{144}$ | 14.6 | X | 177.20724 | 253.40661 | 153.09084 | 3.45824 | 0.2480884 | 0.12394212 | 3.9840376 | 20 | 5 3.9 | 21.2 |
| 203160 2000 $WB_{159}$ | 16.5 | X | 345.24363 | 0.26536 | 60.79339 | 1.38027 | 0.0442694 | 0.24703003 | 2.5155689 | 20 | — | — |
| 203161 2000 $WO_{167}$ | 15.8 | X | 72.61578 | 145.46994 | 192.52767 | 6.02907 | 0.1266931 | 0.25340709 | 2.4731866 | 20 | — | — |
| 203162 2000 $WA_{180}$ | 16.9 | X | 270.37449 | 248.15685 | 198.75923 | 4.01534 | 0.2095342 | 0.24265605 | 2.5457083 | 20 | 9 24.6 | 19.9 |
| 203163 2000 $XU_{5}$ | 16.3 | X | 347.90778 | 137.17012 | 321.68541 | 7.20746 | 0.1997217 | 0.25400168 | 2.4693254 | 20 | — | — |
| 203164 2000 $XY_{15}$ | 15.5 | X | 297.51969 | 112.65577 | 311.35290 | 12.32714 | 0.1577567 | 0.24519861 | 2.5280794 | 20 | 10 11.3 | 18.4 |
| 203165 2000 $XP_{22}$ | 16.5 | X | 38.05939 | 92.70628 | 327.69347 | 5.37203 | 0.1916933 | 0.25715819 | 2.4490772 | 20 | — | — |
| 203166 2000 $XB_{39}$ | 16.6 | X | 329.53196 | 27.73372 | 293.39735 | 25.42384 | 0.0255909 | 0.38314380 | 1.8774203 | 20 | 8 2.3 | 18.2 |
| 203167 2000 $XT_{44}$ | 15.4 | X | 167.39405 | 106.33731 | 52.95671 | 29.78803 | 0.3184171 | 0.23084762 | 2.6317974 | 20 | 9 26.1 | 20.8 |
| 203168 2000 $XL_{45}$ | 16.7 | X | 222.50384 | 50.90408 | 321.35750 | 18.34677 | 0.0870997 | 0.37699072 | 1.8977934 | 20 | 4 15.6 | 19.5 |
| 203169 2000 $YF_{26}$ | 16.0 | X | 281.12747 | 147.45212 | 292.46385 | 14.99996 | 0.1239245 | 0.24040742 | 2.5615576 | 20 | 10 6.9 | 19.5 |
| 203170 2000 $YH_{42}$ | 16.3 | X | 307.35045 | 42.67653 | 107.54675 | 3.52145 | 0.1445671 | 0.25166563 | 2.4845826 | 20 | — | — |
| 203171 2000 $YU_{48}$ | 16.1 | X | 323.53963 | 348.39225 | 86.61771 | 2.70615 | 0.1351337 | 0.24582289 | 2.5237975 | 20 | 12 26.4 | 18.7 |
| 203172 2000 $YY_{94}$ | 16.7 | X | 35.63638 | 143.69989 | 256.24691 | 2.30790 | 0.2076499 | 0.25210229 | 2.4817128 | 20 | — | — |
| 203173 2000 $YL_{98}$ | 16.4 | X | 307.38612 | 332.86976 | 117.80285 | 9.29948 | 0.2377711 | 0.24433643 | 2.5340231 | 20 | 12 16.6 | 18.3 |
| 203174 2000 $YK_{107}$ | 15.6 | X | 91.29691 | 183.19969 | 293.88393 | 7.92025 | 0.1206000 | 0.21800069 | 2.7342033 | 20 | 4 20.4 | 19.5 |
| 203175 2000 $YH_{110}$ | 15.8 | X | 218.39633 | 60.59696 | 88.56432 | 9.73005 | 0.1037601 | 0.23866052 | 2.5740422 | 20 | 10 29.1 | 19.5 |
| 203176 2000 $YB_{134}$ | 15.4 | X | 76.06877 | 233.79108 | 105.43795 | 15.69919 | 0.2159880 | 0.25262570 | 2.4782837 | 20 | — | — |
| 203177 2001 $AM_{9}$ | 15.7 | X | 306.15907 | 168.16335 | 249.11418 | 6.19503 | 0.1413642 | 0.24051036 | 2.5608267 | 20 | 10 24.5 | 18.4 |
| 203178 2001 $AH_{36}$ | 16.1 | X | 148.41140 | 106.92931 | 64.62307 | 6.60676 | 0.2193138 | 0.22952930 | 2.6418650 | 20 | 9 11.9 | 20.7 |
| 203179 2001 $BK_{10}$ | 17.3 | X | 94.19739 | 228.64227 | 321.80594 | 19.42158 | 0.0509510 | 0.37832743 | 1.8933206 | 20 | 8 9.5 | 18.8 |
| 203180 2001 $BU_{11}$ | 15.9 | X | 143.19152 | 145.29729 | 101.38440 | 7.97961 | 0.0393362 | 0.24705896 | 2.5153725 | 20 | 12 8.9 | 19.3 |
| 203181 2001 $BJ_{24}$ | 16.2 | X | 45.13440 | 59.14563 | 138.24479 | 4.75949 | 0.0914058 | 0.27012585 | 2.3700561 | 20 | 6 2.3 | 18.7 |
| 203182 2001 $BN_{25}$ | 15.7 | X | 309.05222 | 315.87787 | 134.06400 | 5.38949 | 0.1677122 | 0.24399599 | 2.5363796 | 20 | 12 19.8 | 17.9 |
| 203183 2001 $BS_{25}$ | 16.2 | X | 0.26206 | 285.52562 | 110.92753 | 4.02746 | 0.2386821 | 0.24596482 | 2.5228265 | 20 | — | — |
| 203184 2001 $BZ_{56}$ | 15.8 | X | 148.39718 | 41.29789 | 126.90510 | 15.56924 | 0.0311158 | 0.22967344 | 2.6407596 | 20 | 9 4.0 | 19.6 |
| 203185 2001 $BD_{66}$ | 15.9 | X | 231.19001 | 90.86477 | 138.84074 | 12.55017 | 0.2561878 | 0.24279389 | 2.5447447 | 20 | — | — |
| 203186 2001 $BA_{70}$ | 16.0 | X | 123.57472 | 106.03270 | 348.32211 | 20.91513 | 0.1448612 | 0.36772056 | 1.9295562 | 20 | 4 19.2 | 18.7 |
| 203187 2001 $CK$ | 17.1 | X | 163.59320 | 239.45805 | 134.48151 | 23.91628 | 0.1009878 | 0.36344221 | 1.9446695 | 20 | 2 19.9 | 19.3 |
| 203188 2001 $CQ_{5}$ | 16.0 | X | 194.78050 | 51.89100 | 124.13736 | 8.05919 | 0.1024299 | 0.23598779 | 2.5934409 | 20 | 11 4.3 | 19.9 |
| 203189 2001 $CF_{6}$ | 15.7 | X | 236.14848 | 26.34143 | 130.78788 | 13.65327 | 0.1033015 | 0.23939278 | 2.5687905 | 20 | 11 29.9 | 19.3 |
| 203190 2001 $CT_{12}$ | 16.2 | X | 286.12558 | 37.19585 | 90.61742 | 4.89479 | 0.1924841 | 0.24372226 | 2.5382784 | 20 | 12 25.3 | 18.5 |
| 203191 2001 $CV_{15}$ | 16.8 | X | 270.82050 | 60.62578 | 29.52042 | 3.18372 | 0.1930471 | 0.23820752 | 2.5773045 | 20 | 10 3.1 | 19.7 |
| 203192 2001 $CE_{30}$ | 15.9 | X | 257.87681 | 55.94592 | 52.04699 | 5.84298 | 0.1724525 | 0.23816505 | 2.5776109 | 20 | 10 13.0 | 19.1 |
| 203193 2001 $CC_{35}$ | 15.3 | X | 227.98169 | 71.82319 | 83.99879 | 15.35146 | 0.0554373 | 0.23791969 | 2.5793827 | 20 | 11 23.7 | 18.8 |
| 203194 2001 $CT_{37}$ | 16.9 | X | 180.17682 | 262.29587 | 113.75731 | 24.51995 | 0.0723814 | 0.36640857 | 1.9341596 | 20 | 3 21.3 | 19.7 |
| 203195 2001 $CH_{42}$ | 16.1 | X | 3.54807 | 245.47705 | 122.69808 | 10.23821 | 0.1998627 | 0.24164297 | 2.5528185 | 20 | 12 12.3 | 19.0 |
| 203196 2001 $CJ_{42}$ | 16.9 | X | 274.11341 | 153.36170 | 101.08533 | 28.33789 | 0.0472621 | 0.36153558 | 1.9515006 | 20 | 1 16.4 | 19.0 |
| 203197 2001 $DG_{1}$ | 16.3 | X | 316.05032 | 83.00893 | 325.51480 | 4.27935 | 0.2137797 | 0.23952833 | 2.5678213 | 20 | 10 27.4 | 18.5 |
| 203198 2001 $DV_{1}$ | 17.3 | X | 347.69351 | 359.44672 | 7.93706 | 0.47457 | 0.0777056 | 0.23510302 | 2.5999435 | 20 | 10 27.1 | 20.4 |
| 203199 2001 $DT_{7}$ | 17.0 | X | 47.76486 | 282.29406 | 142.62281 | 23.84393 | 0.1025435 | 0.35547548 | 1.9736173 | 20 | — | — |
| 203200 2001 $DP_{17}$ | 16.4 | X | 168.96393 | 130.95736 | 96.73146 | 6.38186 | 0.2131733 | 0.23558439 | 2.5964006 | 20 | 12 2.2 | 20.7 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203201 2001 $DQ_{32}$ | 16.3 | X | 286.69539 | 42.44743 | 51.05587 | 3.42903 | 0.1198684 | 0.23856987 | 2.5746942 | 20 | 11 13.5 | 19.1 |
| 203202 2001 $DW_{38}$ | 15.9 | X | 210.10261 | 7.54463 | 142.34917 | 13.82869 | 0.1000380 | 0.23590229 | 2.5940675 | 20 | 10 21.3 | 19.8 |
| 203203 2001 $DJ_{40}$ | 16.1 | X | 291.86723 | 304.62106 | 146.45858 | 5.42096 | 0.1195179 | 0.23982634 | 2.5656936 | 20 | 11 21.1 | 18.9 |
| 203204 2001 $DZ_{49}$ | 15.5 | X | 37.41831 | 292.61975 | 108.92556 | 14.83308 | 0.0147011 | 0.24617112 | 2.5214168 | 20 | — | — |
| 203205 2001 $DE_{60}$ | 15.9 | X | 260.09766 | 266.54602 | 142.89873 | 13.30346 | 0.1106681 | 0.23022871 | 2.6365119 | 20 | 8 3.4 | 19.4 |
| 203206 2001 $DD_{65}$ | 15.6 | X | 164.68942 | 7.21576 | 148.47149 | 14.31986 | 0.0695888 | 0.22854234 | 2.6494655 | 20 | 9 4.9 | 19.5 |
| 203207 2001 $DE_{70}$ | 16.3 | X | 225.06314 | 163.66452 | 322.10234 | 2.04796 | 0.1633133 | 0.23317214 | 2.6142770 | 20 | 9 23.5 | 20.1 |
| 203208 2001 $DE_{75}$ | 16.5 | X | 305.61940 | 94.86532 | 334.55772 | 4.01278 | 0.2013386 | 0.24058522 | 2.5602955 | 20 | 11 5.9 | 18.8 |
| 203209 2001 $DG_{100}$ | 15.7 | X | 132.06230 | 312.58134 | 250.05954 | 6.46675 | 0.2596553 | 0.22670010 | 2.6637998 | 20 | 10 1.2 | 20.5 |
| 203210 2001 $DR_{100}$ | 12.6 | X | 241.09460 | 90.76526 | 11.54502 | 10.70893 | 0.0329965 | 0.08104781 | 5.2882080 | 20 | 9 13.2 | 19.6 |
| 203211 2001 $DP_{110}$ | 16.1 | X | 304.68981 | 354.52885 | 106.72961 | 28.47505 | 0.0732743 | 0.24399747 | 2.5363694 | 20 | 12 29.7 | 19.0 |
| 203212 2001 $ET_{9}$ | 16.7 | X | 165.11727 | 20.06872 | 144.87365 | 5.52377 | 0.1824370 | 0.22771241 | 2.6558992 | 20 | 9 15.3 | 21.1 |
| 203213 2001 $EP_{11}$ | 15.4 | X | 154.94160 | 84.22135 | 115.32281 | 11.11768 | 0.2056354 | 0.22748912 | 2.6576368 | 20 | 10 22.3 | 20.1 |
| 203214 2001 $EV_{12}$ | 14.7 | X | 81.84160 | 122.95851 | 83.69064 | 35.66420 | 0.2490701 | 0.21994845 | 2.7180375 | 20 | 9 11.4 | 19.7 |
| 203215 2001 $EU_{24}$ | 15.3 | X | 205.39260 | 29.95990 | 106.27294 | 14.56402 | 0.0915967 | 0.22944114 | 2.6425418 | 20 | 9 30.6 | 19.4 |
| 203216 2001 $FY_{7}$ | 16.0 | X | 179.33444 | 55.99662 | 113.78372 | 6.59044 | 0.1415631 | 0.22984347 | 2.6394571 | 20 | 10 7.9 | 20.2 |
| 203217 2001 $FX_{9}$ | 18.6 | X | 85.18732 | 291.92415 | 184.48235 | 3.49612 | 0.3308946 | 0.36685354 | 1.9325953 | 20 | 5 14.2 | 20.4 |
| 203218 2001 $FM_{60}$ | 16.5 | X | 231.99373 | 138.44179 | 9.60983 | 11.78813 | 0.2209407 | 0.23595164 | 2.5937058 | 20 | 10 21.1 | 20.3 |
| 203219 2001 $FE_{61}$ | 16.5 | X | 259.47277 | 118.98428 | 26.35692 | 4.83296 | 0.1828238 | 0.23912694 | 2.5706939 | 20 | 11 30.5 | 19.4 |
| 203220 2001 $FU_{66}$ | 16.5 | X | 153.65667 | 120.94324 | 102.68855 | 4.72549 | 0.1487778 | 0.23172943 | 2.6251165 | 20 | 11 16.5 | 20.8 |
| 203221 2001 $FJ_{73}$ | 15.9 | X | 228.37338 | 107.18820 | 24.00351 | 13.14385 | 0.2335112 | 0.23311448 | 2.6147081 | 20 | 9 29.6 | 19.8 |
| 203222 2001 $FH_{81}$ | 16.1 | X | 221.94601 | 256.77648 | 303.14074 | 9.45969 | 0.2008019 | 0.23902822 | 2.5714017 | 20 | 12 19.9 | 19.7 |
| 203223 2001 $FC_{82}$ | 15.7 | X | 188.47504 | 307.28450 | 205.22505 | 13.01584 | 0.2128670 | 0.22973442 | 2.6402923 | 20 | 9 15.3 | 20.3 |
| 203224 2001 $FU_{91}$ | 16.2 | X | 240.95763 | 116.71894 | 23.15834 | 9.79973 | 0.1185277 | 0.23678182 | 2.5876398 | 20 | 11 5.6 | 19.7 |
| 203225 2001 $FC_{97}$ | 16.1 | X | 233.95626 | 66.59139 | 108.40803 | 8.70499 | 0.1682930 | 0.23745377 | 2.5827557 | 20 | 12 7.7 | 19.5 |
| 203226 2001 $FQ_{99}$ | 15.7 | X | 133.12432 | 113.27155 | 126.83735 | 10.09460 | 0.0889939 | 0.23065464 | 2.6332651 | 20 | 11 18.8 | 19.8 |
| 203227 2001 $FW_{122}$ | 16.7 | X | 256.04302 | 323.08020 | 162.49433 | 1.19725 | 0.1457109 | 0.23528379 | 2.5986116 | 20 | 11 5.1 | 20.0 |
| 203228 2001 $FK_{132}$ | 16.3 | X | 270.53670 | 212.45886 | 226.48504 | 1.09482 | 0.0306323 | 0.22981710 | 2.6396589 | 20 | 10 9.5 | 19.5 |
| 203229 2001 $FU_{151}$ | 15.5 | X | 136.12900 | 95.02135 | 83.20816 | 13.55904 | 0.1115305 | 0.22339871 | 2.6899794 | 20 | 9 8.9 | 19.9 |
| 203230 2001 $FL_{167}$ | 16.2 | X | 188.06687 | 60.39425 | 141.01715 | 6.15939 | 0.2618572 | 0.23225382 | 2.6211637 | 20 | 11 14.6 | 20.8 |
| 203231 2001 $FT_{172}$ | 15.9 | X | 136.78605 | 114.62372 | 103.93053 | 13.14331 | 0.2701977 | 0.22683602 | 2.6627355 | 20 | 10 31.6 | 20.9 |
| 203232 2001 $GM_{11}$ | 15.2 | X | 241.45517 | 13.19000 | 126.35450 | 34.27235 | 0.1711694 | 0.23285913 | 2.6166192 | 20 | 11 13.7 | 19.6 |
| 203233 2001 $HB_{9}$ | 16.7 | X | 343.98465 | 138.82284 | 67.69973 | 3.76490 | 0.1330328 | 0.30607716 | 2.1806306 | 20 | 2 16.8 | 18.7 |
| 203234 2001 $HP_{18}$ | 15.7 | X | 195.09149 | 52.40087 | 117.26281 | 14.62091 | 0.2061084 | 0.22959509 | 2.6413603 | 20 | 10 21.7 | 20.3 |
| 203235 2001 $HV_{53}$ | 15.6 | X | 194.64497 | 69.69465 | 129.79395 | 14.55608 | 0.1319615 | 0.23228776 | 2.6209083 | 20 | 11 30.0 | 19.8 |
| 203236 2001 $HH_{60}$ | 15.0 | X | 85.97458 | 64.36772 | 96.31350 | 22.60398 | 0.1056193 | 0.21042547 | 2.7994358 | 20 | 6 13.9 | 18.9 |
| 203237 2001 $JC_{10}$ | 15.2 | X | 157.38273 | 74.76225 | 123.37204 | 13.22302 | 0.1523668 | 0.22541532 | 2.6739119 | 20 | 10 23.8 | 19.7 |
| 203238 2001 $KR_{40}$ | 15.7 | X | 191.44773 | 82.36829 | 107.19358 | 13.22829 | 0.1903486 | 0.23028210 | 2.6361043 | 20 | 11 10.9 | 20.1 |
| 203239 2001 $MZ_{11}$ | 15.3 | X | 92.53326 | 298.32801 | 61.84910 | 6.24831 | 0.1355226 | 0.17740908 | 3.1367903 | 20 | — | — |
| 203240 2001 $NV_{15}$ | 17.4 | X | 236.48416 | 34.11398 | 351.64522 | 2.43250 | 0.1926005 | 0.30474489 | 2.1869814 | 20 | 5 25.5 | 20.5 |
| 203241 2001 $OQ_{17}$ | 15.3 | X | 127.28883 | 95.16599 | 117.98784 | 25.31058 | 0.1553429 | 0.21754388 | 2.7380296 | 20 | 10 19.2 | 20.3 |
| 203242 2001 $OA_{36}$ | 16.0 | X | 224.83419 | 222.49354 | 65.83981 | 4.00848 | 0.0754640 | 0.18574844 | 3.0421872 | 20 | 1 28.9 | 20.6 |
| 203243 2001 $OP_{64}$ | 15.4 | X | 132.53066 | 264.04081 | 90.52720 | 5.95496 | 0.1756741 | 0.18178408 | 3.0862575 | 20 | 1 22.4 | 20.1 |
| 203244 2001 $ON_{100}$ | 17.1 | X | 255.32651 | 254.71659 | 103.18292 | 6.50837 | 0.2111004 | 0.30287617 | 2.1959679 | 20 | 5 8.5 | 20.3 |
| 203245 2001 $OU_{106}$ | 14.5 | X | 115.53400 | 66.27689 | 315.31948 | 8.80996 | 0.2418027 | 0.17782255 | 3.1319260 | 20 | 2 12.6 | 19.2 |
| 203246 2001 $OT_{110}$ | 17.3 | X | 311.86824 | 50.42125 | 316.00034 | 2.55713 | 0.0935170 | 0.31327537 | 2.1470981 | 20 | 9 8.1 | 18.8 |
| 203247 2001 $QK_{6}$ | 14.9 | X | 102.70110 | 274.96786 | 144.01694 | 16.90452 | 0.2411326 | 0.18203723 | 3.0833955 | 20 | 3 18.0 | 19.6 |
| 203248 2001 $QP_{15}$ | 17.4 | X | 287.05861 | 268.82546 | 82.63325 | 4.03241 | 0.2273199 | 0.30630387 | 2.1795545 | 20 | 6 4.1 | 19.6 |
| 203249 2001 $QU_{34}$ | 15.5 | X | 51.88214 | 124.76049 | 140.91854 | 9.73762 | 0.2593506 | 0.21408471 | 2.7674447 | 20 | 10 11.9 | 19.5 |
| 203250 2001 $QF_{89}$ | 17.0 | X | 298.84023 | 325.67558 | 27.29292 | 3.38373 | 0.1609252 | 0.30564273 | 2.1826964 | 20 | 7 11.3 | 18.8 |
| 203251 2001 $QN_{96}$ | 16.5 | X | 289.82087 | 12.96870 | 327.57071 | 3.43680 | 0.1890315 | 0.30339183 | 2.1934789 | 20 | 5 28.6 | 18.9 |
| 203252 2001 $QQ_{99}$ | 17.3 | X | 311.17175 | 1.55611 | 305.72445 | 0.92174 | 0.1144583 | 0.30448094 | 2.1882451 | 20 | 5 27.3 | 19.3 |
| 203253 2001 $QU_{116}$ | 17.1 | X | 216.04749 | 83.06199 | 287.02544 | 4.89985 | 0.1958988 | 0.29622597 | 2.2287120 | 20 | 4 12.9 | 20.6 |
| 203254 2001 $QG_{129}$ | 15.1 | X | 133.13925 | 84.56236 | 296.17967 | 9.90199 | 0.2156994 | 0.18229637 | 3.0804727 | 20 | 2 22.2 | 20.1 |
| 203255 2001 $QD_{136}$ | 16.9 | X | 233.08388 | 95.82236 | 246.07217 | 4.49331 | 0.2073582 | 0.29475983 | 2.2360964 | 20 | 3 22.9 | 20.4 |
| 203256 2001 $QW_{149}$ | 15.0 | X | 102.81710 | 100.35633 | 306.47656 | 11.10055 | 0.2507916 | 0.18223618 | 3.0811510 | 20 | 2 27.1 | 19.7 |
| 203257 2001 $QC_{153}$ | 17.5 | X | 209.22677 | 272.77678 | 109.09188 | 4.49308 | 0.1924780 | 0.29724864 | 2.2235972 | 20 | 4 26.7 | 21.0 |
| 203258 2001 $QG_{163}$ | 17.7 | X | 223.91097 | 85.19244 | 292.57133 | 1.66251 | 0.1631861 | 0.29957028 | 2.2120939 | 20 | 5 4.1 | 20.9 |
| 203259 2001 $QE_{165}$ | 15.6 | X | 233.31204 | 225.01613 | 114.28971 | 12.63311 | 0.1039911 | 0.19315999 | 2.9638617 | 20 | 4 9.9 | 20.3 |
| 203260 2001 $QW_{186}$ | 17.8 | X | 239.74209 | 86.97654 | 348.14860 | 0.55629 | 0.0783966 | 0.30949030 | 2.1645686 | 20 | 8 26.0 | 20.2 |
| 203261 2001 $QA_{187}$ | 14.5 | X | 24.05579 | 105.02460 | 269.81856 | 14.07871 | 0.1737739 | 0.16327148 | 3.3153483 | 20 | 12 22.8 | 18.8 |
| 203262 2001 $QD_{240}$ | 16.0 | X | 141.24828 | 43.52839 | 308.12685 | 0.54566 | 0.1457600 | 0.17956632 | 3.1116169 | 20 | 1 24.2 | 20.7 |
| 203263 2001 $QS_{246}$ | 14.6 | X | 180.75717 | 308.18230 | 6.66064 | 22.98664 | 0.1031123 | 0.17745685 | 3.1362274 | 20 | 1 24.8 | 19.9 |
| 203264 2001 $QQ_{249}$ | 15.0 | X | 123.79294 | 252.06659 | 167.40437 | 16.52528 | 0.2255820 | 0.18028627 | 3.1033275 | 20 | 4 5.8 | 20.0 |
| 203265 2001 $QB_{258}$ | 16.3 | X | 299.41962 | 322.95253 | 32.74240 | 5.60944 | 0.1955633 | 0.30607696 | 2.1806315 | 20 | 7 10.9 | 18.1 |
| 203266 2001 $QF_{268}$ | 15.3 | X | 121.36872 | 82.40201 | 265.98213 | 3.64876 | 0.1349650 | 0.17686817 | 3.1431824 | 20 | — | — |
| 203267 2001 $QJ_{275}$ | 15.4 | X | 274.35229 | 162.34234 | 118.89559 | 10.75496 | 0.0980915 | 0.19157682 | 2.9801679 | 20 | 3 13.3 | 19.8 |
| 203268 2001 $QW_{278}$ | 17.4 | X | 148.23125 | 305.61127 | 62.76973 | 4.03572 | 0.2269016 | 0.28739882 | 2.2741166 | 20 | 2 17.6 | 20.8 |
| 203269 2001 $QP_{280}$ | 17.1 | X | 229.80297 | 266.44310 | 99.77430 | 5.99796 | 0.2543213 | 0.29813009 | 2.2192123 | 20 | 4 22.3 | 20.8 |
| 203270 2001 $QX_{284}$ | 15.4 | X | 129.40400 | 229.29707 | 107.80502 | 6.85267 | 0.1584979 | 0.17782464 | 3.1319015 | 20 | — | — |
| 203271 2001 $RU_{5}$ | 15.4 | X | 244.35771 | 333.94538 | 337.42655 | 5.69470 | 0.2588444 | 0.19090477 | 2.9871580 | 20 | 3 1.1 | 20.6 |
| 203272 2001 $RL_{6}$ | 17.1 | X | 197.46378 | 39.36076 | 350.18586 | 5.35141 | 0.2671819 | 0.29472720 | 2.2362614 | 20 | 4 21.5 | 20.9 |
| 203273 2001 $RL_{15}$ | 15.2 | X | 72.02884 | 95.91702 | 330.37314 | 20.62844 | 0.2113547 | 0.17525728 | 3.1624137 | 20 | 2 12.9 | 19.1 |
| 203274 2001 $RN_{22}$ | 18.2 | X | 263.34182 | 23.72654 | 304.97081 | 1.22180 | 0.1526438 | 0.30014153 | 2.2092862 | 20 | 4 11.3 | 20.9 |
| 203275 2001 $RK_{35}$ | 15.1 | X | 64.33742 | 121.34692 | 316.71973 | 9.17491 | 0.0257964 | 0.18146962 | 3.0898218 | 20 | 1 22.5 | 19.2 |
| 203276 2001 $RM_{48}$ | 16.7 | X | 327.41548 | 123.24154 | 225.37114 | 5.48749 | 0.1417720 | 0.30973719 | 2.1634182 | 20 | 9 6.3 | 18.4 |
| 203277 2001 $RQ_{55}$ | 15.6 | X | 311.88187 | 348.09336 | 1.02309 | 7.07714 | 0.0315162 | 0.20338646 | 2.8636594 | 20 | 8 6.8 | 19.5 |
| 203278 2001 $RH_{70}$ | 17.2 | X | 184.54059 | 101.20553 | 272.39786 | 4.02838 | 0.1782394 | 0.29117427 | 2.2544160 | 20 | 3 20.8 | 20.9 |
| 203279 2001 $RF_{74}$ | 16.9 | X | 186.81723 | 93.10756 | 209.31656 | 4.87397 | 0.1773152 | 0.28363011 | 2.2942170 | 20 | — | — |
| 203280 2001 $RO_{94}$ | 17.1 | X | 191.39848 | 173.00984 | 221.77038 | 2.74103 | 0.1552231 | 0.29473040 | 2.2362452 | 20 | 4 25.4 | 20.4 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203281 2001 $RQ_{116}$ | 15.9 | X | 173.01810 | 206.43350 | 122.67409 | 2.54496 | 0.0780410 | 0.18077161 | 3.0977705 | 20 | 1 23.9 | 20.5 |
| 203282 2001 $RG_{117}$ | 15.9 | X | 84.47140 | 250.62837 | 165.76963 | 2.43874 | 0.1066636 | 0.17860171 | 3.1228106 | 20 | 1 31.1 | 20.2 |
| 203283 2001 $RL_{145}$ | 15.2 | X | 337.18044 | 302.40121 | 311.00382 | 10.99907 | 0.0935462 | 0.19608968 | 2.9342665 | 20 | 4 22.9 | 19.1 |
| 203284 2001 $RY_{146}$ | 14.3 | X | 73.64844 | 74.42534 | 292.53739 | 21.00445 | 0.1001286 | 0.16997116 | 3.2276460 | 20 | — | — |
| 203285 2001 $RU_{152}$ | 17.1 | X | 263.37179 | 300.05126 | 98.23544 | 4.07178 | 0.1009719 | 0.30688304 | 2.1768113 | 20 | 8 2.1 | 19.3 |
| 203286 2001 $SH_{2}$ | 17.1 | X | 209.61894 | 161.67000 | 246.45102 | 1.25711 | 0.1599639 | 0.29887028 | 2.2155466 | 20 | 5 31.4 | 20.1 |
| 203287 2001 $SY_{28}$ | 17.8 | X | 226.61211 | 268.62234 | 136.28096 | 1.61523 | 0.1626505 | 0.30093634 | 2.2053945 | 20 | 6 13.9 | 20.8 |
| 203288 2001 $SX_{42}$ | 16.6 | X | 219.19598 | 270.54436 | 156.33140 | 3.89390 | 0.1335026 | 0.30292711 | 2.1957217 | 20 | 7 8.9 | 19.7 |
| 203289 2001 $SN_{47}$ | 17.2 | X | 183.85999 | 283.02336 | 110.81696 | 4.11132 | 0.1772551 | 0.29351833 | 2.2423973 | 20 | 4 19.3 | 20.7 |
| 203290 2001 $SJ_{66}$ | 17.4 | X | 200.90516 | 168.69917 | 166.74462 | 5.14659 | 0.2617055 | 0.28926798 | 2.2643096 | 20 | 2 19.3 | 21.4 |
| 203291 2001 $SJ_{72}$ | 16.4 | X | 228.21596 | 302.76654 | 79.34635 | 4.77292 | 0.2063973 | 0.29591736 | 2.2302613 | 20 | 5 12.8 | 19.7 |
| 203292 2001 $SR_{75}$ | 17.1 | X | 256.24075 | 103.65630 | 296.48035 | 4.00244 | 0.1262938 | 0.30434732 | 2.1888856 | 20 | 7 19.6 | 19.7 |
| 203293 2001 $SU_{76}$ | 15.7 | X | 77.38411 | 116.51517 | 281.41667 | 1.13517 | 0.0796608 | 0.17441310 | 3.1726097 | 20 | — | — |
| 203294 2001 $SM_{91}$ | 15.7 | X | 109.39796 | 82.04504 | 293.25194 | 3.43679 | 0.1432558 | 0.17704681 | 3.1410679 | 20 | 1 18.3 | 20.2 |
| 203295 2001 $SM_{97}$ | 17.4 | X | 242.32459 | 104.98372 | 331.84641 | 3.83896 | 0.0721458 | 0.30937215 | 2.1651196 | 20 | 9 2.0 | 19.7 |
| 203296 2001 $SO_{127}$ | 15.3 | X | 63.16237 | 44.79612 | 338.15782 | 4.11427 | 0.1764772 | 0.17082553 | 3.2168751 | 20 | — | — |
| 203297 2001 $SY_{141}$ | 15.3 | X | 174.76258 | 16.49779 | 341.02605 | 10.61255 | 0.0808671 | 0.18396147 | 3.0618563 | 20 | 2 28.1 | 20.0 |
| 203298 2001 $SK_{152}$ | 16.9 | X | 260.91802 | 109.69021 | 203.13472 | 5.10892 | 0.1958607 | 0.29614742 | 2.2291061 | 20 | 3 13.4 | 20.1 |
| 203299 2001 $SS_{152}$ | 16.9 | X | 18.69415 | 55.35768 | 233.68434 | 3.32836 | 0.0920960 | 0.30855542 | 2.1689386 | 20 | 9 8.7 | 18.9 |
| 203300 2001 $SR_{186}$ | 16.8 | X | 215.70828 | 226.19121 | 132.46299 | 5.76704 | 0.1730760 | 0.29596407 | 2.2300267 | 20 | 4 3.7 | 20.2 |
| 203301 2001 $SZ_{235}$ | 17.3 | X | 234.17648 | 140.01851 | 185.97151 | 4.20607 | 0.1738974 | 0.29277677 | 2.2461821 | 20 | 3 6.9 | 20.7 |
| 203302 2001 $SA_{239}$ | 17.1 | X | 212.56902 | 236.11698 | 133.51611 | 1.96848 | 0.0697925 | 0.29513623 | 2.2341948 | 20 | 4 17.4 | 20.0 |
| 203303 2001 $SC_{241}$ | 17.6 | X | 207.37857 | 340.02531 | 125.80102 | 2.04953 | 0.0797782 | 0.30631067 | 2.1795222 | 20 | 8 26.4 | 20.3 |
| 203304 2001 $SF_{265}$ | 17.0 | X | 190.66781 | 346.55215 | 16.52301 | 7.27970 | 0.1119033 | 0.28970944 | 2.2620087 | 20 | 3 15.6 | 20.2 |
| 203305 2001 $SO_{273}$ | 16.0 | X | 173.74240 | 177.19165 | 155.05946 | 3.40956 | 0.0363524 | 0.17835942 | 3.1256380 | 20 | 1 25.8 | 20.5 |
| 203306 2001 $ST_{291}$ | 16.7 | X | 216.73981 | 285.89468 | 113.46495 | 9.35406 | 0.1947506 | 0.29694755 | 2.2251001 | 20 | 5 26.9 | 20.2 |
| 203307 2001 $SP_{319}$ | 17.3 | X | 285.47712 | 292.48745 | 12.59155 | 3.28004 | 0.1809935 | 0.29931004 | 2.2133760 | 20 | 4 2.4 | 19.8 |
| 203308 2001 $SY_{321}$ | 14.8 | X | 318.67174 | 254.57415 | 319.61121 | 10.38423 | 0.0570410 | 0.18329178 | 3.0693097 | 20 | 2 16.7 | 19.0 |
| 203309 2001 $SO_{325}$ | 15.6 | X | 131.06320 | 45.49515 | 333.85375 | 8.01553 | 0.0374430 | 0.18234340 | 3.0799430 | 20 | 2 3.7 | 19.9 |
| 203310 2001 $TW_{24}$ | 17.4 | X | 202.43560 | 87.34045 | 277.22252 | 3.26024 | 0.1374138 | 0.29249003 | 2.2476499 | 20 | 3 26.0 | 20.8 |
| 203311 2001 $TZ_{30}$ | 16.7 | X | 178.30464 | 106.31098 | 305.47292 | 5.20468 | 0.1731675 | 0.29229015 | 2.2486745 | 20 | 5 3.5 | 20.2 |
| 203312 2001 $TW_{34}$ | 16.5 | X | 97.71467 | 116.41483 | 359.32400 | 6.47495 | 0.2458140 | 0.28532948 | 2.2850987 | 20 | 5 14.5 | 19.6 |
| 203313 2001 $TM_{51}$ | 16.9 | X | 212.21039 | 5.20533 | 48.87941 | 6.54900 | 0.1420833 | 0.29891791 | 2.2153113 | 20 | 6 11.9 | 20.0 |
| 203314 2001 $TN_{58}$ | 17.6 | X | 229.25316 | 22.34978 | 18.74548 | 3.82235 | 0.1499602 | 0.30027307 | 2.2086410 | 20 | 6 12.4 | 20.6 |
| 203315 2001 $TQ_{60}$ | 17.3 | X | 233.69994 | 78.69893 | 292.22782 | 1.32314 | 0.1397987 | 0.29737522 | 2.2229662 | 20 | 5 7.3 | 20.4 |
| 203316 2001 $TB_{63}$ | 16.9 | X | 186.71350 | 268.96468 | 171.64878 | 3.92577 | 0.0746640 | 0.29844468 | 2.2176525 | 20 | 6 23.8 | 19.8 |
| 203317 2001 $TM_{65}$ | 16.9 | X | 174.50181 | 240.53990 | 196.13022 | 6.44801 | 0.1544596 | 0.29513886 | 2.2341815 | 20 | 6 4.5 | 20.3 |
| 203318 2001 $TN_{66}$ | 17.3 | X | 229.66980 | 264.43096 | 102.71885 | 0.73442 | 0.2256106 | 0.29622563 | 2.2287138 | 20 | 4 22.7 | 20.6 |
| 203319 2001 $TH_{68}$ | 16.5 | X | 291.86638 | 261.92896 | 58.50225 | 5.59386 | 0.1736459 | 0.29924317 | 2.2137057 | 20 | 5 5.5 | 18.9 |
| 203320 2001 $TJ_{93}$ | 17.1 | X | 119.10909 | 109.26368 | 347.98077 | 7.76855 | 0.1262936 | 0.29093841 | 2.2556342 | 20 | 4 27.1 | 20.2 |
| 203321 2001 $TU_{109}$ | 17.4 | X | 129.85424 | 181.60583 | 283.64990 | 2.87353 | 0.1112709 | 0.29287820 | 2.2456635 | 20 | 5 22.5 | 20.3 |
| 203322 2001 $TL_{110}$ | 17.0 | X | 205.26260 | 113.95650 | 245.68725 | 6.97528 | 0.1552049 | 0.29147320 | 2.2528743 | 20 | 3 20.9 | 20.7 |
| 203323 2001 $TM_{111}$ | 16.4 | X | 214.08139 | 133.70342 | 238.76848 | 5.02024 | 0.1728116 | 0.29427938 | 2.2385295 | 20 | 4 16.5 | 19.9 |
| 203324 2001 $TM_{113}$ | 17.0 | X | 261.92505 | 53.18699 | 257.86787 | 4.03428 | 0.0286898 | 0.29180179 | 2.2511827 | 20 | 3 31.4 | 19.9 |
| 203325 2001 $TC_{148}$ | 17.2 | X | 212.20146 | 337.25830 | 82.08563 | 3.77518 | 0.0997980 | 0.29995732 | 2.2101906 | 20 | 6 23.2 | 20.0 |
| 203326 2001 $TQ_{151}$ | 17.1 | X | 131.06745 | 24.63582 | 86.79404 | 4.84927 | 0.1253302 | 0.29397338 | 2.2400827 | 20 | 6 3.8 | 20.1 |
| 203327 2001 $TU_{173}$ | 17.3 | X | 13.60648 | 259.87024 | 29.00887 | 3.29269 | 0.1812411 | 0.30852970 | 2.1690592 | 20 | 9 17.7 | 19.0 |
| 203328 2001 $TS_{175}$ | 17.0 | X | 319.02697 | 54.44959 | 243.62839 | 3.83375 | 0.0744521 | 0.30151061 | 2.2025933 | 20 | 6 2.3 | 18.9 |
| 203329 2001 $TH_{190}$ | 17.0 | X | 95.13820 | 134.18126 | 291.32892 | 1.89873 | 0.1366114 | 0.28169401 | 2.3047172 | 20 | 2 15.1 | 19.4 |
| 203330 2001 $TH_{193}$ | 16.2 | X | 188.32430 | 23.39300 | 350.75431 | 4.72825 | 0.1999617 | 0.28744560 | 2.2738698 | 20 | 3 26.9 | 19.9 |
| 203331 2001 $TV_{198}$ | 17.2 | X | 157.55109 | 328.45415 | 77.36641 | 6.50875 | 0.1278712 | 0.29169191 | 2.2517480 | 20 | 4 8.1 | 20.4 |
| 203332 2001 $TK_{208}$ | 16.8 | X | 258.03875 | 276.76165 | 123.63482 | 6.89933 | 0.0218818 | 0.30219579 | 2.1992627 | 20 | 8 10.4 | 19.1 |
| 203333 2001 $TU_{212}$ | 15.4 | X | 179.60274 | 335.52295 | 321.13074 | 9.48038 | 0.1816166 | 0.17597166 | 3.1538490 | 20 | — | — |
| 203334 2001 $TC_{226}$ | 14.8 | X | 76.62993 | 240.49919 | 127.80166 | 13.16086 | 0.2627921 | 0.17118690 | 3.2123464 | 20 | — | — |
| 203335 2001 $TW_{228}$ | 15.0 | X | 101.65039 | 55.58865 | 293.73445 | 13.09948 | 0.1510049 | 0.16980393 | 3.2297647 | 20 | — | — |
| 203336 2001 $UG_{6}$ | 17.5 | X | 265.39402 | 258.17507 | 95.24853 | 5.63403 | 0.2280473 | 0.30226970 | 2.1989042 | 20 | 5 10.8 | 20.6 |
| 203337 2001 $UT_{15}$ | 16.7 | X | 111.21047 | 90.29280 | 19.94513 | 7.07809 | 0.0766753 | 0.29122519 | 2.2541532 | 20 | 4 29.9 | 19.5 |
| 203338 2001 $UB_{41}$ | 17.4 | X | 185.25028 | 237.93540 | 135.01710 | 2.76389 | 0.1699068 | 0.29037931 | 2.2585287 | 20 | 3 23.7 | 20.8 |
| 203339 2001 $UT_{60}$ | 15.1 | X | 68.64740 | 97.14429 | 210.03985 | 11.85360 | 0.0693887 | 0.15964947 | 3.3653048 | 20 | 11 13.1 | 19.9 |
| 203340 2001 $UU_{66}$ | 16.7 | X | 223.69174 | 98.67990 | 246.30425 | 2.39528 | 0.1640791 | 0.29167194 | 2.2518508 | 20 | 3 21.4 | 20.3 |
| 203341 2001 $UV_{75}$ | 16.4 | X | 220.62681 | 289.19520 | 79.78660 | 7.69649 | 0.2074901 | 0.29439621 | 2.2379373 | 20 | 4 20.9 | 20.1 |
| 203342 2001 $UJ_{81}$ | 17.4 | X | 49.88866 | 271.85011 | 175.01452 | 2.20697 | 0.1772454 | 0.27749294 | 2.3279202 | 20 | — | — |
| 203343 2001 $UG_{83}$ | 16.5 | X | 101.69629 | 85.86758 | 67.05353 | 2.69272 | 0.1521529 | 0.29349957 | 2.2424929 | 20 | 6 30.3 | 19.3 |
| 203344 2001 $UL_{103}$ | 17.8 | X | 179.47422 | 2.37490 | 98.89261 | 2.00544 | 0.0997348 | 0.30043942 | 2.2078257 | 20 | 7 14.1 | 20.7 |
| 203345 2001 $UP_{104}$ | 17.0 | X | 116.25761 | 74.69463 | 53.34367 | 6.79557 | 0.0982582 | 0.29459014 | 2.2369550 | 20 | 6 5.3 | 19.8 |
| 203346 2001 $UB_{136}$ | 17.0 | X | 359.23735 | 67.70185 | 60.52299 | 3.03252 | 0.1449788 | 0.27512506 | 2.3412581 | 20 | — | — |
| 203347 2001 $UV_{148}$ | 17.1 | X | 206.63985 | 306.56042 | 77.63715 | 4.71070 | 0.1177902 | 0.29340648 | 2.2429671 | 20 | 4 29.2 | 20.3 |
| 203348 2001 $UG_{155}$ | 14.8 | X | 104.06338 | 202.22527 | 222.82062 | 12.04074 | 0.1317109 | 0.17478806 | 3.1680708 | 20 | 3 5.9 | 19.5 |
| 203349 2001 $UO_{200}$ | 17.1 | X | 305.38696 | 22.25268 | 249.40057 | 2.90912 | 0.1163946 | 0.29486886 | 2.2355452 | 20 | 3 22.6 | 19.5 |
| 203350 2001 $UX_{204}$ | 16.9 | X | 125.01397 | 221.15923 | 255.25027 | 1.74308 | 0.0779684 | 0.29369995 | 2.2414728 | 20 | 5 28.9 | 19.8 |
| 203351 2001 $VW_{29}$ | 16.8 | X | 104.98778 | 176.36037 | 267.67833 | 1.55120 | 0.1248001 | 0.28384150 | 2.2930778 | 20 | 3 23.7 | 19.4 |
| 203352 2001 $VK_{53}$ | 16.6 | X | 201.20057 | 58.07298 | 300.14759 | 4.07538 | 0.1782965 | 0.29054949 | 2.2576467 | 20 | 3 16.6 | 20.2 |
| 203353 2001 $VF_{54}$ | 16.5 | X | 132.56205 | 202.82540 | 292.66470 | 5.08778 | 0.0548855 | 0.29747449 | 2.2224716 | 20 | 7 3.6 | 19.1 |
| 203354 2001 $VG_{58}$ | 17.0 | X | 139.16181 | 155.94393 | 279.64288 | 2.96291 | 0.1530419 | 0.28938673 | 2.2636901 | 20 | 4 25.8 | 20.2 |
| 203355 2001 $VT_{59}$ | 17.1 | X | 199.81490 | 141.95393 | 292.58216 | 4.43408 | 0.0892387 | 0.29818524 | 2.2189386 | 20 | 6 30.8 | 19.8 |
| 203356 2001 $VQ_{63}$ | 16.9 | X | 183.96752 | 107.97751 | 252.03800 | 5.67059 | 0.1411568 | 0.28694965 | 2.2764891 | 20 | 3 1.2 | 20.5 |
| 203357 2001 $VZ_{63}$ | 16.7 | X | 274.29632 | 322.57449 | 26.15408 | 3.34974 | 0.1629950 | 0.29901417 | 2.2148358 | 20 | 5 22.5 | 19.2 |
| 203358 2001 $VS_{64}$ | 16.8 | X | 201.33345 | 61.78529 | 280.33011 | 5.33638 | 0.1469092 | 0.28702831 | 2.2760732 | 20 | 2 24.9 | 20.3 |
| 203359 2001 $VL_{88}$ | 17.1 | X | 156.75578 | 268.09031 | 101.45737 | 3.46464 | 0.1920725 | 0.28549753 | 2.2842019 | 20 | 2 23.7 | 20.4 |
| 203360 2001 $VA_{102}$ | 17.5 | X | 152.43118 | 27.50498 | 2.89897 | 3.29633 | 0.1396550 | 0.28584067 | 2.2823734 | 20 | 3 11.6 | 20.8 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203361 2001 $VT_{102}$ | 17.7 | X | 209.09718 | 20.80325 | 5.73039 | 1.87604 | 0.1519719 | 0.29380302 | 2.2409485 | 20 | 5 1.7 | 20.9 |
| 203362 2001 $VB_{113}$ | 16.3 | X | 253.87853 | 308.61946 | 37.60498 | 6.71168 | 0.1300433 | 0.29421880 | 2.2388368 | 20 | 4 28.1 | 19.3 |
| 203363 2001 $VD_{119}$ | 16.9 | X | 91.49989 | 237.73427 | 266.65511 | 4.21843 | 0.0612561 | 0.29032219 | 2.2588249 | 20 | 5 20.3 | 19.6 |
| 203364 2001 $VQ_{124}$ | 17.3 | X | 78.17890 | 51.09329 | 61.10631 | 4.47673 | 0.1049590 | 0.28412716 | 2.2915406 | 20 | 3 24.3 | 19.7 |
| 203365 2001 $VC_{125}$ | 16.7 | X | 147.90388 | 27.75984 | 18.32886 | 6.27461 | 0.1582072 | 0.28369343 | 2.2938756 | 20 | 3 29.5 | 20.0 |
| 203366 2001 $VD_{125}$ | 16.6 | X | 155.39459 | 3.77608 | 36.61651 | 6.60855 | 0.1965195 | 0.28491067 | 2.2873374 | 20 | 4 2.4 | 20.0 |
| 203367 2001 $WO_{5}$ | 16.9 | X | 107.62513 | 304.89115 | 139.11816 | 1.91457 | 0.1791037 | 0.28335230 | 2.2957163 | 20 | 4 6.4 | 19.7 |
| 203368 2001 $WW_{5}$ | 17.2 | X | 196.70707 | 59.00908 | 258.39045 | 3.49987 | 0.2601291 | 0.28340995 | 2.2954050 | 20 | 1 25.9 | 21.1 |
| 203369 2001 $WD_{10}$ | 17.0 | X | 134.13182 | 265.34177 | 172.44926 | 5.04272 | 0.2269842 | 0.28703593 | 2.2760329 | 20 | 5 2.9 | 20.4 |
| 203370 2001 $WY_{35}$ | 17.2 | X | 241.06591 | 260.79163 | 96.73323 | 5.99135 | 0.2079233 | 0.29510069 | 2.2343742 | 20 | 4 24.3 | 20.6 |
| 203371 2001 $WB_{45}$ | 15.0 | X | 187.83388 | 159.19921 | 241.85556 | 25.70222 | 0.2035800 | 0.28934078 | 2.2639298 | 20 | 4 29.1 | 19.0 |
| 203372 2001 $WK_{78}$ | 16.7 | X | 350.49782 | 131.96761 | 75.26857 | 7.10139 | 0.0638658 | 0.28609803 | 2.2810045 | 20 | 3 15.2 | 19.2 |
| 203373 2001 $WD_{101}$ | 17.8 | X | 77.61993 | 71.34239 | 50.07436 | 2.94257 | 0.1282295 | 0.28511139 | 2.2862638 | 20 | 4 8.3 | 20.2 |
| 203374 2001 $XK_{7}$ | 17.2 | X | 107.08390 | 206.66924 | 242.98254 | 3.94639 | 0.1490884 | 0.28382437 | 2.2931700 | 20 | 4 6.6 | 20.1 |
| 203375 2001 $XR_{18}$ | 16.5 | X | 209.89547 | 66.25650 | 337.46202 | 4.85383 | 0.1243174 | 0.29283233 | 2.2458980 | 20 | 5 26.5 | 19.8 |
| 203376 2001 $XC_{20}$ | 17.1 | X | 90.99597 | 86.96269 | 335.37135 | 4.30528 | 0.2109927 | 0.27778321 | 2.3262982 | 20 | 2 18.1 | 19.5 |
| 203377 2001 $XL_{38}$ | 16.5 | X | 208.33503 | 16.19154 | 341.10059 | 7.06788 | 0.1399282 | 0.28790516 | 2.2714495 | 20 | 3 22.8 | 19.8 |
| 203378 2001 $XX_{43}$ | 16.3 | X | 161.08907 | 53.70775 | 4.78155 | 6.17069 | 0.1233589 | 0.28698239 | 2.2763160 | 20 | 4 23.8 | 19.5 |
| 203379 2001 $XD_{61}$ | 16.5 | X | 210.95420 | 297.24293 | 81.36822 | 8.12072 | 0.1355916 | 0.29122168 | 2.2541713 | 20 | 4 27.3 | 19.9 |
| 203380 2001 $XP_{61}$ | 16.9 | X | 186.43511 | 270.54295 | 127.23097 | 3.44974 | 0.1145750 | 0.28946123 | 2.2633017 | 20 | 4 26.1 | 20.1 |
| 203381 2001 $XA_{70}$ | 16.7 | X | 99.29272 | 296.37522 | 104.80024 | 12.39785 | 0.1760271 | 0.27788132 | 2.3257506 | 20 | 1 26.8 | 19.2 |
| 203382 2001 $XR_{84}$ | 17.0 | X | 201.83299 | 267.04651 | 130.74369 | 5.29213 | 0.1742597 | 0.29236840 | 2.2482733 | 20 | 5 11.3 | 20.5 |
| 203383 2001 $XN_{92}$ | 16.8 | X | 123.25202 | 4.52662 | 66.76314 | 2.79828 | 0.1657272 | 0.28540951 | 2.2846714 | 20 | 4 6.3 | 19.8 |
| 203384 2001 $XA_{93}$ | 17.1 | X | 112.01415 | 347.37633 | 55.87577 | 3.80337 | 0.0566029 | 0.27988239 | 2.3146518 | 20 | 1 28.9 | 19.9 |
| 203385 2001 $XH_{93}$ | 16.9 | X | 149.48476 | 28.63323 | 63.52200 | 4.35999 | 0.1184266 | 0.29144744 | 2.2530070 | 20 | 5 28.2 | 20.1 |
| 203386 2001 $XZ_{96}$ | 16.5 | X | 116.23076 | 194.24887 | 302.26030 | 4.31092 | 0.1682564 | 0.29065879 | 2.2570806 | 20 | 6 26.1 | 19.7 |
| 203387 2001 $XK_{103}$ | 16.4 | X | 197.21119 | 315.01414 | 19.78798 | 8.13041 | 0.2898312 | 0.28475610 | 2.2881651 | 20 | 2 20.4 | 20.6 |
| 203388 2001 $XX_{104}$ | 17.1 | X | 242.62352 | 72.57893 | 271.70092 | 3.59816 | 0.1426566 | 0.28714147 | 2.2754752 | 20 | 4 9.8 | 20.5 |
| 203389 2001 $XQ_{120}$ | 17.3 | X | 91.37039 | 54.01144 | 81.51778 | 4.03671 | 0.1479688 | 0.28909575 | 2.2652088 | 20 | 5 22.5 | 19.9 |
| 203390 2001 $XQ_{127}$ | 16.8 | X | 268.01751 | 62.68699 | 243.25000 | 3.14352 | 0.1243856 | 0.29002931 | 2.2603453 | 20 | 3 20.1 | 19.9 |
| 203391 2001 $XF_{129}$ | 17.0 | X | 107.01808 | 60.90490 | 76.45638 | 6.68325 | 0.0900929 | 0.29102675 | 2.2551778 | 20 | 6 6.1 | 19.8 |
| 203392 2001 $XL_{134}$ | 17.6 | X | 98.97809 | 190.49188 | 251.65014 | 2.86633 | 0.1296377 | 0.28228092 | 2.3015215 | 20 | 3 12.8 | 20.2 |
| 203393 2001 $XB_{139}$ | 16.9 | X | 87.03637 | 182.52451 | 249.86664 | 7.16462 | 0.0666493 | 0.27891542 | 2.3199985 | 20 | 1 30.8 | 19.7 |
| 203394 2001 $XT_{141}$ | 15.3 | X | 298.03203 | 154.46125 | 204.04236 | 3.04023 | 0.0782383 | 0.14056723 | 3.6633633 | 20 | 7 17.2 | 20.3 |
| 203395 2001 $XW_{142}$ | 16.8 | X | 67.42174 | 336.41598 | 238.98368 | 4.97247 | 0.0813251 | 0.29618470 | 2.2289191 | 20 | 8 1.3 | 19.4 |
| 203396 2001 $XO_{148}$ | 17.2 | X | 201.39785 | 262.44934 | 109.60033 | 4.29852 | 0.2338893 | 0.29000667 | 2.2604629 | 20 | 4 7.1 | 21.0 |
| 203397 2001 $XZ_{151}$ | 16.9 | X | 110.79593 | 79.46784 | 76.88344 | 3.48844 | 0.0909504 | 0.29246049 | 2.2478013 | 20 | 7 9.1 | 19.8 |
| 203398 2001 $XE_{154}$ | 16.4 | X | 2.81831 | 164.84601 | 87.47056 | 6.89090 | 0.0710641 | 0.29176380 | 2.2513781 | 20 | 6 9.7 | 18.6 |
| 203399 2001 $XP_{155}$ | 16.6 | X | 36.54830 | 27.24580 | 115.64218 | 3.93195 | 0.0942552 | 0.27939200 | 2.3173595 | 20 | 2 25.0 | 18.7 |
| 203400 2001 $XR_{163}$ | 16.8 | X | 26.50227 | 7.36702 | 141.55271 | 2.83641 | 0.1022270 | 0.27889119 | 2.3201328 | 20 | 2 14.6 | 18.8 |
| 203401 2001 $XZ_{166}$ | 16.8 | X | 80.46490 | 357.56511 | 98.95831 | 2.90609 | 0.1863349 | 0.28006461 | 2.3136477 | 20 | 3 18.5 | 19.1 |
| 203402 2001 $XE_{167}$ | 16.7 | X | 40.05964 | 260.17117 | 247.43831 | 3.09637 | 0.0664642 | 0.28084422 | 2.3093640 | 20 | 3 4.4 | 19.1 |
| 203403 2001 $XZ_{168}$ | 16.6 | X | 330.22378 | 248.76707 | 273.10901 | 5.23033 | 0.0912592 | 0.27180922 | 2.3602604 | 20 | — | — |
| 203404 2001 $XM_{171}$ | 17.0 | X | 30.91542 | 278.73658 | 252.30475 | 1.18360 | 0.1619856 | 0.28133439 | 2.3066808 | 20 | 3 29.9 | 18.8 |
| 203405 2001 $XY_{172}$ | 17.2 | X | 61.58634 | 7.66309 | 139.04431 | 2.10496 | 0.1639641 | 0.28183742 | 2.3039353 | 20 | 4 25.7 | 19.3 |
| 203406 2001 $XW_{177}$ | 16.7 | X | 60.80120 | 154.94850 | 274.74484 | 4.06118 | 0.1403862 | 0.27301385 | 2.3533125 | 20 | — | — |
| 203407 2001 $XX_{178}$ | 16.7 | X | 116.59682 | 170.80577 | 276.78967 | 5.04477 | 0.1200774 | 0.28317533 | 2.2966727 | 20 | 4 10.6 | 19.8 |
| 203408 2001 $XR_{179}$ | 16.8 | X | 110.78576 | 186.00513 | 239.60721 | 1.60296 | 0.2106922 | 0.28049184 | 2.3112978 | 20 | 3 19.3 | 19.8 |
| 203409 2001 $XX_{182}$ | 17.2 | X | 125.49733 | 327.72332 | 120.92140 | 3.14293 | 0.1657066 | 0.28443106 | 2.2899080 | 20 | 5 2.5 | 20.3 |
| 203410 2001 $XW_{185}$ | 16.9 | X | 141.65233 | 167.93789 | 214.96888 | 1.51729 | 0.2229262 | 0.28098756 | 2.3085786 | 20 | 2 27.4 | 20.4 |
| 203411 2001 $XN_{188}$ | 16.8 | X | 79.21451 | 193.18433 | 258.85911 | 5.87046 | 0.0730160 | 0.27742217 | 2.3283161 | 20 | 2 16.5 | 19.5 |
| 203412 2001 $XO_{188}$ | 16.6 | X | 89.98077 | 13.67691 | 120.06912 | 7.77549 | 0.0993273 | 0.28419796 | 2.2911600 | 20 | 5 12.6 | 19.4 |
| 203413 2001 $XD_{191}$ | 16.9 | X | 125.80637 | 158.85696 | 256.69751 | 2.91949 | 0.2123334 | 0.28114275 | 2.3077289 | 20 | 3 22.3 | 20.1 |
| 203414 2001 $XJ_{192}$ | 16.5 | X | 165.87311 | 170.62911 | 235.48937 | 2.65240 | 0.1463742 | 0.28483377 | 2.2877491 | 20 | 4 14.7 | 19.8 |
| 203415 2001 $XR_{192}$ | 17.3 | X | 119.09146 | 142.91232 | 281.60264 | 1.51263 | 0.2258482 | 0.28119895 | 2.3074214 | 20 | 3 29.2 | 20.6 |
| 203416 2001 $XJ_{193}$ | 16.5 | X | 144.19576 | 272.21365 | 140.41536 | 5.91083 | 0.1038905 | 0.28183947 | 2.3039241 | 20 | 3 30.6 | 19.7 |
| 203417 2001 $XK_{194}$ | 16.4 | X | 96.61837 | 195.91673 | 267.52428 | 5.82386 | 0.0658251 | 0.28080280 | 2.3095911 | 20 | 3 27.5 | 19.3 |
| 203418 2001 $XM_{203}$ | 17.0 | X | 166.02316 | 271.22465 | 132.37849 | 5.56690 | 0.1145482 | 0.28850420 | 2.2683042 | 20 | 4 12.9 | 20.2 |
| 203419 2001 $XR_{204}$ | 16.9 | X | 136.83914 | 205.88295 | 200.22836 | 6.17786 | 0.0915855 | 0.28399977 | 2.2922257 | 20 | 3 7.3 | 19.9 |
| 203420 2001 $XC_{209}$ | 17.3 | X | 119.45331 | 280.22291 | 128.45922 | 4.34510 | 0.2077892 | 0.28156255 | 2.3054345 | 20 | 3 8.6 | 20.4 |
| 203421 2001 $XJ_{211}$ | 16.9 | X | 98.04083 | 251.75625 | 191.88580 | 3.91418 | 0.1624081 | 0.28109386 | 2.3079965 | 20 | 3 20.3 | 19.7 |
| 203422 2001 $XG_{225}$ | 17.7 | X | 197.74382 | 79.89373 | 295.61985 | 2.09503 | 0.1715004 | 0.29007886 | 2.2600879 | 20 | 4 5.4 | 21.2 |
| 203423 2001 $XU_{232}$ | 17.0 | X | 207.13410 | 115.00638 | 291.59745 | 5.90102 | 0.0980763 | 0.29373653 | 2.2412867 | 20 | 5 29.4 | 20.2 |
| 203424 2001 $XG_{239}$ | 16.5 | X | 97.42691 | 35.60005 | 34.62984 | 3.25654 | 0.1391089 | 0.27958256 | 2.3163064 | 20 | 2 28.0 | 19.1 |
| 203425 2001 $XZ_{242}$ | 16.6 | X | 134.73814 | 196.35207 | 247.20106 | 4.94573 | 0.1211032 | 0.28673004 | 2.2776514 | 20 | 4 28.8 | 19.8 |
| 203426 2001 $XZ_{249}$ | 16.5 | X | 138.12034 | 284.00041 | 91.56767 | 7.18791 | 0.1212315 | 0.27897566 | 2.3196645 | 20 | 2 4.9 | 19.5 |
| 203427 2001 $XT_{252}$ | 17.6 | X | 10.36514 | 322.26896 | 116.58382 | 2.97555 | 0.1813543 | 0.26659192 | 2.3909550 | 20 | — | — |
| 203428 2001 $XP_{263}$ | 14.6 | X | 316.86965 | 295.22913 | 90.59907 | 17.39222 | 0.0783000 | 0.15103324 | 3.4921081 | 20 | 9 26.9 | 19.5 |
| 203429 2001 $XB_{264}$ | 16.8 | X | 80.65005 | 253.30115 | 292.83460 | 6.78905 | 0.1119425 | 0.29398087 | 2.2400446 | 20 | 7 14.9 | 19.4 |
| 203430 2001 $YB_{2}$ | 15.9 | X | 47.19924 | 104.78589 | 85.35278 | 24.12326 | 0.1538490 | 0.28592018 | 2.2819503 | 20 | 6 6.1 | 18.1 |
| 203431 2001 $YW_{2}$ | 16.2 | X | 168.73680 | 246.20478 | 107.94582 | 7.68789 | 0.1395248 | 0.27985504 | 2.3148026 | 20 | 2 12.7 | 19.5 |
| 203432 2001 $YG_{3}$ | 15.8 | X | 74.50729 | 65.61502 | 88.76689 | 23.16735 | 0.2434311 | 0.28512749 | 2.2861777 | 20 | 6 11.9 | 18.5 |
| 203433 2001 $YE_{6}$ | 17.1 | X | 127.35514 | 302.78364 | 82.51791 | 3.20466 | 0.2271814 | 0.27857597 | 2.3218827 | 20 | 2 18.6 | 20.3 |
| 203434 2001 $YH_{6}$ | 17.2 | X | 132.68326 | 268.36620 | 63.79053 | 7.21098 | 0.2190318 | 0.27637565 | 2.3341899 | 20 | — | — |
| 203435 2001 $YT_{6}$ | 17.7 | X | 149.68261 | 66.65033 | 327.01365 | 2.86142 | 0.1003133 | 0.28472541 | 2.2883295 | 20 | 3 8.0 | 20.8 |
| 203436 2001 $YY_{43}$ | 16.7 | X | 144.21712 | 313.15427 | 74.73200 | 10.59715 | 0.0754788 | 0.28119127 | 2.3074634 | 20 | 2 26.2 | 19.9 |
| 203437 2001 $YF_{44}$ | 16.6 | X | 30.04651 | 220.81097 | 277.74336 | 5.76081 | 0.0469974 | 0.27894180 | 2.3198522 | 20 | 2 4.2 | 19.1 |
| 203438 2001 $YP_{68}$ | 16.5 | X | 182.10877 | 99.18494 | 313.88219 | 3.34704 | 0.0964977 | 0.28880327 | 2.2667379 | 20 | 5 9.1 | 19.8 |
| 203439 2001 $YJ_{69}$ | 16.9 | X | 185.37931 | 275.89169 | 90.42705 | 6.29397 | 0.1907352 | 0.28436037 | 2.2902875 | 20 | 3 18.7 | 20.6 |
| 203440 2001 $YZ_{79}$ | 17.2 | X | 30.51705 | 83.21781 | 79.59599 | 2.70193 | 0.1491275 | 0.27862699 | 2.3215993 | 20 | 3 17.8 | 19.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203441 2001 $YD_{81}$ | 17.2 | X | 140.07082 | 133.14330 | 292.21741 | 4.90353 | 0.1619106 | 0.28408827 | 2.2917497 | 20 | 4 12.7 | 20.5 |
| 203442 2001 $YY_{81}$ | 16.5 | X | 48.68496 | 229.59580 | 306.01817 | 4.92818 | 0.1257923 | 0.28303064 | 2.2974553 | 20 | 5 7.5 | 18.8 |
| 203443 2001 $YT_{83}$ | 17.5 | X | 159.70430 | 58.32604 | 341.02683 | 1.95664 | 0.2314563 | 0.28485481 | 2.2876365 | 20 | 4 4.8 | 21.1 |
| 203444 2001 $YK_{84}$ | 15.7 | X | 171.69066 | 64.55520 | 299.06241 | 6.06521 | 0.1535979 | 0.28008029 | 2.3135613 | 20 | 2 24.9 | 19.2 |
| 203445 2001 $YX_{85}$ | 17.2 | X | 94.72692 | 56.64742 | 22.85351 | 2.83295 | 0.1277693 | 0.27836237 | 2.3230704 | 20 | 3 5.8 | 19.7 |
| 203446 2001 $YZ_{85}$ | 17.0 | X | 94.92385 | 66.25781 | 353.56986 | 3.10912 | 0.1900505 | 0.27677212 | 2.3319603 | 20 | 2 17.7 | 19.5 |
| 203447 2001 $YP_{86}$ | 16.8 | X | 13.55138 | 208.33165 | 293.42781 | 1.69842 | 0.1489647 | 0.27307382 | 2.3529679 | 20 | 1 8.4 | 18.9 |
| 203448 2001 $YE_{87}$ | 16.5 | X | 2.91597 | 113.57865 | 85.33177 | 9.16728 | 0.2273142 | 0.27740392 | 2.3284182 | 20 | 3 12.5 | 18.3 |
| 203449 2001 $YE_{88}$ | 16.8 | X | 77.81309 | 315.60815 | 100.77058 | 7.26456 | 0.0894939 | 0.27283245 | 2.3543555 | 20 | — | — |
| 203450 2001 $YH_{88}$ | 16.6 | X | 146.19223 | 95.05027 | 294.22740 | 6.90318 | 0.1131309 | 0.27981975 | 2.3149972 | 20 | 2 26.8 | 19.9 |
| 203451 2001 $YP_{89}$ | 17.2 | X | 56.74656 | 85.14726 | 73.39500 | 4.75643 | 0.1676244 | 0.28138386 | 2.3064104 | 20 | 5 6.1 | 19.3 |
| 203452 2001 $YA_{91}$ | 16.5 | X | 52.90389 | 31.66894 | 87.07088 | 4.45843 | 0.1308054 | 0.27696006 | 2.3309052 | 20 | 2 23.1 | 18.6 |
| 203453 2001 $YQ_{95}$ | 17.6 | X | 131.73395 | 113.06738 | 335.25995 | 1.84507 | 0.1304128 | 0.28543825 | 2.2845181 | 20 | 5 3.1 | 20.6 |
| 203454 2001 $YU_{95}$ | 16.4 | X | 87.84992 | 22.28116 | 74.14353 | 6.40602 | 0.1462722 | 0.27984277 | 2.3148702 | 20 | 3 25.4 | 19.0 |
| 203455 2001 $YE_{96}$ | 16.6 | X | 73.48954 | 54.30558 | 61.48286 | 6.17704 | 0.1211323 | 0.27945831 | 2.3169929 | 20 | 3 26.1 | 19.1 |
| 203456 2001 $YA_{97}$ | 17.0 | X | 204.67960 | 148.39376 | 236.69174 | 3.61459 | 0.1656256 | 0.29213760 | 2.2494572 | 20 | 4 24.9 | 20.4 |
| 203457 2001 $YW_{104}$ | 17.4 | X | 134.33190 | 302.20897 | 104.51221 | 3.11073 | 0.2356766 | 0.28233511 | 2.3012270 | 20 | 3 25.1 | 20.8 |
| 203458 2001 $YU_{105}$ | 17.0 | X | 159.55639 | 145.93859 | 238.35862 | 1.85070 | 0.1588169 | 0.28308823 | 2.2971438 | 20 | 3 11.6 | 20.5 |
| 203459 2001 $YD_{109}$ | 16.6 | X | 94.31665 | 90.23111 | 69.39576 | 4.57706 | 0.1619817 | 0.28895268 | 2.2659565 | 20 | 7 1.9 | 19.4 |
| 203460 2001 $YQ_{118}$ | 16.3 | X | 65.09836 | 349.24903 | 90.52836 | 8.08309 | 0.0739147 | 0.27268937 | 2.3551789 | 20 | 1 12.3 | 18.7 |
| 203461 2001 $YJ_{123}$ | 16.7 | X | 206.46730 | 125.54101 | 307.60866 | 5.46550 | 0.1097854 | 0.29656366 | 2.2270199 | 20 | 7 5.5 | 19.7 |
| 203462 2001 $YM_{124}$ | 16.0 | X | 168.22205 | 78.54028 | 297.11079 | 6.47444 | 0.1278749 | 0.28409087 | 2.2917357 | 20 | 3 4.9 | 19.4 |
| 203463 2001 $YU_{130}$ | 17.3 | X | 106.47914 | 90.61127 | 32.14510 | 4.97412 | 0.2429256 | 0.28478076 | 2.2880330 | 20 | 6 3.9 | 20.6 |
| 203464 2001 $YM_{135}$ | 17.2 | X | 69.31211 | 50.58832 | 38.92376 | 2.67970 | 0.1663198 | 0.27620768 | 2.3351362 | 20 | 2 14.1 | 19.2 |
| 203465 2001 $YN_{137}$ | 16.7 | X | 145.80883 | 4.32509 | 41.82650 | 7.57038 | 0.1942569 | 0.28358517 | 2.2944594 | 20 | 4 1.4 | 20.1 |
| 203466 2001 $YR_{138}$ | 16.1 | X | 132.68718 | 106.70417 | 291.58170 | 6.44213 | 0.1072194 | 0.27779769 | 2.3262174 | 20 | 2 22.5 | 19.1 |
| 203467 2001 $YR_{151}$ | 16.3 | X | 216.66015 | 4.13369 | 339.18060 | 5.91332 | 0.2796799 | 0.28762950 | 2.2729005 | 20 | 3 10.9 | 20.4 |
| 203468 2001 $YE_{152}$ | 16.5 | X | 141.55400 | 73.80460 | 351.35503 | 6.97083 | 0.0490941 | 0.28418483 | 2.2912305 | 20 | 4 2.9 | 19.3 |
| 203469 2001 $YM_{154}$ | 16.4 | X | 280.68064 | 180.71016 | 18.63742 | 6.79740 | 0.0623895 | 0.26846855 | 2.3797999 | 20 | — | — |
| 203470 2002 $AU$ | 17.2 | X | 191.41052 | 253.48192 | 115.82130 | 6.18147 | 0.1842071 | 0.28511792 | 2.2862289 | 20 | 3 27.2 | 20.9 |
| 203471 2002 $AU_{4}$ | 19.4 | X | 261.29914 | 205.17899 | 99.44777 | 17.18559 | 0.3735752 | 1.24573698 | 0.8554313 | 20 | — | — |
| 203472 2002 $AH_{17}$ | 16.8 | X | 92.75490 | 141.37971 | 292.86759 | 5.46950 | 0.1738720 | 0.27523924 | 2.3406105 | 20 | 2 28.9 | 19.5 |
| 203473 2002 $AN_{21}$ | 16.9 | X | 153.23305 | 257.08944 | 106.29189 | 3.39382 | 0.1799059 | 0.27691756 | 2.3311437 | 20 | 2 11.8 | 20.2 |
| 203474 2002 $AK_{23}$ | 16.9 | X | 94.73815 | 300.18825 | 132.72830 | 6.08243 | 0.2166056 | 0.27858716 | 2.3218206 | 20 | 3 12.2 | 19.5 |
| 203475 2002 $AY_{29}$ | 16.3 | X | 0.59118 | 98.89750 | 67.85881 | 7.70885 | 0.0485641 | 0.27460267 | 2.3442264 | 20 | 2 3.6 | 19.0 |
| 203476 2002 $AQ_{34}$ | 15.8 | X | 187.81790 | 19.79827 | 344.04671 | 5.71514 | 0.2051689 | 0.28168634 | 2.3047590 | 20 | 3 14.2 | 19.4 |
| 203477 2002 $AS_{36}$ | 16.5 | X | 31.31792 | 87.76528 | 115.94643 | 7.84897 | 0.1611067 | 0.28703279 | 2.2760495 | 20 | 5 27.7 | 18.4 |
| 203478 2002 $AT_{38}$ | 17.2 | X | 80.29573 | 309.20523 | 174.18199 | 2.88918 | 0.1160355 | 0.28106766 | 2.3081399 | 20 | 4 13.5 | 19.6 |
| 203479 2002 $AL_{41}$ | 16.6 | X | 103.04244 | 2.59462 | 129.06211 | 5.37594 | 0.1310331 | 0.28446378 | 2.2897324 | 20 | 5 30.6 | 19.6 |
| 203480 2002 $AP_{48}$ | 17.0 | X | 15.21412 | 261.89539 | 293.86184 | 3.52757 | 0.1475895 | 0.27984033 | 2.3148837 | 20 | 4 2.1 | 18.8 |
| 203481 2002 $AG_{50}$ | 16.9 | X | 133.26030 | 121.17807 | 277.27593 | 1.87852 | 0.1651906 | 0.27874584 | 2.3209393 | 20 | 3 3.3 | 20.0 |
| 203482 2002 $AP_{51}$ | 16.9 | X | 101.54327 | 295.24469 | 130.24486 | 3.19885 | 0.1404813 | 0.27697479 | 2.3308226 | 20 | 2 27.1 | 19.6 |
| 203483 2002 $AK_{52}$ | 16.7 | X | 98.81427 | 302.64409 | 128.53627 | 4.74065 | 0.1201068 | 0.27685704 | 2.3314834 | 20 | 2 28.2 | 19.4 |
| 203484 2002 $AB_{54}$ | 17.3 | X | 27.48479 | 208.09284 | 276.26880 | 2.40101 | 0.1077568 | 0.27389845 | 2.3482428 | 20 | 1 11.7 | 19.6 |
| 203485 2002 $AZ_{61}$ | 17.6 | X | 71.77299 | 216.01252 | 245.19962 | 0.65224 | 0.1503706 | 0.27541947 | 2.3395893 | 20 | 3 2.9 | 19.7 |
| 203486 2002 $AR_{64}$ | 16.2 | X | 74.12825 | 111.18423 | 277.55436 | 5.64626 | 0.1327380 | 0.26576176 | 2.3959314 | 20 | — | — |
| 203487 2002 $AH_{65}$ | 17.1 | X | 84.36068 | 273.93686 | 139.83525 | 5.41128 | 0.2441581 | 0.27277049 | 2.3547120 | 20 | 1 31.9 | 19.4 |
| 203488 2002 $AL_{73}$ | 16.7 | X | 167.63226 | 310.91114 | 81.84855 | 6.38058 | 0.1697871 | 0.28482618 | 2.2877898 | 20 | 4 4.3 | 20.2 |
| 203489 2002 $AL_{80}$ | 16.5 | X | 210.43682 | 32.20609 | 318.19373 | 4.06891 | 0.1803460 | 0.28509797 | 2.2863355 | 20 | 3 15.8 | 20.1 |
| 203490 2002 $AB_{87}$ | 17.0 | X | 68.80051 | 268.52767 | 194.73528 | 3.57819 | 0.1357903 | 0.27693762 | 2.3310312 | 20 | 2 26.4 | 19.3 |
| 203491 2002 $AM_{91}$ | 16.6 | X | 345.85386 | 235.20787 | 256.17268 | 4.23644 | 0.0881142 | 0.26659725 | 2.3909231 | 20 | — | — |
| 203492 2002 $AC_{97}$ | 16.4 | X | 128.01659 | 272.73301 | 100.52854 | 6.02654 | 0.1399113 | 0.27436528 | 2.3455784 | 20 | 1 22.8 | 19.3 |
| 203493 2002 $AV_{97}$ | 16.3 | X | 28.82163 | 357.58071 | 86.00439 | 6.25972 | 0.0904586 | 0.26846553 | 2.3798178 | 20 | — | — |
| 203494 2002 $AO_{98}$ | 16.7 | X | 128.78238 | 62.25513 | 317.14386 | 5.24056 | 0.1656524 | 0.27564713 | 2.3383009 | 20 | 2 3.7 | 19.6 |
| 203495 2002 $AW_{101}$ | 16.8 | X | 26.54425 | 68.30652 | 78.55492 | 2.39695 | 0.0763163 | 0.27633158 | 2.3344381 | 20 | 2 13.4 | 19.0 |
| 203496 2002 $AW_{102}$ | 16.8 | X | 50.26146 | 100.20970 | 329.93651 | 6.18599 | 0.0874527 | 0.26934722 | 2.3746214 | 20 | — | — |
| 203497 2002 $AE_{107}$ | 16.7 | X | 292.41267 | 38.20387 | 107.56218 | 4.59376 | 0.1658410 | 0.26086629 | 2.4258135 | 20 | — | — |
| 203498 2002 $AV_{109}$ | 16.8 | X | 332.97810 | 23.31392 | 122.52032 | 2.83447 | 0.1339765 | 0.26658542 | 2.3909938 | 20 | — | — |
| 203499 2002 $AU_{111}$ | 16.6 | X | 23.76501 | 352.94988 | 111.02280 | 7.64537 | 0.0613353 | 0.26900012 | 2.3766637 | 20 | — | — |
| 203500 2002 $AK_{116}$ | 16.5 | X | 88.99614 | 271.76115 | 94.74192 | 5.44816 | 0.2492301 | 0.26759006 | 2.3850056 | 20 | — | — |
| 203501 2002 $AO_{121}$ | 16.0 | X | 106.74843 | 276.35495 | 117.03678 | 7.43683 | 0.1121590 | 0.27172704 | 2.3607363 | 20 | 1 16.9 | 18.7 |
| 203502 2002 $AW_{122}$ | 16.2 | X | 74.18229 | 342.75461 | 106.32526 | 4.92697 | 0.2075155 | 0.27540881 | 2.3396497 | 20 | 3 1.4 | 18.4 |
| 203503 2002 $AL_{126}$ | 17.2 | X | 252.04555 | 338.02252 | 217.29845 | 2.83416 | 0.1406174 | 0.26175719 | 2.4203062 | 20 | — | — |
| 203504 2002 $AS_{126}$ | 16.4 | X | 298.67411 | 141.25047 | 129.13297 | 5.18741 | 0.2107067 | 0.28072961 | 2.3099925 | 20 | 3 1.2 | 19.5 |
| 203505 2002 $AN_{130}$ | 16.8 | X | 88.17329 | 42.73293 | 59.30465 | 4.22079 | 0.1098591 | 0.27876629 | 2.3208258 | 20 | 3 26.2 | 19.4 |
| 203506 2002 $AQ_{130}$ | 16.8 | X | 334.67668 | 88.62783 | 99.98226 | 9.38026 | 0.1369684 | 0.27182054 | 2.3601949 | 20 | 1 11.1 | 19.6 |
| 203507 2002 $AY_{141}$ | 17.4 | X | 298.45792 | 12.10819 | 163.73643 | 2.41830 | 0.1425324 | 0.26645039 | 2.3918016 | 20 | — | — |
| 203508 2002 $AK_{142}$ | 17.5 | X | 119.05597 | 206.99569 | 196.67575 | 0.83403 | 0.1448816 | 0.27801245 | 2.3250192 | 20 | 2 20.3 | 20.5 |
| 203509 2002 $AZ_{154}$ | 16.2 | X | 332.51186 | 45.99813 | 122.85622 | 5.69396 | 0.1619801 | 0.26718992 | 2.3873861 | 20 | — | — |
| 203510 2002 $AG_{155}$ | 15.9 | X | 102.80063 | 74.46143 | 340.06748 | 9.82327 | 0.2137586 | 0.27440104 | 2.3453746 | 20 | 2 25.5 | 18.6 |
| 203511 2002 $AX_{156}$ | 16.9 | X | 21.14748 | 351.53937 | 218.36979 | 2.58914 | 0.1831478 | 0.28080565 | 2.3095754 | 20 | 5 15.1 | 18.3 |
| 203512 2002 $AB_{160}$ | 16.6 | X | 3.86922 | 337.67296 | 230.83673 | 1.83921 | 0.2258239 | 0.27702641 | 2.3305330 | 20 | 3 24.6 | 17.8 |
| 203513 2002 $AM_{162}$ | 17.5 | X | 58.53481 | 170.13347 | 274.00502 | 0.94604 | 0.2055856 | 0.27243201 | 2.3566620 | 20 | 1 18.8 | 19.2 |
| 203514 2002 $AD_{164}$ | 17.1 | X | 269.39624 | 309.98562 | 219.85748 | 3.24294 | 0.1293393 | 0.25872139 | 2.4392023 | 20 | — | — |
| 203515 2002 $AJ_{164}$ | 16.2 | X | 71.67533 | 131.76086 | 251.95944 | 3.14999 | 0.2371124 | 0.26608867 | 2.3939686 | 20 | — | — |
| 203516 2002 $AM_{165}$ | 16.7 | X | 79.05025 | 12.47634 | 146.28008 | 3.16994 | 0.0612650 | 0.28350209 | 2.2949076 | 20 | 5 24.5 | 19.3 |
| 203517 2002 $AP_{167}$ | 16.2 | X | 325.09541 | 0.25340 | 149.32069 | 11.56968 | 0.1196140 | 0.26321599 | 2.4113553 | 20 | — | — |
| 203518 2002 $AC_{174}$ | 17.3 | X | 359.81491 | 118.24580 | 59.72223 | 2.02942 | 0.1469393 | 0.27452041 | 2.3446947 | 20 | 2 6.0 | 19.4 |
| 203519 2002 $AN_{179}$ | 17.0 | X | 109.27142 | 182.56146 | 316.24887 | 1.20173 | 0.1651305 | 0.28485447 | 2.2876383 | 20 | 6 20.7 | 20.0 |
| 203520 2002 $AO_{179}$ | 16.4 | X | 336.46184 | 33.47691 | 129.46926 | 4.42258 | 0.0986653 | 0.26779351 | 2.3837975 | 20 | — | — |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203521 2002 $AP_{183}$ | 16.6 | X | 8.79886 | 285.40519 | 292.34494 | 6.01980 | 0.0691369 | 0.28565565 | 2.2833588 | 20 | 4 23.5 | 19.0 |
| 203522 2002 $AL_{185}$ | 17.2 | X | 151.25205 | 292.09967 | 101.30527 | 5.97868 | 0.1695816 | 0.28185435 | 2.3038430 | 20 | 3 20.0 | 20.7 |
| 203523 2002 $AS_{208}$ | 17.0 | X | 71.73463 | 114.04314 | 307.54267 | 4.23332 | 0.1051317 | 0.27156720 | 2.3616625 | 20 | — | — |
| 203524 2002 $BF_{8}$ | 16.4 | X | 301.82143 | 85.23455 | 106.41440 | 4.89884 | 0.1115492 | 0.26689280 | 2.3891576 | 20 | — | — |
| 203525 2002 $BV_{11}$ | 15.9 | X | 302.57663 | 68.78061 | 100.22379 | 8.32098 | 0.1084916 | 0.26300858 | 2.4126229 | 20 | — | — |
| 203526 2002 $BP_{14}$ | 16.7 | X | 40.61601 | 241.71560 | 248.62498 | 2.25605 | 0.1544098 | 0.27372675 | 2.3492247 | 20 | 2 15.1 | 18.6 |
| 203527 2002 $BT_{19}$ | 16.9 | X | 110.42500 | 282.90119 | 152.62299 | 3.44157 | 0.1366200 | 0.27963078 | 2.3160401 | 20 | 3 23.3 | 19.6 |
| 203528 2002 $BV_{19}$ | 16.7 | X | 91.29430 | 33.92303 | 150.49173 | 6.00801 | 0.0281602 | 0.29067728 | 2.2569849 | 20 | 7 13.1 | 19.3 |
| 203529 2002 $BL_{22}$ | 16.9 | X | 80.81620 | 263.72006 | 195.30390 | 2.18594 | 0.1176937 | 0.27690320 | 2.3312243 | 20 | 3 9.2 | 19.4 |
| 203530 2002 $BV_{27}$ | 16.5 | X | 81.88414 | 22.51669 | 72.12264 | 7.09340 | 0.0983505 | 0.27708271 | 2.3302174 | 20 | 3 6.4 | 19.2 |
| 203531 2002 $CB_{9}$ | 16.3 | X | 121.42877 | 162.74943 | 132.67305 | 7.09228 | 0.1107530 | 0.25568641 | 2.4584664 | 20 | — | — |
| 203532 2002 $CU_{12}$ | 16.9 | X | 359.67391 | 344.08905 | 164.33779 | 4.36913 | 0.2493434 | 0.27015617 | 2.3698787 | 20 | — | — |
| 203533 2002 $CL_{16}$ | 16.6 | X | 56.91313 | 217.76918 | 306.03327 | 8.81446 | 0.1157413 | 0.28456219 | 2.2892045 | 20 | 4 30.1 | 19.2 |
| 203534 2002 $CR_{16}$ | 16.2 | X | 178.04531 | 32.19172 | 326.74502 | 6.32265 | 0.1412408 | 0.28029781 | 2.3123643 | 20 | 2 25.9 | 19.6 |
| 203535 2002 $CW_{21}$ | 16.8 | X | 114.87349 | 289.49334 | 129.25798 | 3.37294 | 0.1521155 | 0.27652626 | 2.3333423 | 20 | 3 8.9 | 19.7 |
| 203536 2002 $CB_{22}$ | 16.3 | X | 144.34007 | 97.59499 | 323.59493 | 6.37977 | 0.1032846 | 0.28037866 | 2.3119197 | 20 | 4 5.8 | 19.6 |
| 203537 2002 $CG_{28}$ | 16.0 | X | 100.90386 | 54.72213 | 1.66069 | 7.01550 | 0.1112476 | 0.27501392 | 2.3418888 | 20 | 2 10.9 | 18.8 |
| 203538 2002 $CK_{38}$ | 17.1 | X | 357.98644 | 86.29702 | 100.67162 | 3.13938 | 0.1684430 | 0.27361342 | 2.3498733 | 20 | 2 13.7 | 19.0 |
| 203539 2002 $CZ_{40}$ | 17.0 | X | 352.38363 | 283.85677 | 206.98090 | 8.07814 | 0.1681925 | 0.26701182 | 2.3884476 | 20 | — | — |
| 203540 2002 $CY_{47}$ | 17.0 | X | 104.43472 | 279.24057 | 128.62571 | 2.31542 | 0.1987389 | 0.27540867 | 2.3396505 | 20 | 2 16.0 | 19.7 |
| 203541 2002 $CM_{48}$ | 16.7 | X | 350.24827 | 271.87333 | 220.05134 | 7.29055 | 0.1023894 | 0.26697421 | 2.3886720 | 20 | — | — |
| 203542 2002 $CW_{52}$ | 17.3 | X | 129.06346 | 345.22100 | 160.18084 | 0.83657 | 0.1456214 | 0.29028609 | 2.2590122 | 20 | 7 20.0 | 20.3 |
| 203543 2002 $CT_{59}$ | 16.5 | X | 76.50746 | 114.90679 | 357.68937 | 5.24392 | 0.1845087 | 0.27595150 | 2.3365812 | 20 | 4 2.0 | 18.8 |
| 203544 2002 $CH_{66}$ | 16.4 | X | 288.74941 | 159.93909 | 126.42434 | 6.81051 | 0.1101805 | 0.28164710 | 2.3049731 | 20 | 3 27.1 | 19.3 |
| 203545 2002 $CJ_{67}$ | 17.3 | X | 119.30618 | 357.45916 | 89.60464 | 1.70950 | 0.1082902 | 0.28159848 | 2.3052384 | 20 | 4 15.3 | 20.2 |
| 203546 2002 $CK_{72}$ | 16.3 | X | 173.09495 | 180.33848 | 131.45760 | 6.52616 | 0.1254971 | 0.26671142 | 2.3902407 | 20 | — | — |
| 203547 2002 $CY_{72}$ | 17.6 | X | 118.26371 | 91.34925 | 351.81608 | 2.47358 | 0.1576464 | 0.28069624 | 2.3101756 | 20 | 4 13.7 | 20.6 |
| 203548 2002 $CS_{73}$ | 16.7 | X | 285.25770 | 53.21925 | 124.07074 | 6.66804 | 0.0706420 | 0.26282820 | 2.4137266 | 20 | — | — |
| 203549 2002 $CM_{75}$ | 16.9 | X | 67.08854 | 41.51151 | 4.95421 | 3.12477 | 0.1810316 | 0.26831352 | 2.3807165 | 20 | — | — |
| 203550 2002 $CE_{76}$ | 16.7 | X | 54.58157 | 109.54159 | 331.71462 | 4.39985 | 0.1330486 | 0.27021410 | 2.3695400 | 20 | — | — |
| 203551 2002 $CS_{79}$ | 17.1 | X | 338.23666 | 43.31193 | 131.02679 | 1.85819 | 0.1275852 | 0.26922612 | 2.3753334 | 20 | — | — |
| 203552 2002 $CD_{82}$ | 17.2 | X | 54.35190 | 315.33399 | 136.89533 | 1.77746 | 0.1517187 | 0.27102537 | 2.3648091 | 20 | 1 17.4 | 19.2 |
| 203553 2002 $CW_{86}$ | 16.6 | X | 185.28501 | 300.72947 | 318.17069 | 4.72738 | 0.0764419 | 0.25970763 | 2.4330232 | 20 | — | — |
| 203554 2002 $CD_{90}$ | 17.1 | X | 28.54915 | 122.06798 | 359.95907 | 1.54461 | 0.1298665 | 0.27060497 | 2.3672577 | 20 | 1 10.6 | 19.3 |
| 203555 2002 $CZ_{94}$ | 17.1 | X | 309.32847 | 80.18339 | 121.57354 | 2.17275 | 0.1324794 | 0.26746688 | 2.3857378 | 20 | — | — |
| 203556 2002 $CK_{98}$ | 16.4 | X | 324.37883 | 53.66780 | 140.22643 | 3.01676 | 0.1493430 | 0.26835447 | 2.3804743 | 20 | 1 2.0 | 19.1 |
| 203557 2002 $CV_{99}$ | 17.2 | X | 354.29042 | 138.32762 | 40.22766 | 2.62538 | 0.1168200 | 0.27117240 | 2.3639542 | 20 | 2 1.7 | 19.5 |
| 203558 2002 $CA_{101}$ | 17.3 | X | 65.95572 | 348.45400 | 125.57901 | 3.19005 | 0.1525643 | 0.27451206 | 2.3447422 | 20 | 3 13.9 | 19.4 |
| 203559 2002 $CJ_{113}$ | 17.0 | X | 127.64920 | 301.96536 | 95.85277 | 8.63449 | 0.1283697 | 0.27670509 | 2.3323369 | 20 | 2 24.7 | 20.1 |
| 203560 2002 $CV_{113}$ | 16.5 | X | 65.15488 | 11.37305 | 61.39735 | 6.42888 | 0.0972068 | 0.27024387 | 2.3693660 | 20 | 1 5.0 | 18.9 |
| 203561 2002 $CC_{119}$ | 17.2 | X | 24.28912 | 277.82493 | 289.37590 | 1.65310 | 0.1648220 | 0.28186033 | 2.3038105 | 20 | 5 15.3 | 18.9 |
| 203562 2002 $CM_{119}$ | 16.5 | X | 57.65261 | 58.47877 | 136.66257 | 7.46979 | 0.0423977 | 0.28647837 | 2.2789851 | 20 | 6 12.0 | 19.1 |
| 203563 2002 $CV_{119}$ | 16.8 | X | 267.24764 | 326.90014 | 218.14623 | 2.45376 | 0.1742251 | 0.26097534 | 2.4251377 | 20 | — | — |
| 203564 2002 $CO_{120}$ | 17.2 | X | 304.10388 | 322.65458 | 150.49372 | 1.85448 | 0.1270683 | 0.25904092 | 2.4371960 | 20 | — | — |
| 203565 2002 $CR_{122}$ | 17.3 | X | 265.61854 | 342.87642 | 198.38525 | 0.54178 | 0.1218931 | 0.26053336 | 2.4278797 | 20 | — | — |
| 203566 2002 $CS_{134}$ | 16.8 | X | 24.56920 | 69.54485 | 167.31169 | 4.50348 | 0.2412095 | 0.27956101 | 2.3164254 | 20 | 7 18.7 | 18.6 |
| 203567 2002 $CB_{145}$ | 16.5 | X | 6.51878 | 20.26850 | 159.57915 | 7.92867 | 0.1254061 | 0.27327800 | 2.3517957 | 20 | 2 22.9 | 18.5 |
| 203568 2002 $CL_{150}$ | 16.2 | X | 110.07150 | 177.14970 | 112.41350 | 4.68466 | 0.1934865 | 0.25145890 | 2.4859442 | 20 | 12 29.7 | 20.2 |
| 203569 2002 $CY_{151}$ | 17.0 | X | 343.04436 | 129.82605 | 56.04325 | 2.07909 | 0.1291272 | 0.26976761 | 2.3721538 | 20 | 1 22.4 | 19.4 |
| 203570 2002 $CM_{152}$ | 17.1 | X | 22.44741 | 81.73992 | 112.27637 | 7.24678 | 0.0565086 | 0.28062301 | 2.3105775 | 20 | 4 18.5 | 19.7 |
| 203571 2002 $CK_{155}$ | 16.4 | X | 294.62041 | 136.60114 | 78.68392 | 6.41073 | 0.1729174 | 0.26976011 | 2.3721978 | 20 | — | — |
| 203572 2002 $CE_{167}$ | 16.7 | X | 214.24131 | 155.64635 | 54.03164 | 4.27098 | 0.1065606 | 0.25499518 | 2.4629073 | 20 | — | — |
| 203573 2002 $CM_{178}$ | 17.4 | X | 4.38109 | 72.78784 | 66.30557 | 2.11586 | 0.1183485 | 0.27063086 | 2.3671067 | 20 | — | — |
| 203574 2002 $CW_{185}$ | 17.1 | X | 98.45176 | 24.47806 | 20.11619 | 2.99439 | 0.1716366 | 0.27287014 | 2.3541386 | 20 | 1 30.7 | 19.8 |
| 203575 2002 $CN_{203}$ | 17.3 | X | 338.28344 | 217.09593 | 15.82526 | 2.34877 | 0.1527464 | 0.27658335 | 2.3330213 | 20 | 3 17.9 | 19.5 |
| 203576 2002 $CT_{203}$ | 17.2 | X | 64.24008 | 31.70029 | 17.88667 | 2.50364 | 0.2178436 | 0.26823876 | 2.3811588 | 20 | — | — |
| 203577 2002 $CR_{209}$ | 16.2 | X | 117.27415 | 189.93497 | 114.07258 | 4.97300 | 0.0336183 | 0.25548793 | 2.4597396 | 20 | — | — |
| 203578 2002 $CQ_{214}$ | 17.2 | X | 318.44884 | 145.08302 | 78.98671 | 2.42553 | 0.1436666 | 0.27165027 | 2.3611810 | 20 | 2 4.8 | 19.9 |
| 203579 2002 $CB_{217}$ | 16.2 | X | 93.92291 | 117.74780 | 121.64120 | 4.20508 | 0.0435256 | 0.24105678 | 2.5569554 | 20 | 10 1.8 | 19.6 |
| 203580 2002 $CG_{217}$ | 16.8 | X | 309.25900 | 113.10385 | 133.04380 | 6.42566 | 0.1958782 | 0.27189532 | 2.3597622 | 20 | 2 13.6 | 19.6 |
| 203581 2002 $CK_{222}$ | 17.1 | X | 101.32959 | 295.04889 | 125.04878 | 2.89342 | 0.1982488 | 0.27628330 | 2.3347101 | 20 | 2 28.8 | 19.9 |
| 203582 2002 $CS_{232}$ | 16.3 | X | 62.90656 | 355.03106 | 87.82630 | 7.73685 | 0.0836401 | 0.27073979 | 2.3664717 | 20 | 1 14.5 | 18.7 |
| 203583 2002 $CN_{233}$ | 16.8 | X | 138.71008 | 150.38208 | 249.78671 | 2.63249 | 0.1511296 | 0.27770004 | 2.3267626 | 20 | 3 9.5 | 20.1 |
| 203584 2002 $CV_{235}$ | 17.1 | X | 272.18405 | 50.81857 | 146.50584 | 2.32222 | 0.1606234 | 0.26180383 | 2.4200187 | 20 | — | — |
| 203585 2002 $CZ_{236}$ | 16.7 | X | 283.45179 | 321.46498 | 217.59320 | 3.10923 | 0.1569408 | 0.26013931 | 2.4303308 | 20 | — | — |
| 203586 2002 $CA_{242}$ | 16.9 | X | 350.09111 | 242.11176 | 287.97615 | 2.30751 | 0.1361258 | 0.26900150 | 2.3766556 | 20 | 1 10.1 | 19.5 |
| 203587 2002 $CK_{246}$ | 17.5 | X | 108.41442 | 350.56157 | 52.98733 | 1.45025 | 0.2035955 | 0.27264285 | 2.3554469 | 20 | 2 17.0 | 20.4 |
| 203588 2002 $CZ_{252}$ | 16.5 | X | 98.84715 | 238.06285 | 204.92169 | 4.74755 | 0.1068397 | 0.27712699 | 2.3299691 | 20 | 3 10.9 | 19.4 |
| 203589 2002 $CE_{254}$ | 17.0 | X | 104.27222 | 305.65883 | 111.98524 | 6.00597 | 0.1653702 | 0.27528258 | 2.3403648 | 20 | 2 25.5 | 19.8 |
| 203590 2002 $CC_{275}$ | 16.7 | X | 285.85862 | 275.28202 | 146.77640 | 1.41639 | 0.0997358 | 0.24673336 | 2.5175850 | 20 | 10 3.9 | 19.5 |
| 203591 2002 $CL_{277}$ | 17.5 | X | 356.22679 | 311.24324 | 209.33617 | 1.51746 | 0.1350508 | 0.27040673 | 2.3684145 | 20 | 1 6.5 | 19.8 |
| 203592 2002 $CQ_{278}$ | 16.1 | X | 105.79467 | 346.36912 | 320.66158 | 5.26022 | 0.1218437 | 0.25544341 | 2.4600253 | 20 | — | — |
| 203593 2002 $CG_{283}$ | 16.7 | X | 98.86292 | 259.71723 | 160.99099 | 3.54816 | 0.1624376 | 0.27285233 | 2.3542411 | 20 | 2 19.7 | 19.5 |
| 203594 2002 $CQ_{287}$ | 16.5 | X | 218.28291 | 80.74704 | 139.56245 | 3.92592 | 0.0785473 | 0.26047067 | 2.4282692 | 20 | — | — |
| 203595 2002 $CK_{292}$ | 17.2 | X | 13.29744 | 253.94363 | 302.58246 | 1.57584 | 0.1082871 | 0.27935164 | 2.3175827 | 20 | 4 1.2 | 19.1 |
| 203596 2002 $CE_{299}$ | 17.0 | X | 349.95104 | 158.69480 | 58.35559 | 2.14059 | 0.1151069 | 0.27844197 | 2.3226276 | 20 | 3 21.0 | 19.3 |
| 203597 2002 $CA_{301}$ | 17.4 | X | 249.28588 | 300.44982 | 257.59539 | 0.79396 | 0.1297268 | 0.25801367 | 2.4436607 | 20 | — | — |
| 203598 2002 $CE_{310}$ | 16.7 | X | 24.07434 | 275.11045 | 177.95253 | 4.65847 | 0.0907443 | 0.26610740 | 2.3938563 | 20 | — | — |
| 203599 2002 $CB_{311}$ | 17.1 | X | 341.45811 | 57.14999 | 139.29082 | 4.86178 | 0.0845660 | 0.27203184 | 2.3589726 | 20 | 2 9.3 | 19.8 |
| 203600 2002 $CN_{314}$ | 16.5 | X | 244.34605 | 146.08954 | 120.25070 | 7.23457 | 0.1264115 | 0.26775375 | 2.3840334 | 20 | 1 7.6 | 20.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203601 2002 $DR_1$ | 16.7 | X | 63.30998 | 320.15381 | 146.80882 | 2.80865 | 0.1436575 | 0.27298544 | 2.3534757 | 20 | 2 25.2 | 18.8 |
| 203602 Danjoyce | 17.0 | X | 41.19477 | 82.88243 | 31.21183 | 8.90359 | 0.1543346 | 0.27097493 | 2.3651026 | 20 | 1 27.5 | 19.2 |
| 203603 2002 $EJ_2$ | 17.3 | X | 90.56514 | 278.41116 | 199.95052 | 0.78844 | 0.0763210 | 0.27726042 | 2.3292215 | 20 | 4 14.5 | 19.9 |
| 203604 2002 $EJ_{21}$ | 17.1 | X | 334.60441 | 283.94229 | 231.23211 | 4.03569 | 0.1640179 | 0.26469783 | 2.4023473 | 20 | — | — |
| 203605 2002 $EW_{24}$ | 17.4 | X | 41.04237 | 119.67463 | 5.62531 | 2.30431 | 0.1543145 | 0.27132775 | 2.3630518 | 20 | 2 10.8 | 19.4 |
| 203606 2002 $EG_{28}$ | 16.4 | X | 328.97726 | 349.90012 | 164.81963 | 1.76458 | 0.1093873 | 0.26303425 | 2.4124659 | 20 | — | — |
| 203607 2002 $EA_{54}$ | 16.9 | X | 15.32125 | 235.60896 | 236.49150 | 0.55077 | 0.0615783 | 0.26472258 | 2.4021976 | 20 | — | — |
| 203608 2002 $EV_{58}$ | 16.6 | X | 250.88626 | 297.26675 | 321.05744 | 5.23705 | 0.0835136 | 0.26675213 | 2.3899975 | 20 | 1 7.6 | 20.0 |
| 203609 2002 $EW_{65}$ | 17.1 | X | 59.72734 | 243.20145 | 268.83479 | 1.80224 | 0.1747909 | 0.27706391 | 2.3303227 | 20 | 5 1.0 | 19.2 |
| 203610 2002 $EC_{67}$ | 16.9 | X | 345.70701 | 235.14787 | 304.21173 | 1.93546 | 0.0887684 | 0.26872206 | 2.3783029 | 20 | 1 23.0 | 19.3 |
| 203611 2002 $EP_{67}$ | 16.7 | X | 115.02057 | 266.24144 | 223.13719 | 2.21547 | 0.1455682 | 0.28225727 | 2.3016500 | 20 | 6 12.0 | 19.7 |
| 203612 2002 $EG_{78}$ | 16.9 | X | 72.07053 | 74.53319 | 182.54401 | 2.29527 | 0.1560141 | 0.23455869 | 2.6039644 | 20 | 10 9.9 | 20.4 |
| 203613 2002 $EF_{81}$ | 17.4 | X | 87.77657 | 229.27197 | 206.00727 | 1.74344 | 0.2122711 | 0.27356872 | 2.3501293 | 20 | 3 2.4 | 19.7 |
| 203614 2002 $EL_{88}$ | 16.6 | X | 327.32768 | 59.50440 | 88.61251 | 3.43652 | 0.1092319 | 0.26106806 | 2.4245634 | 20 | — | — |
| 203615 2002 $EA_{91}$ | 16.8 | X | 44.84849 | 325.82123 | 116.02025 | 2.94431 | 0.1298804 | 0.26556670 | 2.3971045 | 20 | — | — |
| 203616 2002 $EM_{97}$ | 16.4 | X | 259.13789 | 290.09342 | 243.11668 | 5.53771 | 0.1721531 | 0.25669958 | 2.4519933 | 20 | — | — |
| 203617 2002 $EM_{108}$ | 17.9 | X | 335.39874 | 80.88574 | 54.63232 | 1.36687 | 0.1513678 | 0.26360311 | 2.4089939 | 20 | — | — |
| 203618 2002 $EX_{115}$ | 16.0 | X | 231.58221 | 179.82535 | 61.79230 | 7.12507 | 0.0695317 | 0.25907133 | 2.4370054 | 20 | — | — |
| 203619 2002 $EO_{120}$ | 17.1 | X | 80.73922 | 73.70495 | 342.95327 | 4.47189 | 0.2201287 | 0.27039979 | 2.3684551 | 20 | 1 27.3 | 19.2 |
| 203620 2002 $EU_{125}$ | 16.5 | X | 252.15770 | 204.63064 | 38.37337 | 3.87489 | 0.0886749 | 0.26518321 | 2.3994150 | 20 | — | — |
| 203621 2002 $EB_{129}$ | 17.1 | X | 282.74965 | 262.50572 | 346.17211 | 1.06981 | 0.1463377 | 0.26909294 | 2.3761171 | 20 | 1 23.4 | 20.2 |
| 203622 2002 $EP_{129}$ | 16.6 | X | 148.08209 | 332.47928 | 264.87976 | 3.24228 | 0.1804301 | 0.24523276 | 2.5278447 | 20 | 11 28.1 | 20.6 |
| 203623 2002 $FU$ | 16.7 | X | 323.44720 | 158.84039 | 17.27778 | 2.02303 | 0.1385580 | 0.26421351 | 2.4052822 | 20 | — | — |
| 203624 2002 $FZ_3$ | 16.0 | X | 204.04339 | 165.05890 | 80.23354 | 7.54854 | 0.0841159 | 0.25610972 | 2.4557567 | 20 | — | — |
| 203625 2002 $FH_{13}$ | 16.4 | X | 299.26113 | 179.33385 | 29.70970 | 2.77570 | 0.1400843 | 0.26386861 | 2.4073777 | 20 | — | — |
| 203626 2002 $FQ_{16}$ | 16.6 | X | 38.31704 | 41.13987 | 88.69237 | 7.56907 | 0.1703471 | 0.26952026 | 2.3736050 | 20 | 2 15.4 | 18.6 |
| 203627 2002 $FC_{20}$ | 16.0 | X | 25.49986 | 195.63624 | 306.85101 | 7.92241 | 0.0575329 | 0.27034197 | 2.3687928 | 20 | 2 5.1 | 18.5 |
| 203628 2002 $FP_{22}$ | 16.4 | X | 3.51865 | 82.91887 | 65.51045 | 10.89302 | 0.1579711 | 0.26708425 | 2.3880158 | 20 | — | — |
| 203629 2002 $FP_{25}$ | 15.9 | X | 232.41076 | 158.31279 | 99.37995 | 16.30486 | 0.1644191 | 0.26161713 | 2.4211699 | 20 | — | — |
| 203630 2002 $FR_{27}$ | 16.0 | X | 214.55629 | 53.51484 | 71.75207 | 6.09878 | 0.0230664 | 0.24362769 | 2.5389352 | 20 | 10 3.6 | 19.4 |
| 203631 2002 $FF_{29}$ | 16.3 | X | 213.12893 | 197.47758 | 49.17461 | 7.14223 | 0.0816276 | 0.25832764 | 2.4416803 | 20 | — | — |
| 203632 2002 $FN_{38}$ | 17.0 | X | 209.20169 | 183.42063 | 63.38463 | 4.50036 | 0.0910192 | 0.25727274 | 2.4483502 | 20 | — | — |
| 203633 2002 $FO_{38}$ | 17.3 | X | 35.58380 | 24.66002 | 106.04536 | 3.83515 | 0.1764466 | 0.27120300 | 2.3637764 | 20 | 2 8.1 | 19.1 |
| 203634 2002 $GH_3$ | 16.6 | X | 133.84265 | 321.22185 | 38.66134 | 23.19104 | 0.0539637 | 0.36976152 | 1.9224493 | 20 | — | — |
| 203635 2002 $GK_{24}$ | 17.3 | X | 36.07895 | 275.16768 | 191.10885 | 1.14418 | 0.0858471 | 0.26638804 | 2.3921747 | 20 | 1 3.1 | 19.6 |
| 203636 2002 $GZ_{41}$ | 16.8 | X | 259.30678 | 247.00869 | 356.92102 | 1.49638 | 0.1804750 | 0.26187121 | 2.4196036 | 20 | — | — |
| 203637 2002 $GY_{44}$ | 17.1 | X | 249.89007 | 256.20375 | 348.72065 | 0.99633 | 0.1483357 | 0.26027006 | 2.4295168 | 20 | — | — |
| 203638 2002 $GL_{45}$ | 16.7 | X | 331.27943 | 183.11852 | 3.26749 | 1.36157 | 0.1302923 | 0.26569172 | 2.3963525 | 20 | 1 5.5 | 19.4 |
| 203639 2002 $GK_{70}$ | 16.6 | X | 190.57157 | 198.25605 | 63.92833 | 5.34250 | 0.0741596 | 0.25334951 | 2.4735613 | 20 | — | — |
| 203640 2002 $GT_{77}$ | 16.2 | X | 145.45356 | 142.75702 | 104.68936 | 6.37292 | 0.0455769 | 0.24691230 | 2.5163685 | 20 | 12 12.1 | 19.7 |
| 203641 2002 $GZ_{81}$ | 16.0 | X | 104.81676 | 195.81268 | 68.46798 | 6.35234 | 0.0940768 | 0.24126212 | 2.5555043 | 20 | 11 18.5 | 19.6 |
| 203642 2002 $GR_{83}$ | 16.7 | X | 75.88551 | 309.86815 | 158.07376 | 6.81672 | 0.0971923 | 0.26993390 | 2.3711795 | 20 | 3 13.3 | 19.1 |
| 203643 2002 $GK_{96}$ | 17.2 | X | 241.81638 | 299.65080 | 307.42978 | 1.31737 | 0.1893759 | 0.25833698 | 2.4416215 | 20 | — | — |
| 203644 2002 $GC_{99}$ | 17.1 | X | 258.68583 | 335.35939 | 250.95515 | 1.78661 | 0.1330857 | 0.26022925 | 2.4297708 | 20 | — | — |
| 203645 2002 $GF_{99}$ | 15.3 | X | 2.10078 | 160.07455 | 205.23772 | 13.07313 | 0.1103144 | 0.24337977 | 2.5406591 | 20 | 11 23.1 | 18.3 |
| 203646 2002 $GL_{100}$ | 17.3 | X | 281.19434 | 107.68842 | 61.84487 | 3.60389 | 0.1343933 | 0.25696109 | 2.4503294 | 20 | — | — |
| 203647 2002 $GS_{116}$ | 16.8 | X | 183.52992 | 177.41822 | 84.88360 | 5.62948 | 0.0546087 | 0.25324442 | 2.4742455 | 20 | — | — |
| 203648 2002 $GQ_{123}$ | 16.6 | X | 20.08352 | 24.16925 | 114.26355 | 3.36890 | 0.1201039 | 0.26733526 | 2.3865208 | 20 | 1 19.9 | 18.9 |
| 203649 2002 $GQ_{142}$ | 17.0 | X | 272.51938 | 339.05456 | 230.69440 | 0.49831 | 0.1300419 | 0.25797065 | 2.4439324 | 20 | — | — |
| 203650 2002 $GV_{159}$ | 16.1 | X | 49.14358 | 131.62033 | 90.73143 | 3.72499 | 0.0478087 | 0.22725975 | 2.6594247 | 20 | 7 6.5 | 19.5 |
| 203651 2002 $GK_{163}$ | 16.9 | X | 44.30837 | 75.45237 | 44.40060 | 2.59131 | 0.1467741 | 0.26984236 | 2.3717157 | 20 | 2 9.5 | 19.0 |
| 203652 2002 $GS_{164}$ | 16.7 | X | 103.74365 | 345.09333 | 147.58341 | 3.03154 | 0.0932944 | 0.27743072 | 2.3282683 | 20 | 5 27.1 | 19.6 |
| 203653 2002 $GR_{171}$ | 17.1 | X | 305.90104 | 85.69699 | 116.04479 | 2.28906 | 0.1257929 | 0.26432979 | 2.4045768 | 20 | — | — |
| 203654 2002 $GW_{175}$ | 16.0 | X | 29.04093 | 214.52086 | 97.46791 | 7.91868 | 0.0752729 | 0.23745574 | 2.5827415 | 20 | 10 18.8 | 19.3 |
| 203655 2002 $HO_{15}$ | 16.7 | X | 22.92769 | 341.58475 | 131.32656 | 1.94358 | 0.1358109 | 0.26485980 | 2.4013678 | 20 | — | — |
| 203656 2002 $JL_{14}$ | 16.3 | X | 53.35475 | 342.16468 | 155.16688 | 7.30213 | 0.1183067 | 0.27100153 | 2.3649478 | 20 | 3 22.0 | 18.6 |
| 203657 2002 $JP_{15}$ | 16.3 | X | 221.47078 | 139.38812 | 104.02592 | 7.33704 | 0.0954866 | 0.25424858 | 2.4677265 | 20 | — | — |
| 203658 2002 $JX_{16}$ | 16.5 | X | 135.97697 | 171.52286 | 72.71199 | 7.38345 | 0.1733938 | 0.24269305 | 2.5454495 | 20 | 11 26.2 | 20.7 |
| 203659 2002 $JF_{18}$ | 16.3 | X | 111.44994 | 308.72847 | 226.97702 | 13.06237 | 0.1218709 | 0.22915132 | 2.6447693 | 20 | 7 30.8 | 20.5 |
| 203660 2002 $JG_{20}$ | 16.1 | X | 296.14194 | 29.60451 | 129.51937 | 7.53170 | 0.0876427 | 0.25499836 | 2.4628868 | 20 | — | — |
| 203661 2002 $JY_{44}$ | 16.5 | X | 110.64076 | 237.74721 | 357.73830 | 1.81307 | 0.1021705 | 0.23754687 | 2.5820809 | 20 | 10 18.6 | 20.1 |
| 203662 2002 $JZ_{63}$ | 16.1 | X | 203.20113 | 321.20445 | 233.23183 | 7.86642 | 0.1723901 | 0.24400723 | 2.5363017 | 20 | 11 27.3 | 19.7 |
| 203663 2002 $JH_{64}$ | 16.9 | X | 26.55641 | 9.32648 | 217.75802 | 2.98664 | 0.1985153 | 0.27643242 | 2.3338704 | 20 | 6 28.9 | 18.8 |
| 203664 2002 $JY_{73}$ | 15.9 | X | 330.48640 | 42.12148 | 112.50534 | 10.12310 | 0.2093164 | 0.25850009 | 2.4405943 | 20 | — | — |
| 203665 2002 $JZ_{73}$ | 15.7 | X | 8.89970 | 212.13038 | 95.63784 | 15.92474 | 0.2198571 | 0.22640790 | 2.6660911 | 20 | 10 4.5 | 18.8 |
| 203666 2002 $JU_{77}$ | 16.2 | X | 271.15936 | 185.05375 | 32.55328 | 7.12272 | 0.0868190 | 0.26018731 | 2.4300319 | 20 | — | — |
| 203667 2002 $JW_{88}$ | 16.5 | X | 139.86263 | 348.15134 | 221.91154 | 8.25555 | 0.1053716 | 0.23822010 | 2.5772138 | 20 | 10 16.7 | 20.5 |
| 203668 2002 $JQ_{104}$ | 15.9 | X | 303.90379 | 42.74553 | 248.74079 | 8.21825 | 0.1241834 | 0.21708845 | 2.7418577 | 20 | 4 21.7 | 19.4 |
| 203669 2002 $JG_{115}$ | 15.8 | X | 152.77795 | 148.72644 | 115.80632 | 15.98857 | 0.1840371 | 0.24344187 | 2.5402270 | 20 | — | — |
| 203670 2002 $JH_{120}$ | 16.1 | X | 115.31798 | 104.36001 | 111.02441 | 4.92670 | 0.0860553 | 0.23346703 | 2.6120752 | 20 | 9 29.4 | 19.9 |
| 203671 2002 $JN_{123}$ | 16.0 | X | 203.66613 | 22.25740 | 97.05000 | 12.65859 | 0.0248610 | 0.23421894 | 2.6064819 | 20 | 9 12.6 | 19.8 |
| 203672 2002 $JF_{136}$ | 17.0 | X | 317.91654 | 305.56319 | 214.17052 | 0.97709 | 0.1349881 | 0.25867302 | 2.4395064 | 20 | — | — |
| 203673 2002 $JF_{146}$ | 16.1 | X | 133.88182 | 159.77892 | 114.33196 | 16.00954 | 0.1036536 | 0.24344399 | 2.5402122 | 20 | 12 30.8 | 20.0 |
| 203674 2002 $JM_{147}$ | 16.9 | X | 322.78790 | 26.13486 | 163.33627 | 1.86627 | 0.1712988 | 0.26259062 | 2.4151822 | 20 | — | — |
| 203675 2002 $LH$ | 16.1 | X | 144.51671 | 146.45468 | 112.68997 | 9.55310 | 0.0791574 | 0.24258113 | 2.5462324 | 20 | 12 23.6 | 19.9 |
| 203676 2002 $LP_6$ | 15.6 | X | 319.32600 | 224.73338 | 97.92767 | 13.84610 | 0.0706198 | 0.22303622 | 2.6928931 | 20 | 7 7.7 | 18.9 |
| 203677 2002 $LB_8$ | 15.9 | X | 88.17255 | 344.34157 | 235.73047 | 10.94754 | 0.0651858 | 0.23011855 | 2.6373532 | 20 | 8 23.6 | 19.8 |
| 203678 2002 $LP_{43}$ | 15.0 | X | 109.32515 | 172.37022 | 169.91065 | 14.01451 | 0.2809614 | 0.18462353 | 3.0545320 | 20 | — | — |
| 203679 2002 $MK$ | 17.2 | X | 226.27098 | 288.49549 | 119.67646 | 22.68824 | 0.0935887 | 0.38713501 | 1.8644944 | 20 | 6 30.3 | 19.2 |
| 203680 2002 $NU_5$ | 16.3 | X | 331.42864 | 215.94380 | 137.90810 | 3.19996 | 0.1069292 | 0.22314400 | 2.6920260 | 20 | 9 9.6 | 19.1 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203681 2002 $NX_{11}$ | 15.5 | X | 258.25533 | 61.04753 | 286.81516 | 6.26459 | 0.2418580 | 0.21027512 | 2.8007701 | 20 | 4 22.9 | 20.0 |
| 203682 2002 $NN_{13}$ | 15.4 | X | 300.06807 | 208.22318 | 120.75784 | 13.97119 | 0.1837154 | 0.21460142 | 2.7630006 | 20 | 6 2.1 | 19.0 |
| 203683 2002 $NJ_{18}$ | 16.1 | X | 58.95359 | 192.04692 | 134.78796 | 15.15956 | 0.1609481 | 0.23288460 | 2.6164285 | 20 | 12 22.8 | 20.1 |
| 203684 2002 $NM_{25}$ | 15.3 | X | 324.53342 | 23.23844 | 297.40257 | 7.13264 | 0.2189621 | 0.21556510 | 2.7547598 | 20 | 6 26.6 | 18.0 |
| 203685 2002 $NT_{35}$ | 15.9 | X | 71.83934 | 208.23859 | 170.23712 | 8.79219 | 0.1620377 | 0.23976622 | 2.5661225 | 20 | — | — |
| 203686 2002 $NQ_{38}$ | 15.3 | X | 255.94187 | 216.54186 | 305.95264 | 28.36255 | 0.1497218 | 0.23939106 | 2.5688028 | 20 | 12 29.8 | 18.6 |
| 203687 2002 $ND_{39}$ | 14.6 | X | 121.55801 | 113.81978 | 281.01078 | 23.56275 | 0.1000240 | 0.19332956 | 2.9621283 | 20 | 2 7.2 | 19.2 |
| 203688 2002 $NF_{39}$ | 14.6 | X | 49.58399 | 125.13824 | 241.34263 | 13.51415 | 0.1990242 | 0.17753372 | 3.1353220 | 20 | — | — |
| 203689 2002 $NN_{49}$ | 15.6 | X | 349.09257 | 201.13913 | 128.99287 | 8.54554 | 0.1628530 | 0.22173354 | 2.7034299 | 20 | 9 11.5 | 18.3 |
| 203690 2002 $NK_{53}$ | 16.3 | X | 268.05021 | 236.16470 | 121.88633 | 5.19268 | 0.2154025 | 0.21193170 | 2.7861560 | 20 | 5 22.8 | 20.4 |
| 203691 2002 $NV_{53}$ | 16.2 | X | 98.29618 | 319.01409 | 283.18022 | 3.58561 | 0.1174460 | 0.22889591 | 2.6467364 | 20 | 10 12.5 | 20.2 |
| 203692 2002 $NK_{59}$ | 15.7 | X | 287.98429 | 233.76475 | 125.06284 | 10.19750 | 0.1778679 | 0.21368092 | 2.7709299 | 20 | 6 23.3 | 19.3 |
| 203693 2002 $NU_{63}$ | 16.8 | X | 147.30556 | 119.74553 | 85.29771 | 3.89706 | 0.0267477 | 0.22959822 | 2.6413363 | 20 | 10 19.4 | 20.4 |
| 203694 2002 $ND_{66}$ | 15.7 | X | 285.63753 | 60.67765 | 300.12374 | 10.31582 | 0.1737530 | 0.21619024 | 2.7494468 | 20 | 6 23.5 | 19.3 |
| 203695 2002 $NK_{66}$ | 16.8 | X | 282.39282 | 289.97376 | 84.10961 | 2.75461 | 0.1123889 | 0.21816280 | 2.7328486 | 20 | 7 16.8 | 20.3 |
| 203696 2002 $OJ_{9}$ | 16.0 | X | 284.47771 | 130.61136 | 215.99040 | 3.95980 | 0.0856028 | 0.21338176 | 2.7735193 | 20 | 6 15.9 | 19.7 |
| 203697 2002 $OV_{12}$ | 15.4 | X | 91.07026 | 346.35481 | 296.21756 | 13.28053 | 0.2121196 | 0.23029535 | 2.6360032 | 20 | 12 2.4 | 19.9 |
| 203698 2002 $OT_{21}$ | 16.0 | X | 51.92717 | 316.68178 | 300.93254 | 6.37541 | 0.0607074 | 0.22150278 | 2.7053072 | 20 | 8 27.4 | 19.6 |
| 203699 2002 $OE_{29}$ | 16.5 | X | 130.61805 | 118.38171 | 123.27180 | 6.14552 | 0.0698868 | 0.23195633 | 2.6234043 | 20 | 11 16.7 | 20.5 |
| 203700 2002 $OG_{31}$ | 16.3 | X | 129.84620 | 267.19791 | 93.51426 | 1.10280 | 0.2032902 | 0.19168116 | 2.9790864 | 20 | 1 28.2 | 20.9 |
| 203701 2002 $PE_{20}$ | 16.4 | X | 34.62744 | 78.45743 | 228.67315 | 0.98597 | 0.1451015 | 0.22618914 | 2.6678099 | 20 | 10 24.3 | 19.7 |
| 203702 2002 $PV_{28}$ | 16.0 | X | 259.45540 | 125.48648 | 256.22670 | 2.35347 | 0.0859753 | 0.21393489 | 2.7687366 | 20 | 6 29.2 | 19.9 |
| 203703 2002 $PS_{33}$ | 16.2 | X | 89.72198 | 99.30404 | 142.20804 | 4.23953 | 0.1244164 | 0.22370680 | 2.6875090 | 20 | 10 5.8 | 20.2 |
| 203704 2002 $PX_{34}$ | 16.5 | X | 232.89813 | 158.64581 | 250.55895 | 3.03599 | 0.0690509 | 0.21361045 | 2.7715394 | 20 | 7 4.5 | 20.4 |
| 203705 2002 $PG_{35}$ | 16.6 | X | 261.68834 | 64.67281 | 309.76256 | 3.77278 | 0.0854395 | 0.21356539 | 2.7719292 | 20 | 6 22.6 | 20.3 |
| 203706 2002 $PG_{81}$ | 15.7 | X | 215.16573 | 127.19193 | 269.38455 | 10.97840 | 0.0372316 | 0.21125180 | 2.7921308 | 20 | 5 30.2 | 19.8 |
| 203707 2002 $PP_{94}$ | 15.2 | X | 160.89885 | 221.16621 | 119.70514 | 11.88645 | 0.1948753 | 0.19202231 | 2.9755569 | 20 | 2 1.5 | 20.0 |
| 203708 2002 $PG_{115}$ | 16.3 | X | 97.32661 | 241.39983 | 160.53346 | 2.75737 | 0.0968722 | 0.19026400 | 2.9938610 | 20 | 1 26.8 | 20.4 |
| 203709 2002 $PS_{122}$ | 15.9 | X | 158.53368 | 339.13468 | 266.53914 | 6.50437 | 0.2680610 | 0.23719976 | 2.5845993 | 20 | 12 12.6 | 20.5 |
| 203710 2002 $PJ_{133}$ | 16.3 | X | 122.52584 | 353.58617 | 280.69497 | 3.31261 | 0.1850274 | 0.23517454 | 2.5994164 | 20 | 12 19.1 | 20.5 |
| 203711 2002 $PQ_{141}$ | 15.1 | X | 32.79990 | 68.53952 | 319.37435 | 24.78543 | 0.2639067 | 0.17429705 | 3.1740178 | 20 | — | — |
| 203712 2002 $PF_{159}$ | 16.2 | X | 335.82376 | 223.91121 | 61.95893 | 0.62813 | 0.0375054 | 0.21277801 | 2.7787633 | 20 | 6 13.9 | 19.7 |
| 203713 2002 $PJ_{163}$ | 16.3 | X | 209.92725 | 262.34471 | 133.07076 | 6.01110 | 0.1292574 | 0.20867919 | 2.8150317 | 20 | 5 19.1 | 20.8 |
| 203714 2002 $PP_{163}$ | 16.3 | X | 274.52758 | 270.37457 | 127.31868 | 5.41090 | 0.1173871 | 0.21886684 | 2.7269849 | 20 | 8 6.1 | 19.8 |
| 203715 2002 $PY_{163}$ | 15.6 | X | 229.79044 | 283.02851 | 96.88813 | 4.38168 | 0.1010859 | 0.21007625 | 2.8025373 | 20 | 5 21.3 | 19.7 |
| 203716 2002 $PA_{165}$ | 16.4 | X | 332.16309 | 341.37742 | 319.59856 | 3.28545 | 0.0952561 | 0.21552962 | 2.7550622 | 20 | 6 25.5 | 19.6 |
| 203717 2002 $PK_{172}$ | 15.9 | X | 334.89419 | 241.94100 | 63.26683 | 3.39812 | 0.0616652 | 0.21562809 | 2.7542233 | 20 | 7 8.4 | 19.3 |
| 203718 2002 $PS_{178}$ | 15.9 | X | 242.67591 | 67.07292 | 306.89137 | 4.81210 | 0.0739358 | 0.21004133 | 2.8028480 | 20 | 5 29.9 | 20.0 |
| 203719 2002 $PQ_{179}$ | 16.1 | X | 107.99244 | 253.09174 | 93.01113 | 1.08410 | 0.2200555 | 0.18492734 | 3.0511856 | 20 | — | — |
| 203720 2002 $PM_{181}$ | 16.3 | X | 22.24911 | 247.88780 | 34.94029 | 2.98490 | 0.0335028 | 0.21979486 | 2.7193036 | 20 | 8 19.0 | 19.7 |
| 203721 2002 $QP_{3}$ | 15.6 | X | 231.05973 | 18.08221 | 261.04590 | 5.48567 | 0.1834484 | 0.19583815 | 2.9367784 | 20 | 1 16.7 | 20.5 |
| 203722 2002 $QB_{11}$ | 14.9 | X | 31.05510 | 102.51718 | 304.21230 | 24.41372 | 0.2919330 | 0.17443692 | 3.1723209 | 20 | — | — |
| 203723 2002 $QL_{14}$ | 15.6 | X | 116.63610 | 90.19764 | 286.84910 | 12.51258 | 0.2183763 | 0.18902655 | 3.0069129 | 20 | 2 2.4 | 20.1 |
| 203724 2002 $QY_{21}$ | 16.0 | X | 332.09713 | 132.22412 | 131.32469 | 8.39634 | 0.1832906 | 0.21197160 | 2.7858064 | 20 | 4 26.5 | 19.2 |
| 203725 2002 $QV_{32}$ | 16.1 | X | 160.06726 | 358.37409 | 356.09827 | 1.38475 | 0.0978085 | 0.19278915 | 2.9676613 | 20 | 2 9.7 | 20.7 |
| 203726 2002 $QW_{35}$ | 15.6 | X | 294.41367 | 266.62000 | 95.80684 | 4.21668 | 0.0705507 | 0.21450724 | 2.7638094 | 20 | 7 24.9 | 19.1 |
| 203727 2002 $QM_{47}$ | 15.9 | X | 122.22649 | 176.34814 | 107.78938 | 8.39862 | 0.3622540 | 0.23649822 | 2.5897080 | 20 | — | — |
| 203728 2002 $QM_{53}$ | 15.9 | X | 265.93096 | 1.94565 | 4.87139 | 4.08822 | 0.1291073 | 0.21136642 | 2.7911214 | 20 | 6 10.9 | 19.8 |
| 203729 2002 $QR_{53}$ | 15.7 | X | 194.72605 | 260.63278 | 137.61987 | 7.35859 | 0.0717826 | 0.20537323 | 2.8451609 | 20 | 5 9.8 | 20.1 |
| 203730 2002 $QV_{55}$ | 16.1 | X | 270.21675 | 102.36917 | 341.68285 | 13.18825 | 0.1724521 | 0.22182410 | 2.7026941 | 20 | 9 20.5 | 19.5 |
| 203731 2002 $QE_{59}$ | 16.0 | X | 250.38329 | 48.55542 | 170.92729 | 15.24905 | 0.0664070 | 0.24392549 | 2.5368683 | 20 | — | — |
| 203732 2002 $QY_{59}$ | 16.0 | X | 195.57490 | 173.33463 | 309.23076 | 12.92688 | 0.0776051 | 0.21874990 | 2.7279567 | 20 | 8 22.4 | 20.1 |
| 203733 2002 $QT_{62}$ | 16.3 | X | 283.05606 | 46.23245 | 317.37446 | 2.80100 | 0.0634369 | 0.21420567 | 2.7664028 | 20 | 7 10.8 | 19.8 |
| 203734 2002 $QS_{63}$ | 15.9 | X | 200.82622 | 309.81146 | 107.34161 | 4.60238 | 0.0990148 | 0.20892419 | 2.8128305 | 20 | 6 6.3 | 20.2 |
| 203735 2002 $QH_{65}$ | 16.7 | X | 204.42174 | 334.63132 | 82.15501 | 0.42840 | 0.0609702 | 0.21013536 | 2.8020118 | 20 | 6 11.4 | 20.6 |
| 203736 2002 $QJ_{65}$ | 16.8 | X | 230.48934 | 252.80523 | 129.03756 | 1.29448 | 0.0848344 | 0.20898960 | 2.8122436 | 20 | 5 25.6 | 20.9 |
| 203737 2002 $QA_{78}$ | 16.5 | X | 354.90154 | 183.41742 | 74.87516 | 4.34417 | 0.0385697 | 0.21145133 | 2.7903741 | 20 | 6 4.2 | 20.0 |
| 203738 2002 $QB_{88}$ | 16.2 | X | 164.98534 | 101.28710 | 294.63781 | 0.73036 | 0.1549284 | 0.19955598 | 2.9001884 | 20 | 4 5.8 | 20.9 |
| 203739 2002 $QZ_{94}$ | 15.9 | X | 151.69441 | 292.91787 | 86.85727 | 6.78811 | 0.0798301 | 0.19662290 | 2.9289592 | 20 | 3 3.1 | 20.3 |
| 203740 2002 $QF_{95}$ | 16.0 | X | 80.81605 | 93.07176 | 101.00586 | 4.66959 | 0.0298008 | 0.21344243 | 2.7729937 | 20 | 7 8.6 | 19.8 |
| 203741 2002 $QM_{96}$ | 16.4 | X | 225.66295 | 343.55119 | 48.91085 | 3.94568 | 0.0940495 | 0.21050970 | 2.7986890 | 20 | 6 1.3 | 20.4 |
| 203742 2002 $QH_{111}$ | 15.9 | X | 241.93646 | 242.18218 | 150.53194 | 11.98932 | 0.0513511 | 0.21370773 | 2.7706982 | 20 | 6 26.7 | 20.0 |
| 203743 2002 $QR_{119}$ | 16.5 | X | 189.05348 | 122.88946 | 336.06476 | 2.45048 | 0.0381374 | 0.21430422 | 2.7655545 | 20 | 7 20.2 | 20.3 |
| 203744 2002 $QR_{123}$ | 16.1 | X | 310.40574 | 212.85281 | 118.09151 | 5.17597 | 0.1066984 | 0.21396006 | 2.7685194 | 20 | 6 30.2 | 19.3 |
| 203745 2002 $RH_{23}$ | 15.3 | X | 195.64598 | 31.80117 | 341.86906 | 7.83310 | 0.2272145 | 0.20031627 | 2.8928455 | 20 | 4 3.9 | 20.4 |
| 203746 2002 $RQ_{30}$ | 15.8 | X | 148.81707 | 75.10537 | 233.05142 | 4.31387 | 0.1577583 | 0.18505794 | 3.0497499 | 20 | — | — |
| 203747 2002 $RN_{51}$ | 14.7 | X | 85.99455 | 16.07629 | 13.36656 | 10.85776 | 0.1587334 | 0.18384405 | 3.0631599 | 20 | 1 8.9 | 18.9 |
| 203748 2002 $RE_{55}$ | 15.7 | X | 310.48211 | 23.75954 | 288.32445 | 4.80681 | 0.0912509 | 0.20916723 | 2.8106512 | 20 | 6 5.6 | 19.2 |
| 203749 2002 $RN_{55}$ | 15.2 | X | 115.83655 | 87.97114 | 331.96539 | 10.57816 | 0.1513325 | 0.19250889 | 2.9705409 | 20 | 3 15.3 | 19.6 |
| 203750 2002 $RF_{69}$ | 15.6 | X | 232.51176 | 165.15889 | 170.28906 | 1.82404 | 0.0853555 | 0.20141679 | 2.8822983 | 20 | 3 30.5 | 20.0 |
| 203751 2002 $RA_{72}$ | 16.3 | X | 271.64512 | 173.34531 | 180.65944 | 1.79301 | 0.0871224 | 0.21031367 | 2.8004278 | 20 | 6 8.2 | 20.2 |
| 203752 2002 $RL_{96}$ | 15.1 | X | 70.03632 | 230.53229 | 192.16083 | 16.48755 | 0.1093785 | 0.18459913 | 3.0548012 | 20 | 1 15.9 | 19.4 |
| 203753 2002 $RY_{117}$ | 15.7 | X | 110.25174 | 151.82801 | 218.76823 | 8.84546 | 0.1586551 | 0.18558997 | 3.0439187 | 20 | 1 12.6 | 20.1 |
| 203754 2002 $RE_{133}$ | 14.9 | X | 61.50970 | 246.78925 | 131.65425 | 12.70415 | 0.2136519 | 0.17886463 | 3.1197496 | 20 | — | — |
| 203755 2002 $RL_{134}$ | 16.0 | X | 329.14157 | 343.30379 | 78.73014 | 9.22712 | 0.2424131 | 0.22460820 | 2.6803138 | 20 | 12 17.3 | 17.9 |
| 203756 2002 $RP_{135}$ | 15.4 | X | 77.08090 | 332.75925 | 73.43824 | 11.52181 | 0.2045670 | 0.18435564 | 3.0574903 | 20 | 1 23.5 | 19.3 |
| 203757 2002 $RS_{143}$ | 16.3 | X | 259.32332 | 71.11788 | 280.02102 | 0.99775 | 0.0674807 | 0.20684049 | 2.8316898 | 20 | 5 21.9 | 20.1 |
| 203758 2002 $RK_{153}$ | 15.1 | X | 54.69196 | 179.00744 | 250.15111 | 8.31591 | 0.0778038 | 0.18481895 | 3.0523784 | 20 | 1 1.0 | 19.1 |
| 203759 2002 $RL_{161}$ | 16.0 | X | 222.96307 | 317.82857 | 29.59225 | 2.22139 | 0.0800250 | 0.20162442 | 2.8803193 | 20 | 4 4.4 | 20.2 |
| 203760 2002 $RC_{166}$ | 16.2 | X | 267.84854 | 356.52625 | 333.30443 | 1.24011 | 0.0990052 | 0.20576516 | 2.8415469 | 20 | 4 30.2 | 20.3 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203761 2002 $RA_{167}$ | 16.2 | X | 102.34772 | 100.24002 | 303.26723 | 0.91308 | 0.1467157 | 0.18913143 | 3.0058011 | 20 | 2 11.4 | 20.2 |
| 203762 2002 $RM_{172}$ | 15.4 | X | 152.02260 | 257.29938 | 108.81024 | 9.67445 | 0.1549787 | 0.19316051 | 2.9638564 | 20 | 2 21.9 | 20.1 |
| 203763 2002 $RE_{174}$ | 15.6 | X | 342.20075 | 49.98421 | 243.69770 | 3.31879 | 0.0401689 | 0.21172858 | 2.7879376 | 20 | 7 3.7 | 19.1 |
| 203764 2002 $RY_{195}$ | 16.5 | X | 161.58148 | 58.73889 | 19.94762 | 1.83478 | 0.0378822 | 0.20489867 | 2.8495522 | 20 | 5 20.0 | 20.7 |
| 203765 2002 $RB_{196}$ | 15.9 | X | 12.47941 | 237.58387 | 10.47743 | 2.70688 | 0.0266907 | 0.20896957 | 2.8124233 | 20 | 6 15.4 | 19.6 |
| 203766 2002 $RX_{202}$ | 15.6 | X | 208.30666 | 91.97049 | 306.24163 | 6.90298 | 0.0817548 | 0.20444290 | 2.8537857 | 20 | 5 20.1 | 20.1 |
| 203767 2002 $RP_{212}$ | 15.4 | X | 70.73086 | 262.76689 | 117.38141 | 11.57391 | 0.2093172 | 0.17985863 | 3.1082447 | 20 | — | — |
| 203768 2002 $RW_{216}$ | 15.7 | X | 48.40757 | 131.01646 | 158.40674 | 4.00210 | 0.0523409 | 0.22298756 | 2.6932848 | 20 | 10 6.3 | 19.3 |
| 203769 2002 $RL_{219}$ | 15.7 | X | 198.02164 | 265.31332 | 118.13737 | 3.05936 | 0.0837803 | 0.20350567 | 2.8625410 | 20 | 4 23.3 | 20.0 |
| 203770 2002 $RE_{222}$ | 15.9 | X | 304.68471 | 216.07355 | 116.88049 | 6.31579 | 0.1737332 | 0.21337295 | 2.7735956 | 20 | 6 13.9 | 19.2 |
| 203771 2002 $RY_{233}$ | 15.7 | X | 91.15251 | 291.29184 | 169.13692 | 2.12310 | 0.0057095 | 0.19923843 | 2.9032692 | 20 | 3 18.0 | 19.7 |
| 203772 2002 $RS_{261}$ | 15.6 | X | 59.56952 | 105.14782 | 285.73192 | 8.95858 | 0.1611253 | 0.18171336 | 3.0870581 | 20 | — | — |
| 203773 Magyarics | 15.9 | X | 198.20313 | 75.65760 | 226.13515 | 0.86632 | 0.0665078 | 0.18929837 | 3.0040337 | 20 | 1 15.9 | 20.4 |
| 203774 2002 $SX_{4}$ | 15.8 | X | 62.28955 | 226.40015 | 183.31512 | 9.87882 | 0.1337976 | 0.18215763 | 3.0820367 | 20 | — | — |
| 203775 2002 $SQ_{7}$ | 16.1 | X | 200.69335 | 167.94530 | 211.42644 | 1.94841 | 0.0411436 | 0.19966488 | 2.8991338 | 20 | 4 21.0 | 20.0 |
| 203776 2002 $SG_{34}$ | 15.2 | X | 299.63703 | 290.36065 | 32.89185 | 9.10214 | 0.1775217 | 0.20987402 | 2.8043374 | 20 | 5 20.6 | 18.9 |
| 203777 2002 $SB_{38}$ | 15.6 | X | 234.03183 | 55.85685 | 311.03654 | 5.36341 | 0.0720416 | 0.20550839 | 2.8439132 | 20 | 5 9.6 | 19.9 |
| 203778 2002 $SQ_{42}$ | 15.7 | X | 89.15578 | 170.51651 | 204.84533 | 6.00496 | 0.1571493 | 0.18226338 | 3.0808445 | 20 | — | — |
| 203779 2002 $SK_{63}$ | 16.5 | X | 280.60751 | 278.69397 | 32.03210 | 3.21523 | 0.1452211 | 0.20427726 | 2.8553282 | 20 | 4 15.5 | 20.5 |
| 203780 2002 $SL_{71}$ | 16.1 | X | 264.50610 | 263.11214 | 37.13145 | 2.11366 | 0.0526322 | 0.19875186 | 2.9080057 | 20 | 3 27.3 | 20.2 |
| 203781 2002 $SA_{72}$ | 16.2 | X | 53.20382 | 3.02673 | 47.13363 | 2.94987 | 0.0976080 | 0.18198906 | 3.0839395 | 20 | — | — |
| 203782 2002 $TU$ | 15.4 | X | 181.48071 | 241.82660 | 94.65473 | 4.00918 | 0.0873417 | 0.19152680 | 2.9806868 | 20 | 2 10.3 | 20.0 |
| 203783 2002 $TZ$ | 15.9 | X | 291.02007 | 277.37938 | 63.82868 | 4.23292 | 0.1146816 | 0.20943072 | 2.8082933 | 20 | 6 12.9 | 19.4 |
| 203784 2002 $TJ_{3}$ | 15.5 | X | 197.54917 | 299.74821 | 33.94363 | 2.97905 | 0.1373128 | 0.19310067 | 2.9644687 | 20 | 2 23.2 | 20.2 |
| 203785 2002 $TE_{7}$ | 15.9 | X | 217.43414 | 321.66617 | 26.04466 | 2.73608 | 0.1372510 | 0.19861745 | 2.9093175 | 20 | 3 27.6 | 20.5 |
| 203786 2002 $TP_{11}$ | 15.8 | X | 317.30097 | 218.03217 | 113.31667 | 4.53719 | 0.0942077 | 0.21278276 | 2.7787220 | 20 | 7 13.6 | 19.0 |
| 203787 2002 $TH_{22}$ | 16.2 | X | 157.80260 | 164.18692 | 210.84960 | 1.08877 | 0.2803518 | 0.19269282 | 2.9686502 | 20 | 3 12.8 | 21.3 |
| 203788 2002 $TV_{39}$ | 14.7 | X | 59.64280 | 307.55441 | 62.09363 | 28.07832 | 0.2924668 | 0.17348852 | 3.1838717 | 20 | — | — |
| 203789 2002 $TN_{40}$ | 14.9 | X | 51.08263 | 351.37933 | 57.87033 | 19.77111 | 0.1731556 | 0.17530289 | 3.1618651 | 20 | — | — |
| 203790 2002 $TC_{48}$ | 15.5 | X | 56.45077 | 342.24324 | 55.88970 | 5.69058 | 0.1487681 | 0.17696538 | 3.1420314 | 20 | — | — |
| 203791 2002 $TD_{62}$ | 16.0 | X | 113.78809 | 127.92844 | 290.68316 | 6.98934 | 0.1427060 | 0.19094759 | 2.9867114 | 20 | 3 9.9 | 20.5 |
| 203792 2002 $TM_{68}$ | 15.0 | X | 131.45536 | 89.81391 | 291.17865 | 9.31874 | 0.1143889 | 0.18965306 | 3.0002871 | 20 | 2 10.7 | 19.6 |
| 203793 2002 $TE_{73}$ | 14.8 | X | 71.63030 | 118.76077 | 255.66522 | 9.41748 | 0.0869666 | 0.17767049 | 3.1337127 | 20 | — | — |
| 203794 2002 $TR_{83}$ | 15.5 | X | 211.06051 | 264.42294 | 109.96064 | 6.80353 | 0.1395945 | 0.20214505 | 2.8753716 | 20 | 4 25.1 | 20.1 |
| 203795 2002 $TE_{90}$ | 16.1 | X | 84.41617 | 83.35884 | 311.98690 | 4.63390 | 0.3329433 | 0.18261516 | 3.0768867 | 20 | 2 7.0 | 20.2 |
| 203796 2002 $TY_{94}$ | 15.8 | X | 255.45752 | 50.92696 | 246.36016 | 0.92201 | 0.0740340 | 0.19745254 | 2.9207490 | 20 | 3 9.5 | 20.1 |
| 203797 2002 $TH_{97}$ | 16.2 | X | 247.10671 | 25.50733 | 326.32287 | 1.20613 | 0.0810444 | 0.20353394 | 2.8622758 | 20 | 5 6.0 | 20.3 |
| 203798 2002 $TU_{101}$ | 15.4 | X | 91.40535 | 92.76315 | 348.47171 | 9.15322 | 0.0734689 | 0.19125341 | 2.9835267 | 20 | 3 5.0 | 19.4 |
| 203799 2002 $TW_{107}$ | 15.1 | X | 112.10032 | 221.56676 | 126.10145 | 10.24171 | 0.0221952 | 0.18185055 | 3.0855054 | 20 | — | — |
| 203800 2002 $TA_{110}$ | 15.2 | X | 203.89463 | 275.64222 | 90.30109 | 13.60214 | 0.1289858 | 0.19868350 | 2.9086726 | 20 | 4 12.6 | 20.1 |
| 203801 2002 $TN_{116}$ | 15.5 | X | 334.30496 | 32.60024 | 276.95918 | 8.23213 | 0.1440038 | 0.21125418 | 2.7921099 | 20 | 7 7.4 | 18.5 |
| 203802 2002 $TW_{116}$ | 15.1 | X | 127.72833 | 223.69286 | 266.37883 | 10.04534 | 0.1730716 | 0.20121955 | 2.8841816 | 20 | 6 26.9 | 19.7 |
| 203803 2002 $TO_{118}$ | 15.0 | X | 141.27818 | 90.71193 | 248.25274 | 9.36533 | 0.1314761 | 0.18483088 | 3.0522471 | 20 | 1 6.2 | 19.7 |
| 203804 2002 $TJ_{119}$ | 15.7 | X | 77.66205 | 90.78579 | 286.57899 | 7.71869 | 0.1300644 | 0.17953961 | 3.1119256 | 20 | — | — |
| 203805 2002 $TZ_{120}$ | 15.3 | X | 47.88486 | 200.48141 | 240.18085 | 11.77483 | 0.2723342 | 0.18036943 | 3.1023736 | 20 | 1 21.2 | 18.6 |
| 203806 2002 $TA_{122}$ | 15.8 | X | 104.88152 | 319.13604 | 310.66183 | 14.06709 | 0.0752179 | 0.22796936 | 2.6539031 | 20 | 11 17.6 | 19.9 |
| 203807 2002 $TG_{146}$ | 15.7 | X | 221.95136 | 358.45647 | 329.74659 | 5.32341 | 0.0920239 | 0.19635261 | 2.9316465 | 20 | 3 9.3 | 20.2 |
| 203808 2002 $TV_{176}$ | 15.4 | X | 163.37110 | 74.57754 | 303.12267 | 9.40612 | 0.1656257 | 0.19230288 | 2.9726620 | 20 | 3 10.9 | 20.4 |
| 203809 2002 $TT_{177}$ | 14.9 | X | 165.37464 | 76.41070 | 281.60702 | 13.08773 | 0.2213683 | 0.19124772 | 2.9835859 | 20 | 2 20.3 | 20.2 |
| 203810 2002 $TY_{190}$ | 14.4 | X | 196.11362 | 88.95874 | 271.10927 | 15.63619 | 0.1672744 | 0.19479140 | 2.9472899 | 20 | 3 14.2 | 19.6 |
| 203811 2002 $TB_{191}$ | 15.0 | X | 81.07481 | 107.76852 | 278.05050 | 12.42676 | 0.2799018 | 0.18035801 | 3.1025046 | 20 | 1 13.4 | 18.8 |
| 203812 2002 $TA_{203}$ | 15.2 | X | 55.62969 | 256.88849 | 150.63087 | 10.78367 | 0.2406506 | 0.18011664 | 3.1052756 | 20 | — | — |
| 203813 2002 $TL_{216}$ | 15.2 | X | 120.17274 | 307.16865 | 96.85698 | 10.12894 | 0.1644433 | 0.18916715 | 3.0054227 | 20 | 3 9.9 | 19.8 |
| 203814 2002 $TA_{235}$ | 15.0 | X | 85.21876 | 111.86963 | 308.70721 | 13.33470 | 0.1551783 | 0.18599127 | 3.0395387 | 20 | 2 10.7 | 19.1 |
| 203815 2002 $TQ_{235}$ | 15.2 | X | 92.03173 | 114.16816 | 271.36936 | 15.07771 | 0.1064677 | 0.18237999 | 3.0795311 | 20 | 1 2.6 | 19.2 |
| 203816 2002 $TB_{236}$ | 14.5 | X | 92.47601 | 71.98027 | 337.27411 | 15.26630 | 0.2298893 | 0.18464616 | 3.0542824 | 20 | 2 20.1 | 18.7 |
| 203817 2002 $TC_{236}$ | 14.9 | X | 151.72484 | 81.29360 | 258.21523 | 14.47957 | 0.1455011 | 0.18599330 | 3.0395166 | 20 | 1 16.3 | 19.8 |
| 203818 2002 $TU_{237}$ | 14.6 | X | 62.67205 | 113.24382 | 252.31926 | 15.68504 | 0.2815382 | 0.17585521 | 3.1552412 | 20 | — | — |
| 203819 2002 $TZ_{237}$ | 15.2 | X | 71.49689 | 101.22463 | 289.34624 | 14.52174 | 0.2582721 | 0.18053133 | 3.1005185 | 20 | 1 2.7 | 18.6 |
| 203820 2002 $TU_{261}$ | 15.7 | X | 99.60363 | 328.70380 | 81.86327 | 3.10636 | 0.2066823 | 0.18649172 | 3.0340986 | 20 | 2 26.8 | 20.0 |
| 203821 2002 $TB_{281}$ | 14.9 | X | 35.67260 | 203.64674 | 225.93614 | 15.86740 | 0.2111640 | 0.17739890 | 3.1369103 | 20 | — | — |
| 203822 2002 $TB_{291}$ | 14.7 | X | 53.80680 | 97.10846 | 267.94078 | 10.03174 | 0.1867108 | 0.17260326 | 3.1947488 | 20 | — | — |
| 203823 Zdanavicius | 16.4 | X | 139.02967 | 29.83716 | 53.62578 | 3.89788 | 0.0548384 | 0.20011503 | 2.8947845 | 20 | 5 1.5 | 20.4 |
| 203824 2002 $TG_{335}$ | 16.1 | X | 195.52588 | 184.81239 | 93.71777 | 3.36327 | 0.0685230 | 0.18436661 | 3.0573691 | 20 | — | — |
| 203825 2002 $TT_{358}$ | 16.4 | X | 103.07449 | 289.02997 | 159.29342 | 2.42436 | 0.0606719 | 0.19550599 | 2.9401039 | 20 | 3 26.4 | 20.4 |
| 203826 2002 $TH_{382}$ | 14.9 | X | 38.52216 | 297.49704 | 97.60715 | 17.08023 | 0.2211415 | 0.17486377 | 3.1671562 | 20 | — | — |
| 203827 2002 $UN_{4}$ | 14.3 | X | 35.70647 | 107.73783 | 299.43441 | 24.15464 | 0.0216241 | 0.17329953 | 3.1861861 | 20 | — | — |
| 203828 2002 $UJ_{25}$ | 15.0 | X | 358.06389 | 235.82659 | 247.32770 | 9.32893 | 0.1135270 | 0.18021116 | 3.1041898 | 20 | — | — |
| 203829 2002 $UD_{29}$ | 15.3 | X | 25.98197 | 93.79982 | 302.42180 | 12.12749 | 0.1760117 | 0.17193204 | 3.2030582 | 20 | — | — |
| 203830 2002 $UR_{35}$ | 15.8 | X | 128.77260 | 184.78934 | 174.45184 | 2.01058 | 0.2235552 | 0.18468232 | 3.0538837 | 20 | 1 27.8 | 20.6 |
| 203831 2002 $UY_{37}$ | 15.4 | X | 29.17856 | 65.40324 | 44.90098 | 10.09893 | 0.1681361 | 0.18093871 | 3.0958629 | 20 | 1 20.8 | 19.0 |
| 203832 2002 $UW_{61}$ | 16.2 | X | 168.58846 | 101.95914 | 229.61971 | 8.76421 | 0.1073267 | 0.19123713 | 2.9836960 | 20 | 1 20.5 | 21.0 |
| 203833 2002 $VK_{22}$ | 15.1 | X | 14.01772 | 350.40041 | 87.49320 | 13.38945 | 0.2500077 | 0.17376873 | 3.1804480 | 20 | — | — |
| 203834 2002 $VO_{22}$ | 15.1 | X | 91.38732 | 286.45300 | 76.98515 | 17.29611 | 0.2377005 | 0.17896231 | 3.1186143 | 20 | — | — |
| 203835 2002 $VL_{32}$ | 14.9 | X | 141.53004 | 278.17016 | 62.14592 | 22.88396 | 0.1081027 | 0.17932514 | 3.1144063 | 20 | 1 7.1 | 19.8 |
| 203836 2002 $VZ_{44}$ | 15.5 | X | 81.47950 | 300.97723 | 109.16538 | 6.08354 | 0.1820917 | 0.18367350 | 3.0650557 | 20 | 1 30.3 | 19.5 |
| 203837 2002 $VM_{46}$ | 15.3 | X | 81.29226 | 344.15145 | 77.68132 | 11.40799 | 0.1284079 | 0.18302586 | 3.0722820 | 20 | 2 8.7 | 19.5 |
| 203838 2002 $VP_{46}$ | 15.8 | X | 167.20723 | 237.69490 | 119.41684 | 3.40808 | 0.2350710 | 0.19006840 | 2.9959147 | 20 | 2 27.6 | 21.0 |
| 203839 2002 $VP_{53}$ | 15.2 | X | 52.74288 | 33.09436 | 78.04647 | 6.40963 | 0.1380112 | 0.18361247 | 3.0657349 | 20 | 2 29.8 | 19.0 |
| 203840 2002 $VV_{53}$ | 15.6 | X | 127.19491 | 166.30203 | 262.64530 | 3.86809 | 0.0866449 | 0.19165683 | 2.9793385 | 20 | 4 1.3 | 19.9 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203841 2002 $VC_{55}$ | 15.8 | X | 45.55618 | 41.05384 | 51.15973 | 1.18973 | 0.1470287 | 0.18096746 | 3.0955350 | 20 | 1 23.2 | 19.2 |
| 203842 2002 $VJ_{55}$ | 15.2 | X | 136.56598 | 278.72957 | 109.82743 | 10.86359 | 0.1120555 | 0.18716928 | 3.0267717 | 20 | 3 1.9 | 19.9 |
| 203843 2002 $VF_{56}$ | 15.2 | X | 55.76141 | 56.86586 | 70.73982 | 11.93851 | 0.3371303 | 0.18390819 | 3.0624477 | 20 | 4 27.7 | 18.8 |
| 203844 2002 $VW_{61}$ | 15.3 | X | 109.44838 | 148.70182 | 250.38726 | 6.59058 | 0.0688871 | 0.18435837 | 3.0574602 | 20 | 2 2.3 | 19.6 |
| 203845 2002 $VN_{62}$ | 15.6 | X | 63.14091 | 102.07267 | 308.36996 | 4.44891 | 0.1725962 | 0.17854044 | 3.1235249 | 20 | 1 2.4 | 19.2 |
| 203846 2002 $VD_{63}$ | 15.1 | X | 106.56561 | 25.48359 | 341.37705 | 5.90819 | 0.2078267 | 0.18099981 | 3.0951661 | 20 | 1 14.2 | 19.5 |
| 203847 2002 $VR_{88}$ | 15.2 | X | 67.49786 | 52.89770 | 358.72099 | 4.17218 | 0.1425826 | 0.17877741 | 3.1207642 | 20 | 1 7.3 | 19.1 |
| 203848 2002 $VF_{89}$ | 14.8 | X | 335.31733 | 263.46264 | 240.96069 | 15.87014 | 0.2030783 | 0.17578413 | 3.1560917 | 20 | — | — |
| 203849 2002 $VL_{96}$ | 15.3 | X | 106.80689 | 281.10612 | 113.67624 | 7.35196 | 0.0559936 | 0.18415487 | 3.0597122 | 20 | 1 25.8 | 19.5 |
| 203850 2002 $VW_{96}$ | 15.5 | X | 144.86769 | 351.59663 | 70.64860 | 12.80422 | 0.0798218 | 0.19357950 | 2.9595781 | 20 | 4 18.9 | 20.0 |
| 203851 2002 $VB_{101}$ | 15.2 | X | 116.26936 | 115.10911 | 264.21559 | 9.04248 | 0.0889835 | 0.18353235 | 3.0666271 | 20 | 1 20.9 | 19.7 |
| 203852 2002 $VJ_{103}$ | 15.2 | X | 63.36943 | 180.36490 | 245.12997 | 9.78058 | 0.0750302 | 0.18041225 | 3.1018827 | 20 | 1 8.4 | 19.4 |
| 203853 2002 $VK_{112}$ | 15.4 | X | 84.72458 | 60.62034 | 337.85670 | 6.55174 | 0.1286994 | 0.18043478 | 3.1016244 | 20 | 1 14.0 | 19.5 |
| 203854 2002 $VX_{120}$ | 14.8 | X | 148.07211 | 66.29868 | 268.51065 | 14.76592 | 0.2850996 | 0.18365945 | 3.0652121 | 20 | 1 19.1 | 20.2 |
| 203855 2002 $VW_{122}$ | 15.4 | X | 87.45173 | 6.53139 | 27.30867 | 13.64391 | 0.1639236 | 0.18019049 | 3.1044271 | 20 | 1 19.3 | 19.8 |
| 203856 2002 $VB_{124}$ | 15.8 | X | 336.42062 | 36.46511 | 58.35104 | 1.61227 | 0.2535362 | 0.16878679 | 3.2427271 | 20 | — | — |
| 203857 2002 $VF_{126}$ | 14.6 | X | 358.20657 | 181.70449 | 266.41272 | 10.80745 | 0.1735927 | 0.17173465 | 3.2055122 | 20 | — | — |
| 203858 2002 $VO_{133}$ | 15.4 | X | 118.54167 | 152.60654 | 256.37044 | 4.94934 | 0.0982692 | 0.18588566 | 3.0406899 | 20 | 2 28.4 | 19.9 |
| 203859 2002 $VC_{141}$ | 15.5 | X | 39.64378 | 328.71447 | 124.54006 | 6.21853 | 0.1240511 | 0.17959547 | 3.1112802 | 20 | 1 13.1 | 19.1 |
| 203860 2002 $VM_{141}$ | 15.1 | X | 48.44690 | 286.61854 | 84.66718 | 25.35549 | 0.2936899 | 0.17324224 | 3.1868884 | 20 | — | — |
| 203861 2002 $WN_{2}$ | 15.4 | X | 111.71621 | 254.57599 | 115.59586 | 5.88152 | 0.1604649 | 0.18120298 | 3.0928522 | 20 | 1 16.5 | 19.8 |
| 203862 2002 $WM_{10}$ | 15.4 | X | 23.88905 | 304.94078 | 122.13359 | 5.46764 | 0.2241918 | 0.17304308 | 3.1893331 | 20 | — | — |
| 203863 2002 $WV_{11}$ | 15.0 | X | 106.89071 | 246.57329 | 106.44966 | 18.29250 | 0.3271697 | 0.17940254 | 3.1135105 | 20 | 1 12.6 | 19.5 |
| 203864 2002 $WK_{18}$ | 15.0 | X | 63.47409 | 280.71260 | 92.95330 | 26.69892 | 0.2280130 | 0.17478709 | 3.1680825 | 20 | — | — |
| 203865 2002 $WV_{27}$ | 13.3 | X | 331.91807 | 47.81171 | 215.70993 | 5.82016 | 0.0159006 | 0.08309980 | 5.2007908 | 20 | 5 14.1 | 20.0 |
| 203866 2002 $XF$ | 15.3 | X | 115.19429 | 265.80755 | 84.56551 | 11.62372 | 0.0822763 | 0.17646602 | 3.1479560 | 20 | — | — |
| 203867 2002 $XZ$ | 15.0 | X | 20.37156 | 245.03799 | 249.65767 | 14.17506 | 0.0881127 | 0.18302347 | 3.0723088 | 20 | 1 28.7 | 19.2 |
| 203868 2002 $XO_{17}$ | 14.5 | X | 291.22656 | 269.15263 | 288.22817 | 16.58834 | 0.0586049 | 0.17696740 | 3.1420074 | 20 | — | — |
| 203869 2002 $XZ_{20}$ | 15.4 | X | 123.57309 | 71.25875 | 276.37276 | 8.67860 | 0.2073688 | 0.18104919 | 3.0946033 | 20 | 1 8.2 | 20.1 |
| 203870 2002 $XF_{21}$ | 14.8 | X | 4.39410 | 248.53338 | 271.82753 | 10.74129 | 0.0747609 | 0.18362309 | 3.0656167 | 20 | 2 7.8 | 18.9 |
| 203871 2002 $XS_{27}$ | 15.1 | X | 86.90277 | 326.34061 | 68.17683 | 13.70995 | 0.1896443 | 0.17932039 | 3.1144613 | 20 | 1 21.8 | 19.4 |
| 203872 2002 $XP_{39}$ | 15.7 | X | 157.98325 | 40.22657 | 330.44843 | 1.63426 | 0.1525525 | 0.18633128 | 3.0358400 | 20 | 3 1.6 | 20.6 |
| 203873 2002 $XR_{41}$ | 15.2 | X | 168.58807 | 52.88782 | 281.00556 | 9.04141 | 0.0930603 | 0.18175706 | 3.0865633 | 20 | 1 24.5 | 19.9 |
| 203874 2002 $XG_{66}$ | 15.5 | X | 20.76066 | 24.02515 | 40.34343 | 1.31465 | 0.1738304 | 0.17194292 | 3.2029232 | 20 | — | — |
| 203875 2002 $XG_{85}$ | 14.6 | X | 25.25414 | 69.78793 | 60.13098 | 14.25658 | 0.1846658 | 0.17861665 | 3.1226364 | 20 | 2 12.8 | 18.3 |
| 203876 2002 $XY_{96}$ | 15.6 | X | 52.57044 | 150.97253 | 261.88474 | 2.68300 | 0.1649338 | 0.17578209 | 3.1561160 | 20 | — | — |
| 203877 2002 $XZ_{99}$ | 15.8 | X | 127.56310 | 92.44038 | 269.61599 | 1.35062 | 0.1848323 | 0.18143730 | 3.0901887 | 20 | 1 26.4 | 20.5 |
| 203878 2002 $YQ_{2}$ | 17.3 | X | 247.27885 | 273.92762 | 73.95876 | 5.89720 | 0.1960785 | 0.30814538 | 2.1708623 | 20 | 4 17.9 | 20.5 |
| 203879 2002 $YN_{30}$ | 15.8 | X | 17.63516 | 359.60811 | 102.71659 | 3.06592 | 0.1562728 | 0.17250905 | 3.1959118 | 20 | — | — |
| 203880 2003 $AH_{7}$ | 14.7 | X | 311.99437 | 84.08036 | 69.40919 | 17.62987 | 0.0923891 | 0.16972158 | 3.2308094 | 20 | — | — |
| 203881 2003 $AF_{34}$ | 15.3 | X | 64.49183 | 10.42712 | 103.16572 | 10.55232 | 0.2114072 | 0.18389207 | 3.0626266 | 20 | 4 4.2 | 19.3 |
| 203882 2003 $AG_{61}$ | 14.9 | X | 43.87484 | 345.17354 | 148.82808 | 10.29588 | 0.1863775 | 0.17923760 | 3.1154203 | 20 | 3 21.1 | 18.5 |
| 203883 2003 $BM_{16}$ | 15.1 | X | 326.92198 | 214.90170 | 345.62110 | 8.38119 | 0.0325437 | 0.17355671 | 3.1830376 | 20 | 2 17.1 | 19.5 |
| 203884 2003 $BA_{26}$ | 14.5 | X | 30.60372 | 315.28217 | 119.63111 | 28.62687 | 0.2150841 | 0.17364775 | 3.1819251 | 20 | — | — |
| 203885 2003 $BZ_{61}$ | 16.8 | X | 12.68349 | 189.09573 | 301.86814 | 3.34046 | 0.1271961 | 0.28475037 | 2.2881958 | 20 | — | — |
| 203886 2003 $BF_{84}$ | 14.2 | X | 320.48569 | 77.90332 | 157.10793 | 27.05731 | 0.1851603 | 0.17307186 | 3.1889796 | 20 | 2 29.6 | 18.4 |
| 203887 2003 $DM_{21}$ | 15.3 | X | 41.39308 | 154.74322 | 324.67197 | 6.04639 | 0.1515842 | 0.17349572 | 3.1837836 | 20 | 2 21.1 | 18.8 |
| 203888 2003 $ET_{30}$ | 17.3 | X | 65.23568 | 234.20313 | 2.21652 | 3.44918 | 0.1213420 | 0.30541152 | 2.1837979 | 20 | 9 8.9 | 19.6 |
| 203889 2003 $EH_{50}$ | 16.4 | X | 213.54480 | 99.55441 | 142.65808 | 2.64620 | 0.1570574 | 0.26940756 | 2.3742669 | 20 | — | — |
| 203890 2003 $FQ_{25}$ | 16.7 | X | 225.73212 | 149.63538 | 131.93775 | 1.45740 | 0.2083131 | 0.27821381 | 2.3238973 | 20 | 1 6.1 | 20.5 |
| 203891 2003 $FR_{43}$ | 12.9 | X | 165.98539 | 172.64655 | 19.43546 | 10.87869 | 0.0468469 | 0.08273808 | 5.2159381 | 20 | 10 2.8 | 20.0 |
| 203892 2003 $FR_{61}$ | 17.0 | X | 52.32588 | 71.96270 | 132.10535 | 6.71198 | 0.1023542 | 0.29777690 | 2.2209667 | 20 | 6 26.6 | 19.3 |
| 203893 2003 $FX_{66}$ | 16.6 | X | 214.05701 | 206.30649 | 58.61246 | 4.17684 | 0.1816620 | 0.27252877 | 2.3561041 | 20 | — | — |
| 203894 2003 $FS_{116}$ | 17.1 | X | 94.44165 | 135.52724 | 73.12964 | 3.04104 | 0.1048819 | 0.30304800 | 2.1951377 | 20 | 9 5.6 | 19.9 |
| 203895 2003 $FA_{119}$ | 16.8 | X | 235.69512 | 77.19221 | 146.48822 | 1.65388 | 0.1379122 | 0.27051448 | 2.3677856 | 20 | — | — |
| 203896 2003 $GE_{51}$ | 16.5 | X | 168.90130 | 151.97655 | 109.45855 | 3.19858 | 0.1747897 | 0.26340073 | 2.4102277 | 20 | — | — |
| 203897 2003 $HD$ | 17.3 | X | 314.09582 | 303.99593 | 331.76057 | 3.25089 | 0.0660969 | 0.28930020 | 2.2641415 | 20 | 4 20.2 | 19.9 |
| 203898 2003 $HH_{12}$ | 16.3 | X | 180.41518 | 161.12103 | 71.13822 | 9.46814 | 0.2096710 | 0.26086933 | 2.4257946 | 20 | 12 20.8 | 20.1 |
| 203899 2003 $HW_{21}$ | 17.0 | X | 271.90775 | 76.85124 | 154.56755 | 2.98649 | 0.1612358 | 0.27583768 | 2.3372239 | 20 | — | — |
| 203900 2003 $HE_{22}$ | 17.2 | X | 212.99761 | 75.90798 | 181.26980 | 2.35209 | 0.1746805 | 0.26904789 | 2.3763824 | 20 | — | — |
| 203901 2003 $HR_{24}$ | 17.0 | X | 169.03808 | 124.46953 | 172.56620 | 2.75188 | 0.1649713 | 0.26885455 | 2.3775215 | 20 | — | — |
| 203902 2003 $HB_{28}$ | 16.7 | X | 238.94638 | 315.19302 | 234.86679 | 5.81604 | 0.1184258 | 0.26532873 | 2.3985376 | 20 | — | — |
| 203903 2003 $HY_{28}$ | 16.7 | X | 358.03022 | 206.02309 | 0.15096 | 6.59329 | 0.1124655 | 0.28812932 | 2.2702712 | 20 | 3 17.5 | 18.7 |
| 203904 2003 $HE_{29}$ | 17.2 | X | 5.58060 | 53.72369 | 205.88037 | 2.22501 | 0.1155717 | 0.29444825 | 2.2376735 | 20 | 6 28.8 | 19.1 |
| 203905 2003 $HJ_{37}$ | 17.1 | X | 194.73066 | 357.69694 | 260.58773 | 4.69190 | 0.1972128 | 0.26628174 | 2.3928114 | 20 | — | — |
| 203906 2003 $HQ_{41}$ | 16.7 | X | 32.45422 | 320.37133 | 285.46150 | 5.96660 | 0.1671307 | 0.29746366 | 2.2225256 | 20 | 8 6.9 | 18.8 |
| 203907 2003 $HS_{48}$ | 16.2 | X | 232.94910 | 184.98807 | 68.20708 | 7.85676 | 0.1714397 | 0.27040151 | 2.3684450 | 20 | — | — |
| 203908 2003 $HU_{50}$ | 16.2 | X | 173.80387 | 177.14828 | 81.08186 | 13.33643 | 0.2197380 | 0.26106302 | 2.4245947 | 20 | — | — |
| 203909 2003 $HK_{51}$ | 16.9 | X | 337.34783 | 71.08487 | 162.35402 | 5.69550 | 0.1091774 | 0.28665388 | 2.2780548 | 20 | 3 22.8 | 19.0 |
| 203910 2003 $HC_{53}$ | 16.8 | X | 254.07177 | 203.34202 | 42.25415 | 5.73648 | 0.1058321 | 0.27493321 | 2.3423471 | 20 | — | — |
| 203911 2003 $JV_{8}$ | 16.7 | X | 318.45097 | 89.37684 | 114.26416 | 6.22349 | 0.1181788 | 0.27897460 | 2.3196704 | 20 | 1 9.9 | 19.6 |
| 203912 2003 $JM_{16}$ | 16.5 | X | 93.26749 | 82.77110 | 133.02153 | 7.82862 | 0.1512995 | 0.30327189 | 2.1940572 | 20 | 9 20.2 | 19.5 |
| 203913 2003 $MC_{1}$ | 15.4 | X | 291.42782 | 61.79384 | 267.45039 | 11.50157 | 0.2135790 | 0.22478950 | 2.6788724 | 20 | 5 10.7 | 19.2 |
| 203914 2003 $MM_{9}$ | 16.2 | X | 176.34980 | 194.78780 | 122.58735 | 9.14606 | 0.2218167 | 0.26245982 | 2.4159846 | 20 | 1 11.2 | 20.2 |
| 203915 2003 $OA_{4}$ | 16.7 | X | 165.73470 | 156.50818 | 158.46900 | 2.47911 | 0.1831431 | 0.26089224 | 2.4256526 | 20 | — | — |
| 203916 2003 $OM_{4}$ | 16.6 | X | 213.40672 | 16.36497 | 268.07479 | 3.76729 | 0.1382217 | 0.26672711 | 2.3901470 | 20 | — | — |
| 203917 2003 $OK_{6}$ | 15.7 | X | 296.63648 | 130.14497 | 270.60512 | 10.39845 | 0.1740366 | 0.23590955 | 2.5940143 | 20 | 9 2.0 | 18.7 |
| 203918 2003 $OR_{7}$ | 15.9 | X | 328.50644 | 81.80785 | 279.23504 | 10.33750 | 0.1924081 | 0.23462604 | 2.6034660 | 20 | 9 6.5 | 18.5 |
| 203919 2003 $OV_{10}$ | 16.8 | X | 273.18174 | 197.83367 | 82.45699 | 5.94353 | 0.2205439 | 0.27600975 | 2.3362524 | 20 | 2 15.8 | 20.4 |
| 203920 2003 $OH_{13}$ | 15.8 | X | 331.84559 | 53.81128 | 347.54143 | 4.90669 | 0.2205651 | 0.24080609 | 2.5587297 | 20 | 11 26.4 | 18.0 |

| Planet | $H$ | $G$ | $M$ | $\omega$ | $\Omega$ | $i$ | $e$ | $\mu$ | $a$ | TE | Oppos. | $V$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | | ° | ° | ° | ° | | ° | | | | |
| 203921 2003 $OR_{15}$ | 15.6 | X | 316.74467 | 34.32850 | 282.16907 | 13.23363 | 0.2050462 | 0.22657313 | 2.6647948 | 20 | 6 6.2 | 18.5 |
| 203922 2003 $OH_{17}$ | 17.2 | X | 331.38847 | 125.08767 | 139.77140 | 3.13129 | 0.2404169 | 0.28290040 | 2.2981604 | 20 | 4 8.7 | 19.1 |
| 203923 2003 $OP_{20}$ | 16.8 | X | 138.82852 | 268.50440 | 61.48182 | 2.19200 | 0.2005882 | 0.25928141 | 2.4356888 | 20 | — | — |
| 203924 2003 $OR_{24}$ | 16.2 | X | 55.34782 | 213.90448 | 172.72276 | 4.66474 | 0.0809697 | 0.25457065 | 2.4656447 | 20 | — | — |
| 203925 2003 $OK_{27}$ | 16.9 | X | 267.70665 | 11.97398 | 259.85285 | 1.46475 | 0.2084233 | 0.27326595 | 2.3518649 | 20 | 1 29.9 | 20.6 |
| 203926 2003 $OX_{30}$ | 16.3 | X | 11.73596 | 50.33611 | 304.37877 | 12.31811 | 0.2084893 | 0.23931989 | 2.5693120 | 20 | 12 5.8 | 19.5 |
| 203927 2003 $PO_{4}$ | 16.8 | X | 348.59056 | 336.14053 | 149.22512 | 5.46072 | 0.0612362 | 0.25937001 | 2.4351341 | 20 | — | — |
| 203928 2003 $PG_{8}$ | 16.2 | X | 172.37340 | 13.77637 | 294.15067 | 4.94190 | 0.1101988 | 0.25983589 | 2.4322225 | 20 | — | — |
| 203929 2003 $QP_{14}$ | 16.4 | X | 137.75999 | 51.82078 | 264.05484 | 5.64664 | 0.1531609 | 0.25536882 | 2.4605043 | 20 | — | — |
| 203930 2003 $QG_{18}$ | 16.6 | X | 219.16655 | 174.45479 | 100.57222 | 3.63822 | 0.1843631 | 0.26383444 | 2.4075855 | 20 | — | — |
| 203931 2003 $QZ_{20}$ | 16.3 | X | 160.67983 | 230.37187 | 54.87678 | 4.61044 | 0.1689666 | 0.25383709 | 2.4703927 | 20 | — | — |
| 203932 2003 $QD_{21}$ | 16.3 | X | 351.32144 | 277.58853 | 89.77225 | 4.98799 | 0.1383440 | 0.23597430 | 2.5935398 | 20 | 11 9.6 | 19.0 |
| 203933 2003 $QM_{32}$ | 16.5 | X | 57.75269 | 185.87309 | 165.74538 | 3.83800 | 0.1598887 | 0.24634160 | 2.5202534 | 20 | — | — |
| 203934 2003 $QT_{37}$ | 16.1 | X | 259.82599 | 45.56025 | 332.60753 | 12.53142 | 0.2766016 | 0.22343108 | 2.6897195 | 20 | 5 28.6 | 20.6 |
| 203935 2003 $QD_{49}$ | 16.5 | X | 37.28157 | 239.50170 | 127.33167 | 5.23843 | 0.1136129 | 0.24606453 | 2.5221450 | 20 | — | — |
| 203936 2003 $QQ_{49}$ | 17.0 | X | 23.07106 | 213.31576 | 143.40389 | 5.42364 | 0.2577788 | 0.24103008 | 2.5571442 | 20 | — | — |
| 203937 2003 $QP_{52}$ | 16.0 | X | 201.24846 | 5.33034 | 348.93602 | 5.05359 | 0.1788466 | 0.21232423 | 2.7827211 | 20 | 3 18.3 | 20.7 |
| 203938 2003 $QN_{69}$ | 15.7 | X | 311.26228 | 93.94030 | 259.08174 | 10.71098 | 0.1961101 | 0.22713469 | 2.6604008 | 20 | 7 19.5 | 18.7 |
| 203939 2003 $QV_{73}$ | 16.9 | X | 277.97978 | 40.03171 | 216.70708 | 1.56839 | 0.1735413 | 0.27119057 | 2.3638486 | 20 | 1 24.6 | 20.2 |
| 203940 2003 $QQ_{77}$ | 15.4 | X | 259.20049 | 59.48516 | 348.38998 | 12.36720 | 0.1808004 | 0.22397363 | 2.6853741 | 20 | 7 24.4 | 19.3 |
| 203941 2003 $QK_{78}$ | 16.1 | X | 321.27049 | 48.42263 | 334.57784 | 10.52140 | 0.1897288 | 0.23129948 | 2.6283686 | 20 | 9 26.1 | 18.7 |
| 203942 2003 $QZ_{88}$ | 15.4 | X | 208.95746 | 244.23106 | 137.62289 | 14.68364 | 0.2146859 | 0.21208772 | 2.7847894 | 20 | 5 1.6 | 20.4 |
| 203943 2003 $QP_{95}$ | 16.1 | X | 253.71023 | 98.81184 | 311.66419 | 9.39044 | 0.2013656 | 0.22426718 | 2.6830303 | 20 | 7 15.7 | 20.0 |
| 203944 2003 $QU_{111}$ | 16.2 | X | 72.76374 | 190.72745 | 85.94977 | 8.54593 | 0.2000671 | 0.24065848 | 2.5597759 | 20 | 11 12.2 | 20.1 |
| 203945 2003 $QN_{114}$ | 16.8 | X | 306.41150 | 91.18478 | 307.90703 | 11.30247 | 0.1802381 | 0.23296835 | 2.6158014 | 20 | 9 17.3 | 19.7 |
| 203946 2003 $RA_{8}$ | 16.0 | X | 301.12785 | 58.32546 | 316.51247 | 15.88459 | 0.3254872 | 0.22611772 | 2.6683716 | 20 | 7 14.8 | 18.9 |
| 203947 2003 $RA_{9}$ | 15.1 | X | 229.04630 | 99.47636 | 281.43233 | 11.14121 | 0.2018296 | 0.21688081 | 2.7436074 | 20 | 5 10.5 | 19.8 |
| 203948 2003 $RF_{11}$ | 15.5 | X | 263.45832 | 0.45379 | 16.53741 | 10.61261 | 0.3235159 | 0.22284919 | 2.6943996 | 20 | 5 25.3 | 19.9 |
| 203949 2003 $RS_{13}$ | 15.6 | X | 288.47413 | 45.98220 | 287.48964 | 9.70302 | 0.2404611 | 0.22269421 | 2.6956496 | 20 | 5 7.3 | 19.5 |
| 203950 2003 $SY_{2}$ | 15.7 | X | 259.13892 | 212.89231 | 190.54550 | 8.68747 | 0.2223619 | 0.22342445 | 2.6897727 | 20 | 7 7.6 | 19.8 |
| 203951 2003 $SU_{6}$ | 17.3 | X | 15.18528 | 184.56976 | 163.92752 | 1.93639 | 0.2239618 | 0.23701428 | 2.5859475 | 20 | 12 5.6 | 20.3 |
| 203952 2003 $SF_{15}$ | 15.3 | X | 272.72452 | 68.65214 | 74.95723 | 15.76468 | 0.0527511 | 0.24268546 | 2.5455026 | 20 | — | — |
| 203953 2003 $SJ_{16}$ | 15.7 | X | 339.73729 | 340.99602 | 5.97028 | 13.19192 | 0.1862550 | 0.23052687 | 2.6342380 | 20 | 9 18.9 | 17.9 |
| 203954 2003 $SW_{22}$ | 16.9 | X | 339.68644 | 87.69720 | 268.05950 | 4.67558 | 0.2054345 | 0.23182273 | 2.6244122 | 20 | 9 28.6 | 19.1 |
| 203955 2003 $SH_{31}$ | 16.1 | X | 274.74796 | 356.17985 | 357.37060 | 2.85531 | 0.1064186 | 0.21914013 | 2.7247172 | 20 | 6 8.2 | 19.8 |
| 203956 2003 $SX_{63}$ | 16.2 | X | 266.69440 | 114.92032 | 310.04974 | 12.02419 | 0.2497529 | 0.22857101 | 2.6492440 | 20 | 8 11.1 | 19.6 |
| 203957 2003 $SK_{69}$ | 17.0 | X | 189.58739 | 165.63537 | 308.48292 | 1.12699 | 0.0505717 | 0.22478852 | 2.6788802 | 20 | 8 9.6 | 20.6 |
| 203958 2003 $SS_{94}$ | 16.3 | X | 10.18833 | 48.86480 | 299.70418 | 8.03822 | 0.1806101 | 0.23666167 | 2.5885155 | 20 | 11 18.4 | 19.3 |
| 203959 2003 $SR_{104}$ | 16.3 | X | 307.59715 | 99.52527 | 307.25590 | 10.92154 | 0.1727002 | 0.23346991 | 2.6120537 | 20 | 10 1.8 | 19.2 |
| 203960 2003 $SO_{105}$ | 16.9 | X | 15.30581 | 180.85435 | 183.93744 | 0.11684 | 0.0676010 | 0.23843543 | 2.5756619 | 20 | 12 3.6 | 20.1 |
| 203961 2003 $SZ_{111}$ | 16.5 | X | 319.64670 | 339.52867 | 344.92059 | 2.97593 | 0.1815467 | 0.22557627 | 2.6726399 | 20 | 6 27.9 | 19.3 |
| 203962 2003 $SR_{122}$ | 15.7 | X | 216.26081 | 190.36893 | 285.05956 | 7.96800 | 0.1649678 | 0.22894940 | 2.6463241 | 20 | 8 28.5 | 20.0 |
| 203963 2003 $SV_{131}$ | 16.8 | X | 156.81583 | 57.89842 | 195.14102 | 2.13729 | 0.0837456 | 0.24272336 | 2.5452376 | 20 | 12 28.5 | 20.4 |
| 203964 2003 $SA_{133}$ | 16.6 | X | 320.57992 | 212.62320 | 187.18124 | 1.73094 | 0.0942178 | 0.23298175 | 2.6157011 | 20 | 10 27.9 | 19.6 |
| 203965 2003 $SB_{140}$ | 16.0 | X | 298.63662 | 296.65084 | 53.62708 | 7.15820 | 0.0554424 | 0.22286564 | 2.6942670 | 20 | 7 17.9 | 19.5 |
| 203966 2003 $SN_{146}$ | 15.7 | X | 266.13531 | 135.68296 | 243.64501 | 8.11399 | 0.0852503 | 0.22087396 | 2.7104394 | 20 | 7 4.3 | 19.4 |
| 203967 2003 $SP_{152}$ | 15.9 | X | 335.98513 | 220.26500 | 109.09648 | 7.14206 | 0.1132222 | 0.22793341 | 2.6541822 | 20 | 8 14.5 | 18.7 |
| 203968 2003 $SH_{154}$ | 16.0 | X | 255.31175 | 274.06686 | 112.73862 | 10.56034 | 0.1441932 | 0.22248165 | 2.6973662 | 20 | 6 23.2 | 19.8 |
| 203969 2003 $SR_{157}$ | 16.4 | X | 240.40456 | 21.44103 | 358.68522 | 2.01100 | 0.2750009 | 0.21746825 | 2.7386644 | 20 | 5 15.7 | 21.0 |
| 203970 2003 $SG_{165}$ | 15.8 | X | 263.65532 | 211.27064 | 164.18482 | 8.53539 | 0.1925831 | 0.22015220 | 2.7163602 | 20 | 6 11.9 | 19.8 |
| 203971 2003 $SP_{171}$ | 16.4 | X | 332.54719 | 99.61722 | 288.19098 | 4.01587 | 0.0956067 | 0.23622157 | 2.5917296 | 20 | 10 30.1 | 19.3 |
| 203972 2003 $SW_{176}$ | 16.9 | X | 35.46435 | 198.05409 | 165.98929 | 3.03191 | 0.1314492 | 0.24206890 | 2.5498231 | 20 | — | — |
| 203973 2003 $SR_{193}$ | 15.8 | X | 231.37889 | 122.27860 | 279.97098 | 7.89439 | 0.2068207 | 0.21995713 | 2.7179660 | 20 | 6 10.2 | 20.1 |
| 203974 2003 $SM_{200}$ | 15.7 | X | 9.18903 | 267.44637 | 112.70794 | 16.00571 | 0.1094629 | 0.24044208 | 2.5613115 | 20 | 12 22.7 | 18.9 |
| 203975 2003 $SL_{206}$ | 16.6 | X | 253.27307 | 351.98601 | 39.57862 | 3.24936 | 0.1169695 | 0.22315570 | 2.6919318 | 20 | 6 30.7 | 20.3 |
| 203976 2003 $SR_{208}$ | 16.6 | X | 294.66778 | 145.08462 | 237.67468 | 3.62668 | 0.1958873 | 0.22906435 | 2.6454388 | 20 | 8 3.2 | 19.6 |
| 203977 2003 $SC_{212}$ | 16.2 | X | 273.25354 | 258.20854 | 71.70253 | 11.53308 | 0.1822824 | 0.21958978 | 2.7209964 | 20 | 4 28.9 | 20.2 |
| 203978 2003 $SV_{218}$ | 16.3 | X | 219.66355 | 25.92679 | 44.81372 | 3.98900 | 0.1513357 | 0.21677903 | 2.7444661 | 20 | 7 10.2 | 20.5 |
| 203979 2003 $SG_{232}$ | 15.7 | X | 314.34379 | 216.51328 | 107.41054 | 4.57894 | 0.0971163 | 0.22125952 | 2.7072897 | 20 | 6 28.3 | 19.0 |
| 203980 2003 $SH_{232}$ | 15.7 | X | 220.05765 | 221.11047 | 163.47420 | 5.56140 | 0.1775003 | 0.21446318 | 2.7641878 | 20 | 5 12.4 | 20.2 |
| 203981 2003 $SP_{233}$ | 16.8 | X | 64.67039 | 176.16376 | 142.30726 | 3.88662 | 0.1722308 | 0.24096041 | 2.5576371 | 20 | 12 20.4 | 20.6 |
| 203982 2003 $SK_{235}$ | 15.8 | X | 7.83045 | 36.18677 | 311.69145 | 13.77968 | 0.1270567 | 0.23510719 | 2.5999128 | 20 | 10 31.7 | 19.2 |
| 203983 2003 $SE_{240}$ | 16.6 | X | 87.73283 | 324.78610 | 339.41755 | 3.44133 | 0.2260786 | 0.24236638 | 2.5477363 | 20 | 12 28.9 | 20.8 |
| 203984 2003 $SK_{246}$ | 16.3 | X | 159.80414 | 98.78475 | 357.44003 | 7.18603 | 0.1924815 | 0.21414743 | 2.7669043 | 20 | 6 15.0 | 21.0 |
| 203985 2003 $SG_{261}$ | 16.4 | X | 203.68393 | 328.04581 | 300.55677 | 5.21224 | 0.0883063 | 0.25703112 | 2.4498843 | 20 | — | — |
| 203986 2003 $SW_{264}$ | 15.7 | X | 222.77682 | 215.05781 | 81.74830 | 3.10927 | 0.0208515 | 0.20184974 | 2.8781754 | 20 | 2 5.9 | 19.7 |
| 203987 2003 $SN_{265}$ | 16.7 | X | 283.43604 | 220.66012 | 258.68794 | 2.89055 | 0.1749258 | 0.24029159 | 2.5623808 | 20 | 12 8.2 | 19.0 |
| 203988 2003 $SD_{293}$ | 16.2 | X | 267.26057 | 198.28861 | 268.40368 | 5.03317 | 0.0833007 | 0.23666171 | 2.5885152 | 20 | 11 3.9 | 19.5 |
| 203989 2003 $SV_{302}$ | 16.4 | X | 266.00987 | 62.49329 | 297.46703 | 1.97065 | 0.0880829 | 0.21933810 | 2.7230775 | 20 | 6 8.3 | 20.2 |
| 203990 2003 $SB_{306}$ | 15.2 | X | 76.38707 | 232.88241 | 255.72871 | 13.77310 | 0.0991863 | 0.20428801 | 2.8552280 | 20 | 4 12.2 | 19.2 |
| 203991 2003 $SN_{319}$ | 17.1 | X | 52.46644 | 284.50258 | 35.22605 | 3.94477 | 0.1785501 | 0.23943648 | 2.5684779 | 20 | 12 8.9 | 20.7 |
| 203992 2003 $SR_{319}$ | 15.8 | X | 340.23155 | 133.30182 | 172.33913 | 10.70400 | 0.0108320 | 0.22159396 | 2.7045651 | 20 | 7 17.4 | 19.6 |
| 203993 2003 $SF_{323}$ | 16.6 | X | 194.25426 | 200.59309 | 257.21209 | 2.82505 | 0.0375772 | 0.22481545 | 2.6786663 | 20 | 7 24.8 | 20.3 |
| 203994 2003 $TL_{2}$ | 15.4 | X | 194.27274 | 324.55059 | 74.96603 | 8.11445 | 0.2461927 | 0.21147407 | 2.7901741 | 20 | 5 7.1 | 20.3 |
| 203995 2003 $TO_{12}$ | 16.4 | X | 235.33108 | 94.99405 | 220.53953 | 6.82990 | 0.2291426 | 0.20960477 | 2.8067384 | 20 | 2 25.9 | 21.3 |
| 203996 2003 $TX_{16}$ | 15.9 | X | 324.43008 | 23.30769 | 318.95982 | 2.68635 | 0.1029736 | 0.22560760 | 2.6723924 | 20 | 8 10.9 | 18.7 |
| 203997 2003 $TT_{19}$ | 16.1 | X | 307.28748 | 68.84640 | 283.64500 | 2.71909 | 0.1796378 | 0.22402588 | 2.6849565 | 20 | 7 15.9 | 19.0 |
| 203998 2003 $TB_{20}$ | 15.3 | X | 330.53243 | 347.37655 | 295.28122 | 10.80337 | 0.0667444 | 0.21980862 | 2.7191901 | 20 | 5 29.1 | 18.9 |
| 203999 2003 $TZ_{20}$ | 15.9 | X | 195.44112 | 292.35211 | 115.46141 | 6.05037 | 0.1674545 | 0.21313106 | 2.7756938 | 20 | 5 19.3 | 20.5 |
| 204000 2003 $TY_{27}$ | 16.6 | X | 156.16388 | 8.37440 | 270.60330 | 1.93447 | 0.0400349 | 0.24674240 | 2.5175235 | 20 | — | — |